National Environmental Research Institute
Ministry of Environment

Emission Inventories

Denmark's National Inventory Report

Submitted under the United Nations Framework Convention on Climate Change, 1990-2000

Research Notes from NERI no. 161

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May 2002

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Data sheet

Title:	Denmark's National Inventory Report – Submitted under the United Nations Framework Convention on Climate Change, 1990-2000
Subtitle:	Emissions Inventories
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Department:	Department of Policy Analysis
Serial title and no.:	Research Notes from NERI no 161
Publisher:	Ministry of the Environment National Environmental Research Institute©
URL:	http://www.dmu.dk
Date of publication:	June 2002
Layout:	Ann-Katrine Holme Christoffersen
Please cite as:	Illerup, J. B., Lyck E. & Winther M. 2002. Denmark's National Inventory Report – Submitted under the United Nations Framework Convention on Climate Change 1990-2000. Emissions Inventories. National Environmental Research Institute, Denmark. 693 p. – Research Notes from NERI no 161.

Abstract: This report is Denmark's National Inventory Report reported to the Conference of the Parties under the United Nations Framework Convention on Climate Change (UNFCCC) due by 15 April 2001. The report contains information on Denmark's inventories for all years' from 1990 to 1999 for CO_2, CH_4, N_2O, CO, NMVOC, SO_2, HFCs, PFCs and SF_6.

Keywords:	Emissions Inventory; UNFCCC; IPCC; CO_2; CH_4, N_2O, HFCs; PFCs; SF_6
Editing completed:	April 2002
ISSN (electronic):	1399-9346
Number of pages:	693
Internet-version:	The report is only available in electronic format (PDF) from NERI's homepage

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Introduction

According to decision 3/CP.5 taken under the United Nations Framework Convention on Climate Change (UNFCCC) by the Conference of the Parties at its fifth session in November 1999, including the adoption of UNFCCC REPORTING GUIDELINES ON ANNUAL INVENTORIES contained in the document FCCC/CP/1999/7, each developed country Party to the Convention shall annually submit to the Conference of the Parties, through the secretariat, a national inventory report containing detailed and complete information on their inventories for all years from the base year to the year of the current annual inventory submission, in order to ensure the transparency of the inventory.

This report is Denmark's National Inventory Report due by 15 April 2002. The report contains information on Denmark's inventories for all years from 1990 to 2000.

According to the UNFCCC REPORTING GUIDELINES ON ANNUAL INVENTORIES the following issues are addressed in the report:

(a) The annual inventory information 1990-2000
(b) Database information
(c) Methodologies
(d) References regarding methodologies, emission factors and activity data
(e) Assumptions underlying the emission and removal estimates
(f) Feedstocks and bunkers
(g) Recalculations
(h) Uncertainties
(i) Information on quality assurance/quality control (QA/QC)
(j) Changes with respect to the previous years

The report contains the following appendices:

Appendix 1:	1.1	Denmark's annual emission inventories 1990 – 2000 to the Climate Convention in CRF
	1.2	Total emissions for Denmark, Greenland and the Faroe Islands.
Appendix 2:		Emission trends 1990-2000 adjusted for electricity exchange and inter-annual temperature variations
Appendix 3:		Information on Greenland and the Faroe Islands
Appendix 4:		Emission factors used for fuel combustion
Appendix 5:		Key Sources Analyses for year 2000
Appendix 6:		The specific methodologies regarding adjustments

(a) The annual inventory information 1990 - 2000

The annual emission inventories for Denmark for 1990 to 2000 are given in Appendix 1.1 and includes tables in CRF for each year.

The following CRF-tables are completed for years 1990-2000, unless other indication is given:

- Table 1: Sectoral Report for Energy
  A: Fuel Combustion Activities
  B: Fugitive Emissions from Fuels
  Memo Items
- Table 1.A(a): Sectoral Background Data for Energy
  Fuel Combustion Activities - Sectoral Approach
- Table 1.A(b): Sectoral Background Data for energy
  CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
- Table 1.A(c) Comparison of CO_2 Emissions from Fuel Combustion
- Table 1.A(d): Sectoral Background Data for Energy
  Feedstock and Non-Energy Use of Fuels
- Table 1.B.1: Sectoral background data for energy
  Fugitive Emissions from Solid Fuels
- Table 1.B.2: Sectoral background data for energy
  Fugitive Emissions from Oil and Natural Gas
- Table 1.C: Sectoral background data for energy
  International Bunkers and Multilateral Operations
- Table 2(I): Sectoral Report for Industrial Processes
  A: Mineral Products
  B: Chemical Industry
  C: Metal Production
  D: Other Production
  F: Consumption of Halocarbons and SF_6
- Table 2(I). A-G: Sectoral Background Data for Industrial Processes
- Table 2(II): Sectoral Report for Industrial Processes – Emissions of HFCs, PFCs and SF_6
- Table 2(II). C, E: Sectoral Background Data for Industrial Processes
  Metal Production of Halocarbons and SF_6
- Table 3: Sectoral Report for Solvent and Other Product Use
- Table 4: Sectoral Report for Agriculture
  A: Enteric Fermentation
  B: Manure Management
  D: Agricultural Soils
- Table 4.A: Sectoral Background Data for Agriculture
  Enteric Fermentation
- Table 4.B(a): Sectoral Background Data for Agriculture
  CH_4 Emissions from Manure Management
- Table 4.D: Sectoral Background Data for Agriculture
  Agriculture Soils
- Table 5: Sectoral Report for Land-Use Change and Forestry
  A: Changes in Forests and Other Woody Biomass Stocks
- Table 6: Sectoral Report for Waste
  A: Solid Waste Disposal on Land
- Table 6.A: Sectoral background data for waste
  Solid Waste Disposal
- Table 8(a): Recalculation – Recalculated Data (1990-1999)
- Table 8(b): Recalculation – Explanatory Information (1990-1999)
- Table 9: Completeness (2000 only)

- Summary 1.A: Summary Report for National Greenhouse Gas Inventories (IPCC table 7A)
- Summary 1.B: Short Summary Report for National Greenhouse Gas Inventories (IPCC table 7B)
- Summary 2: Summary Report for CO_2 Equivalent Emissions
- Summary 3: Summary Report for Methods and Emission Factors Used (2000 only)
  Overview Table For National Greenhouse Gas Inventories (IPCC Table 8A) (2000 only)
- Table 11: Check List of Inventory Information

The tables above marked "2000 only", indicates that these tables have until now only been filled in for year 2000, although the main part of the information filled in those tables will be the same for the years 1990-1999. At this stage of the development of the CRF reports for Denmark, the following tables have now been filled in more complete for year 2000 than for 1990-1999: Table 4.A (Sectoral Background Data for Agriculture, Enteric Fermentation) and Table 4.B(a) (Sectoral Background Data for Agriculture, CH_4 Emissions from Manure management). For 1990-2000 the following tables are not relevant for Denmark: Table 4.C (Sectoral Background Data for Agriculture, Rice Cultivation), Table 4.E (Sectoral Background Data for Agriculture, Prescribed Burning of Savannas) and Table 4.F (Sectoral Background Data for Agriculture, Field Burning of Agricultural Residues). The latter is not relevant since 1990, where field burning was forbidden by law.

Additionally for 2000 trends from 1990 to 2000 are worked out, which implies completion of the following tables:

- Table 10: Emissions Trends
  Emissions Trends (CO_2)
  Emissions Trends (CH_4)
  Emissions Trends (N_2O)
  Emissions Trends (HFCs, PFCs and SF_6)
  Emissions Trends (Summary)

Geographic coverage

According to the instrument of ratification the Danish government has ratified the UN Framework Convention on Climate Change on behalf of Denmark, Greenland and the Faroe Islands. Appendix 1.2 contains total emissions for Denmark, Greenland and the Faroe Islands for 1990 to 2000. However, it has not been possible to present a complete inventory in CRF. In Appendix 3 information on the Greenland and the Faroe Islands inventories are given. Apart from Appendix 1.2 and 3 the information in this report only relate to Denmark.

Data for assessment of progress in the implementation of policies and measures with an effect on the national energy consumption

For the purpose of assessment of progress in the implementation of policies and measures with an effect on the national energy consumption and in accordance with the UNFCCC REPORTING GUIDELINES ON ANNUAL INVENTORIES appendix

2 contains a table with GHG trend data 1990-2000 with CO_2 emissions and Totals adjusted for both electricity exchange and inter-annual temperature variations.

(b) Database information

The emission inventory tables are made from the Danish CORINAIR-database (Illerup et al., 2002), and detailed information on the emission factors and activity data can be made available in an electronic copy on request. In Appendix 4 tables with emission factors used for fuel combustion in the 1990 and 2000 emission inventories, are shown.

The Danish databases are stored in Access 97 and are handled with software developed by the European Environmental Agency. For data handling the software tool is CollectER (Pulles et al., 1999a) and for the CRF reporting the software tool is ReportER (Pulles et al., 1999b).

(c) Methodologies

The general methodology

Denmark's air emission inventories are based on the CORINAIR methodology. CORINAIR (COoRdination of Information on AIR emissions) is the most extensive European air emission inventory programme for national sector-wise emission estimations harmonised with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories (Houghton et al., 1997). To ensure estimates as timely, consistent, transparent, accurate and comparable as possible, the inventory programme has developed calculation methodologies for most sub-sectors and software for storing and further data processing (Richardson, S. (Ed), 1999).

A thorough description of the CORINAIR inventory programme used for Danish emission estimations is given in (Illerup et al., 2000). The CORINAIR calculation principle is to calculate the emissions as activities times emission factors. Activities are numbers referring to a specific process generating emissions, while an emission factor is the mass of emissions per unit activity. Information on activities to carry out the CORINAIR inventory is mainly based on official statistics. The most consistent emission factors have been used, either as measured values or default factors proposed by the CORINAIR methodology.

The CORINAIR part dealing with emissions from road transportation has been calculated as described in Illerup et al., 2000 by using the COPERT III model developed under the EU/EEA.

A list of all sub-sectors on the most detailed level is given in Illerup et al., 2000. Incorporated in the CORINAIR software is a feature to serve the specific UNFCCC and UNECE convention needs for emission reporting. The translation between CORINAIR and IPCC codes for sector classifications are listed in Illerup et al, 2000.

The CORINAIR methodology is the general methodology used. Some parts of the underlying methodologies are taken directly from the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories and some parts have been elaborated to reflect better national circumstances in accordance with the under lying principles of these guidelines. Below, some of these underlying methodologies are mentioned.

The specific methodology regarding HFCs, PFCs and SF_6

The data for the emissions and the potential emissions of HFCs, PFCs and SF_6 are based on work carried out by the Danish company COWIconsult (the Danish Environmental Protection Agency, 2001). The methodology in the Revised 1996 IPCC Guidelines has been used. Besides the report, personal communication with the author of the report has been used to elucidate data in the report in a more detailed and disaggregated manner.

The specific methodology regarding removals by sinks.

Regarding removals by sinks the methodology is also based on the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories. So far, only sequestration in forests is taken into account in the Danish inventory. Illerup et al. (2001) contains more information on the methodology used.

The specific methodology regarding Agriculture.

Activity data for livestock is one year average from Agriculture Statistics published in Statistics Denmark (2001). The methodology for Agriculture is as described in Illerup et al (2000) Appendix 10. In short: The Emission factors for Enteric Fermentation for CH_4 are based on a Tier 2 approach for Cattle, Tier 1 for the other categories and emission factors for manure management are based on a Tier 2 approach, Andersen (1999) (referred to in Illerup et al (2000)). For these Tier 2 approaches the relevant formulas in the IPCC Guidelines have been used with data relevant for Danish conditions. On a detailed animal categorisation level these data are animal mass, daily feed intake and excretion, and CH_4 producing potential and CH_4 conversion (Andersen, 1999). No activity data for Goats was available in Statistics Denmark (2001); from other statistics it is known that the livestock is low and the CH_4 emission from this category is negligible. For Dairy Cattle and Manure Management the emission factor is higher than the IPCC default for cool -Western Europe and for Other Cattle lower. The reasons have been argued in Andersen (1999), where it is mentioned that in Denmark the type of feed and excretion, and animal waste management systems, deviates from Western Europe. Further, the counting in group Other Cattle in the Danish model and in the activity data reported here includes several categories which might have been omitted referring to IPCC guidelines. The emission of N_2O is based on data for 2000 from Granth et al (2001) and the methodology used is described in Illerup et al (2000) Appendix 10.

The specific methodology regarding Waste.

Data for Municipal Solid Waste deposited at Solid Waste Disposal Sites, is according to official registration performed by the Danish Environmental Protection Agency in the ISAG database, the Danish Environmental Protection Agency (2001). CH_4 emissions from Solid Waste Disposal Sites are based on a model suited to the Danish conditions. The model is described in Danish Energy Agency (2001). All waste incinerated are used for energy and heat production. This production is included in energy statistics, hence emissions are included in Table 1A.1a Public Electricity and Heat Production 6 B. The Danish wastewater handling systems are considered to produce emissions of only minor and negligible importance.

The specific methodologies regarding adjustments

In the UNFCCC REPORTING GUIDELINES ON ANNUAL INVENTORIES Parties are encouraged to give information on application of adjustments as it is regarded as

important information in relation to the monitoring of emission and removal trends and the performance of national policies and measures.

In Appendix 2 the application of adjustments is reported separately. The methodologies followed are described in Appendix 6.

The specific methodologies regarding key sources
A key source analyses for year 2000 has been carried out in accordance with the Good Practice Guidance, Penman et al (2000). The categorisation used, results, etc are included in Appendix 5.

(d) References regarding methodologies, emission factors and activity data
The documentation on the CORINAIR methodology can be obtained from the "Joint EMEP/CORINAIR Atmospheric Emission Inventory Guidebook, Second edition (Richardson, S. (Ed), 1999). The documentation on the COPERT III is given in Ntziachristos et al. (2000).

Regarding removals by sinks the methodology the reference is the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

Regarding activity data the references are national statistics e.g. on energy and agriculture as well as data on production (e.g. cement) and consumption (e.g. F-gases) obtained from directly producers and consumers. In some of the appendices specific references related to the subject dealt with in the appendix are given.

The emission factors are partly based on the Joint EMEP/CORINAIR Atmospheric Emission Inventory Guidebook mentioned above and the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, and partly on Danish legislation and measurements on Danish plants. In some few cases data on the emissions are coming directly from measurements instead of calculations from emission factors.

(e) Assumptions underlying the emission and removal estimates
The assumptions underlying the emission and removal estimates are in general related to the emission factors chosen and activity data used. Information on the emission factors chosen and activity data used is given above and in the CRF.

(f) Feedstocks and bunkers
Feedstocks
The Danish energy statistics, which are used as activity data in the emission inventory calculations, do not include feedstocks and neither do the emission inventory then. However, emissions from some of the products produced on the basis of feedstocks are taken into account e.g. emissions from the use of solvents and from incineration of plastic in municipal waste (Illerup et al., 2000).

Bunkers
In the Danish emission inventories presented in the CRF the distinction between domestic marine and aviation emissions, which are to be included in the national totals, and international bunker emissions, is made in accordance with the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories. This means that domestic marine and aviation emissions are emissions that are coming from the

transportation between two national harbours or airports. However, a minor part of the present international bunker emissions is actually emissions coming from transportation between Denmark and Greenland and between Denmark and the Faroe Islands. These emissions should be included in the national totals due to the circumstances mentioned under (a). This issue will be further elaborated in the near future.

(g) Recalculations
Since the submission of Denmark's National Inventory Report for 1999 (Illerup et al. 2001) to the UNFCCC the following main changes to the Danish emission inventories have been carried out:

Energy:
A recalculation has been carried out for the years 1990 to 1997 based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines. Further, a considerable number of small changes of activity rates occur. The change of overall fuel consumption is limited.

Emission factors for CH_4, NO_x, NMVOC, and CO have been estimated for stationary engines and gas turbines.

Transport:
Road traffic emissions numbers for 1990-1999 are slightly different from previous year's estimates. This is due to the use of the new COPERT emission calculation model version, COPERT III, and due to changes in the energy statistics, which provide background fuel use totals.

Emissions figures from **military activities** are slightly changed for 1990-1999. The reason is that emission factors for gasoline and diesel fuel use have been derived from each years new COPERT III model runs.

Emissions figures from **railway activities** are slightly changed for 1990-1999. The reason is that emission factors for gasoline fuel use have been derived from each years new COPERT III model runs.

Emissions figures for **inland waterways, agriculture, forestry, industry and household and gardening** have changed for 1990-1999. This is due to modifications in fuel use for these sectors.

National sea traffic emission of SO_2 has been changed for 1990-1999 due to updated information on S% for marine diesel fuel.

Aircraft emissions have been changed according to the findings from a research project carried out by NERI in 2001. The end result has been a different allocation of fuel use quantities between LTO and cruise; domestic and international, and updated emission factors in the same sectors.

The actual changes with respect to the previous submissions are given in the CRF reports.

(h) Uncertainties
The uncertainty on the emissions arises from the uncertainty on the activity data, the uncertainty on the emission factors and the uncertainty arising from whether all (major) sources of emissions are included in the inventory.
It is assumed that the top-down estimates based on the energy statistic are more accurate than the bottom-up estimates based on less well known activity data, e.g. average annual mileage of gasoline driven cars, which means that discrepancies are eliminated by updating some of the most uncertain parameters in the activity data to fit with the energy statistics, e.g. consumption of gasoline sold for road transportation.

In Denmark's 2nd National Communication to the Convention it is stated that the statistics are the official Danish statistics and the emission factors measurements originate from either existing Danish plants or from comparable European installations. It is also assumed that the uncertainty is greatest for the inventories of NMVOC, CH_4 and N_2O, perhaps with an uncertainty factor of 2, while the uncertainty on the CO and NO_x inventories is assumed to be less than 30 – 40% and the uncertainty with the CO_2 may be as low as 1 – 2%.

Applying the methodology mentioned in Annex 1 of the Reporting Instructions of the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories these estimates lead to an overall uncertainty on the GHG emissions in CO_2 equivalents of ± 23 %. In compare the default uncertainties in the same Annex 1 lead to an overall uncertainty on the GHG emissions in CO_2 equivalents of ± 22 %. This absolute uncertainty might represent an overestimate in compare to the uncertainty when trends in data are analysed. It should be noted that neither the national based estimation nor the calculation based on the IPCC default values and methodology takes into account the 35 % uncertainty on the GWP-factors.

Sensitivity analyses shows that it is the huge uncertainty on N_2O from agricultural soils, which are the key factor of the overall uncertainty of the Danish GHG inventory.

(i) Information on quality assurance/quality control (QA/QC)
In the preparation of Denmark's annual emission inventories some quality control (QC) is performed. A part from the UNFCCC's In-Depth-Reviews, Quality Assurance (QA) with independent review of the inventories has not yet been carried out. The IPCC has developed guidance on good practice. This work includes good practice guidance on QA/QC. Future work to improve the Danish emission inventories will include further elaboration of how formal QA/QC procedures could be implemented.

(j) Changes with respect to previous reporting
As mentioned under (g) on recalculations several changes to the Danish emission inventories have been made. In Table 8 of the CRF for the years 1990-1999 the result of these changes as compared with the previous report (Illerup et al., 2001) are shown.

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Appendix 1.1

Annual emission inventories 1990-2000
CRF tables for Denmark

NB '.' (Full stop) is separator for thousands and ',' (comma) is separator for decimals.

Annual emission inventories

1990

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**51.506,29**	**23,10**	**1,86**	**270,38**	**662,77**	**118,16**	**180,65**
A. Fuel Combustion Activities (Sectoral Approach)	**51.266,29**	**10,63**	**1,86**	**269,08**	**628,67**	**106,59**	**180,65**
1. Energy Industries	**26.202,33**	**1,16**	**0,87**	**95,48**	**8,55**	**1,14**	**133,44**
a. Public Electricity and Heat Production	24.785,21	1,07	0,85	91,72	8,16	1,06	125,75
b. Petroleum Refining	897,47	0,06	0,02	1,59	0,20	0,06	7,69
c. Manufacture of Solid Fuels and Other Energy Industries	519,64	0,03	0,01	2,17	0,19	0,02	0,00
2. Manufacturing Industries and Construction	**5.605,10**	**0,75**	**0,17**	**21,59**	**13,62**	**4,13**	**21,19**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	5.605,10	0,75	0,17	21,59	13,62	4,13	21,19
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				21,59	13,62	4,13	21,19
3. Transport	**10.381,01**	**2,69**	**0,48**	**111,88**	**462,05**	**84,89**	**12,08**
a. Civil Aviation	192,83	0,01	0,01	0,89	1,11	0,19	0,01
b. Road Transportation	9.351,27	2,60	0,43	99,12	450,83	79,23	6,17
c. Railways	298,13	0,02	0,01	2,79	0,54	0,19	0,38
d. Navigation	538,78	0,06	0,03	9,09	9,57	5,27	5,51
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**8.958,84**	**6,04**	**0,33**	**40,12**	**144,45**	**16,43**	**13,95**
a. Commercial/Institutional	1.403,00	0,23	0,04	1,29	2,65	0,21	1,83
b. Residential	5.122,00	5,49	0,16	4,88	119,08	11,27	6,30
c. Agriculture/Forestry/Fisheries	2.433,84	0,32	0,12	33,95	22,72	4,96	5,82
5. Other *(please specify)* [1]	**119,01**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**240,00**	**12,47**	**0,00**	**1,30**	**34,10**	**11,57**	**0,00**
1. Solid Fuels	**0,00**	**3,30**	**0,00**	**0,00**	**33,25**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	3,30	0,00	0,00	33,25	0,00	0,00
Storage of solid fuel					33,25		
2. Oil and Natural Gas	**240,00**	**9,17**	**0,00**	**1,30**	**0,84**	**11,57**	**0,00**
a. Oil	0,00	0,04				7,89	
b. Natural Gas	0,00	8,45				3,31	
c. Venting and Flaring	240,00	0,68	0,00	1,30	0,84	0,37	0,00
Venting	0,00	0,00					
Flaring	240,00	0,68	0,00	1,30	0,84	0,37	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**4.881,03**	**0,11**	**0,26**	**91,96**	**8,79**	**2,65**	**54,59**
Aviation	1.785,97	0,04	0,06	7,33	1,59	0,38	0,11
Marine	3.095,07	0,07	0,19	84,63	7,20	2,26	54,47
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**4.611,45**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**697.309,69**	NCV				**51.266,29**	**10,63**	**1,86**
Liquid Fuels	319.050,67	NCV	71,14	11,47	2,65	22.697,68	3,66	0,84
Solid Fuels	254.836,51	NCV	94,98	2,79	3,00	24.205,03	0,71	0,76
Gaseous Fuels	76.099,39	NCV	56,90	7,32	1,00	4.330,05	0,56	0,08
Biomass	46.862,30	NCV	98,40	120,69	3,68 [3]	4.611,45	5,66	0,17
Other Fuels	460,82	NCV	72,76	105,63	0,67	33,53	0,05	0,00
1.A.1. Energy Industries	**329.929,57**	NCV				**26.202,33**	**1,16**	**0,87**
Liquid Fuels	43.053,04	NCV	51,69	2,17	0,96	2.225,21	0,09	0,04
Solid Fuels	236.441,01	NCV	94,98	1,84	3,00	22.457,46	0,44	0,71
Gaseous Fuels	26.707,63	NCV	56,90	10,38	1,00	1.519,66	0,28	0,03
Biomass	23.727,90	NCV	95,62	14,71	3,96 [3]	2.268,81	0,35	0,09
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	305.509,67	NCV				24.785,21	1,07	0,85
Liquid Fuels	27.765,74	NCV	47,82	1,21	0,89	1.327,74	0,03	0,02
Solid Fuels	236.441,01	NCV	94,98	1,84	3,00	22.457,46	0,44	0,71
Gaseous Fuels	17.575,03	NCV	56,90	14,28	1,00	1.000,01	0,25	0,02
Biomass	23.727,90	NCV	95,62	14,71	3,96 [3]	2.268,81	0,35	0,09
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	15.287,30	NCV				897,47	0,06	0,02
Liquid Fuels	15.287,30	NCV	58,71	3,91	1,09	897,47	0,06	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	9.132,60	NCV				519,64	0,03	0,01
Liquid Fuels	0,00	NCV	0,00	0,00	0,00			
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	9.132,60	NCV	56,90	2,88	1,00	519,64	0,03	0,01
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**80.918,36**	NCV					**5.605,10**	**0,75**	**0,17**
Liquid Fuels	36.666,30	NCV	77,54	6,60	2,21		2.843,25	0,24	0,08
Solid Fuels	15.042,90	NCV	95,00	15,00	3,00		1.429,08	0,23	0,05
Gaseous Fuels	23.423,16	NCV	56,90	4,13	1,00		1.332,78	0,10	0,02
Biomass	5.786,00	NCV	101,97	31,95	3,99	[3]	589,99	0,18	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	80.918,36	NCV					5.605,10	0,75	0,17
Liquid Fuels	36.666,30	NCV	77,54	6,60	2,21		2.843,25	0,24	0,08
Solid Fuels	15.042,90	NCV	95,00	15,00	3,00		1.429,08	0,23	0,05
Gaseous Fuels	23.423,16	NCV	56,90	4,13	1,00		1.332,78	0,10	0,02
Biomass	5.786,00	NCV	101,97	31,95	3,99	[3]	589,99	0,18	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY Denmark
Fuel Combustion Activities - Sectoral Approach 1990
(Sheet 3 of 4) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**141.079,62**	NCV					**10.381,01**	**2,69**	**0,48**
Gasoline	69.969,35	NCV	72,96	32,31	2,32		5.105,20	2,26	0,16
Diesel	70.649,45	NCV	74,20	5,32	4,53		5.242,28	0,38	0,32
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	460,82	NCV	72,76	105,63	0,67		33,53	0,05	0,00
a. Civil Aviation	2.676,62	NCV					192,83	0,01	0,01
Aviation Gasoline	113,59	NCV	73,00	21,90	2,00		8,29	0,00	0,00
Jet Kerosene	2.563,03	NCV	72,00	1,95	3,44		184,54	0,00	0,01
b. Road Transportation	127.279,54	NCV					9.351,27	2,60	0,43
Gasoline	67.292,73	NCV	73,00	33,48	2,28		4.912,37	2,25	0,15
Diesel Oil	59.973,16	NCV	74,00	5,74	4,68		4.438,01	0,34	0,28
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	13,65	NCV					0,89	0,00	0,00
LPG	13,65	NCV	65,00	24,83	5,71		0,89	0,00	0,00
c. Railways	4.029,03	NCV					298,13	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	4.029,03	NCV	74,00	4,89	2,04		298,13	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	7.094,43	NCV					538,78	0,06	0,03
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	3.559,81	NCV	78,00	1,76	4,89		277,66	0,01	0,02
Gas/Diesel Oil	3.087,45	NCV	74,00	1,95	4,52		228,47	0,01	0,01
Other Fuels *(please specify)*	447,17	NCV					32,64	0,05	0,00
Kerosene, Gasoline, LPG	447,17	NCV	73,00	108,10	0,52		32,64	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**143.733,29**	NCV				**8.958,84**	**6,04**	**0,33**
Liquid Fuels	97.063,69	NCV	73,79	7,03	2,43	7.162,73	0,68	0,24
Solid Fuels	3.352,60	NCV	95,00	15,00	3,00	318,50	0,05	0,01
Gaseous Fuels	25.968,60	NCV	56,90	7,04	1,00	1.477,61	0,18	0,03
Biomass	17.348,40	NCV	101,03	295,24	3,20 [3]	1.752,66	5,12	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Commercial/Institutional	22.532,90	NCV				1.403,00	0,23	0,04
Liquid Fuels	14.493,40	NCV	71,16	6,20	1,87	1.031,34	0,09	0,03
Solid Fuels	88,60	NCV	95,00	15,00	3,00	8,42	0,00	0,00
Gaseous Fuels	6.383,80	NCV	56,90	7,44	1,00	363,24	0,05	0,01
Biomass	1.567,10	NCV	91,23	57,13	3,01 [3]	142,96	0,09	0,00
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Residential	85.417,87	NCV				5.122,00	5,49	0,16
Liquid Fuels	55.006,77	NCV	73,87	8,60	1,97	4.063,21	0,47	0,11
Solid Fuels	746,20	NCV	95,00	15,00	3,00	70,89	0,01	0,00
Gaseous Fuels	17.362,10	NCV	56,90	5,00	1,00	987,90	0,09	0,02
Biomass	12.302,80	NCV	102,00	400,00	3,00 [3]	1.254,89	4,92	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Agriculture/Forestry/Fisheries	35.782,52	NCV				2.433,84	0,32	0,12
Liquid Fuels	27.563,52	NCV	75,03	4,32	3,64	2.068,17	0,12	0,10
Solid Fuels	2.517,80	NCV	95,00	15,00	3,00	239,19	0,04	0,01
Gaseous Fuels	2.222,70	NCV	56,90	21,78	1,00	126,47	0,05	0,00
Biomass	3.478,50	NCV	102,00	32,00	4,00 [3]	354,81	0,11	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00			
1.A.5 Other (Not elsewhere specified)[4]	**1.648,84**	NCV				**119,01**	**0,00**	**0,00**
Liquid Fuels	1.648,84	NCV	72,18	3,00	2,51	119,01	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	256.709,00	174.345,00	########		1.044,00	311.753,00	1,00	NCV	311.753,00	20,00	6.235,06		6.235,06	1,00	22.861,89
		Orimulsion	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	22,00	0,00		0,00	1,00	0,00
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		56.555,00	19.820,00	6,00	-3.780,00	40.509,00	1,00	NCV	40.509,00	18,90	765,62		765,62	1,00	2.807,27
		Jet Kerosene	TJ		22.449,00	344,00	24.798,00	1.675,00	-4.368,00	1,00	NCV	-4.368,00	19,50	-85,18		-85,18	1,00	-312,31
		Other Kerosene	TJ		1.040,00	1.011,00	0,00	-59,00	88,00	1,00	NCV	88,00	19,60	1,72		1,72	1,00	6,32
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		70.302,00	37.066,00	11.633,00	-3.285,00	24.888,00	1,00	NCV	24.888,00	20,20	502,74	0,00	502,74	1,00	1.843,37
		Residual Fuel Oil	TJ		8.839,00	44.123,00	28.543,00	-7.022,00	-56.805,00	1,00	NCV	-56.805,00	21,10	-1.198,59		-1.198,59	1,00	-4.394,81
		LPG	TJ		773,00	3.025,00		-119,00	-2.133,00	1,00	NCV	-2.133,00	17,20	-36,69	0,00	-36,69	1,00	-134,52
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		1.051,00	11.157,00		-38,00	-10.068,00	1,00	NCV	-10.068,00	20,00	-201,36	16,30	-217,66	1,00	-798,10
		Bitumen	TJ		7.932,00	399,00		49,00	7.484,00	1,00	NCV	7.484,00	22,00	164,65	189,49	-24,84	1,00	-91,07
		Lubricants	TJ		3.461,00	466,00	101,00	105,00	2.789,00	1,00	NCV	2.789,00	20,00	55,78	31,10	24,68	1,00	90,49
		Petroleum Coke	TJ		5.819,00	1.231,00		-949,00	5.537,00	1,00	NCV	5.537,00	27,50	152,27		152,27	1,00	558,31
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												319.674,00		6.356,03	236,89	6.119,14		22.436,84
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	260.316,00	1.415,00	0,00	5.408,00	253.493,00	1,00	NCV	253.493,00	25,80	6.540,12		6.540,12	1,00	23.980,44
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	129,00	0,00		20,00	109,00	1,00	NCV	109,00	27,60	3,01		3,01	1,00	11,03
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												253.602,00		6.543,13	0,00	6.543,13		23.991,47
Gaseous Fossil		Natural Gas (Dry)	TJ	115.967,00	0,00	38.855,00		1.014,00	76.098,00	1,00	NCV	76.098,00	15,30	1.164,30	0,00	1.164,30	1,00	4.269,10
Total												**649.374,00**		**14.063,46**	**236,89**	**13.826,57**		**50.697,41**
Biomass total												47.695,00		1.413,38	0,00	1.413,38		5.182,38
		Solid Biomass	TJ	46.199,00	0,00	0,00		0,00	46.199,00	1,00	NCV	46.199,00	29,90	1.381,35		1.381,35	1,00	5.064,95
		Liquid Biomass	TJ	744,00	0,00	0,00		0,00	744,00	1,00	NCV	744,00	20,00	14,88		14,88	1,00	54,56
		Gas Biomass	TJ	752,00	0,00	0,00		0,00	752,00	1,00	NCV	752,00	22,80	17,15		17,15	1,00	62,87

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

[2] If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark

1990

2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	319,67	22.436,84	319,05	22.697,68	0,20	-1,15
Solid Fuels (excluding international bunkers)	253,60	23.991,47	254,84	24.205,03	-0,48	-0,88
Gaseous Fuels	76,10	4.269,10	76,10	4.330,05	0,00	-1,41
Other [3]	3,64	314,59	0,46	33,53	690,53	838,22
Total [3]	**653,02**	**51.012,00**	**650,45**	**51.266,29**	**0,40**	**-0,50**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	1.019,00	0,80	20,00	16,30	59,78	
Lubricants	3.110,00	0,50	20,00	31,10	114,03	
Bitumen	8.613,00	1,00	22,00	189,49	694,78	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Fugitive Emissions from Solid Fuels

(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				3,30	0,00
Storage of solid fuel	9,81	0,34	0,00	3,30	

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 (kg/unit) [2]	CH_4 (kg/unit) [2]	N_2O (kg/unit) [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,04**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		7.263.000,00	0,00	0,01			0,04	
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	1.507.726	0,00	0,00				
vi. Other		Mg Crude	0	0,00	0,00				
1. B. 2. b. Natural Gas							**0,00**	**8,45**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	0	0,00	0,00				
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.000	0,00	2,22			8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**240,00**	**0,68**	**0,00**
i. Oil	*(e.g. PJ gas consumption)*	GJ	0	0,00	0,00	0,00			
ii. Gas	*(e.g. PJ gas consumption)*	GJ	4.218.005	56,90	0,16	0,00	240,00	0,68	0,00
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY

International Bunkers and Multilateral Operations

(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**40.276,93**				**3.095,07**	**0,07**	**0,19**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	11.632,67	74,00	1,69	4,68	860,82	0,02	0,05
Residual Fuel Oil	28.644,25	78,00	1,76	4,89	2.234,25	0,05	0,14
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**24.804,57**				**1.785,97**	**0,04**	**0,06**
Jet Kerosene	24.768,30	72,00	1,44	2,45	1.783,32	0,04	0,06
Gasoline	36,27	73,00	21,89	2,01	2,65	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	14,98	85,02
Aviation	9,74	90,26

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.005,50**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,81**	**0,00**	**0,00**	**0,33**
A. Mineral Products	**1.005,50**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	882,89												
2. Lime Production	122,61												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,81**	**0,00**	**0,00**	**0,33**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00							0,81			
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,33
													0,33
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,00**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00												
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				0,00	0,00	0,00	0,00		0,00				
2. Foam Blowing				0,00	0,00		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				0,00	0,00		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,00	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.								0,00	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Emissions of CO_2, CH_4 and N_2O

(Sheet 1 of 2)

Denmark

1990

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.005,50**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	1.619,98	0,55			882,89					
2. Lime Production		418,05	0,29			122,61					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		400,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		100,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1990

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS [2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		3,90	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**1,80**
C. Metal Production															**0,00**	**0,00**							**1,30**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							1,30
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,50**
1. Refrigeration and Air Conditioning Equipment																							
2. Foam Blowing																							
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers																							
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,50
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																							0,50
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**43,02**
C. Metal Production															0,00	0,00						0,00	31,07
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	11,95
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	11,95
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1990

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				1,30	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	1,30	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES Denmark

Consumption of Halocarbons and SF_6 1990

(Sheet 2 of 2) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**123,58**	**0,00**	**42,30**
A. Paint Application	**79,18**		**25,40**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,65**
D. Other *(please specify)*	44,41	0,00	14,25
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	44,41		14,25

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**0,00**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**192,86**	**33,09**	**0,00**	**0,00**	**1,08**
A. Enteric Fermentation	**150,10**				
1. Cattle	133,90				
Dairy Cattle	78,32				
Non-Dairy Cattle	55,58				
2. Buffalo					
3. Sheep	1,27				
4. Goats					
5. Camels and Llamas					
6. Horses	0,69				
7. Mules and Asses					
8. Swine	14,25				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**42,75**	**1,49**			**0,00**
1. Cattle	18,52				
Dairy Cattle	16,14				
Non-Dairy Cattle	2,38				
2. Buffalo					
3. Sheep	0,07				
4. Goats					
5. Camels and Llamas					
6. Horses	0,04				
7. Mules and Asses					
8. Swine	23,47				
9. Poultry	0,65				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,21			
12. Solid Storage and Dry Lot		1,28			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**31,60**			**1,08**
1. Direct Soil Emissions		20,03			1,08
2. Animal Production		1,27			
3. Indirect Emissions		10,30			
4. Other *(please specify)*	0,00	0,00			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

Enteric Fermentation

(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	753			104,00
Non-Dairy Cattle	1.486			37,40
2. Buffalo	0			0,00
3. Sheep	159			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	38			18,00
7. Mules and Asses	0			0,00
8. Swine	9.497			1,50
9. Poultry	31.129			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b] Indicators:		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	753							21,43
Non-Dairy Cattle	1.486							1,60
2. Buffalo	0							0,00
3. Sheep	235							0,31
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	38							1,10
7. Mules and Asses	0							0,00
8. Swine	14.935							1,57
9. Poultry	31.129							0,02

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1990

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system (kg N_2O-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	753								Anaerobic lagoon	0,000
Dairy Cattle	1.486								Liquid system	0,000
Sheep	235								Solid storage and dry lot	0,000
Swine	14.935								Other	0,000
Poultry	31.129									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Rice Cultivation

1990

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR (1)	EMISSIONS
		Harvested area (2) (10^{-9} m^2/yr)	Organic amendments added(3): type	(t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice(4)						
Total (4)		0,00				

(1) The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

(2) Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

(3) Specify dry weight or wet weight for organic amendments

(4) These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Agricultural Soils[1]

(Sheet 1 of 1)

Denmark

1990

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION Description	Value	IMPLIED EMISSION FACTORS Unit		EMISSIONS ($Gg N_2O$)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**20,03**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	400.400.000	(kg N2O-N/kg N)[2]	0,012	7,71
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	246.300.000	(kg N2O-N/kg N)[2]	0,009	3,47
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	35.700.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,70
Crop Residue	Dry production of other crops (kg dry biomass/yr)	407.700.000	(kg N2O-N/kg dry biomass)[2]	0,013	8,01
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**43.400.000**	**(kg N2O-N/kg N)[2]**	**0,019**	**1,27**
Indirect Emissions					**10,30**
Atmospheric Deposition	(kg N/yr)	80.748.900	(kg N2O-N/kg N)[2]	0,010	1,27
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	230.000.000	(kg N2O-N/kg N)[2]	0,025	9,04
Other *(please specify)*					**0,00**
Sewage sludge used as fertilizer	(kg N/yr)		(kg N2O-N/kg N)[2]	0,000	
Industrial waste used as fertilizer	(kg N/yr)		(kg N2O-N/kg N)[2]	0,000	
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1990

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE
Field Burning of Agricultural Residues
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-916,00**	**-916,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-916,00**	**-916,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-916,00	-916,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)

[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section E

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark
1990
2002 Apr 15

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Forest and Grassland Conversion

(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1990

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

Year	Climate [a]	land-use/ management system [a]	Soil type: High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**62,40**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**62,40**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	62,40					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[(1)] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	3.175,10				0,02	0,00	62,40	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

(1) Actual emissions (after recovery).

(2) CH_4 recovered and flared or utilized.

(3) Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

(a) Specify whether total or urban population is used and the rationale for doing so.

(b) See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

(c) For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)	(kg/kg DC)	(kg/kg DC)	(Gg)	(Gg)	(Gg)
Industrial Wastewater	0,00				0,00	0,00				
Domestic and Commercial Wastewater	0,00				0,00	0,00				
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**52.635,37**	**-916,00**	**278,35**	**34,96**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**271,18**	**662,77**	**170,85**	**180,98**
1. Energy	**51.506,29**		**23,10**	**1,86**							**270,38**	**662,77**	**118,16**	**180,65**
A. Fuel Combustion — Reference Approach[2]	50.697,41													
A. Fuel Combustion — Sectoral Approach[2]	51.266,29		10,63	1,86							269,08	628,67	106,59	180,65
1. Energy Industries	26.202,33		1,16	0,87							95,48	8,55	1,14	133,44
2. Manufacturing Industries and Construction	5.605,10		0,75	0,17							21,59	13,62	4,13	21,19
3. Transport	10.381,01		2,69	0,48							111,88	462,05	84,89	12,08
4. Other Sectors	8.958,84		6,04	0,33							40,12	144,45	16,43	13,95
5. Other	119,01		0,00	0,00							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	240,00		12,47	0,00							1,30	34,10	11,57	0,00
1. Solid Fuels	0,00		3,30	0,00							0,00	33,25	0,00	0,00
2. Oil and Natural Gas	240,00		9,17	0,00							1,30	0,84	11,57	0,00
2. Industrial Processes	**1.005,50**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,81**	**0,00**	**0,00**	**0,33**
A. Mineral Products	1.005,50		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,81	0,00	0,00	0,33
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,00	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					0,00	0,00	0,00	0,00	0,00	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**123,58**			**0,00**									**42,30**	
4. Agriculture	**0,00**	**0,00**	**192,86**	**33,09**							0,00	0,00	1,08	0,00
A. Enteric Fermentation			150,10											
B. Manure Management			42,75	1,49									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	(4)	(4)	0,00	31,60									1,08	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	(5) **0,00**	(5) **-916,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	(5) 0,00	(5) -916,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	9,31	
C. Abandonment of Managed Lands	(5) 0,00	(5) 0,00												
D. CO_2 Emissions and Removals from Soil	(5) 0,00	(5) 0,00												
E. Other	(5) 0,00	(5) 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**62,40**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	(6) 0,00		62,40									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	(6) 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**4.881,03**		**0,11**	**0,26**							**91,96**	**8,79**	**2,65**	**54,59**
Aviation	1.785,97		0,04	0,06							7,33	1,59	0,38	0,11
Marine	3.095,07		0,07	0,19							84,63	7,20	2,26	54,47
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**4.611,45**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**52.635,37**	**-916,00**	**278,35**	**34,96**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**271,18**	**662,77**	**170,85**	**180,98**
1. Energy		**51.506,29**		**23,10**	**1,86**							**270,38**	**662,77**	**118,16**	**180,65**
A. Fuel Combustion	Reference Approach[2]	50.697,41													
	Sectoral Approach[2]	51.266,29		10,63	1,86							269,08	628,67	106,59	180,65
B. Fugitive Emissions from Fuels		240,00		12,47	0,00							1,30	34,10	11,57	0,00
2. Industrial Processes		**1.005,50**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,81**	**0,00**	**0,00**	**0,33**
3. Solvent and Other Product Use		**123,58**			**0,00**							**0,00**	**0,00**	**42,30**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**192,86**	**33,09**							**0,00**	**0,00**	**1,08**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-916,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
6. Waste		**0,00**		**62,40**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**4.881,03**		**0,11**	**0,26**							**91,96**	**8,79**	**2,65**	**54,59**
Aviation		1.785,97		0,04	0,06							7,33	1,59	0,38	0,11
Marine		3.095,07		0,07	0,19							84,63	7,20	2,26	54,47
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**4.611,45**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**51.719,37**	**5.845,41**	**10.836,58**	**0,00**	**0,00**	**43,02**	**68.444,38**
1. Energy	**51.506,29**	**485,05**	**577,30**				**52.568,63**
A. Fuel Combustion (Sectoral Approach)	51.266,29	223,27	575,99				52.065,55
1. Energy Industries	26.202,33	24,27	270,08				26.496,68
2. Manufacturing Industries and Construction	5.605,10	15,73	53,55				5.674,38
3. Transport	10.381,01	56,39	149,65				10.587,05
4. Other Sectors	8.958,84	126,78	101,42				9.187,03
5. Other	119,01	0,10	1,28				120,40
B. Fugitive Emissions from Fuels	240,00	261,77	1,31				503,09
1. Solid Fuels	0,00	69,22	0,00				69,22
2. Oil and Natural Gas	240,00	192,56	1,31				433,87
2. Industrial Processes	**1.005,50**	**0,00**	**0,00**	**0,00**	**0,00**	**43,02**	**1.048,52**
A. Mineral Products	1.005,50	0,00	0,00				1.005,50
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	31,07	31,07
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				0,00	0,00	11,95	11,95
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**123,58**		**0,00**				**123,58**
4. Agriculture	**0,00**	**4.049,96**	**10.259,29**				**14.309,25**
A. Enteric Fermentation		3.152,14					3.152,14
B. Manure Management		897,82	461,97				1.359,79
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	9.797,32				9.797,32
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-916,00**	**0,00**	**0,00**				**-916,00**
6. Waste	**0,00**	**1.310,40**	**0,00**				1.310,40
A. Solid Waste Disposal on Land	0,00	1.310,40					1.310,40
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**4.881,03**	**2,24**	**79,12**				**4.962,40**
Aviation	1.785,97	0,77	18,81				1.805,54
Marine	3.095,07	1,47	60,31				3.156,85
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**4.611,45**						**4.611,45**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-916,00	-916,00			-916,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-916,00	-916,00	0,00	0,00	-916,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	69.360,38
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	68.444,38

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[(1)] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6																				

[(1)] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**52.128,59**	**51.719,37**	**-0,79**	**5.852,17**	**5.845,41**	**-0,12**	**11.012,89**	**10.836,58**	**-1,60**
1. Energy		**51.915,51**	**51.506,29**	**-0,79**	**491,81**	**485,05**	**-1,38**	**753,60**	**577,30**	**-23,39**
1.A.	Fuel Combustion Activities	51.675,51	51.266,29	-0,79	230,03	223,27	-2,94	752,29	575,99	-23,44
1.A.1.	Energy Industries	26.215,70	26.202,33	-0,05	22,55	24,27	7,63	268,79	270,08	0,48
1.A.2.	Manufacturing Industries and Construction	6.040,24	5.605,10	-7,20	15,42	15,73	2,03	124,24	53,55	-56,90
1.A.3.	Transport	10.355,99	10.381,01	0,24	56,74	56,39	-0,62	141,09	149,65	6,07
1.A.4.	Other Sectors	8.944,57	8.958,84	0,16	135,22	126,78	-6,24	216,92	101,42	-53,25
1.A.5.	Other	119,01	119,01	0,00	0,10	0,10	-0,12	1,25	1,28	2,76
1.B.	Fugitive Emissions from Fuels	240,00	240,00	0,00	261,77	261,77	0,00	1,31	1,31	0,00
1.B.1.	Solid fuel	0,00	0,00	0,00	69,22	69,22	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	240,00	240,00	0,00	192,56	192,56	0,00	1,31	1,31	0,00
2. Industrial Processes		**1.005,50**	**1.005,50**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.005,50	1.005,50	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**123,58**	**123,58**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**4.049,96**	**4.049,96**	**0,00**	**10.259,29**	**10.259,29**	**0,00**
4.A.	Enteric Fermentation				3.152,14	3.152,14	0,00			
4.B.	Manure Management				897,82	897,82	0,00	461,97	461,97	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	9.797,32	9.797,32	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-916,00**	**-916,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-916,00	-916,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 2 of 2)

Denmark
1990
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2			CH_4			N_2O		
	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste	**0,00**	**0,00**	**0,00**	**1.310,40**	**1.310,40**	**0,00**	**0,00**	**0,00**	**0,00**
6.A. Solid Waste Disposal on Land	0,00	0,00	0,00	1.310,40	1.310,40	0,00			
6.B. Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C. Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00			0,00			0,00
Memo Items:									
International Bunkers	**4.889,59**	**4.881,03**	**-0,17**	**2,26**	**2,24**	**-0,99**	**81,81**	**79,12**	**-3,29**
Multilateral Operations	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**4.312,34**	**4.611,45**	**6,94**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFCs			PFCs			SF_6		
	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**43,02**	**43,02**	**0,00**
2.C.3. Aluminium Production				0,00	0,00	0,00	31,07	31,07	0,00
2.E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F. Consumption of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	11,95	11,95	0,00
Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6	**0,00**	**0,00**		**0,00**	**0,00**		**40,63**	**40,63**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	69.036,67	68.444,38	-0,86
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	69.952,67	69.360,38	-0,85

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1990
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
A recalculation has been carried out based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines.
Further, several small changes of activity rates occur. The change of overall fuel consumption is limited. In general the emission factors has not been changed.
However new emission factors for stationary engine and gas turbine plants have been included and existing emission factors are used for new activities.
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1990
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1990
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1990

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☑
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☐			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☑			
	Completeness table:			☐			
	Trend table:			☐			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	-0,50	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years			☑			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1991

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**62.159,87**	**25,85**	**2,26**	**316,25**	**713,39**	**120,52**	**239,05**
A. Fuel Combustion Activities (Sectoral Approach)	**61.665,28**	**12,08**	**2,25**	**313,57**	**669,28**	**108,88**	**239,05**
1. Energy Industries	**35.155,19**	**1,67**	**1,16**	**135,11**	**10,13**	**1,38**	**188,56**
a. Public Electricity and Heat Production	33.641,31	1,58	1,13	131,14	9,71	1,29	182,39
b. Petroleum Refining	981,97	0,06	0,02	1,75	0,22	0,06	6,17
c. Manufacture of Solid Fuels and Other Energy Industries	531,91	0,03	0,01	2,22	0,20	0,02	0,00
2. Manufacturing Industries and Construction	**6.011,90**	**0,79**	**0,18**	**22,54**	**13,98**	**4,22**	**22,72**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	6.011,90	0,79	0,18	22,54	13,98	4,22	22,72
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				22,54	13,98	4,22	22,72
3. Transport	**10.973,82**	**3,06**	**0,56**	**114,83**	**488,14**	**85,99**	**13,22**
a. Civil Aviation	177,28	0,01	0,01	0,82	1,03	0,18	0,01
b. Road Transportation	9.855,48	2,97	0,50	100,32	476,65	80,20	6,15
c. Railways	302,96	0,02	0,01	2,83	0,52	0,19	0,38
d. Navigation	638,10	0,06	0,04	10,86	9,94	5,42	6,67
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**9.237,68**	**6,54**	**0,34**	**41,09**	**157,03**	**17,29**	**14,55**
a. Commercial/Institutional	1.324,27	0,24	0,04	1,23	2,67	0,21	1,61
b. Residential	5.369,91	5,98	0,17	5,20	131,26	12,04	6,98
c. Agriculture/Forestry/Fisheries	2.543,50	0,33	0,13	34,66	23,11	5,04	5,96
5. Other *(please specify)* [1]	**286,69**	**0,02**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**494,59**	**13,77**	**0,01**	**2,68**	**44,11**	**11,64**	**0,00**
1. Solid Fuels	**0,00**	**3,87**	**0,00**	**0,00**	**42,37**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	3,87	0,00	0,00	42,37	0,00	0,00
Storage of solid fuel					42,37		
2. Oil and Natural Gas	**494,59**	**9,89**	**0,01**	**2,68**	**1,74**	**11,64**	**0,00**
a. Oil	0,00	0,04				7,57	
b. Natural Gas	0,00	8,45				3,31	
c. Venting and Flaring	494,59	1,40	0,01	2,68	1,74	0,76	0,00
Venting	0,00	0,00					
Flaring	494,59	1,40	0,01	2,68	1,74	0,76	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**4.425,76**	**0,10**	**0,23**	**82,61**	**7,93**	**2,38**	**46,38**
Aviation	1.654,04	0,03	0,06	6,78	1,48	0,35	0,11
Marine	2.771,72	0,06	0,17	75,83	6,45	2,03	46,27
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**5.012,71**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**819.088,58**	NCV				**61.665,28**	**12,08**	**2,25**
Liquid Fuels	335.333,00	NCV	71,13	12,11	2,79	23.851,72	4,06	0,94
Solid Fuels	345.917,40	NCV	95,00	2,56	3,00	32.862,15	0,89	1,04
Gaseous Fuels	86.421,60	NCV	56,90	10,62	1,00	4.917,39	0,92	0,09
Biomass	50.949,10	NCV	98,39	121,07	3,68 [3]	5.012,71	6,17	0,19
Other Fuels	467,49	NCV	72,77	105,76	0,67	34,02	0,05	0,00
1.A.1. Energy Industries	**430.069,60**	NCV				**35.155,19**	**1,67**	**1,16**
Liquid Fuels	47.296,30	NCV	52,52	2,21	0,99	2.484,12	0,10	0,05
Solid Fuels	325.287,00	NCV	95,00	1,78	3,00	30.902,27	0,58	0,98
Gaseous Fuels	31.086,20	NCV	56,90	19,11	1,00	1.768,80	0,59	0,03
Biomass	26.400,10	NCV	95,70	15,06	3,95 [3]	2.526,48	0,40	0,10
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	404.231,40	NCV				33.641,31	1,58	1,13
Liquid Fuels	30.806,30	NCV	48,76	1,31	0,91	1.502,15	0,04	0,03
Solid Fuels	325.287,00	NCV	95,00	1,78	3,00	30.902,27	0,58	0,98
Gaseous Fuels	21.738,00	NCV	56,90	25,97	1,00	1.236,89	0,56	0,02
Biomass	26.400,10	NCV	95,70	15,06	3,95 [3]	2.526,48	0,40	0,10
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	16.490,00	NCV				981,97	0,06	0,02
Liquid Fuels	16.490,00	NCV	59,55	3,88	1,13	981,97	0,06	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	9.348,20	NCV				531,91	0,03	0,01
Liquid Fuels	0,00	NCV	0,00	0,00	0,00			
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	9.348,20	NCV	56,90	3,17	1,00	531,91	0,03	0,01
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**86.515,85**	NCV					**6.011,90**	**0,79**	**0,18**
Liquid Fuels	39.218,05	NCV	77,42	6,38	2,20		3.036,19	0,25	0,09
Solid Fuels	16.383,70	NCV	95,00	15,00	3,00		1.556,45	0,25	0,05
Gaseous Fuels	24.943,10	NCV	56,90	4,06	1,00		1.419,26	0,10	0,02
Biomass	5.971,00	NCV	101,97	31,95	3,99	[3]	608,86	0,19	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	86.515,85	NCV					6.011,90	0,79	0,18
Liquid Fuels	39.218,05	NCV	77,42	6,38	2,20		3.036,19	0,25	0,09
Solid Fuels	16.383,70	NCV	95,00	15,00	3,00		1.556,45	0,25	0,05
Gaseous Fuels	24.943,10	NCV	56,90	4,06	1,00		1.419,26	0,10	0,02
Biomass	5.971,00	NCV	101,97	31,95	3,99	[3]	608,86	0,19	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 3 of 4)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**149.143,38**	NCV					**10.973,82**	**3,06**	**0,56**
Gasoline	77.101,59	NCV	72,97	34,25	3,01		5.626,06	2,64	0,23
Diesel	71.574,31	NCV	74,24	5,22	4,53		5.313,74	0,37	0,32
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	467,49	NCV	72,77	105,76	0,67		34,02	0,05	0,00
a. Civil Aviation	2.460,81	NCV					177,28	0,01	0,01
Aviation Gasoline	105,33	NCV	73,00	21,90	2,00		7,69	0,00	0,00
Jet Kerosene	2.355,48	NCV	72,00	2,03	3,55		169,59	0,00	0,01
b. Road Transportation	134.192,36	NCV					9.855,48	2,97	0,50
Gasoline	74.640,78	NCV	73,00	35,28	3,00		5.448,78	2,63	0,22
Diesel Oil	59.538,37	NCV	74,00	5,69	4,67		4.405,84	0,34	0,28
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	13,21	NCV					0,86	0,00	0,00
LPG	13,21	NCV	65,00	25,29	5,68		0,86	0,00	0,00
c. Railways	4.094,38	NCV					302,96	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	4.094,38	NCV	74,00	4,87	2,04		302,96	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	8.395,84	NCV					638,10	0,06	0,04
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	4.316,74	NCV	78,00	1,76	4,89		336,71	0,01	0,02
Gas/Diesel Oil	3.624,82	NCV	74,00	1,92	4,54		268,23	0,01	0,02
Other Fuels *(please specify)*	454,28	NCV					33,16	0,05	0,00
Kerosene, Gasoline, LPG	454,28	NCV	73,00	108,10	0,52		33,16	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

Border Trade to be added

1.A.3 b. Road Transportation Gasoline	-3144						-229,54	-0,11	-0,01
1.A.3 b. Road Transportation Diesel Oil	1793						132,71	0,01	0,01

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**149.423,63**	NCV				**9.237,68**	**6,54**	**0,34**
Liquid Fuels	96.206,63	NCV	73,85	7,04	2,44	7.104,92	0,68	0,23
Solid Fuels	4.246,70	NCV	95,00	15,00	3,00	403,44	0,06	0,01
Gaseous Fuels	30.392,30	NCV	56,90	7,30	1,00	1.729,32	0,22	0,03
Biomass	18.578,00	NCV	101,05	300,37	3,19 [3]	1.877,38	5,58	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Commercial/Institutional	21.833,30	NCV				1.324,27	0,24	0,04
Liquid Fuels	12.890,60	NCV	70,52	6,10	1,85	909,04	0,08	0,02
Solid Fuels	10,70	NCV	95,00	14,95	2,99	1,02	0,00	0,00
Gaseous Fuels	7.279,60	NCV	56,90	9,55	1,00	414,21	0,07	0,01
Biomass	1.652,40	NCV	91,36	54,50	3,08 [3]	150,97	0,09	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Residential	90.366,61	NCV				5.369,91	5,98	0,17
Liquid Fuels	55.196,31	NCV	74,00	8,65	1,97	4.084,69	0,48	0,11
Solid Fuels	1.290,60	NCV	95,00	15,00	3,00	122,61	0,02	0,00
Gaseous Fuels	20.432,60	NCV	56,90	5,00	1,00	1.162,61	0,10	0,02
Biomass	13.447,10	NCV	102,00	400,00	3,00 [3]	1.371,60	5,38	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Agriculture/Forestry/Fisheries	37.223,71	NCV				2.543,50	0,33	0,13
Liquid Fuels	28.119,71	NCV	75,08	4,30	3,64	2.111,19	0,12	0,10
Solid Fuels	2.945,40	NCV	95,00	15,00	3,00	279,81	0,04	0,01
Gaseous Fuels	2.680,10	NCV	56,90	18,74	1,00	152,50	0,05	0,00
Biomass	3.478,50	NCV	102,00	32,00	4,00 [3]	354,81	0,11	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00			
1.A.5 Other (Not elsewhere specified)[4]	**3.936,12**	NCV				**286,69**	**0,02**	**0,01**
Liquid Fuels	3.936,12	NCV	72,84	3,96	3,29	286,69	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	299.352,00	216.765,00	########		1.329,00	333.143,00	1,00	NCV	333.143,00	20,00	6.662,86		6.662,86	1,00	24.430,49
		Orimulsion	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	22,00	0,00		0,00	1,00	0,00
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		47.636,00	25.848,00	2,00	-764,00	22.550,00	1,00	NCV	22.550,00	18,90	426,20		426,20	1,00	1.562,72
		Jet Kerosene	TJ		26.358,00	2.793,00	22.938,00	2.305,00	-1.678,00	1,00	NCV	-1.678,00	19,50	-32,72		-32,72	1,00	-119,98
		Other Kerosene	TJ		183,00	82,00	0,00	-281,00	382,00	1,00	NCV	382,00	19,60	7,49		7,49	1,00	27,45
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		68.950,00	46.504,00	12.590,00	204,00	9.652,00	1,00	NCV	9.652,00	20,20	194,97	0,00	194,97	1,00	714,89
		Residual Fuel Oil	TJ		16.766,00	48.253,00	23.470,00	-11.223,00	-43.734,00	1,00	NCV	-43.734,00	21,10	-922,79		-922,79	1,00	-3.383,55
		LPG	TJ		626,00	2.973,00		100,00	-2.447,00	1,00	NCV	-2.447,00	17,20	-42,09	0,00	-42,09	1,00	-154,32
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		1.005,00	7.312,00		-159,00	-6.148,00	1,00	NCV	-6.148,00	20,00	-122,96	16,48	-139,44	1,00	-511,28
		Bitumen	TJ		8.097,00	317,00		-173,00	7.953,00	1,00	NCV	7.953,00	22,00	174,97	184,69	-9,72	1,00	-35,65
		Lubricants	TJ		3.220,00	498,00	120,00	17,00	2.585,00	1,00	NCV	2.585,00	20,00	51,70	28,76	22,94	1,00	84,11
		Petroleum Coke	TJ		5.922,00	85,00		267,00	5.570,00	1,00	NCV	5.570,00	27,50	153,18		153,18	1,00	561,64
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												327.828,00		6.550,80	229,93	6.320,87		23.176,51
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	326.293,00	2.146,00	0,00	-20.167,00	344.314,00	1,00	NCV	344.314,00	25,80	8.883,30		8.883,30	1,00	32.572,10
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	80,00	24,00		-30,00	86,00	1,00	NCV	86,00	27,60	2,37		2,37	1,00	8,70
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												344.400,00		8.885,67	0,00	8.885,67		32.580,81
Gaseous Fossil		Natural Gas (Dry)	TJ	145.712,00	0,00	52.406,00		7.147,00	86.159,00	1,00	NCV	86.159,00	15,30	1.318,23	0,00	1.318,23	1,00	4.833,52
Total												**758.387,00**		**16.754,70**	**229,93**	**16.524,77**		**60.590,84**
Biomass total												51.719,00		1.532,57	0,00	1.532,57		5.619,43
		Solid Biomass	TJ	50.065,00	0,00	0,00		0,00	50.065,00	1,00	NCV	50.065,00	29,90	1.496,94		1.496,94	1,00	5.488,79
		Liquid Biomass	TJ	744,00	0,00	0,00		0,00	744,00	1,00	NCV	744,00	20,00	14,88		14,88	1,00	54,56
		Gas Biomass	TJ	910,00	0,00	0,00		0,00	910,00	1,00	NCV	910,00	22,80	20,75		20,75	1,00	76,08

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

[2] If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark

1991

2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	327,83	23.176,51	335,33	23.851,72	-2,24	-2,83
Solid Fuels (excluding international bunkers)	344,40	32.580,81	345,92	32.862,15	-0,44	-0,86
Gaseous Fuels	86,16	4.833,52	86,42	4.917,39	-0,30	-1,71
Other [3]	5,43	340,38	0,47	34,02	1.060,87	900,49
Total [3]	**763,81**	**60.931,21**	**768,14**	**61.665,28**	**-0,56**	**-1,19**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	1.030,00	0,80	20,00	16,48	60,43	
Lubricants	2.876,00	0,50	20,00	28,76	105,45	
Bitumen	8.395,00	1,00	22,00	184,69	677,20	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Fugitive Emissions from Solid Fuels

(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				3,87	0,00
Storage of solid fuel	12,50	0,31	0,00	3,87	

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 (kg/unit) [2]	CH_4 (kg/unit) [2]	N_2O (kg/unit) [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,04**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		7.798.000,00	0,00	0,01			0,04	
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	1.680.139	0,00	0,00				
vi. Other		Mg Crude	0	0,00	0,00				
1. B. 2. b. Natural Gas							**0,00**	**8,45**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	0	0,00	0,00				
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.000	0,00	2,22			8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**494,59**	**1,40**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	GJ	0	0,00	0,00	0,00			
ii. Gas	*(e.g. PJ gas consumption)*	GJ	8.692.198	56,90	0,16	0,00	494,59	1,40	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**36.180,50**				**2.771,72**	**0,06**	**0,17**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	12.589,67	74,00	1,69	4,68	931,64	0,02	0,06
Residual Fuel Oil	23.590,83	78,00	1,76	4,89	1.840,08	0,04	0,12
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**22.972,28**				**1.654,04**	**0,03**	**0,06**
Jet Kerosene	22.937,82	72,00	1,44	2,46	1.651,52	0,03	0,06
Gasoline	34,46	73,00	21,91	2,00	2,52	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	18,83	81,17
Aviation	9,68	90,32

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.178,08**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Mineral Products	**1.178,08**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.087,28												
2. Lime Production	90,80												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00										
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,00**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00												
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**0,00**	**0,00**	**0,00**	**0,00**	**0,01**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				0,00	0,00	0,00	0,00		0,00				
2. Foam Blowing				0,00	0,00		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				0,00	0,00		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,01	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.								0,01	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Emissions of CO_2, CH_4 and N_2O

(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.178,08**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	1.998,67	0,54			1.087,28					
2. Lime Production		377,72	0,24			90,80					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		0,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		0,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1991

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		0,00	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**2,60**
C. Metal Production															**0,00**	**0,00**							**1,30**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							1,30
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**1,30**
1. Refrigeration and Air Conditioning Equipment																							
2. Foam Blowing							0,00																
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers																							
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,05
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		1,25
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																							1,25
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**62,07**
C. Metal Production															0,00	0,00						0,00	31,07
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	31,00
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	31,00
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1991

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				1,30	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	1,30	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Consumption of Halocarbons and SF_6

1991

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**122,40**	**0,00**	**41,87**
A. Paint Application	**78,50**		**25,19**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,60**
D. Other *(please specify)*	43,90	0,00	14,09
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	43,90		14,09

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**0,00**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**191,63**	**32,35**	**0,00**	**0,00**	**1,07**
A. Enteric Fermentation	**148,64**				
1. Cattle	131,89				
Dairy Cattle	77,13				
Non-Dairy Cattle	54,76				
2. Buffalo					
3. Sheep	1,51				
4. Goats					
5. Camels and Llamas					
6. Horses	0,58				
7. Mules and Asses					
8. Swine	14,67				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**42,99**	**1,51**			**0,00**
1. Cattle	18,08				
Dairy Cattle	15,71				
Non-Dairy Cattle	2,37				
2. Buffalo					
3. Sheep	0,09				
4. Goats					
5. Camels and Llamas					
6. Horses	0,04				
7. Mules and Asses					
8. Swine	24,16				
9. Poultry	0,62				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,22			
12. Solid Storage and Dry Lot		1,30			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**30,84**			**1,07**
1. Direct Soil Emissions		19,40			1,07
2. Animal Production		1,26			
3. Indirect Emissions		10,06			
4. Other *(please specify)*	0,00	0,12			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

Enteric Fermentation

(Sheet 1 of 1)

Denmark

1991

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	742			104,00
Non-Dairy Cattle	1.480			37,00
2. Buffalo	0			0,00
3. Sheep	188			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	32			18,00
7. Mules and Asses	0			0,00
8. Swine	9.783			1,50
9. Poultry	19.787			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b] / Indicators:		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	742							21,19
Non-Dairy Cattle	1.480							1,60
2. Buffalo	0							0,00
3. Sheep	277							0,31
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	96							0,37
7. Mules and Asses	0							0,00
8. Swine	15.418							1,57
9. Poultry	19.787							0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1991

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system ($kg\ N_2O$-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	742								Anaerobic lagoon	0,000
Dairy Cattle	1.480								Liquid system	0,000
Sheep	277								Solid storage and dry lot	0,000
Swine	15.418								Other	0,000
Poultry	19.787									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Rice Cultivation

(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR [1]	EMISSIONS
		Harvested area [2] (10^{-9} m^2/yr)	Organic amendments added[3]: type	(t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice[4]						
Total [4]		0,00				

[1] The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

[2] Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

[3] Specify dry weight or wet weight for organic amendments

[4] These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1991

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS
	Description	Value	Unit		(Gg N_2O)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**19,40**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	394.900.000	(kg N2O-N/kg N)[2]	0,012	7,60
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	250.100.000	(kg N2O-N/kg N)[2]	0,009	3,52
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	33.600.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,66
Crop Residue	Dry production of other crops (kg dry biomass/yr)	380.400.000	(kg N2O-N/kg dry biomass)[2]	0,013	7,47
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**42.700.000**	**(kg N2O-N/kg N)[2]**	**0,019**	1,26
Indirect Emissions					**10,06**
Atmospheric Deposition	(kg N/yr)	81.665.300	(kg N2O-N/kg N)[2]	0,010	1,28
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	223.500.000	(kg N2O-N/kg N)[2]	0,025	8,78
Other *(please specify)*					**0,12**
Sewage sludge used as fertilizer	(kg N/yr)	6.100.000	(kg N2O-N/kg N)[2]	0,013	0,12
Industrial waste used as fertilizer	(kg N/yr)		(kg N2O-N/kg N)[2]	0,000	
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1991

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Field Burning of Agricultural Residues

1991

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-918,00**	**-918,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-918,00**	**-918,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-918,00	-918,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)

[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section D

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1991

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1991

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

Year	Climate [a]	land-use/ management system [a]	Soil type: High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**63,70**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**63,70**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	63,70					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

(1) Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	3.032,30				0,02	0,00	63,70	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

(1) Actual emissions (after recovery).

(2) CH_4 recovered and flared or utilized.

(3) Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

(a) Specify whether total or urban population is used and the rationale for doing so.

(b) See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

(c) For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)	(kg/kg DC)	(kg/kg DC)	(Gg)	(Gg)	(Gg)
Industrial Wastewater	0,00				0,00	0,00				
Domestic and Commercial Wastewater	0,00				0,00	0,00				
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
DC (kg BOD/1000 person/yr)		
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**63.460,35**	**-918,00**	**281,19**	**34,61**	**0,00**	**0,00**	**0,00**	**0,00**	**0,01**	**0,00**	**316,25**	**713,39**	**172,77**	**239,05**
1. Energy	**62.159,87**		**25,85**	**2,26**							**316,25**	**713,39**	**120,52**	**239,05**
A. Fuel Combustion — Reference Approach[2]	60.590,84													
A. Fuel Combustion — Sectoral Approach[2]	61.665,28		12,08	2,25							313,57	669,28	108,88	239,05
1. Energy Industries	35.155,19		1,67	1,16							135,11	10,13	1,38	188,56
2. Manufacturing Industries and Construction	6.011,90		0,79	0,18							22,54	13,98	4,22	22,72
3. Transport	10.973,82		3,06	0,56							114,83	488,14	85,99	13,22
4. Other Sectors	9.237,68		6,54	0,34							41,09	157,03	17,29	14,55
5. Other	286,69		0,02	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	494,59		13,77	0,01							2,68	44,11	11,64	0,00
1. Solid Fuels	0,00		3,87	0,00							0,00	42,37	0,00	0,00
2. Oil and Natural Gas	494,59		9,89	0,01							2,68	1,74	11,64	0,00
2. Industrial Processes	**1.178,08**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Mineral Products	1.178,08		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,00	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					0,00	0,00	0,00	0,00	0,01	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
3. Solvent and Other Product Use	**122,40**			**0,00**									**41,87**	
4. Agriculture	**0,00**	**0,00**	**191,63**	**32,35**							0,00	0,00	1,07	0,00
A. Enteric Fermentation			148,64											
B. Manure Management			42,99	1,51									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	30,84									1,07	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-918,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -918,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	9,31	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**63,70**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		63,70									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**4.425,76**		**0,10**	**0,23**							**82,61**	**7,93**	**2,38**	**46,38**
Aviation	1.654,04		0,03	0,06							6,78	1,48	0,35	0,11
Marine	2.771,72		0,06	0,17							75,83	6,45	2,03	46,27
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**5.012,71**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**63.460,35**	**-918,00**	**281,19**	**34,61**	**0,00**	**0,00**	**0,00**	**0,00**	**0,01**	**0,00**	**316,25**	**713,39**	**172,77**	**239,05**
1. Energy		**62.159,87**		**25,85**	**2,26**							**316,25**	**713,39**	**120,52**	**239,05**
A. Fuel Combustion	Reference Approach[2]	60.590,84													
	Sectoral Approach[2]	61.665,28		12,08	2,25							313,57	669,28	108,88	239,05
B. Fugitive Emissions from Fuels		494,59		13,77	0,01							2,68	44,11	11,64	0,00
2. Industrial Processes		**1.178,08**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
3. Solvent and Other Product Use		**122,40**			**0,00**							**0,00**	**0,00**	**41,87**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**191,63**	**32,35**							**0,00**	**0,00**	**1,07**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-918,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
6. Waste		**0,00**		**63,70**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**4.425,76**		**0,10**	**0,23**							**82,61**	**7,93**	**2,38**	**46,38**
Aviation		1.654,04		0,03	0,06							6,78	1,48	0,35	0,11
Marine		2.771,72		0,06	0,17							75,83	6,45	2,03	46,27
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**5.012,71**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**62.542,35**	**5.904,91**	**10.729,85**	**0,00**	**0,00**	**62,07**	**79.239,18**
1. Energy	**62.159,87**	**542,92**	**699,86**				**63.402,65**
A. Fuel Combustion (Sectoral Approach)	61.665,28	253,76	697,17				62.616,21
1. Energy Industries	35.155,19	35,15	358,95				35.549,28
2. Manufacturing Industries and Construction	6.011,90	16,55	57,09				6.085,55
3. Transport	10.973,82	64,33	172,58				11.210,74
4. Other Sectors	9.237,68	137,40	104,53				9.479,61
5. Other	286,69	0,33	4,01				291,03
B. Fugitive Emissions from Fuels	494,59	289,16	2,69				786,44
1. Solid Fuels	0,00	81,37	0,00				81,37
2. Oil and Natural Gas	494,59	207,79	2,69				705,07
2. Industrial Processes	**1.178,08**	**0,00**	**0,00**	**0,00**	**0,00**	**62,07**	**1.240,15**
A. Mineral Products	1.178,08	0,00	0,00				1.178,08
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	31,07	31,07
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				0,00	0,00	31,00	31,00
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**122,40**		**0,00**				**122,40**
4. Agriculture	**0,00**	**4.024,29**	**10.029,99**				**14.054,28**
A. Enteric Fermentation		3.121,53					3.121,53
B. Manure Management		902,76	469,10				1.371,86
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	9.560,89				9.560,89
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-918,00**	**0,00**	**0,00**				**-918,00**
6. Waste	**0,00**	**1.337,70**	**0,00**				1.337,70
A. Solid Waste Disposal on Land	0,00	1.337,70					1.337,70
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**4.425,76**	**2,03**	**71,55**				**4.499,33**
Aviation	1.654,04	0,71	17,50				1.672,26
Marine	2.771,72	1,32	54,04				2.827,08
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**5.012,71**						**5.012,71**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-918,00	-918,00			-918,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-918,00	-918,00	0,00	0,00	-918,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	80.157,18
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	79.239,18

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[(1)] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF6																				

[(1)] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1991
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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**62.749,88**	**62.542,35**	**-0,33**	**5.900,30**	**5.904,91**	**0,08**	**10.913,08**	**10.729,85**	**-1,68**
1. Energy		**62.367,40**	**62.159,87**	**-0,33**	**538,31**	**542,92**	**0,86**	**883,10**	**699,86**	**-20,75**
1.A.	Fuel Combustion Activities	61.872,81	61.665,28	-0,34	249,15	253,76	1,85	880,40	697,17	-20,81
1.A.1.	Energy Industries	35.142,39	35.155,19	0,04	27,01	35,15	30,14	356,48	358,95	0,69
1.A.2.	Manufacturing Industries and Construction	6.369,24	6.011,90	-5,61	15,98	16,55	3,57	126,89	57,09	-55,01
1.A.3.	Transport	10.873,45	10.973,82	0,92	60,41	64,33	6,49	174,45	172,58	-1,07
1.A.4.	Other Sectors	9.201,05	9.237,68	0,40	145,42	137,40	-5,51	218,93	104,53	-52,25
1.A.5.	Other	286,69	286,69	0,00	0,33	0,33	-0,38	3,65	4,01	9,85
1.B.	Fugitive Emissions from Fuels	494,59	494,59	0,00	289,16	289,16	0,00	2,69	2,69	0,00
1.B.1.	Solid fuel	0,00	0,00	0,00	81,37	81,37	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	494,59	494,59	0,00	207,79	207,79	0,00	2,69	2,69	0,00
2. Industrial Processes		**1.178,08**	**1.178,08**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.178,08	1.178,08	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**122,40**	**122,40**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**4.024,29**	**4.024,29**	**0,00**	**10.029,99**	**10.029,99**	**0,00**
4.A.	Enteric Fermentation				3.121,53	3.121,53	0,00			
4.B.	Manure Management				902,76	902,76	0,00	469,10	469,10	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	9.560,89	9.560,89	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-918,00**	**-918,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-918,00	-918,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 2 of 2)

Denmark
1991
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2			CH_4			N_2O		
	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste	**0,00**	**0,00**	**0,00**	**1.337,70**	**1.337,70**	**0,00**	**0,00**	**0,00**	**0,00**
6.A. Solid Waste Disposal on Land	0,00	0,00	0,00	1.337,70	1.337,70	0,00			
6.B. Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C. Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00			0,00			0,00
Memo Items:									
International Bunkers	**4.432,49**	**4.425,76**	**-0,15**	**2,05**	**2,03**	**-0,83**	**74,11**	**71,55**	**-3,45**
Multilateral Operations	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**4.610,14**	**5.012,71**	**8,73**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFCs			PFCs			SF_6		
	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**60,95**	**62,07**	**1,84**
2.C.3. Aluminium Production				0,00	0,00	0,00	31,07	31,07	0,00
2.E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F. Consumption of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	29,88	31,00	3,76
Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6	**0,00**	**0,00**		**0,00**	**0,00**		**327,43**	**160,13**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	79.624,21	79.239,18	-0,48
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	80.542,21	80.157,18	-0,48

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1991
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
A recalculation has been carried out based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines.
Further, several small changes of activity rates occur. The change of overall fuel consumption is limited. In general the emission factors has not been changed.
However new emission factors for stationary engine and gas turbine plants have been included and existing emission factors are used for new activities.
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1991
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1991
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1991

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

Tables:	Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Sectoral report tables:	☑	☑	☑	☑	☑	☑
Sectoral background data tables:	☑	☑	☐	☐	☑	☐
Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☑
Summary 2 (CO_2 equivalent emissions):			☑			
Summary 3 (Methods/Emission factors):			☐			
Uncertainty:	IPCC Table 8A:		☐	National information:		☐
Recalculation tables:			☑			
Completeness table:			☐			
Trend table:			☐			

CO_2	Worksheet 1-1	Percentage of difference	Explanation of differences
Comparison of CO_2 from fuel combustion:	☐	-1,19	☐

Recalculation:	Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
CO_2	☐	☐	☐	☐	☐	☐
CH_4	☐	☐	☐	☐	☐	☐
N_2O	☐	☐	☐	☐	☐	☐
HFCs, PFCs, SF_6		☐				
Explanations:	☐	☐	☐	☐	☐	☐
Recalculation tables for all recalculated years			☑			
Full CRF for the recalculated base year:			☐			

HFCs, PFCs, SF_6:	HFCs		PFCs		SF_6	
Disaggregation by species:	☑		☑			
Production of Halocarbons/SF_6:	☑		☑		☑	
Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
	☐	☐	☐	☐	☐	☐
Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1992

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**56.101,60**	**26,47**	**2,13**	**273,55**	**712,89**	**119,87**	**186,41**
A. Fuel Combustion Activities (Sectoral Approach)	**55.590,82**	**12,58**	**2,12**	**270,78**	**670,23**	**108,67**	**186,41**
1. Energy Industries	**30.126,95**	**2,12**	**1,01**	**93,54**	**9,91**	**1,35**	**144,09**
a. Public Electricity and Heat Production	28.399,77	2,01	0,97	88,98	9,44	1,26	136,77
b. Petroleum Refining	1.114,43	0,07	0,02	2,00	0,24	0,07	7,32
c. Manufacture of Solid Fuels and Other Energy Industries	612,76	0,03	0,01	2,56	0,22	0,03	0,00
2. Manufacturing Industries and Construction	**5.872,64**	**0,77**	**0,18**	**22,41**	**14,00**	**4,25**	**21,81**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	5.872,64	0,77	0,18	22,41	14,00	4,25	21,81
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				22,41	14,00	4,25	21,81
3. Transport	**11.006,50**	**3,10**	**0,61**	**113,98**	**486,57**	**85,58**	**7,75**
a. Civil Aviation	177,47	0,01	0,01	0,82	0,99	0,17	0,01
b. Road Transportation	9.926,45	3,01	0,56	100,31	475,14	79,77	4,11
c. Railways	320,28	0,02	0,01	2,99	0,53	0,20	0,26
d. Navigation	582,31	0,06	0,03	9,86	9,91	5,44	3,37
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**8.443,95**	**6,59**	**0,32**	**40,84**	**159,74**	**17,49**	**12,77**
a. Commercial/Institutional	1.202,83	0,25	0,03	1,15	2,63	0,20	1,38
b. Residential	4.771,87	6,03	0,16	4,77	133,88	12,21	5,91
c. Agriculture/Forestry/Fisheries	2.469,25	0,32	0,13	34,92	23,23	5,08	5,48
5. Other *(please specify)* [1]	**140,79**	**0,01**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**510,78**	**13,89**	**0,01**	**2,76**	**42,66**	**11,21**	**0,00**
1. Solid Fuels	**0,00**	**3,94**	**0,00**	**0,00**	**40,87**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	3,94	0,00	0,00	40,87	0,00	0,00
Storage of solid fuel					40,87		
2. Oil and Natural Gas	**510,78**	**9,94**	**0,01**	**2,76**	**1,80**	**11,21**	**0,00**
a. Oil	0,00	0,04				7,11	
b. Natural Gas	0,00	8,45				3,31	
c. Venting and Flaring	510,78	1,45	0,01	2,76	1,80	0,78	0,00
Venting	0,00	0,00					
Flaring	510,78	1,45	0,01	2,76	1,80	0,78	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**4.604,46**	**0,10**	**0,24**	**86,30**	**8,26**	**2,50**	**37,74**
Aviation	1.709,04	0,04	0,06	7,01	1,52	0,37	0,11
Marine	2.895,41	0,07	0,18	79,29	6,74	2,12	37,63
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**5.319,17**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**758.416,28**	NCV				**55.590,82**	**12,58**	**2,12**
Liquid Fuels	325.651,45	NCV	70,73	12,36	2,98	23.034,66	4,03	0,97
Solid Fuels	288.115,20	NCV	95,00	2,58	3,00	27.370,94	0,74	0,86
Gaseous Fuels	90.524,00	NCV	56,90	15,98	1,00	5.150,82	1,45	0,09
Biomass	53.652,90	NCV	99,14	117,78	3,69 [3]	5.319,17	6,32	0,20
Other Fuels	472,73	NCV	72,78	105,84	0,66	34,41	0,05	0,00
1.A.1. Energy Industries	**381.783,90**	NCV				**30.126,95**	**2,12**	**1,01**
Liquid Fuels	49.371,70	NCV	51,52	2,18	0,98	2.543,55	0,11	0,05
Solid Fuels	270.344,30	NCV	95,00	1,76	3,00	25.682,71	0,48	0,81
Gaseous Fuels	33.404,00	NCV	56,90	32,67	1,00	1.900,69	1,09	0,03
Biomass	28.663,90	NCV	97,18	15,43	3,95 [3]	2.785,58	0,44	0,11
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	352.766,60	NCV				28.399,77	2,01	0,97
Liquid Fuels	31.123,40	NCV	45,92	1,22	0,85	1.429,13	0,04	0,03
Solid Fuels	270.344,30	NCV	95,00	1,76	3,00	25.682,71	0,48	0,81
Gaseous Fuels	22.635,00	NCV	56,90	46,75	1,00	1.287,93	1,06	0,02
Biomass	28.663,90	NCV	97,18	15,43	3,95 [3]	2.785,58	0,44	0,11
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	18.248,30	NCV				1.114,43	0,07	0,02
Liquid Fuels	18.248,30	NCV	61,07	3,81	1,20	1.114,43	0,07	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	10.769,00	NCV				612,76	0,03	0,01
Liquid Fuels	0,00	NCV	0,00	0,00	0,00			
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	10.769,00	NCV	56,90	3,08	1,00	612,76	0,03	0,01
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**85.355,95**	NCV					**5.872,64**	**0,77**	**0,18**
Liquid Fuels	38.950,95	NCV	77,86	6,46	2,22		3.032,53	0,25	0,09
Solid Fuels	14.410,20	NCV	95,00	15,00	3,00		1.368,97	0,22	0,04
Gaseous Fuels	25.854,80	NCV	56,90	4,08	1,00		1.471,14	0,11	0,03
Biomass	6.140,00	NCV	101,97	31,95	4,00	[3]	626,10	0,20	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	85.355,95	NCV					5.872,64	0,77	0,18
Liquid Fuels	38.950,95	NCV	77,86	6,46	2,22		3.032,53	0,25	0,09
Solid Fuels	14.410,20	NCV	95,00	15,00	3,00		1.368,97	0,22	0,04
Gaseous Fuels	25.854,80	NCV	56,90	4,08	1,00		1.471,14	0,11	0,03
Biomass	6.140,00	NCV	101,97	31,95	4,00	[3]	626,10	0,20	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY Denmark
Fuel Combustion Activities - Sectoral Approach 1992
(Sheet 3 of 4) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**149.641,25**	NCV					**11.006,50**	**3,10**	**0,61**
Gasoline	77.659,40	NCV	72,97	34,38	3,73		5.666,77	2,67	0,29
Diesel	71.509,12	NCV	74,19	5,26	4,55		5.305,32	0,38	0,33
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	472,73	NCV	72,78	105,84	0,66		34,41	0,05	0,00
a. Civil Aviation	2.463,39	NCV					177,47	0,01	0,01
Aviation Gasoline	102,03	NCV	73,00	21,90	2,00		7,45	0,00	0,00
Jet Kerosene	2.361,35	NCV	72,00	1,81	3,65		170,02	0,00	0,01
b. Road Transportation	135.158,88	NCV					9.926,45	3,01	0,56
Gasoline	75.196,01	NCV	73,00	35,42	3,73		5.489,31	2,66	0,28
Diesel Oil	59.950,07	NCV	74,00	5,71	4,71		4.436,31	0,34	0,28
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	12,80	NCV					0,83	0,00	0,00
LPG	12,80	NCV	65,00	24,61	5,70		0,83	0,00	0,00
c. Railways	4.328,29	NCV					320,28	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	4.328,29	NCV	74,00	4,86	2,04		320,28	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	7.690,69	NCV					582,31	0,06	0,03
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	3.415,25	NCV	78,00	1,76	4,89		266,39	0,01	0,02
Gas/Diesel Oil	3.815,51	NCV	74,00	1,91	4,55		282,35	0,01	0,02
Other Fuels *(please specify)*	459,93	NCV					33,58	0,05	0,00
Kerosene, Gasoline, LPG	459,93	NCV	73,00	108,10	0,52		33,58	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**139.707,50**	NCV				**8.443,95**	**6,59**	**0,32**
Liquid Fuels	86.232,60	NCV	73,59	7,10	2,49	6.345,69	0,61	0,21
Solid Fuels	3.360,70	NCV	95,00	15,00	3,00	319,27	0,05	0,01
Gaseous Fuels	31.265,20	NCV	56,90	8,01	1,00	1.778,99	0,25	0,03
Biomass	18.849,00	NCV	101,20	301,37	3,20 [3]	1.907,49	5,68	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Commercial/Institutional	20.316,30	NCV				1.202,83	0,25	0,03
Liquid Fuels	11.106,90	NCV	69,36	6,02	1,81	770,35	0,07	0,02
Solid Fuels	95,90	NCV	95,00	14,99	3,00	9,11	0,00	0,00
Gaseous Fuels	7.440,50	NCV	56,90	12,39	1,00	423,36	0,09	0,01
Biomass	1.673,00	NCV	92,97	53,92	3,16 [3]	155,54	0,09	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Residential	82.902,00	NCV				4.771,87	6,03	0,16
Liquid Fuels	46.756,00	NCV	73,92	9,05	1,96	3.456,12	0,42	0,09
Solid Fuels	1.008,80	NCV	95,00	15,00	3,00	95,84	0,02	0,00
Gaseous Fuels	21.439,70	NCV	56,90	5,09	1,00	1.219,92	0,11	0,02
Biomass	13.697,50	NCV	102,00	400,00	3,00 [3]	1.397,15	5,48	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Agriculture/Forestry/Fisheries	36.489,20	NCV				2.469,25	0,32	0,13
Liquid Fuels	28.369,70	NCV	74,70	4,32	3,63	2.119,22	0,12	0,10
Solid Fuels	2.256,00	NCV	95,00	15,00	3,00	214,32	0,03	0,01
Gaseous Fuels	2.385,00	NCV	56,90	20,57	1,00	135,71	0,05	0,00
Biomass	3.478,50	NCV	102,00	32,00	4,00 [3]	354,81	0,11	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00			
1.A.5 Other (Not elsewhere specified)[4]	**1.927,68**	NCV				**140,79**	**0,01**	**0,01**
Liquid Fuels	1.927,68	NCV	73,04	4,29	3,54	140,79	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY Denmark

CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1) 1992

(Sheet 1 of 1) 2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	332.048,00	222.382,00	########		9.158,00	356.263,00	1,00	NCV	356.263,00	20,00	7.125,26		7.125,26	1,00	26.125,95
		Orimulsion	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	22,00	0,00		0,00	1,00	0,00
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		49.145,00	29.477,00	4,00	2.116,00	17.548,00	1,00	NCV	17.548,00	18,90	331,66		331,66	1,00	1.216,08
		Jet Kerosene	TJ		25.127,00	3.870,00	23.703,00	-1.762,00	-684,00	1,00	NCV	-684,00	19,50	-13,34		-13,34	1,00	-48,91
		Other Kerosene	TJ		42,00	7,00	0,00	72,00	-37,00	1,00	NCV	-37,00	19,60	-0,73		-0,73	1,00	-2,66
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		63.310,00	61.715,00	16.881,00	-10.134,00	-5.152,00	1,00	NCV	-5.152,00	20,20	-104,07	0,00	-104,07	1,00	-381,59
		Residual Fuel Oil	TJ		22.099,00	62.734,00	20.998,00	-11.230,00	-50.403,00	1,00	NCV	-50.403,00	21,10	-1.063,50		-1.063,50	1,00	-3.899,51
		LPG	TJ		616,00	3.020,00		-270,00	-2.134,00	1,00	NCV	-2.134,00	17,20	-36,70	0,00	-36,70	1,00	-134,58
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		918,00	5.585,00		200,00	-4.867,00	1,00	NCV	-4.867,00	20,00	-97,34	15,14	-112,48	1,00	-412,41
		Bitumen	TJ		9.025,00	374,00		27,00	8.624,00	1,00	NCV	8.624,00	22,00	189,73	190,76	-1,03	1,00	-3,79
		Lubricants	TJ		3.114,00	533,00	108,00	-137,00	2.610,00	1,00	NCV	2.610,00	20,00	52,20	28,55	23,65	1,00	86,72
		Petroleum Coke	TJ		5.965,00	322,00		119,00	5.524,00	1,00	NCV	5.524,00	27,50	151,91		151,91	1,00	557,00
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												327.292,00		6.535,07	234,45	6.300,63		23.102,29
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	308.666,00	928,00	0,00	22.289,00	285.449,00	1,00	NCV	285.449,00	25,80	7.364,58		7.364,58	1,00	27.003,48
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	68,00	0,00		-12,00	80,00	1,00	NCV	80,00	27,60	2,21		2,21	1,00	8,10
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												285.529,00		7.366,79	0,00	7.366,79		27.011,57
Gaseous Fossil		Natural Gas (Dry)	TJ	151.778,00	0,00	57.461,00		3.723,00	90.594,00	1,00	NCV	90.594,00	15,30	1.386,09	0,00	1.386,09	1,00	5.082,32
Total												**703.415,00**		**15.287,95**	**234,45**	**15.053,51**		**55.196,19**
Biomass total												54.313,00		1.610,21	0,00	1.610,21		5.904,10
		Solid Biomass	TJ	52.670,00	0,00	0,00		0,00	52.670,00	1,00	NCV	52.670,00	29,90	1.574,83		1.574,83	1,00	5.774,39
		Liquid Biomass	TJ	744,00	0,00	0,00		0,00	744,00	1,00	NCV	744,00	20,00	14,88		14,88	1,00	54,56
		Gas Biomass	TJ	899,00	0,00	0,00		0,00	899,00	1,00	NCV	899,00	22,80	20,50		20,50	1,00	75,16

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

[2] If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark

1992

2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	327,29	23.102,29	325,65	23.034,66	0,50	0,29
Solid Fuels (excluding international bunkers)	285,53	27.011,57	288,12	27.370,94	-0,90	-1,31
Gaseous Fuels	90,59	5.082,32	90,52	5.150,82	0,08	-1,33
Other [3]	6,36	361,53	0,47	34,41	1.244,84	950,73
Total [3]	**709,77**	**55.557,71**	**704,76**	**55.590,82**	**0,71**	**-0,06**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	946,00	0,80	20,00	15,14	55,50	
Lubricants	2.855,00	0,50	20,00	28,55	104,68	
Bitumen	8.671,00	1,00	22,00	190,76	699,46	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Fugitive Emissions from Solid Fuels

(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				3,94	0,00
Storage of solid fuel	12,06	0,33	0,00	3,94	

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 (kg/unit) [2]	CH_4 (kg/unit) [2]	N_2O (kg/unit) [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,04**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		8.324.000,00	0,00	0,01			0,04	
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	1.820.381	0,00	0,00				
vi. Other		Mg Crude	0	0,00	0,00				
1. B. 2. b. Natural Gas							**0,00**	**8,45**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	0	0,00	0,00				
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.000	0,00	2,22			8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**510,78**	**1,45**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	GJ	0	0,00	0,00	0,00			
ii. Gas	*(e.g. PJ gas consumption)*	GJ	8.976.770	56,90	0,16	0,00	510,78	1,45	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**37.986,32**				**2.895,41**	**0,07**	**0,18**
Gasoline	0,03	73,00	121,77	0,00	0,00	0,00	0,00
Gas/Diesel Oil	16.880,52	74,00	1,69	4,68	1.249,16	0,03	0,08
Residual Fuel Oil	21.105,77	78,00	1,76	4,89	1.646,25	0,04	0,10
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**23.736,26**				**1.709,04**	**0,04**	**0,06**
Jet Kerosene	23.702,80	72,00	1,49	2,47	1.706,60	0,04	0,06
Gasoline	33,46	73,00	21,90	2,00	2,44	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	16,84	83,16
Aviation	9,40	90,60

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.300,49**	**0,00**	**0,00**	**26,42**	**3,64**	**0,00**	**0,00**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Mineral Products	**1.300,49**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.194,48												
2. Lime Production	106,01												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00										
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,00**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00												
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**26,42**	**3,64**	**0,00**	**0,00**	**0,01**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				23,40	0,62	0,00	0,00		0,00				
2. Foam Blowing				3,02	3,02		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				0,00	0,00		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,01	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.								0,01	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1992

(Sheet 1 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.300,49**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.216,10	0,54			1.194,48					
2. Lime Production		406,43	0,26			106,01					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		0,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		0,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1992

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		0,00	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**2,48**	**3,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**3,73**
C. Metal Production															**0,00**	**0,00**							**1,30**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							1,30
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**2,48**	**3,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**2,43**
1. Refrigeration and Air Conditioning Equipment							0,48										0,00						
2. Foam Blowing							2,00	3,00															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers																							
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,11
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		2,32
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																							2,32
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**3,22**	**0,42**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**3,64**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**89,15**
C. Metal Production															0,00	0,00						0,00	31,07
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	3,22	0,42	0,00	0,00	0,00	0,00	0,00	3,64	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	58,08
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	3,22	0,42	0,00	0,00	0,00	0,00	0,00	3,64	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	58,08
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1992

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				1,30	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	1,30	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Consumption of Halocarbons and SF_6

1992

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**121,22**	**0,00**	**41,44**
A. Paint Application	**77,82**		**24,97**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,55**
D. Other *(please specify)*	43,40	0,00	13,93
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	43,40		13,93

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**0,00**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**190,38**	**30,32**	**0,00**	**0,00**	**1,05**
A. Enteric Fermentation	**146,36**				
1. Cattle	128,72				
Dairy Cattle	74,04				
Non-Dairy Cattle	54,68				
2. Buffalo					
3. Sheep	1,46				
4. Goats					
5. Camels and Llamas					
6. Horses	0,50				
7. Mules and Asses					
8. Swine	15,68				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**44,02**	**1,55**			**0,00**
1. Cattle	17,32				
Dairy Cattle	14,96				
Non-Dairy Cattle	2,36				
2. Buffalo					
3. Sheep	0,08				
4. Goats					
5. Camels and Llamas					
6. Horses	0,03				
7. Mules and Asses					
8. Swine	25,86				
9. Poultry	0,72				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,22			
12. Solid Storage and Dry Lot		1,33			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**28,77**			**1,05**
1. Direct Soil Emissions		17,54			1,05
2. Animal Production		1,26			
3. Indirect Emissions		9,83			
4. Other *(please specify)*	0,00	0,14			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

Enteric Fermentation

(Sheet 1 of 1)

Denmark

1992

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	712			104,00
Non-Dairy Cattle	1.478			37,00
2. Buffalo	0			0,00
3. Sheep	182			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	28			18,00
7. Mules and Asses	0			0,00
8. Swine	10.455			1,50
9. Poultry	35.527			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b] / Indicators:		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	712							21,01
Non-Dairy Cattle	1.478							1,60
2. Buffalo	0							0,00
3. Sheep	267							0,31
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	84							0,37
7. Mules and Asses	0							0,00
8. Swine	16.474							1,57
9. Poultry	35.527							0,02

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1992

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system ($kg\ N_2O$-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	712								Anaerobic lagoon	0,000
Dairy Cattle	1.478								Liquid system	0,000
Sheep	267								Solid storage and dry lot	0,000
Swine	16.474								Other	0,000
Poultry	35.527									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Rice Cultivation

1992

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR (1)	EMISSIONS
		Harvested area (2) (10^{-9} m^2/yr)	Organic amendments added(3): type	(t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice(4)						
Total (4)		0,00				

(1) The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

(2) Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

(3) Specify dry weight or wet weight for organic amendments

(4) These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1992

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS
	Description	Value	Unit		(Gg N_2O)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**17,54**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	369.500.000	(kg N2O-N/kg N)[2]	0,012	7,11
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	256.300.000	(kg N2O-N/kg N)[2]	0,009	3,61
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	32.200.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,63
Crop Residue	Dry production of other crops (kg dry biomass/yr)	307.700.000	(kg N2O-N/kg dry biomass)[2]	0,013	6,04
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**43.000.000**	**(kg N2O-N/kg N)[2]**	**0,019**	**1,26**
Indirect Emissions					**9,83**
Atmospheric Deposition	(kg N/yr)	82.932.900	(kg N2O-N/kg N)[2]	0,010	1,30
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	217.000.000	(kg N2O-N/kg N)[2]	0,025	8,53
Other *(please specify)*					**0,14**
Sewage sludge used as fertilizer	(kg N/yr)	7.100.000	(kg N2O-N/kg N)[2]	0,013	0,14
Industrial waste used as fertilizer	(kg N/yr)		(kg N2O-N/kg N)[2]	0,000	
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1992

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Field Burning of Agricultural Residues

1992

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-921,00**	**-921,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-921,00**	**-921,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-921,00	-921,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)
[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section D
[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark
1992
2002 Apr 15

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1992

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1992

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

	Climate [a]	land-use/ management system [a]	Soil type					
Year			High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**64,80**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**64,80**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	64,80					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[(1)] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	2.889,60				0,02	0,00	64,80	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

[1] Actual emissions (after recovery).

[2] CH_4 recovered and flared or utilized.

[3] Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

[a] Specify whether total or urban population is used and the rationale for doing so.

[b] See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

[c] For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)	(kg/kg DC)	(kg/kg DC)	(Gg)	(Gg)	(Gg)
Industrial Wastewater	0,00				0,00	0,00				
Domestic and Commercial Wastewater	0,00				0,00	0,00				
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**57.523,31**	**-921,00**	**281,65**	**32,45**	**26,42**	**3,64**	**0,00**	**0,00**	**0,01**	**0,00**	**273,55**	**712,89**	**171,68**	**186,41**
1. Energy	**56.101,60**		**26,47**	**2,13**							**273,55**	**712,89**	**119,87**	**186,41**
A. Fuel Combustion — Reference Approach[2]	55.196,19													
A. Fuel Combustion — Sectoral Approach[2]	55.590,82		12,58	2,12							270,78	670,23	108,67	186,41
1. Energy Industries	30.126,95		2,12	1,01							93,54	9,91	1,35	144,09
2. Manufacturing Industries and Construction	5.872,64		0,77	0,18							22,41	14,00	4,25	21,81
3. Transport	11.006,50		3,10	0,61							113,98	486,57	85,58	7,75
4. Other Sectors	8.443,95		6,59	0,32							40,84	159,74	17,49	12,77
5. Other	140,79		0,01	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	510,78		13,89	0,01							2,76	42,66	11,21	0,00
1. Solid Fuels	0,00		3,94	0,00							0,00	40,87	0,00	0,00
2. Oil and Natural Gas	510,78		9,94	0,01							2,76	1,80	11,21	0,00
2. Industrial Processes	**1.300,49**		**0,00**	**0,00**	**26,42**	**3,64**	**0,00**	**0,00**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Mineral Products	1.300,49		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,00	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					26,42	3,64	0,00	0,00	0,01	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**121,22**			**0,00**									**41,44**	
4. Agriculture	**0,00**	**0,00**	**190,38**	**30,32**							0,00	0,00	1,05	0,00
A. Enteric Fermentation			146,36											
B. Manure Management			44,02	1,55									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	28,77									1,05	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-921,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -921,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	9,31	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**64,80**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		64,80									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**4.604,46**		**0,10**	**0,24**							**86,30**	**8,26**	**2,50**	**37,74**
Aviation	1.709,04		0,04	0,06							7,01	1,52	0,37	0,11
Marine	2.895,41		0,07	0,18							79,29	6,74	2,12	37,63
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**5.319,17**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	$HFCs^{(1)}$		$PFCs^{(1)}$		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**57.523,31**	**-921,00**	**281,65**	**32,45**	**26,42**	**3,64**	**0,00**	**0,00**	**0,01**	**0,00**	**273,55**	**712,89**	**171,68**	**186,41**
1. Energy		**56.101,60**		**26,47**	**2,13**							**273,55**	**712,89**	**119,87**	**186,41**
A. Fuel Combustion	Reference Approach[2]	55.196,19													
	Sectoral Approach[2]	55.590,82		12,58	2,12							270,78	670,23	108,67	186,41
B. Fugitive Emissions from Fuels		510,78		13,89	0,01							2,76	42,66	11,21	0,00
2. Industrial Processes		**1.300,49**		**0,00**	**0,00**	**26,42**	**3,64**	**0,00**	**0,00**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
3. Solvent and Other Product Use		**121,22**			**0,00**							**0,00**	**0,00**	**41,44**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**190,38**	**30,32**							**0,00**	**0,00**	**1,05**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-921,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
6. Waste		**0,00**		**64,80**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**4.604,46**		**0,10**	**0,24**							**86,30**	**8,26**	**2,50**	**37,74**
Aviation		1.709,04		0,04	0,06							7,01	1,52	0,37	0,11
Marine		2.895,41		0,07	0,18							79,29	6,74	2,12	37,63
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**5.319,17**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**56.602,31**	**5.914,72**	**10.060,34**	**3,64**	**0,00**	**89,15**	**72.670,16**
1. Energy	**56.101,60**	**555,85**	**661,35**				**57.318,80**
A. Fuel Combustion (Sectoral Approach)	55.590,82	264,26	658,56				56.513,64
1. Energy Industries	30.126,95	44,45	311,88				30.483,28
2. Manufacturing Industries and Construction	5.872,64	16,15	55,80				5.944,59
3. Transport	11.006,50	65,02	190,62				11.262,14
4. Other Sectors	8.443,95	138,47	98,14				8.680,56
5. Other	140,79	0,17	2,12				143,08
B. Fugitive Emissions from Fuels	510,78	291,59	2,78				805,16
1. Solid Fuels	0,00	82,78	0,00				82,78
2. Oil and Natural Gas	510,78	208,81	2,78				722,37
2. Industrial Processes	**1.300,49**	**0,00**	**0,00**	**3,64**	**0,00**	**89,15**	**1.393,28**
A. Mineral Products	1.300,49	0,00	0,00				1.300,49
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	31,07	31,07
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				3,64	0,00	58,08	61,72
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**121,22**		**0,00**				**121,22**
4. Agriculture	**0,00**	**3.998,07**	**9.399,00**				**13.397,07**
A. Enteric Fermentation		3.073,65					3.073,65
B. Manure Management		924,42	480,73				1.405,15
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	8.918,27				8.918,27
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-921,00**	**0,00**	**0,00**				**-921,00**
6. Waste	**0,00**	**1.360,80**	**0,00**				1.360,80
A. Solid Waste Disposal on Land	0,00	1.360,80					1.360,80
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**4.604,46**	**2,13**	**74,66**				**4.681,25**
Aviation	1.709,04	0,76	18,16				1.727,96
Marine	2.895,41	1,38	56,50				2.953,29
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**5.319,17**						**5.319,17**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-921,00	-921,00			-921,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-921,00	-921,00	0,00	0,00	-921,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	73.591,16
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	72.670,16

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[(1)] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6																				

[(1)] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**57.393,90**	**56.602,31**	**-1,38**	**5.900,64**	**5.914,72**	**0,24**	**10.255,91**	**10.060,34**	**-1,91**
1. Energy		**56.893,20**	**56.101,60**	**-1,39**	**541,77**	**555,85**	**2,60**	**856,91**	**661,35**	**-22,82**
1.A.	Fuel Combustion Activities	56.382,42	55.590,82	-1,40	250,18	264,26	5,63	854,13	658,56	-22,90
1.A.1.	Energy Industries	29.777,85	30.126,95	1,17	26,05	44,45	70,61	308,22	311,88	1,19
1.A.2.	Manufacturing Industries and Construction	6.466,89	5.872,64	-9,19	15,76	16,15	2,48	125,22	55,80	-55,44
1.A.3.	Transport	10.992,74	11.006,50	0,13	61,06	65,02	6,49	202,81	190,62	-6,01
1.A.4.	Other Sectors	9.004,15	8.443,95	-6,22	147,13	138,47	-5,89	215,98	98,14	-54,56
1.A.5.	Other	140,79	140,79	0,00	0,17	0,17	-0,70	1,89	2,12	12,17
1.B.	Fugitive Emissions from Fuels	510,78	510,78	0,00	291,59	291,59	0,00	2,78	2,78	0,00
1.B.1.	Solid fuel	0,00	0,00	0,00	82,78	82,78	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	510,78	510,78	0,00	208,81	208,81	0,00	2,78	2,78	0,00
2. Industrial Processes		**1.300,49**	**1.300,49**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.300,49	1.300,49	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**121,22**	**121,22**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**3.998,07**	**3.998,07**	**0,00**	**9.399,00**	**9.399,00**	**0,00**
4.A.	Enteric Fermentation				3.073,65	3.073,65	0,00			
4.B.	Manure Management				924,42	924,42	0,00	480,73	480,73	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	8.918,27	8.918,27	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-921,00**	**-921,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-921,00	-921,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 2 of 2)

Denmark
1992
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2			CH_4			N_2O		
	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste	**0,00**	**0,00**	**0,00**	**1.360,80**	**1.360,80**	**0,00**	**0,00**	**0,00**	**0,00**
6.A. Solid Waste Disposal on Land	0,00	0,00	0,00	1.360,80	1.360,80	0,00			
6.B. Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C. Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00			0,00			0,00
Memo Items:									
International Bunkers	**4.614,20**	**4.604,46**	**-0,21**	**2,17**	**2,13**	**-1,61**	**77,46**	**74,66**	**-3,62**
Multilateral Operations	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**4.959,19**	**5.319,17**	**7,26**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFCs			PFCs			SF_6		
	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions	**3,22**	**3,64**	**13,03**	**0,00**	**0,00**	**0,00**	**88,93**	**89,15**	**0,24**
2.C.3. Aluminium Production				0,00	0,00	0,00	31,07	31,07	0,00
2.E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F. Consumption of Halocarbons and SF_6	3,22	3,64	13,03	0,00	0,00	0,00	57,86	58,08	0,37
Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6	**3,02**	**26,42**		**0,00**	**0,00**		**327,43**	**327,43**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	73.642,61	72.670,16	-1,32
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	74.563,61	73.591,16	-1,30

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1992
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
A recalculation has been carried out based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines.
Further, several small changes of activity rates occur. The change of overall fuel consumption is limited. In general the emission factors has not been changed.
However new emission factors for stationary engine and gas turbine plants have been included and existing emission factors are used for new activities.
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1992
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1992
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1992

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☑
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☐			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☑			
	Completeness table:			☐			
	Trend table:			☑			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	-0,06	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years			☑			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1993

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**58.447,19**	**28,12**	**2,25**	**274,07**	**724,74**	**118,04**	**152,62**
A. Fuel Combustion Activities (Sectoral Approach)	**58.002,29**	**13,63**	**2,25**	**271,66**	**688,12**	**106,75**	**152,61**
1. Energy Industries	**31.688,59**	**2,59**	**1,06**	**97,87**	**11,28**	**1,38**	**113,15**
a. Public Electricity and Heat Production	29.937,02	2,49	1,03	93,24	10,80	1,28	105,62
b. Petroleum Refining	1.132,17	0,07	0,02	2,03	0,25	0,07	7,53
c. Manufacture of Solid Fuels and Other Energy Industries	619,40	0,03	0,01	2,59	0,23	0,03	0,00
2. Manufacturing Industries and Construction	**5.803,92**	**0,78**	**0,18**	**22,08**	**13,87**	**4,19**	**20,81**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	5.803,92	0,78	0,18	22,08	13,87	4,19	20,81
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				22,08	13,87	4,19	20,81
3. Transport	**11.183,30**	**3,35**	**0,67**	**113,53**	**495,70**	**83,63**	**5,64**
a. Civil Aviation	167,08	0,01	0,01	0,78	0,93	0,16	0,01
b. Road Transportation	10.054,63	3,26	0,62	98,89	484,46	77,90	1,89
c. Railways	331,35	0,02	0,01	3,09	0,46	0,19	0,10
d. Navigation	630,24	0,06	0,04	10,76	9,84	5,37	3,63
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**9.089,34**	**6,89**	**0,33**	**38,18**	**167,26**	**17,55**	**13,01**
a. Commercial/Institutional	1.316,33	0,27	0,04	1,26	2,68	0,21	1,33
b. Residential	5.487,17	6,31	0,18	5,29	142,34	12,50	6,51
c. Agriculture/Forestry/Fisheries	2.285,84	0,30	0,11	31,64	22,25	4,83	5,17
5. Other *(please specify)* [1]	**237,13**	**0,01**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**444,90**	**14,49**	**0,01**	**2,41**	**36,61**	**11,29**	**0,00**
1. Solid Fuels	**0,00**	**4,74**	**0,00**	**0,00**	**35,05**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	4,74	0,00	0,00	35,05	0,00	0,00
Storage of solid fuel					35,05		
2. Oil and Natural Gas	**444,90**	**9,76**	**0,01**	**2,41**	**1,56**	**11,29**	**0,00**
a. Oil	0,00	0,04				7,29	
b. Natural Gas	0,00	8,45				3,31	
c. Venting and Flaring	444,90	1,26	0,01	2,41	1,56	0,68	0,00
Venting	0,00	0,00					
Flaring	444,90	1,26	0,01	2,41	1,56	0,68	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**5.994,25**	**0,13**	**0,33**	**124,87**	**11,54**	**3,53**	**65,74**
Aviation	1.681,80	0,04	0,06	6,89	1,51	0,37	0,11
Marine	4.312,45	0,10	0,27	117,98	10,04	3,16	65,64
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**5.566,90**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**793.739,83**	NCV				**58.002,29**	**13,63**	**2,25**
Liquid Fuels	331.982,55	NCV	70,49	12,98	3,10	23.400,32	4,31	1,03
Solid Fuels	302.081,60	NCV	95,00	2,49	3,00	28.697,75	0,75	0,91
Gaseous Fuels	103.173,35	NCV	56,90	19,03	1,00	5.870,56	1,96	0,10
Biomass	56.040,00	NCV	99,34	116,97	3,68 [3]	5.566,90	6,56	0,21
Other Fuels	462,33	NCV	72,78	105,84	0,66	33,65	0,05	0,00
1.A.1. Energy Industries	**403.282,50**	NCV				**31.688,59**	**2,59**	**1,06**
Liquid Fuels	50.955,60	NCV	50,60	2,08	0,96	2.578,31	0,11	0,05
Solid Fuels	283.530,00	NCV	95,00	1,67	3,00	26.935,35	0,47	0,85
Gaseous Fuels	38.223,80	NCV	56,90	40,76	1,00	2.174,93	1,56	0,04
Biomass	30.573,10	NCV	97,58	14,92	3,93 [3]	2.983,39	0,46	0,12
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	373.802,20	NCV				29.937,02	2,49	1,03
Liquid Fuels	32.361,10	NCV	44,69	1,09	0,83	1.446,14	0,04	0,03
Solid Fuels	283.530,00	NCV	95,00	1,67	3,00	26.935,35	0,47	0,85
Gaseous Fuels	27.338,00	NCV	56,90	55,76	1,00	1.555,53	1,52	0,03
Biomass	30.573,10	NCV	97,58	14,92	3,93 [3]	2.983,39	0,46	0,12
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	18.594,50	NCV				1.132,17	0,07	0,02
Liquid Fuels	18.594,50	NCV	60,89	3,81	1,19	1.132,17	0,07	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	10.885,80	NCV				619,40	0,03	0,01
Liquid Fuels	0,00	NCV	0,00	0,00	0,00			
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	10.885,80	NCV	56,90	3,07	1,00	619,40	0,03	0,01
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**84.955,67**	NCV					**5.803,92**	**0,78**	**0,18**
Liquid Fuels	35.275,81	NCV	77,95	6,74	2,24		2.749,91	0,24	0,08
Solid Fuels	15.392,00	NCV	95,00	15,00	3,00		1.462,24	0,23	0,05
Gaseous Fuels	27.974,85	NCV	56,90	4,08	1,00		1.591,77	0,11	0,03
Biomass	6.313,00	NCV	101,97	31,96	4,00	[3]	643,74	0,20	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	84.955,67	NCV					5.803,92	0,78	0,18
Liquid Fuels	35.275,81	NCV	77,95	6,74	2,24		2.749,91	0,24	0,08
Solid Fuels	15.392,00	NCV	95,00	15,00	3,00		1.462,24	0,23	0,05
Gaseous Fuels	27.974,85	NCV	56,90	4,08	1,00		1.591,77	0,11	0,03
Biomass	6.313,00	NCV	101,97	31,96	4,00	[3]	643,74	0,20	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY Denmark
Fuel Combustion Activities - Sectoral Approach 1993
(Sheet 3 of 4) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**152.096,66**	NCV					**11.183,30**	**3,35**	**0,67**
Gasoline	79.665,60	NCV	72,97	36,72	4,35		5.813,37	2,93	0,35
Diesel	71.968,73	NCV	74,15	5,21	4,55		5.336,29	0,38	0,33
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	462,33	NCV	72,78	105,84	0,66		33,65	0,05	0,00
a. Civil Aviation	2.319,17	NCV					167,08	0,01	0,01
Aviation Gasoline	98,35	NCV	73,00	21,90	2,00		7,18	0,00	0,00
Jet Kerosene	2.220,82	NCV	72,00	1,65	3,72		159,90	0,00	0,01
b. Road Transportation	136.920,19	NCV					10.054,63	3,26	0,62
Gasoline	77.346,43	NCV	73,00	37,75	4,37		5.646,29	2,92	0,34
Diesel Oil	59.561,18	NCV	74,00	5,70	4,72		4.407,53	0,34	0,28
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	12,59	NCV					0,82	0,00	0,00
LPG	12,59	NCV	65,00	25,11	5,64		0,82	0,00	0,00
c. Railways	4.477,76	NCV					331,35	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	4.477,76	NCV	74,00	4,76	2,04		331,35	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	8.379,53	NCV					630,24	0,06	0,04
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	2.651,29	NCV	78,00	1,76	4,89		206,80	0,00	0,01
Gas/Diesel Oil	5.278,50	NCV	74,00	1,84	4,59		390,61	0,01	0,02
Other Fuels *(please specify)*	449,74	NCV					32,83	0,05	0,00
Kerosene, Gasoline, LPG	449,74	NCV	73,00	108,10	0,52		32,83	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**150.136,75**	NCV				**9.089,34**	**6,89**	**0,33**
Liquid Fuels	90.848,55	NCV	73,59	7,18	2,40	6.685,32	0,65	0,22
Solid Fuels	3.159,60	NCV	95,00	15,00	3,00	300,16	0,05	0,01
Gaseous Fuels	36.974,70	NCV	56,90	7,87	1,00	2.103,86	0,29	0,04
Biomass	19.153,90	NCV	101,27	307,89	3,19 [3]	1.939,76	5,90	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Commercial/Institutional	22.405,30	NCV				1.316,33	0,27	0,04
Liquid Fuels	11.030,00	NCV	69,05	6,00	1,80	761,63	0,07	0,02
Solid Fuels	84,10	NCV	95,00	14,99	3,00	7,99	0,00	0,00
Gaseous Fuels	9.608,20	NCV	56,90	11,86	1,00	546,71	0,11	0,01
Biomass	1.683,00	NCV	93,72	53,65	3,20 [3]	157,73	0,09	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Residential	93.946,20	NCV				5.487,17	6,31	0,18
Liquid Fuels	53.834,20	NCV	73,93	8,73	1,97	3.980,15	0,47	0,11
Solid Fuels	947,10	NCV	95,00	15,00	3,00	89,97	0,01	0,00
Gaseous Fuels	24.904,00	NCV	56,90	5,07	1,00	1.417,04	0,13	0,02
Biomass	14.260,90	NCV	102,00	400,00	3,00 [3]	1.454,61	5,70	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Agriculture/Forestry/Fisheries	33.785,24	NCV				2.285,84	0,30	0,11
Liquid Fuels	25.984,34	NCV	74,80	4,48	3,55	1.943,53	0,12	0,09
Solid Fuels	2.128,40	NCV	95,00	15,00	3,00	202,20	0,03	0,01
Gaseous Fuels	2.462,50	NCV	56,90	20,63	1,00	140,12	0,05	0,00
Biomass	3.210,00	NCV	102,00	32,00	4,00 [3]	327,42	0,10	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00			
1.A.5 Other (Not elsewhere specified)[4]	**3.268,26**	NCV				**237,13**	**0,01**	**0,01**
Liquid Fuels	3.268,26	NCV	72,55	3,55	2,97	237,13	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	353.741,00	########	########		-5.578,00	356.590,00	1,00	NCV	356.590,00	20,00	7.131,80		7.131,80	1,00	26.149,93
		Orimulsion	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	22,00	0,00		0,00	1,00	0,00
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		52.873,00	32.835,00	8,00	-5.730,00	25.760,00	1,00	NCV	25.760,00	18,90	486,86		486,86	1,00	1.785,17
		Jet Kerosene	TJ		24.800,00	5.971,00	23.324,00	-753,00	-3.742,00	1,00	NCV	-3.742,00	19,50	-72,97		-72,97	1,00	-267,55
		Other Kerosene	TJ		87,00	0,00	0,00	-244,00	331,00	1,00	NCV	331,00	19,60	6,49		6,49	1,00	23,79
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		73.006,00	68.152,00	19.114,00	-11.694,00	-2.566,00	1,00	NCV	-2.566,00	20,20	-51,83	0,00	-51,83	1,00	-190,06
		Residual Fuel Oil	TJ		34.739,00	55.862,00	36.988,00	5.004,00	-63.115,00	1,00	NCV	-63.115,00	21,10	-1.331,73		-1.331,73	1,00	-4.883,00
		LPG	TJ		927,00	3.220,00		38,00	-2.331,00	1,00	NCV	-2.331,00	17,20	-40,09	0,00	-40,09	1,00	-147,01
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		1.036,00	6.546,00		87,00	-5.597,00	1,00	NCV	-5.597,00	20,00	-111,94	16,45	-128,39	1,00	-470,76
		Bitumen	TJ		9.039,00	243,00		-216,00	9.012,00	1,00	NCV	9.012,00	22,00	198,26	198,18	0,09	1,00	0,32
		Lubricants	TJ		3.085,00	553,00	166,00	-190,00	2.556,00	1,00	NCV	2.556,00	20,00	51,12	26,82	24,30	1,00	89,10
		Petroleum Coke	TJ		9.711,00	1.693,00		1.142,00	6.876,00	1,00	NCV	6.876,00	27,50	189,09		189,09	1,00	693,33
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												323.774,00		6.455,06	241,44	6.213,62		22.783,27
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	########	637,00	0,00	-34.570,00	298.660,00	1,00	NCV	298.660,00	25,80	7.705,43		7.705,43	1,00	28.253,24
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	86,00	30,00		-4,00	60,00	1,00	NCV	60,00	27,60	1,66		1,66	1,00	6,07
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												298.720,00		7.707,08	0,00	7.707,08		28.259,31
Gaseous Fossil		Natural Gas (Dry)	TJ	167.791,00	0,00	60.425,00		4.533,00	102.833,00	1,00	NCV	102.833,00	15,30	1.573,34	0,00	1.573,34	1,00	5.768,93
Total												**725.327,00**		**15.735,49**	**241,44**	**15.494,05**		**56.811,51**
Biomass total												56.771,00		1.681,89	0,00	1.681,89		6.166,92
		Solid Biomass	TJ	54.894,00	0,00	0,00		0,00	54.894,00	1,00	NCV	54.894,00	29,90	1.641,33		1.641,33	1,00	6.018,21
		Liquid Biomass	TJ	800,00	0,00	0,00		0,00	800,00	1,00	NCV	800,00	20,00	16,00		16,00	1,00	58,67
		Gas Biomass	TJ	1.077,00	0,00	0,00		0,00	1.077,00	1,00	NCV	1.077,00	22,80	24,56		24,56	1,00	90,04

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this colur

[2] If Anthracite is not separately available, include with Other Bituminous Coa

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	323,77	22.783,27	331,98	23.400,32	-2,47	-2,64
Solid Fuels (excluding international bunkers)	298,72	28.259,31	302,08	28.697,75	-1,11	-1,53
Gaseous Fuels	102,83	5.768,93	103,17	5.870,56	-0,33	-1,73
Other [3]	7,75	393,02	0,46	33,65	1.576,72	1.068,00
Total [3]	**733,08**	**57.204,53**	**737,70**	**58.002,29**	**-0,63**	**-1,38**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	1.028,00	0,80	20,00	16,45	60,31	
Lubricants	2.682,00	0,50	20,00	26,82	98,34	
Bitumen	9.008,00	1,00	22,00	198,18	726,65	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Denmark

Fugitive Emissions from Solid Fuels

1993

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				4,74	0,00
Storage of solid fuel	10,34	0,46	0,00	4,74	

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 (kg/unit) [2]	CH_4 (kg/unit) [2]	N_2O (kg/unit) [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,04**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		8.356.000,00	0,00	0,01			0,04	
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	1.924.772	0,00	0,00				
vi. Other		Mg Crude	0	0,00	0,00				
1. B. 2. b. Natural Gas							**0,00**	**8,45**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	0	0,00	0,00				
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.000	0,00	2,22			8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**444,90**	**1,26**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	GJ	0	0,00	0,00	0,00			
ii. Gas	*(e.g. PJ gas consumption)*	GJ	7.819.064	56,90	0,16	0,00	444,90	1,26	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**56.268,05**				**4.312,45**	**0,10**	**0,27**
Gasoline	0,13	73,00	106,54	0,00	0,01	0,00	0,00
Gas/Diesel Oil	19.114,20	74,00	1,69	4,68	1.414,45	0,03	0,09
Residual Fuel Oil	37.153,71	78,00	1,76	4,89	2.897,99	0,07	0,18
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**23.357,84**				**1.681,80**	**0,04**	**0,06**
Jet Kerosene	23.324,08	72,00	1,48	2,49	1.679,33	0,03	0,06
Gasoline	33,76	73,00	21,89	2,01	2,46	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	12,96	87,04
Aviation	9,03	90,97

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.310,99**	**0,00**	**0,00**	**408,50**	**95,66**	**0,00**	**0,00**	**0,02**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
A. Mineral Products	**1.310,99**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.205,20												
2. Lime Production	105,78												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00										
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,00**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00												
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**408,50**	**95,66**	**0,00**	**0,00**	**0,02**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				126,10	5,14	0,00	0,00		0,00				
2. Foam Blowing				282,40	90,52		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				0,00	0,00		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,01	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.								0,01	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1993

(Sheet 1 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.310,99**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.244,33	0,54			1.205,20					
2. Lime Production		385,12	0,27			105,78					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		0,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		0,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1993

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS [2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		0,00	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**70,35**	**30,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**5,63**
C. Metal Production															**0,00**	**0,00**							**2,00**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							2,00
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**70,35**	**30,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**3,64**
1. Refrigeration and Air Conditioning Equipment							3,95										0,00						
2. Foam Blowing							66,40	30,00															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers																							
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,16
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		3,48
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																							3,48
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**91,46**	**4,20**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**95,66**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**134,60**
C. Metal Production															0,00	0,00						0,00	47,70
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	91,46	4,20	0,00	0,00	0,00	0,00	0,00	95,66	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	86,90
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	91,46	4,20	0,00	0,00	0,00	0,00	0,00	95,66	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	86,90
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1993

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				2,00	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	2,00	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Consumption of Halocarbons and SF_6

1993

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**125,49**	**0,00**	**42,76**
A. Paint Application	**77,13**		**24,75**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,50**
D. Other *(please specify)*	48,36	0,00	15,52
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	48,36		15,52

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**0,00**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**194,52**	**30,60**	**0,00**	**0,00**	**1,02**
A. Enteric Fermentation	**148,06**				
1. Cattle	129,08				
Dairy Cattle	74,27				
Non-Dairy Cattle	54,81				
2. Buffalo					
3. Sheep	1,26				
4. Goats					
5. Camels and Llamas					
6. Horses	0,37				
7. Mules and Asses					
8. Swine	17,35				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**46,46**	**1,60**			**0,00**
1. Cattle	17,27				
Dairy Cattle	14,90				
Non-Dairy Cattle	2,37				
2. Buffalo					
3. Sheep	0,07				
4. Goats					
5. Camels and Llamas					
6. Horses	0,02				
7. Mules and Asses					
8. Swine	28,35				
9. Poultry	0,74				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,23			
12. Solid Storage and Dry Lot		1,37			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**29,00**			**1,02**
1. Direct Soil Emissions		17,99			1,02
2. Animal Production		1,22			
3. Indirect Emissions		9,60			
4. Other *(please specify)*	0,00	0,19			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

Enteric Fermentation

(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	714			104,00
Non-Dairy Cattle	1.481			37,00
2. Buffalo	0			0,00
3. Sheep	157			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	20			18,00
7. Mules and Asses	0			0,00
8. Swine	11.568			1,50
9. Poultry	24.121			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b] / Indicators:		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE
CH_4 Emissions from Manure Management
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	714							20,87
Non-Dairy Cattle	1.481							1,60
2. Buffalo	0							0,00
3. Sheep	231							0,31
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	61							0,37
7. Mules and Asses	0							0,00
8. Swine	18.451							1,54
9. Poultry	24.121							0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1993

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system (kg N_2O-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	714								Anaerobic lagoon	0,000
Dairy Cattle	1.481								Liquid system	0,000
Sheep	231								Solid storage and dry lot	0,000
Swine	18.451								Other	0,000
Poultry	24.121									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Rice Cultivation

1993

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR (1)	EMISSIONS
		Harvested area (2) (10^{-9} m^2/yr)	Organic amendments added(3): type	(t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice(4)						
Total (4)		0,00				

(1) The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

(2) Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

(3) Specify dry weight or wet weight for organic amendments

(4) These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1993

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION Description	Value	IMPLIED EMISSION FACTORS Unit		EMISSIONS ($Gg N_2O$)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**17,99**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	332.900.000	(kg N2O-N/kg N)[2]	0,012	6,41
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	264.600.000	(kg N2O-N/kg N)[2]	0,009	3,73
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	35.400.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,70
Crop Residue	Dry production of other crops (kg dry biomass/yr)	357.100.000	(kg N2O-N/kg dry biomass)[2]	0,013	7,01
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**41.700.000**	**(kg N2O-N/kg N)[2]**	**0,019**	**1,22**
Indirect Emissions					**9,60**
Atmospheric Deposition	(kg N/yr)	84.458.800	(kg N2O-N/kg N)[2]	0,010	1,33
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	210.500.000	(kg N2O-N/kg N)[2]	0,025	8,27
Other *(please specify)*					**0,19**
Sewage sludge used as fertilizer	(kg N/yr)	9.700.000	(kg N2O-N/kg N)[2]	0,013	0,19
Industrial waste used as fertilizer	(kg N/yr)		(kg N2O-N/kg N)[2]	0,000	
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1993

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

Field Burning of Agricultural Residues

(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-924,00**	**-924,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-924,00**	**-924,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-924,00	-924,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)

[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section D

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark
1993
2002 Apr 15

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1993

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1993

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

Year	Climate [a]	land-use/ management system [a]	Soil type: High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**64,70**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**64,70**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	64,70					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

(1) Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	2.746,80				0,02	0,00	64,70	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

(1) Actual emissions (after recovery).

(2) CH_4 recovered and flared or utilized.

(3) Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

(a) Specify whether total or urban population is used and the rationale for doing so.

(b) See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

(c) For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)	(kg/kg DC)	(kg/kg DC)	(Gg)	(Gg)	(Gg)
Industrial Wastewater	0,00				0,00	0,00				
Domestic and Commercial Wastewater	0,00				0,00	0,00				
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**59.883,67**	**-924,00**	**287,34**	**32,85**	**408,50**	**95,66**	**0,00**	**0,00**	**0,02**	**0,01**	**274,07**	**724,74**	**171,13**	**152,62**
1. Energy	**58.447,19**		**28,12**	**2,25**							**274,07**	**724,74**	**118,04**	**152,62**
A. Fuel Combustion — Reference Approach[2]	56.811,51													
A. Fuel Combustion — Sectoral Approach[2]	58.002,29		13,63	2,25							271,66	688,12	106,75	152,61
1. Energy Industries	31.688,59		2,59	1,06							97,87	11,28	1,38	113,15
2. Manufacturing Industries and Construction	5.803,92		0,78	0,18							22,08	13,87	4,19	20,81
3. Transport	11.183,30		3,35	0,67							113,53	495,70	83,63	5,64
4. Other Sectors	9.089,34		6,89	0,33							38,18	167,26	17,55	13,01
5. Other	237,13		0,01	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	444,90		14,49	0,01							2,41	36,61	11,29	0,00
1. Solid Fuels	0,00		4,74	0,00							0,00	35,05	0,00	0,00
2. Oil and Natural Gas	444,90		9,76	0,01							2,41	1,56	11,29	0,00
2. Industrial Processes	**1.310,99**		**0,00**	**0,00**	**408,50**	**95,66**	**0,00**	**0,00**	**0,02**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
A. Mineral Products	1.310,99		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,00	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					408,50	95,66	0,00	0,00	0,02	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**125,49**			**0,00**									**42,76**	
4. Agriculture	**0,00**	**0,00**	**194,52**	**30,60**							0,00	0,00	1,02	0,00
A. Enteric Fermentation			148,06											
B. Manure Management			46,46	1,60									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	29,00									1,02	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-924,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -924,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	9,31	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**64,70**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		64,70									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**5.994,25**		**0,13**	**0,33**							**124,87**	**11,54**	**3,53**	**65,74**
Aviation	1.681,80		0,04	0,06							6,89	1,51	0,37	0,11
Marine	4.312,45		0,10	0,27							117,98	10,04	3,16	65,64
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**5.566,90**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**59.883,67**	**-924,00**	**287,34**	**32,85**	**408,50**	**95,66**	**0,00**	**0,00**	**0,02**	**0,01**	**274,07**	**724,74**	**171,13**	**152,62**
1. Energy		**58.447,19**		**28,12**	**2,25**							**274,07**	**724,74**	**118,04**	**152,62**
A. Fuel Combustion	Reference Approach[2]	56.811,51													
	Sectoral Approach[2]	58.002,29		13,63	2,25							271,66	688,12	106,75	152,61
B. Fugitive Emissions from Fuels		444,90		14,49	0,01							2,41	36,61	11,29	0,00
2. Industrial Processes		**1.310,99**		**0,00**	**0,00**	**408,50**	**95,66**	**0,00**	**0,00**	**0,02**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
3. Solvent and Other Product Use		**125,49**			**0,00**							**0,00**	**0,00**	**42,76**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**194,52**	**30,60**							**0,00**	**0,00**	**1,02**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-924,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
6. Waste		**0,00**		**64,70**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**5.994,25**		**0,13**	**0,33**							**124,87**	**11,54**	**3,53**	**65,74**
Aviation		1.681,80		0,04	0,06							6,89	1,51	0,37	0,11
Marine		4.312,45		0,10	0,27							117,98	10,04	3,16	65,64
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**5.566,90**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**58.959,67**	**6.034,12**	**10.183,53**	**95,66**	**0,00**	**134,60**	**75.407,58**
1. Energy	**58.447,19**	**590,52**	**698,52**				**59.736,23**
A. Fuel Combustion (Sectoral Approach)	58.002,29	286,19	696,09				58.984,57
1. Energy Industries	31.688,59	54,47	328,03				32.071,09
2. Manufacturing Industries and Construction	5.803,92	16,47	55,29				5.875,68
3. Transport	11.183,30	70,35	208,86				11.462,51
4. Other Sectors	9.089,34	144,66	100,91				9.334,91
5. Other	237,13	0,24	3,00				240,37
B. Fugitive Emissions from Fuels	444,90	304,33	2,42				751,66
1. Solid Fuels	0,00	99,44	0,00				99,44
2. Oil and Natural Gas	444,90	204,89	2,42				652,22
2. Industrial Processes	**1.310,99**	**0,00**	**0,00**	**95,66**	**0,00**	**134,60**	**1.541,25**
A. Mineral Products	1.310,99	0,00	0,00				1.310,99
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	47,70	47,70
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				95,66	0,00	86,90	182,56
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**125,49**		**0,00**				**125,49**
4. Agriculture	**0,00**	**4.084,89**	**9.485,02**				**13.569,91**
A. Enteric Fermentation		3.109,20					3.109,20
B. Manure Management		975,70	496,29				1.471,99
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	8.988,72				8.988,72
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-924,00**	**0,00**	**0,00**				**-924,00**
6. Waste	**0,00**	**1.358,70**	**0,00**				1.358,70
A. Solid Waste Disposal on Land	0,00	1.358,70					1.358,70
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**5.994,25**	**2,79**	**102,12**				**6.099,15**
Aviation	1.681,80	0,74	18,04				1.700,58
Marine	4.312,45	2,05	84,07				4.398,58
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**5.566,90**						**5.566,90**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-924,00	-924,00			-924,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-924,00	-924,00	0,00	0,00	-924,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	76.331,58
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	75.407,58

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[(1)] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6																				

[(1)] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1993
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**59.061,09**	**58.959,67**	**-0,17**	**5.997,64**	**6.034,12**	**0,61**	**10.381,43**	**10.183,53**	**-1,91**
1. Energy		**58.548,62**	**58.447,19**	**-0,17**	**554,04**	**590,52**	**6,58**	**896,41**	**698,52**	**-22,08**
1.A.	Fuel Combustion Activities	58.103,72	58.002,29	-0,17	249,71	286,19	14,61	893,99	696,09	-22,14
1.A.1.	Energy Industries	31.267,86	31.688,59	1,35	26,38	54,47	106,49	323,68	328,03	1,34
1.A.2.	Manufacturing Industries and Construction	6.415,55	5.803,92	-9,53	16,15	16,47	2,00	124,28	55,29	-55,51
1.A.3.	Transport	11.192,37	11.183,30	-0,08	63,37	70,35	11,02	231,92	208,86	-9,94
1.A.4.	Other Sectors	8.990,82	9.089,34	1,10	143,57	144,66	0,76	211,32	100,91	-52,25
1.A.5.	Other	237,13	237,13	0,00	0,25	0,24	-0,63	2,79	3,00	7,74
1.B.	Fugitive Emissions from Fuels	444,90	444,90	0,00	304,33	304,33	0,00	2,42	2,42	0,00
1.B.1.	Solid fuel	0,00	0,00	0,00	99,44	99,44	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	444,90	444,90	0,00	204,89	204,89	0,00	2,42	2,42	0,00
2. Industrial Processes		**1.310,99**	**1.310,99**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.310,99	1.310,99	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**125,49**	**125,49**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**4.084,89**	**4.084,89**	**0,00**	**9.485,02**	**9.485,02**	**0,00**
4.A.	Enteric Fermentation				3.109,20	3.109,20	0,00			
4.B.	Manure Management				975,70	975,70	0,00	496,29	496,29	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	8.988,72	8.988,72	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-924,00**	**-924,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-924,00	-924,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA Denmark

Recalculated year: 2002 1993

(Sheet 2 of 2) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste		**0,00**	**0,00**	**0,00**	**1.358,70**	**1.358,70**	**0,00**	**0,00**	**0,00**	**0,00**
6.A.	Solid Waste Disposal on Land	0,00	0,00	0,00	1.358,70	1.358,70	0,00			
6.B.	Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C.	Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D.	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
				0,00			0,00			0,00
Memo Items:										
International Bunkers		**5.993,80**	**5.994,25**	**0,01**	**2,83**	**2,79**	**-1,37**	**104,91**	**102,12**	**-2,66**
Multilateral Operations		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**5.098,44**	**5.566,90**	**9,19**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		HFCs			PFCs			SF_6		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions		**30,20**	**95,66**	**216,74**	**0,00**	**0,00**	**0,00**	**135,01**	**134,60**	**-0,30**
2.C.3.	Aluminium Production				0,00	0,00	0,00	47,85	47,70	-0,30
2.E.	Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F.	Consumption of Halocarbons and SF_6	30,20	95,66	216,74	0,00	0,00	0,00	87,16	86,90	-0,30
	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6		**408,50**	**408,50**		**0,00**	**0,00**		**370,45**	**370,45**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	75.605,37	75.407,58	-0,26
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	76.529,37	76.331,58	-0,26

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1993
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
A recalculation has been carried out based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines.
Further, several small changes of activity rates occur. The change of overall fuel consumption is limited. In general the emission factors has not been changed.
However new emission factors for stationary engine and gas turbine plants have been included and existing emission factors are used for new activities.
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1993
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1993
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1993

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☑
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☐			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☑			
	Completeness table:			☐			
	Trend table:			☑			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	-1,38	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years			☑			
	Full CRF for the recalculated base year			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1994

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**62.417,91**	**36,64**	**2,46**	**278,56**	**707,18**	**117,61**	**156,52**
A. Fuel Combustion Activities (Sectoral Approach)	**61.965,28**	**19,67**	**2,46**	**276,19**	**665,94**	**104,40**	**151,73**
1. Energy Industries	**35.388,19**	**6,32**	**1,16**	**104,24**	**11,37**	**1,48**	**109,92**
a. Public Electricity and Heat Production	33.604,92	6,19	1,13	99,41	10,73	1,35	107,24
b. Petroleum Refining	1.080,51	0,08	0,02	1,89	0,33	0,08	2,68
c. Manufacture of Solid Fuels and Other Energy Industries	702,77	0,06	0,01	2,94	0,31	0,06	0,00
2. Manufacturing Industries and Construction	**6.300,25**	**0,87**	**0,19**	**22,65**	**16,72**	**4,25**	**22,44**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	6.300,25	0,87	0,19	22,65	16,72	4,25	22,44
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				22,65	16,72	4,25	22,44
3. Transport	**11.618,77**	**3,50**	**0,79**	**111,89**	**472,31**	**79,96**	**5,31**
a. Civil Aviation	173,49	0,01	0,01	0,83	1,10	0,19	0,01
b. Road Transportation	10.549,58	3,41	0,73	98,13	461,13	74,32	1,97
c. Railways	300,30	0,02	0,01	2,80	0,42	0,18	0,10
d. Navigation	595,39	0,06	0,04	10,13	9,66	5,28	3,24
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**8.406,55**	**8,96**	**0,30**	**37,40**	**165,54**	**18,71**	**14,06**
a. Commercial/Institutional	1.104,48	0,64	0,03	1,24	3,36	0,24	1,90
b. Residential	5.002,14	6,71	0,16	5,07	139,15	12,06	5,74
c. Agriculture/Forestry/Fisheries	2.299,93	1,61	0,11	31,09	23,03	6,41	6,42
5. Other *(please specify)* [1]	**251,52**	**0,01**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**452,63**	**16,97**	**0,01**	**2,37**	**41,24**	**13,21**	**4,79**
1. Solid Fuels	**0,00**	**5,58**	**0,00**	**0,00**	**39,70**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	5,58	0,00	0,00	39,70	0,00	0,00
Storage of solid fuel					39,70		
2. Oil and Natural Gas	**452,63**	**11,39**	**0,01**	**2,37**	**1,54**	**13,21**	**4,79**
a. Oil	0,00	0,06		0,00	0,00	8,85	4,27
b. Natural Gas	0,00	10,08				3,66	0,00
c. Venting and Flaring	452,63	1,25	0,01	2,37	1,54	0,69	0,52
Venting	0,00	0,00				0,02	0,52
Flaring	452,63	1,25	0,01	2,37	1,54	0,67	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**6.686,08**	**0,15**	**0,37**	**140,13**	**12,73**	**3,90**	**69,75**
Aviation	1.840,45	0,04	0,06	7,52	1,45	0,36	0,12
Marine	4.845,63	0,11	0,30	132,61	11,28	3,55	69,63
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**5.678,74**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**847.214,05**	NCV				**61.965,28**	**19,67**	**2,46**
Liquid Fuels	346.194,28	NCV	70,12	12,86	3,33	24.276,32	4,45	1,15
Solid Fuels	326.290,61	NCV	95,00	2,37	3,00	30.997,61	0,77	0,98
Gaseous Fuels	117.014,08	NCV	56,90	59,47	1,00	6.658,10	6,96	0,12
Biomass	57.258,30	NCV	99,18	129,86	3,63 [3]	5.678,74	7,44	0,21
Other Fuels	456,78	NCV	72,78	105,85	0,66	33,25	0,05	0,00
1.A.1. Energy Industries	**451.658,42**	NCV				**35.388,19**	**6,32**	**1,16**
Liquid Fuels	65.603,43	NCV	53,38	2,29	1,13	3.501,61	0,15	0,07
Solid Fuels	306.808,21	NCV	95,00	1,57	3,00	29.146,78	0,48	0,92
Gaseous Fuels	48.151,09	NCV	56,90	108,95	1,00	2.739,80	5,25	0,05
Biomass	31.095,70	NCV	97,41	14,32	3,92 [3]	3.028,98	0,45	0,12
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	419.515,71	NCV				33.604,92	6,19	1,13
Liquid Fuels	45.818,41	NCV	52,84	1,63	1,11	2.421,10	0,07	0,05
Solid Fuels	306.808,21	NCV	95,00	1,57	3,00	29.146,78	0,48	0,92
Gaseous Fuels	35.800,19	NCV	56,90	144,77	1,00	2.037,03	5,18	0,04
Biomass	31.088,90	NCV	97,41	14,32	3,92 [3]	3.028,41	0,45	0,12
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	19.785,02	NCV				1.080,51	0,08	0,02
Liquid Fuels	19.785,02	NCV	54,61	3,82	1,17	1.080,51	0,08	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	12.357,70	NCV				702,77	0,06	0,01
Liquid Fuels	0,00	NCV	0,00	0,00	0,00			
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	12.350,90	NCV	56,90	5,14	1,00	702,77	0,06	0,01
Biomass	6,80	NCV	83,60	5,00	1,03 [3]	0,57	0,00	0,00
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**93.803,79**	NCV					**6.300,25**	**0,87**	**0,19**
Liquid Fuels	36.716,40	NCV	77,83	6,59	2,22		2.857,64	0,24	0,08
Solid Fuels	16.326,60	NCV	95,00	15,00	3,00		1.551,03	0,24	0,05
Gaseous Fuels	33.243,99	NCV	56,90	4,44	1,00		1.891,58	0,15	0,03
Biomass	7.516,80	NCV	101,92	31,88	3,99	[3]	766,11	0,24	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	93.803,79	NCV					6.300,25	0,87	0,19
Liquid Fuels	36.716,40	NCV	77,83	6,59	2,22		2.857,64	0,24	0,08
Solid Fuels	16.326,60	NCV	95,00	15,00	3,00		1.551,03	0,24	0,05
Gaseous Fuels	33.243,99	NCV	56,90	4,44	1,00		1.891,58	0,15	0,03
Biomass	7.516,80	NCV	101,92	31,88	3,99	[3]	766,11	0,24	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY Denmark
Fuel Combustion Activities - Sectoral Approach 1994
(Sheet 3 of 4) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**158.047,00**	NCV					**11.618,77**	**3,50**	**0,79**
Gasoline	82.478,04	NCV	72,97	37,29	5,35		6.018,61	3,08	0,44
Diesel	75.112,18	NCV	74,11	5,03	4,58		5.566,91	0,38	0,34
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	456,78	NCV	72,78	105,85	0,66		33,25	0,05	0,00
a. Civil Aviation	2.407,93	NCV					173,49	0,01	0,01
Aviation Gasoline	121,34	NCV	73,00	21,90	2,00		8,86	0,00	0,00
Jet Kerosene	2.286,59	NCV	72,00	1,64	3,64		164,63	0,00	0,01
b. Road Transportation	143.645,44	NCV					10.549,58	3,41	0,73
Gasoline	80.070,11	NCV	73,00	38,33	5,41		5.845,12	3,07	0,43
Diesel Oil	63.563,05	NCV	74,00	5,43	4,73		4.703,67	0,35	0,30
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	12,28	NCV					0,80	0,00	0,00
LPG	12,28	NCV	65,00	24,67	5,70		0,80	0,00	0,00
c. Railways	4.058,12	NCV					300,30	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	4.058,12	NCV	74,00	4,76	2,04		300,30	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	7.935,51	NCV					595,39	0,06	0,04
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	2.152,59	NCV	78,00	1,76	4,89		167,90	0,00	0,01
Gas/Diesel Oil	5.338,42	NCV	74,00	1,84	4,59		395,04	0,01	0,02
Other Fuels *(please specify)*	444,50	NCV					32,45	0,05	0,00
Kerosene, Gasoline, LPG	444,50	NCV	73,00	108,10	0,52		32,45	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**140.233,29**	NCV				**8.406,55**	**8,96**	**0,30**
Liquid Fuels	82.812,69	NCV	73,42	7,17	2,42	6.080,03	0,59	0,20
Solid Fuels	3.155,80	NCV	95,00	15,00	3,00	299,80	0,05	0,01
Gaseous Fuels	35.619,00	NCV	56,90	43,93	1,00	2.026,72	1,56	0,04
Biomass	18.645,80	NCV	101,02	362,04	3,00 [3]	1.883,64	6,75	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Commercial/Institutional	19.571,40	NCV				1.104,48	0,64	0,03
Liquid Fuels	9.601,20	NCV	67,75	5,62	1,74	650,50	0,05	0,02
Solid Fuels	91,10	NCV	95,00	14,99	3,00	8,65	0,00	0,00
Gaseous Fuels	7.826,50	NCV	56,90	59,04	1,00	445,33	0,46	0,01
Biomass	2.052,60	NCV	93,23	57,59	3,05 [3]	191,36	0,12	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Residential	86.899,54	NCV				5.002,14	6,71	0,16
Liquid Fuels	47.414,04	NCV	73,86	8,94	1,96	3.501,98	0,42	0,09
Solid Fuels	757,70	NCV	95,00	15,00	3,00	71,98	0,01	0,00
Gaseous Fuels	25.099,80	NCV	56,90	32,76	1,00	1.428,18	0,82	0,03
Biomass	13.628,00	NCV	102,00	400,00	3,00 [3]	1.390,06	5,45	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Agriculture/Forestry/Fisheries	33.762,35	NCV				2.299,93	1,61	0,11
Liquid Fuels	25.797,45	NCV	74,72	4,49	3,53	1.927,55	0,12	0,09
Solid Fuels	2.307,00	NCV	95,00	15,00	3,00	219,17	0,03	0,01
Gaseous Fuels	2.692,70	NCV	56,90	104,10	1,00	153,21	0,28	0,00
Biomass	2.965,20	NCV	101,92	398,35	2,99 [3]	302,22	1,18	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00			
1.A.5 Other (Not elsewhere specified)[4]	**3.471,55**	NCV				**251,52**	**0,01**	**0,01**
Liquid Fuels	3.471,55	NCV	72,45	3,28	2,85	251,52	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	390.368,00	########	########		-3.693,00	366.433,00	1,00	NCV	366.433,00	20,00	7.328,66		7.328,66	1,00	26.871,75
		Orimulsion	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	22,00	0,00		0,00	1,00	0,00
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		60.731,00	31.718,00	6,00	2.624,00	26.383,00	1,00	NCV	26.383,00	18,90	498,64		498,64	1,00	1.828,34
		Jet Kerosene	TJ		23.518,00	4.018,00	25.550,00	-36,00	-6.014,00	1,00	NCV	-6.014,00	19,50	-117,27		-117,27	1,00	-430,00
		Other Kerosene	TJ		2.620,00	0,00	0,00	-659,00	3.279,00	1,00	NCV	3.279,00	19,60	64,27		64,27	1,00	235,65
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		84.021,00	76.712,00	24.123,00	-3.509,00	-13.305,00	1,00	NCV	-13.305,00	20,20	-268,76	0,00	-268,76	1,00	-985,46
		Residual Fuel Oil	TJ		50.522,00	56.762,00	39.024,00	97,00	-45.361,00	1,00	NCV	-45.361,00	21,10	-957,12		-957,12	1,00	-3.509,43
		LPG	TJ		683,00	3.467,00		134,00	-2.918,00	1,00	NCV	-2.918,00	17,20	-50,19	0,00	-50,19	1,00	-184,03
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		934,00	6.183,00		-247,00	-5.002,00	1,00	NCV	-5.002,00	20,00	-100,04	16,26	-116,30	1,00	-426,42
		Bitumen	TJ		8.881,00	66,00		-20,00	8.835,00	1,00	NCV	8.835,00	22,00	194,37	198,40	-4,03	1,00	-14,76
		Lubricants	TJ		3.810,00	1.140,00	213,00	43,00	2.414,00	1,00	NCV	2.414,00	20,00	48,28	26,10	22,18	1,00	81,33
		Petroleum Coke	TJ		13.055,00	500,00		3.807,00	8.748,00	1,00	NCV	8.748,00	27,50	240,57		240,57	1,00	882,09
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												343.492,00		6.881,41	240,75	6.640,65		24.349,07
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	########	1.476,00	0,00	-30.794,00	319.157,00	1,00	NCV	319.157,00	25,80	8.234,25		8.234,25	1,00	30.192,25
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	94,00	17,00		12,00	65,00	1,00	NCV	65,00	27,60	1,79		1,79	1,00	6,58
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												319.222,00		8.236,04	0,00	8.236,04		30.198,83
Gaseous Fossil		Natural Gas (Dry)	TJ	181.802,00	0,00	62.828,00		4.341,00	114.633,00	1,00	NCV	114.633,00	15,30	1.753,88	0,00	1.753,88	1,00	6.430,91
Total												**777.347,00**		**16.871,34**	**240,75**	**16.630,58**		**60.978,81**
Biomass total												56.261,00		1.670,70	0,00	1.670,70		6.125,89
		Solid Biomass	TJ	54.626,00	111,00	0,00		0,00	54.737,00	1,00	NCV	54.737,00	29,90	1.636,64		1.636,64	1,00	6.001,00
		Liquid Biomass	TJ	245,00	0,00	0,00		0,00	245,00	1,00	NCV	245,00	20,00	4,90		4,90	1,00	17,97
		Gas Biomass	TJ	1.279,00	0,00	0,00		0,00	1.279,00	1,00	NCV	1.279,00	22,80	29,16		29,16	1,00	106,92

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this colur

[2] If Anthracite is not separately available, include with Other Bituminous Coa

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	343,49	24.349,07	346,19	24.276,32	-0,78	0,30
Solid Fuels (excluding international bunkers)	319,22	30.198,83	326,29	30.997,61	-2,17	-2,58
Gaseous Fuels	114,63	6.430,91	117,01	6.658,10	-2,03	-3,41
Other [3]	8,82	412,19	0,46	33,25	1.831,86	1.139,80
Total [3]	**786,17**	**61.391,00**	**789,96**	**61.965,28**	**-0,48**	**-0,93**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	1.016,00	0,80	20,00	16,26	59,61	
Lubricants	2.610,00	0,50	20,00	26,10	95,70	
Bitumen	9.018,00	1,00	22,00	198,40	727,45	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Denmark

Fugitive Emissions from Solid Fuels

1994

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				5,58	0,00
Storage of solid fuel	11,71	0,48	0,00	5,58	

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 *(kg/unit)* [2]	CH_4 *(kg/unit)* [2]	N_2O *(kg/unit)* [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,06**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		0,00	0,00	0,00				
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	1.874.999	0,00	0,00		0,00	0,00	
vi. Other		Mg Crude	8.917.059	0,00	0,01		0,00	0,06	
1. B. 2. b. Natural Gas							**0,00**	**10,08**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	2.500.000	0,00	0,65			1,63	
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.001	0,00	2,22		0,00	8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**452,63**	**1,25**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	GJ	12.164	1.150,94	0,16	0,00	14,00	0,00	
ii. Gas	*(e.g. PJ gas consumption)*	GJ	7.708.823	56,90	0,16	0,00	438,63	1,24	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**63.360,55**				**4.845,63**	**0,11**	**0,30**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	24.122,77	74,00	1,69	4,68	1.785,09	0,04	0,11
Residual Fuel Oil	39.237,78	78,00	1,76	4,89	3.060,55	0,07	0,19
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**25.561,67**				**1.840,45**	**0,04**	**0,06**
Jet Kerosene	25.550,31	72,00	1,42	2,49	1.839,62	0,04	0,06
Gasoline	11,35	73,00	21,93	2,03	0,83	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	11,13	88,87
Aviation	8,61	91,39

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.317,77**	**0,00**	**0,00**	**772,34**	**141,15**	**3,50**	**0,13**	**0,02**	**0,01**	**0,60**	**0,00**	**0,59**	**0,22**
A. Mineral Products	**1.317,77**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.198,57												
2. Lime Production	119,20												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,60**	**0,00**	**0,00**	**0,22**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00							0,60			
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,22
													0,22
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,59**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00											0,59	
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**772,34**	**141,15**	**3,50**	**0,13**	**0,02**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				448,70	21,45	3,50	0,13		0,00				
2. Foam Blowing				323,64	119,70		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				0,00	0,00		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,02	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.								0,02	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1994

(Sheet 1 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.317,77**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.242,41	0,53			1.198,57					
2. Lime Production		209,93	0,57			119,20					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		400,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		100,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Emissions of CO_2, CH_4 and N_2O

(Sheet 2 of 2)

Denmark

1994

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		672,56	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		0,00	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,49**	**0,00**	**101,24**	**46,00**	**0,00**	**0,45**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,02**	**0,00**	**0,00**	**0,00**	**0,00**		**5,11**
C. Metal Production															**0,00**	**0,00**							**1,90**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							1,90
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**0,00**	**0,00**	**0,00**	**0,49**	**0,00**	**101,24**	**46,00**	**0,00**	**0,45**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,02**	**0,00**	**0,00**	**0,00**	**0,00**		**3,21**
1. Refrigeration and Air Conditioning Equipment					0,49		14,12			0,45							0,02						
2. Foam Blowing							87,12	46,00															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers																							
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,14
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		3,07
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																							3,07
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

	GWP values used	11700	650	150	1300	2800	1000	1300	140	300	3800	2900	6300	560		6500	9200	7000	7000	8700	7500	7400		23900
	Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**0,00**	**0,00**	**0,00**	**1,37**	**0,00**	**131,61**	**6,44**	**0,00**	**1,73**	**0,00**	**0,00**	**0,00**	**141,15**	**0,00**	**0,00**	**0,13**	**0,00**	**0,00**	**0,00**	**0,00**	**0,13**	**122,06**
C.	Metal Production															0,00	0,00						0,00	45,41
E.	Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a).	Consumption of Halocarbons and SF_6	0,00	0,00	0,00	0,00	1,37	0,00	131,61	6,44	0,00	1,73	0,00	0,00	0,00	141,15	0,00	0,00	0,13	0,00	0,00	0,00	0,00	0,13	76,65
G.	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	1,37	0,00	131,61	6,44	0,00	1,73	0,00	0,00	0,00	141,15	0,00	0,00	0,13	0,00	0,00	0,00	0,00	0,13	76,65
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1994

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				1,90	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	1,90	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Consumption of Halocarbons and SF_6

1994

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**118,87**	**0,00**	**40,59**
A. Paint Application	**76,48**		**24,54**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,45**
D. Other *(please specify)*	42,40	0,00	13,60
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	42,40		13,60

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**1,97**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**186,90**	**29,68**	**0,00**	**0,00**	**1,14**
A. Enteric Fermentation	**142,63**				
1. Cattle	124,75				
Dairy Cattle	72,75				
Non-Dairy Cattle	52,00				
2. Buffalo					
3. Sheep	1,16				
4. Goats					
5. Camels and Llamas					
6. Horses	0,33				
7. Mules and Asses					
8. Swine	16,38				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**44,28**	**1,60**			**0,00**
1. Cattle	16,59				
Dairy Cattle	14,34				
Non-Dairy Cattle	2,25				
2. Buffalo					
3. Sheep	0,07				
4. Goats					
5. Camels and Llamas					
6. Horses	0,02				
7. Mules and Asses					
8. Swine	26,80				
9. Poultry	0,80				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,23			
12. Solid Storage and Dry Lot		1,37			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**28,08**			**1,14**
1. Direct Soil Emissions		17,49			1,14
2. Animal Production		1,17			
3. Indirect Emissions		9,33			
4. Other *(please specify)*	0,00	0,09			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

Enteric Fermentation

(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	700			104,00
Non-Dairy Cattle	1.405			37,00
2. Buffalo	0			0,00
3. Sheep	145			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	18			18,00
7. Mules and Asses	0			0,00
8. Swine	10.923			1,50
9. Poultry	25.148			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b]		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Indicators:					
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	700							20,50
Non-Dairy Cattle	1.405							1,60
2. Buffalo	0							0,00
3. Sheep	212							0,32
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	55							0,37
7. Mules and Asses	0							0,00
8. Swine	17.291							1,55
9. Poultry	25.148							0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1994

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system ($kg\ N_2O$-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	700								Anaerobic lagoon	0,000
Dairy Cattle	1.405								Liquid system	0,000
Sheep	212								Solid storage and dry lot	0,000
Swine	17.291								Other	0,000
Poultry	25.148									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Rice Cultivation

1994

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR (1)	EMISSIONS
		Harvested area (2) (10^{-9} m^2/yr)	Organic amendments added(3): type	(t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice(4)						
Total (4)		0,00				

(1) The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

(2) Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

(3) Specify dry weight or wet weight for organic amendments

(4) These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1994

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS
	Description	Value	Unit		(Gg N_2O)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**17,49**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	326.200.000	(kg N2O-N/kg N)[2]	0,012	6,28
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	263.700.000	(kg N2O-N/kg N)[2]	0,009	3,71
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	32.700.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,64
Crop Residue	Dry production of other crops (kg dry biomass/yr)	341.400.000	(kg N2O-N/kg dry biomass)[2]	0,013	6,71
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**40.100.000**	**(kg N2O-N/kg N)[2]**	**0,019**	**1,17**
Indirect Emissions					**9,33**
Atmospheric Deposition	(kg N/yr)	83.958.100	(kg N2O-N/kg N)[2]	0,010	1,32
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	204.000.000	(kg N2O-N/kg N)[2]	0,025	8,01
Other *(please specify)*					**0,09**
Sewage sludge used as fertilizer	(kg N/yr)	4.600.000	(kg N2O-N/kg N)[2]	0,013	0,09
Industrial waste used as fertilizer	(kg N/yr)		(kg N2O-N/kg N)[2]	0,000	
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1994

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

Field Burning of Agricultural Residues

(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-928,00**	**-928,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-928,00**	**-928,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-928,00	-928,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)

[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section D

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark
1994
2002 Apr 15

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1994

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1994

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	Annual loss rate (Mg C/ha/yr)	Carbon emissions from organic soils (Mg C/yr)
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	Carbon conversion factor	Carbon emissions from liming (Mg C)
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

Year	Climate [a]	land-use/ management system [a]	Soil type: High activity soils (percent distribution (%))	Soil type: Low activity soils (percent distribution (%))	Soil type: Sandy (percent distribution (%))	Soil type: Volcanic (percent distribution (%))	Soil type: Wetland (Aquic) (percent distribution (%))	Soil type: Organic soil (percent distribution (%))
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**65,50**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**65,50**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	65,50					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

(1) Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	2.604,00				0,03	0,00	65,50	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

(1) Actual emissions (after recovery).

(2) CH_4 recovered and flared or utilized.

(3) Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

(a) Specify whether total or urban population is used and the rationale for doing so.

(b) See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

(c) For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)		(kg/kg DC)	(Gg)		(Gg)
Industrial Wastewater	999.998,00				0,00	0,00		0,00		
Domestic and Commercial Wastewater	999.998,00				0,00	0,00		0,00		
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**63.854,55**	**-928,00**	**289,04**	**32,14**	**772,34**	**141,15**	**3,50**	**0,13**	**0,02**	**0,01**	**279,16**	**707,18**	**169,24**	**156,73**
1. Energy	**62.417,91**		**36,64**	**2,46**							**278,56**	**707,18**	**117,61**	**156,52**
A. Fuel Combustion — Reference Approach[2]	60.978,81													
A. Fuel Combustion — Sectoral Approach[2]	61.965,28		19,67	2,46							276,19	665,94	104,40	151,73
1. Energy Industries	35.388,19		6,32	1,16							104,24	11,37	1,48	109,92
2. Manufacturing Industries and Construction	6.300,25		0,87	0,19							22,65	16,72	4,25	22,44
3. Transport	11.618,77		3,50	0,79							111,89	472,31	79,96	5,31
4. Other Sectors	8.406,55		8,96	0,30							37,40	165,54	18,71	14,06
5. Other	251,52		0,01	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	452,63		16,97	0,01							2,37	41,24	13,21	4,79
1. Solid Fuels	0,00		5,58	0,00							0,00	39,70	0,00	0,00
2. Oil and Natural Gas	452,63		11,39	0,01							2,37	1,54	13,21	4,79
2. Industrial Processes	**1.317,77**		**0,00**	**0,00**	**772,34**	**141,15**	**3,50**	**0,13**	**0,02**	**0,01**	**0,60**	**0,00**	**0,59**	**0,22**
A. Mineral Products	1.317,77		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,60	0,00	0,00	0,22
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,59	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					772,34	141,15	3,50	0,13	0,02	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**118,87**			**0,00**									**40,59**	
4. Agriculture	**0,00**	**0,00**	**186,90**	**29,68**							0,00	0,00	1,14	0,00
A. Enteric Fermentation			142,63											
B. Manure Management			44,28	1,60									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	28,08									1,14	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-928,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -928,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	9,31	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**65,50**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		65,50									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**6.686,08**		**0,15**	**0,37**							**140,13**	**12,73**	**3,90**	**69,75**
Aviation	1.840,45		0,04	0,06							7,52	1,45	0,36	0,12
Marine	4.845,63		0,11	0,30							132,61	11,28	3,55	69,63
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**5.678,74**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**63.854,55**	**-928,00**	**289,04**	**32,14**	**772,34**	**141,15**	**3,50**	**0,13**	**0,02**	**0,01**	**279,16**	**707,18**	**169,24**	**156,73**
1. Energy		**62.417,91**		**36,64**	**2,46**							**278,56**	**707,18**	**117,61**	**156,52**
A. Fuel Combustion	Reference Approach[2]	60.978,81													
	Sectoral Approach[2]	61.965,28		19,67	2,46							276,19	665,94	104,40	151,73
B. Fugitive Emissions from Fuels		452,63		16,97	0,01							2,37	41,24	13,21	4,79
2. Industrial Processes		**1.317,77**		**0,00**	**0,00**	**772,34**	**141,15**	**3,50**	**0,13**	**0,02**	**0,01**	**0,60**	**0,00**	**0,59**	**0,22**
3. Solvent and Other Product Use		**118,87**			**0,00**							**0,00**	**0,00**	**40,59**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**186,90**	**29,68**							**0,00**	**0,00**	**1,14**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-928,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,31**	**0,00**
6. Waste		**0,00**		**65,50**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**6.686,08**		**0,15**	**0,37**							**140,13**	**12,73**	**3,90**	**69,75**
Aviation		1.840,45		0,04	0,06							7,52	1,45	0,36	0,12
Marine		4.845,63		0,11	0,30							132,61	11,28	3,55	69,63
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**5.678,74**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**62.926,55**	**6.069,86**	**9.963,89**	**141,15**	**0,13**	**122,06**	**79.223,64**
1. Energy	**62.417,91**	**769,36**	**763,67**				**63.950,94**
A. Fuel Combustion (Sectoral Approach)	61.965,28	413,03	761,28				63.139,59
1. Energy Industries	35.388,19	132,82	361,03				35.882,03
2. Manufacturing Industries and Construction	6.300,25	18,36	60,03				6.378,64
3. Transport	11.618,77	73,53	243,58				11.935,88
4. Other Sectors	8.406,55	188,08	93,58				8.688,22
5. Other	251,52	0,24	3,07				254,83
B. Fugitive Emissions from Fuels	452,63	356,33	2,39				811,35
1. Solid Fuels	0,00	117,18	0,00				117,18
2. Oil and Natural Gas	452,63	239,15	2,39				694,17
2. Industrial Processes	**1.317,77**	**0,00**	**0,00**	**141,15**	**0,13**	**122,06**	**1.581,10**
A. Mineral Products	1.317,77	0,00	0,00				1.317,77
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	45,41	45,41
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				141,15	0,13	76,65	217,92
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**118,87**		**0,00**				**118,87**
4. Agriculture	**0,00**	**3.925,00**	**9.200,22**				**13.125,22**
A. Enteric Fermentation		2.995,17					2.995,17
B. Manure Management		929,83	494,61				1.424,44
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	8.705,61				8.705,61
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-928,00**	**0,00**	**0,00**				**-928,00**
6. Waste	**0,00**	**1.375,50**	**0,00**				1.375,50
A. Solid Waste Disposal on Land	0,00	1.375,50					1.375,50
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**6.686,08**	**3,07**	**114,20**				**6.803,36**
Aviation	1.840,45	0,77	19,70				1.860,91
Marine	4.845,63	2,30	94,51				4.942,44
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**5.678,74**						**5.678,74**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-928,00	-928,00			-928,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-928,00	-928,00	0,00	0,00	-928,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	80.151,64
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	79.223,64

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[(1)] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6																				

[(1)] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**62.933,00**	**62.926,55**	**-0,01**	**5.893,02**	**6.069,86**	**3,00**	**10.168,25**	**9.963,89**	**-2,01**
1. Energy		**62.424,36**	**62.417,91**	**-0,01**	**592,51**	**769,36**	**29,85**	**968,03**	**763,67**	**-21,11**
1.A.	Fuel Combustion Activities	61.983,23	61.965,28	-0,03	236,40	413,03	74,72	965,66	761,28	-21,16
1.A.1.	Energy Industries	35.624,07	35.388,19	-0,66	29,17	132,82	355,29	360,74	361,03	0,08
1.A.2.	Manufacturing Industries and Construction	6.513,15	6.300,25	-3,27	17,22	18,36	6,61	123,21	60,03	-51,28
1.A.3.	Transport	11.634,20	11.618,77	-0,13	63,40	73,53	15,99	284,94	243,58	-14,52
1.A.4.	Other Sectors	7.960,29	8.406,55	5,61	126,37	188,08	48,83	193,89	93,58	-51,73
1.A.5.	Other	251,52	251,52	0,00	0,24	0,24	-1,18	2,89	3,07	6,18
1.B.	Fugitive Emissions from Fuels	441,13	452,63	2,61	356,12	356,33	0,06	2,37	2,39	0,74
1.B.1.	Solid fuel	0,00	0,00	0,00	117,18	117,18	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	441,13	452,63	2,61	238,93	239,15	0,09	2,37	2,39	0,74
2. Industrial Processes		**1.317,77**	**1.317,77**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.317,77	1.317,77	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**118,87**	**118,87**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**3.925,00**	**3.925,00**	**0,00**	**9.200,22**	**9.200,22**	**0,00**
4.A.	Enteric Fermentation				2.995,17	2.995,17	0,00			
4.B.	Manure Management				929,83	929,83	0,00	494,61	494,61	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	8.705,61	8.705,61	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-928,00**	**-928,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-928,00	-928,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 2 of 2)

Denmark
1994
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste		**0,00**	**0,00**	**0,00**	**1.375,50**	**1.375,50**	**0,00**	**0,00**	**0,00**	**0,00**
6.A.	Solid Waste Disposal on Land	0,00	0,00	0,00	1.375,50	1.375,50	0,00			
6.B.	Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C.	Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D.	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
				0,00			0,00			0,00
Memo Items:										
International Bunkers		**6.685,72**	**6.686,08**	**0,01**	**3,11**	**3,07**	**-1,15**	**117,04**	**114,20**	**-2,43**
Multilateral Operations		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**4.928,08**	**5.678,74**	**15,23**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		HFCs			PFCs			SF_6		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions		**57,59**	**141,15**	**145,11**	**0,00**	**0,13**	**0,00**	**122,06**	**122,06**	**0,00**
2.C.3.	Aluminium Production				0,00	0,00	0,00	45,41	45,41	0,00
2.E.	Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F.	Consumption of Halocarbons and SF_6	57,59	141,15	145,11	0,00	0,13	0,00	76,65	76,65	0,00
	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6		**772,34**	**772,34**		**7,00**	**3,50**		**427,81**	**427,81**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	79.173,91	79.223,64	0,06
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	80.101,91	80.151,64	0,06

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1994
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
A recalculation has been carried out based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines.
Further, several small changes of activity rates occur. The change of overall fuel consumption is limited. In general the emission factors has not been changed.
However new emission factors for stationary engine and gas turbine plants have been included and existing emission factors are used for new activities.
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1994
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1994
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1994

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☑
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☐			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☑			
	Completeness table:			☐			
	Trend table:			☑			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	-0,93	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years			☑			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1995

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**59.572,42**	**42,79**	**2,44**	**260,48**	**690,35**	**110,93**	**148,92**
A. Fuel Combustion Activities (Sectoral Approach)	**59.230,37**	**25,42**	**2,44**	**258,63**	**645,28**	**98,98**	**145,69**
1. Energy Industries	**32.023,80**	**11,40**	**1,05**	**88,68**	**12,71**	**1,57**	**106,77**
a. Public Electricity and Heat Production	29.851,20	11,20	1,01	84,07	12,03	1,41	105,52
b. Petroleum Refining	1.432,11	0,13	0,03	2,06	0,35	0,11	1,25
c. Manufacture of Solid Fuels and Other Energy Industries	740,49	0,07	0,01	2,56	0,33	0,05	0,00
2. Manufacturing Industries and Construction	**6.705,17**	**1,00**	**0,20**	**23,77**	**14,26**	**4,25**	**22,66**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	6.705,17	1,00	0,20	23,77	14,26	4,25	22,66
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				23,77	14,26	4,25	22,66
3. Transport	**11.764,41**	**3,67**	**0,87**	**109,25**	**451,11**	**74,71**	**4,85**
a. Civil Aviation	184,82	0,01	0,01	0,89	1,22	0,21	0,01
b. Road Transportation	10.650,71	3,58	0,82	94,85	439,69	69,01	1,99
c. Railways	303,68	0,02	0,01	2,84	0,48	0,18	0,10
d. Navigation	625,20	0,06	0,04	10,68	9,73	5,30	2,74
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**8.485,10**	**9,34**	**0,30**	**36,92**	**167,20**	**18,45**	**11,41**
a. Commercial/Institutional	1.095,14	0,70	0,03	1,27	3,99	0,28	1,23
b. Residential	5.060,84	6,64	0,16	5,08	140,42	11,93	5,20
c. Agriculture/Forestry/Fisheries	2.329,12	2,00	0,11	30,57	22,79	6,23	4,98
5. Other *(please specify)* [1]	**251,89**	**0,01**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**342,05**	**17,37**	**0,01**	**1,85**	**45,07**	**11,95**	**3,23**
1. Solid Fuels	**0,00**	**6,27**	**0,00**	**0,00**	**43,87**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	6,27	0,00	0,00	43,87	0,00	0,00
Storage of solid fuel					43,87		
2. Oil and Natural Gas	**342,05**	**11,10**	**0,01**	**1,85**	**1,20**	**11,95**	**3,23**
a. Oil	0,00	0,05		0,00	0,00	7,76	3,02
b. Natural Gas	0,00	10,08				3,66	0,00
c. Venting and Flaring	342,05	0,97	0,01	1,85	1,20	0,52	0,20
Venting	0,00	0,00				0,00	0,20
Flaring	342,05	0,97	0,01	1,85	1,20	0,52	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**6.953,43**	**0,15**	**0,38**	**146,54**	**13,29**	**4,07**	**76,65**
Aviation	1.880,87	0,04	0,07	7,68	1,48	0,36	0,12
Marine	5.072,56	0,11	0,32	138,85	11,81	3,72	76,53
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**6.014,23**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**833.109,62**	NCV				**59.230,37**	**25,42**	**2,44**
Liquid Fuels	362.581,87	NCV	70,21	12,83	3,47	25.458,55	4,65	1,26
Solid Fuels	273.898,68	NCV	95,00	2,50	3,00	26.020,37	0,68	0,82
Gaseous Fuels	135.645,22	NCV	56,90	93,84	1,00	7.718,21	12,73	0,14
Biomass	60.527,28	NCV	99,36	120,63	3,63 [3]	6.014,23	7,30	0,22
Other Fuels	456,56	NCV	72,78	105,85	0,66	33,23	0,05	0,00
1.A.1. Energy Industries	**427.476,53**	NCV				**32.023,80**	**11,40**	**1,05**
Liquid Fuels	79.453,87	NCV	56,53	2,36	1,18	4.491,45	0,19	0,09
Solid Fuels	254.813,74	NCV	95,00	1,56	3,00	24.207,31	0,40	0,76
Gaseous Fuels	58.436,64	NCV	56,90	176,61	1,00	3.325,04	10,32	0,06
Biomass	34.772,28	NCV	98,16	14,09	3,91 [3]	3.413,09	0,49	0,14
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	390.114,81	NCV				29.851,20	11,20	1,01
Liquid Fuels	57.452,22	NCV	55,52	1,78	1,20	3.189,63	0,10	0,07
Solid Fuels	254.813,74	NCV	95,00	1,56	3,00	24.207,31	0,40	0,76
Gaseous Fuels	43.133,07	NCV	56,90	236,62	1,00	2.454,27	10,21	0,04
Biomass	34.715,78	NCV	98,18	14,11	3,92 [3]	3.408,37	0,49	0,14
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	24.291,37	NCV				1.432,11	0,13	0,03
Liquid Fuels	22.001,65	NCV	59,17	3,89	1,11	1.301,83	0,09	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	2.289,72	NCV	56,90	18,50	1,00	130,29	0,04	0,00
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	13.070,35	NCV				740,49	0,07	0,01
Liquid Fuels	0,00	NCV	0,00	0,00	0,00			
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	13.013,85	NCV	56,90	5,52	1,00	740,49	0,07	0,01
Biomass	56,50	NCV	83,60	4,99	0,99 [3]	4,72	0,00	0,00
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**99.489,66**	NCV					**6.705,17**	**1,00**	**0,20**
Liquid Fuels	38.372,64	NCV	78,22	6,34	2,23		3.001,54	0,24	0,09
Solid Fuels	16.722,84	NCV	95,00	15,00	3,00		1.588,67	0,25	0,05
Gaseous Fuels	37.169,78	NCV	56,90	7,60	1,00		2.114,96	0,28	0,04
Biomass	7.224,40	NCV	101,31	30,95	3,89 [3]		731,93	0,22	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00 [3]				
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00 [3]				
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00 [3]				
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00 [3]				
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00 [3]				
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	99.489,66	NCV					6.705,17	1,00	0,20
Liquid Fuels	38.372,64	NCV	78,22	6,34	2,23		3.001,54	0,24	0,09
Solid Fuels	16.722,84	NCV	95,00	15,00	3,00		1.588,67	0,25	0,05
Gaseous Fuels	37.169,78	NCV	56,90	7,60	1,00		2.114,96	0,28	0,04
Biomass	7.224,40	NCV	101,31	30,95	3,89 [3]		731,93	0,22	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY Denmark
Fuel Combustion Activities - Sectoral Approach 1995
(Sheet 3 of 4) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**160.062,78**	NCV					**11.764,41**	**3,67**	**0,87**
Gasoline	83.529,49	NCV	72,97	38,80	6,24		6.095,22	3,24	0,52
Diesel	76.076,73	NCV	74,08	4,99	4,61		5.635,96	0,38	0,35
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	456,56	NCV	72,78	105,85	0,66		33,23	0,05	0,00
a. Civil Aviation	2.565,04	NCV					184,82	0,01	0,01
Aviation Gasoline	132,42	NCV	73,00	21,90	2,00		9,67	0,00	0,00
Jet Kerosene	2.432,62	NCV	72,00	2,12	3,64		175,15	0,01	0,01
b. Road Transportation	145.024,18	NCV					10.650,71	3,58	0,82
Gasoline	80.964,45	NCV	73,00	39,93	6,33		5.910,41	3,23	0,51
Diesel Oil	64.047,43	NCV	74,00	5,39	4,76		4.739,51	0,35	0,31
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	12,29	NCV					0,80	0,00	0,00
LPG	12,29	NCV	65,00	24,50	5,70		0,80	0,00	0,00
c. Railways	4.103,89	NCV					303,68	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	4.103,89	NCV	74,00	4,85	2,05		303,68	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	8.369,68	NCV					625,20	0,06	0,04
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	1.572,93	NCV	78,00	1,76	4,89		122,69	0,00	0,01
Gas/Diesel Oil	6.352,47	NCV	74,00	1,81	4,61		470,08	0,01	0,03
Other Fuels *(please specify)*	444,27	NCV					32,43	0,05	0,00
Kerosene, Gasoline, LPG	444,27	NCV	73,00	108,10	0,52		32,43	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**142.632,10**	NCV					**8.485,10**	**9,34**	**0,30**
Liquid Fuels	81.700,60	NCV	73,22	7,18	2,41		5.982,49	0,59	0,20
Solid Fuels	2.362,10	NCV	95,00	15,00	3,00		224,40	0,04	0,01
Gaseous Fuels	40.038,80	NCV	56,90	53,11	1,00		2.278,21	2,13	0,04
Biomass	18.530,60	NCV	100,87	355,49	2,99 [3]		1.869,21	6,59	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Commercial/Institutional	20.080,90	NCV					1.095,14	0,70	0,03
Liquid Fuels	8.999,70	NCV	66,53	5,50	1,70		598,71	0,05	0,02
Solid Fuels	66,70	NCV	95,00	14,99	3,00		6,34	0,00	0,00
Gaseous Fuels	8.613,30	NCV	56,90	58,22	1,00		490,10	0,50	0,01
Biomass	2.401,20	NCV	93,48	60,61	2,92 [3]		224,46	0,15	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
b. Residential	88.147,18	NCV					5.060,84	6,64	0,16
Liquid Fuels	46.919,08	NCV	73,73	8,97	1,96		3.459,35	0,42	0,09
Solid Fuels	487,80	NCV	95,00	15,00	3,00		46,34	0,01	0,00
Gaseous Fuels	27.331,20	NCV	56,90	30,89	1,00		1.555,15	0,84	0,03
Biomass	13.409,10	NCV	102,00	400,00	3,00 [3]		1.367,73	5,36	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Agriculture/Forestry/Fisheries	34.404,02	NCV					2.329,12	2,00	0,11
Liquid Fuels	25.781,82	NCV	74,64	4,53	3,47		1.924,44	0,12	0,09
Solid Fuels	1.807,60	NCV	95,00	15,00	3,00		171,72	0,03	0,01
Gaseous Fuels	4.094,30	NCV	56,90	190,68	1,00		232,97	0,78	0,00
Biomass	2.720,30	NCV	101,83	396,41	2,98 [3]		277,02	1,08	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00				
1.A.5 Other (Not elsewhere specified)[4]	**3.448,53**	NCV					**251,89**	**0,01**	**0,01**
Liquid Fuels	3.448,53	NCV	73,04	4,12	3,58		251,89	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00 [3]				
Other Fuels	0,00	NCV	0,00	0,00	0,00				

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	392.599,00	########	########		5.479,00	413.149,00	1,00	NCV	413.149,00	20,00	8.262,98		8.262,98	1,00	30.297,59
		Orimulsion	TJ	0,00	24.888,00	1.668,00		3.251,00	19.969,00	1,00	NCV	19.969,00	22,00	439,32		439,32	1,00	1.610,83
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		42.070,00	43.008,00	11,00	2.755,00	-3.704,00	1,00	NCV	-3.704,00	18,90	-70,01		-70,01	1,00	-256,69
		Jet Kerosene	TJ		22.746,00	2.990,00	26.110,00	454,00	-6.808,00	1,00	NCV	-6.808,00	19,50	-132,76		-132,76	1,00	-486,77
		Other Kerosene	TJ		0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	19,60	0,00		0,00	1,00	0,00
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		62.311,00	63.210,00	26.743,00	-9.604,00	-18.038,00	1,00	NCV	-18.038,00	20,20	-364,37	0,00	-364,37	1,00	-1.336,01
		Residual Fuel Oil	TJ		32.246,00	56.781,00	39.509,00	492,00	-64.536,00	1,00	NCV	-64.536,00	21,10	-1.361,71		-1.361,71	1,00	-4.992,94
		LPG	TJ		659,00	3.561,00		-60,00	-2.842,00	1,00	NCV	-2.842,00	17,20	-48,88	0,00	-48,88	1,00	-179,24
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		977,00	6.128,00		169,00	-5.320,00	1,00	NCV	-5.320,00	20,00	-106,40	16,37	-122,77	1,00	-450,15
		Bitumen	TJ		9.203,00	151,00		47,00	9.005,00	1,00	NCV	9.005,00	22,00	198,11	199,47	-1,36	1,00	-5,00
		Lubricants	TJ		3.592,00	1.151,00	153,00	-80,00	2.368,00	1,00	NCV	2.368,00	20,00	47,36	25,66	21,70	1,00	79,57
		Petroleum Coke	TJ		7.178,00	1.540,00		-882,00	6.520,00	1,00	NCV	6.520,00	27,50	179,30		179,30	1,00	657,43
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												349.763,00		7.042,95	241,50	6.801,44		24.938,63
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	########	642,00	0,00	50.735,00	268.710,00	1,00	NCV	268.710,00	25,80	6.932,72		6.932,72	1,00	25.419,97
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	58,00	18,00		-21,00	61,00	1,00	NCV	61,00	27,60	1,68		1,68	1,00	6,17
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												268.771,00		6.934,40	0,00	6.934,40		25.426,14
Gaseous Fossil		Natural Gas (Dry)	TJ	196.852,00	0,00	62.649,00		1.465,00	132.738,00	1,00	NCV	132.738,00	15,30	2.030,89	0,00	2.030,89	1,00	7.446,60
Total												**751.272,00**		**16.008,24**	**241,50**	**15.766,74**		**57.811,37**
Biomass total												59.548,00		1.765,55	0,00	1.765,55		6.473,67
		Solid Biomass	TJ	57.310,00	233,00	0,00		0,00	57.543,00	1,00	NCV	57.543,00	29,90	1.720,54		1.720,54	1,00	6.308,63
		Liquid Biomass	TJ	251,00	0,00	0,00		0,00	251,00	1,00	NCV	251,00	20,00	5,02		5,02	1,00	18,41
		Gas Biomass	TJ	1.754,00	0,00	0,00		0,00	1.754,00	1,00	NCV	1.754,00	22,80	39,99		39,99	1,00	146,63

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this colur

[2] If Anthracite is not separately available, include with Other Bituminous Coa

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark

1995

2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	349,76	24.938,63	362,58	25.458,55	-3,54	-2,04
Solid Fuels (excluding international bunkers)	268,77	25.426,14	273,90	26.020,37	-1,87	-2,28
Gaseous Fuels	132,74	7.446,60	135,65	7.718,21	-2,14	-3,52
Other [3]	11,50	463,73	0,46	33,23	2.418,06	1.295,48
Total [3]	**762,77**	**58.275,10**	**772,58**	**59.230,37**	**-1,27**	**-1,61**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	1.023,00	0,80	20,00	16,37	60,02	
Lubricants	2.566,00	0,50	20,00	25,66	94,09	
Bitumen	9.067,00	1,00	22,00	199,47	731,40	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Fugitive Emissions from Solid Fuels

(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				6,27	0,00
Storage of solid fuel	12,94	0,48	0,00	6,27	

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 (kg/unit) [2]	CH_4 (kg/unit) [2]	N_2O (kg/unit) [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,05**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		0,00	0,00	0,00				
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	2.006.998	0,00	0,00		0,00	0,00	
vi. Other		Mg Crude	9.806.171	0,00	0,00			0,05	
1. B. 2. b. Natural Gas							**0,00**	**10,08**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	2.500.000	0,00	0,65			1,63	
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.001	0,00	2,22		0,00	8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**342,05**	**0,97**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	GJ	11.832	19,24	0,05	0,00	0,23	0,00	0,00
ii. Gas	*(e.g. PJ gas consumption)*	GJ	6.007.356	56,90	0,16	0,00	341,82	0,97	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**66.404,22**				**5.072,56**	**0,11**	**0,32**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	26.742,61	74,00	1,69	4,68	1.978,95	0,05	0,13
Residual Fuel Oil	39.661,62	78,00	1,76	4,89	3.093,61	0,07	0,19
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**26.123,03**				**1.880,87**	**0,04**	**0,07**
Jet Kerosene	26.110,07	72,00	1,39	2,50	1.879,92	0,04	0,07
Gasoline	12,96	73,00	21,91	2,01	0,95	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	11,19	88,81
Aviation	8,94	91,06

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.311,00**	**0,00**	**0,00**	**1.176,69**	**236,85**	**10,50**	**0,95**	**0,02**	**0,00**	**0,60**	**0,00**	**0,63**	**0,22**
A. Mineral Products	**1.311,00**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.202,83												
2. Lime Production	108,18												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,60**	**0,00**	**0,00**	**0,22**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00							0,60			
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,22
													0,22
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,63**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00											0,63	
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**1.176,69**	**236,85**	**10,50**	**0,95**	**0,02**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				783,27	54,63	10,50	0,95		0,00				
2. Foam Blowing				393,42	182,22		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				0,00	0,00		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,01	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.								0,01	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1995

(Sheet 1 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.311,00**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.273,78	0,53			1.202,83					
2. Lime Production		192,22	0,56			108,18					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		400,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		100,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1995

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		657,02	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		0,00	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**0,25**	**0,00**	**0,00**	**4,66**	**0,00**	**154,86**	**43,40**	**0,00**	**4,28**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,14**	**0,00**	**0,00**	**0,00**	**0,00**		**4,49**
C. Metal Production															**0,00**	**0,00**							**1,50**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							1,50
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**0,25**	**0,00**	**0,00**	**4,66**	**0,00**	**154,86**	**43,40**	**0,00**	**4,28**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,14**	**0,00**	**0,00**	**0,00**	**0,00**		**2,99**
1. Refrigeration and Air Conditioning Equipment		0,25			4,66		19,31	0,40		4,28							0,14						
2. Foam Blowing							135,54	43,00															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers																							
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,16
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		2,83
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																							2,83
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**0,16**	**0,00**	**0,00**	**13,03**	**0,00**	**201,31**	**6,08**	**0,00**	**16,27**	**0,00**	**0,00**	**0,00**	**236,85**	**0,00**	**0,00**	**0,95**	**0,00**	**0,00**	**0,00**	**0,00**	**0,95**	**107,36**
C. Metal Production															0,00	0,00						0,00	35,85
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	0,16	0,00	0,00	13,03	0,00	201,31	6,08	0,00	16,27	0,00	0,00	0,00	236,85	0,00	0,00	0,95	0,00	0,00	0,00	0,00	0,95	71,51
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	0,16	0,00	0,00	13,03	0,00	201,31	6,08	0,00	16,27	0,00	0,00	0,00	236,85	0,00	0,00	0,95	0,00	0,00	0,00	0,00	0,95	71,51
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1995

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				1,50	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	1,50	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Consumption of Halocarbons and SF_6

1995

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**117,67**	**0,00**	**40,15**
A. Paint Application	**75,77**		**24,31**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,40**
D. Other *(please specify)*	41,89	0,00	13,44
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	41,89		13,44

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**1,97**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**186,98**	**29,46**	**0,00**	**0,00**	**1,33**
A. Enteric Fermentation	**142,52**				
1. Cattle	124,41				
Dairy Cattle	73,06				
Non-Dairy Cattle	51,35				
2. Buffalo					
3. Sheep	1,16				
4. Goats					
5. Camels and Llamas					
6. Horses	0,32				
7. Mules and Asses					
8. Swine	16,63				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**44,47**	**1,57**			**0,00**
1. Cattle	16,39				
Dairy Cattle	14,17				
Non-Dairy Cattle	2,22				
2. Buffalo					
3. Sheep	0,07				
4. Goats					
5. Camels and Llamas					
6. Horses	0,02				
7. Mules and Asses					
8. Swine	27,24				
9. Poultry	0,76				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,23			
12. Solid Storage and Dry Lot		1,34			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**27,89**			**1,33**
1. Direct Soil Emissions		17,53			1,33
2. Animal Production		1,21			
3. Indirect Emissions		9,06			
4. Other *(please specify)*	0,00	0,10			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

Enteric Fermentation

(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	702			104,00
Non-Dairy Cattle	1.388			37,00
2. Buffalo	0			0,00
3. Sheep	145			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	18			18,00
7. Mules and Asses	0			0,00
8. Swine	11.084			1,50
9. Poultry	23.916			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b]		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Indicators:					
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	702							20,17
Non-Dairy Cattle	1.388							1,60
2. Buffalo	0							0,00
3. Sheep	212							0,31
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	53							0,37
7. Mules and Asses	0							0,00
8. Swine	17.499							1,56
9. Poultry	23.916							0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1995

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system (kg N_2O-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	702								Anaerobic lagoon	0,000
Dairy Cattle	1.388								Liquid system	0,000
Sheep	212								Solid storage and dry lot	0,000
Swine	17.499								Other	0,000
Poultry	23.916									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Rice Cultivation

1995

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR [1]	EMISSIONS
		Harvested area [2] (10^{-9} m^2/yr)	Organic amendments added[3]: type	Organic amendments added[3]: (t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice[4]						
Total [4]		0,00				

[1] The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

[2] Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

[3] Specify dry weight or wet weight for organic amendments

[4] These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1995

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS
	Description	Value	Unit		(Gg N_2O)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**17,53**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	315.900.000	(kg N2O-N/kg N)[2]	0,012	6,08
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	259.400.000	(kg N2O-N/kg N)[2]	0,009	3,65
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	29.600.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,58
Crop Residue	Dry production of other crops (kg dry biomass/yr)	359.700.000	(kg N2O-N/kg dry biomass)[2]	0,013	7,07
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**41.300.000**	**(kg N2O-N/kg N)[2]**	**0,019**	**1,21**
Indirect Emissions					**9,06**
Atmospheric Deposition	(kg N/yr)	82.619.200	(kg N2O-N/kg N)[2]	0,010	1,30
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	197.500.000	(kg N2O-N/kg N)[2]	0,025	7,76
Other *(please specify)*					**0,10**
Sewage sludge used as fertilizer	(kg N/yr)	5.300.000	(kg N2O-N/kg N)[2]	0,013	0,10
Industrial waste used as fertilizer	(kg N/yr)		(kg N2O-N/kg N)[2]	0,000	
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1995

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Field Burning of Agricultural Residues

1995

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-931,00**	**-931,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-931,00**	**-931,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-931,00	-931,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)

[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section D

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1995

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1995

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

Year	Climate [a]	land-use/ management system [a]	Soil type: High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**62,70**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**62,70**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	62,70					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

(1) Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	1.957,00				0,03	0,00	62,70	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

[1] Actual emissions (after recovery).

[2] CH_4 recovered and flared or utilized.

[3] Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

[a] Specify whether total or urban population is used and the rationale for doing so.

[b] See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

[c] For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)		(kg/kg DC)	(Gg)		(Gg)
Industrial Wastewater	999.998,00				0,00	0,00		0,00		
Domestic and Commercial Wastewater	999.998,00				0,00	0,00		0,00		
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
DC (kg BOD/1000 person/yr)		
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**61.001,09**	**-931,00**	**292,47**	**31,91**	**1.176,69**	**236,85**	**10,50**	**0,95**	**0,02**	**0,00**	**261,08**	**690,35**	**161,99**	**149,13**
1. Energy	**59.572,42**		**42,79**	**2,44**							**260,48**	**690,35**	**110,93**	**148,92**
A. Fuel Combustion — Reference Approach[2]	57.811,37													
A. Fuel Combustion — Sectoral Approach[2]	59.230,37		25,42	2,44							258,63	645,28	98,98	145,69
1. Energy Industries	32.023,80		11,40	1,05							88,68	12,71	1,57	106,77
2. Manufacturing Industries and Construction	6.705,17		1,00	0,20							23,77	14,26	4,25	22,66
3. Transport	11.764,41		3,67	0,87							109,25	451,11	74,71	4,85
4. Other Sectors	8.485,10		9,34	0,30							36,92	167,20	18,45	11,41
5. Other	251,89		0,01	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	342,05		17,37	0,01							1,85	45,07	11,95	3,23
1. Solid Fuels	0,00		6,27	0,00							0,00	43,87	0,00	0,00
2. Oil and Natural Gas	342,05		11,10	0,01							1,85	1,20	11,95	3,23
2. Industrial Processes	**1.311,00**		**0,00**	**0,00**	**1.176,69**	**236,85**	**10,50**	**0,95**	**0,02**	**0,00**	**0,60**	**0,00**	**0,63**	**0,22**
A. Mineral Products	1.311,00		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,60	0,00	0,00	0,22
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,63	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					1.176,69	236,85	10,50	0,95	0,02	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**117,67**			**0,00**									**40,15**	
4. Agriculture	**0,00**	**0,00**	**186,98**	**29,46**							0,00	0,00	1,33	0,00
A. Enteric Fermentation			142,52											
B. Manure Management			44,47	1,57									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	27,89									1,33	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-931,00**	**0,00**	**0,00**							**0,00**	**0,00**	**8,95**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -931,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	8,95	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**62,70**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		62,70									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**6.953,43**		**0,15**	**0,38**							**146,54**	**13,29**	**4,07**	**76,65**
Aviation	1.880,87		0,04	0,07							7,68	1,48	0,36	0,12
Marine	5.072,56		0,11	0,32							138,85	11,81	3,72	76,53
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**6.014,23**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**61.001,09**	**-931,00**	**292,47**	**31,91**	**1.176,69**	**236,85**	**10,50**	**0,95**	**0,02**	**0,00**	**261,08**	**690,35**	**161,99**	**149,13**
1. Energy		**59.572,42**		**42,79**	**2,44**							**260,48**	**690,35**	**110,93**	**148,92**
A. Fuel Combustion	Reference Approach[2]	57.811,37													
	Sectoral Approach[2]	59.230,37		25,42	2,44							258,63	645,28	98,98	145,69
B. Fugitive Emissions from Fuels		342,05		17,37	0,01							1,85	45,07	11,95	3,23
2. Industrial Processes		**1.311,00**		**0,00**	**0,00**	**1.176,69**	**236,85**	**10,50**	**0,95**	**0,02**	**0,00**	**0,60**	**0,00**	**0,63**	**0,22**
3. Solvent and Other Product Use		**117,67**			**0,00**							**0,00**	**0,00**	**40,15**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**186,98**	**29,46**							**0,00**	**0,00**	**1,33**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-931,00**	**0,00**	**0,00**							**0,00**	**0,00**	**8,95**	**0,00**
6. Waste		**0,00**		**62,70**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**6.953,43**		**0,15**	**0,38**							**146,54**	**13,29**	**4,07**	**76,65**
Aviation		1.880,87		0,04	0,07							7,68	1,48	0,36	0,12
Marine		5.072,56		0,11	0,32							138,85	11,81	3,72	76,53
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.014,23**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**60.070,09**	**6.141,94**	**9.891,29**	**236,85**	**0,95**	**107,36**	**76.448,48**
1. Energy	**59.572,42**	**898,57**	**757,36**				**61.228,35**
A. Fuel Combustion (Sectoral Approach)	59.230,37	533,75	755,50				60.519,62
1. Energy Industries	32.023,80	239,33	326,24				32.589,37
2. Manufacturing Industries and Construction	6.705,17	21,00	62,33				6.788,51
3. Transport	11.764,41	77,06	270,41				12.111,88
4. Other Sectors	8.485,10	196,06	92,68				8.773,85
5. Other	251,89	0,30	3,83				256,02
B. Fugitive Emissions from Fuels	342,05	364,82	1,86				708,73
1. Solid Fuels	0,00	131,66	0,00				131,66
2. Oil and Natural Gas	342,05	233,16	1,86				577,07
2. Industrial Processes	**1.311,00**	**0,00**	**0,00**	**236,85**	**0,95**	**107,36**	**1.656,16**
A. Mineral Products	1.311,00	0,00	0,00				1.311,00
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	35,85	35,85
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				236,85	0,95	71,51	309,31
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**117,67**		**0,00**				**117,67**
4. Agriculture	**0,00**	**3.926,68**	**9.133,93**				**13.060,60**
A. Enteric Fermentation		2.992,83					2.992,83
B. Manure Management		933,84	486,54				1.420,38
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	8.647,38				8.647,38
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-931,00**	**0,00**	**0,00**				**-931,00**
6. Waste	**0,00**	**1.316,70**	**0,00**				1.316,70
A. Solid Waste Disposal on Land	0,00	1.316,70					1.316,70
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**6.953,43**	**3,18**	**119,17**				**7.075,78**
Aviation	1.880,87	0,77	20,22				1.901,86
Marine	5.072,56	2,41	98,95				5.173,92
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**6.014,23**						**6.014,23**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-931,00	-931,00			-931,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-931,00	-931,00	0,00	0,00	-931,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	77.379,48
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	76.448,48

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[1] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6																				

[1] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**59.755,39**	**60.070,09**	**0,53**	**5.869,25**	**6.141,94**	**4,65**	**10.102,07**	**9.891,29**	**-2,09**
1. Energy		**59.257,72**	**59.572,42**	**0,53**	**625,88**	**898,57**	**43,57**	**968,14**	**757,36**	**-21,77**
1.A.	Fuel Combustion Activities	58.923,81	59.230,37	0,52	261,18	533,75	104,36	966,29	755,50	-21,81
1.A.1.	Energy Industries	32.152,68	32.023,80	-0,40	32,78	239,33	630,08	325,91	326,24	0,10
1.A.2.	Manufacturing Industries and Construction	6.069,76	6.705,17	10,47	14,78	21,00	42,10	116,55	62,33	-46,52
1.A.3.	Transport	11.765,19	11.764,41	-0,01	63,90	77,06	20,59	320,74	270,41	-15,69
1.A.4.	Other Sectors	8.684,29	8.485,10	-2,29	149,41	196,06	31,23	199,70	92,68	-53,59
1.A.5.	Other	251,89	251,89	0,00	0,31	0,30	-3,73	3,39	3,83	13,00
1.B.	Fugitive Emissions from Fuels	333,92	342,05	2,43	364,70	364,82	0,03	1,85	1,86	0,50
1.B.1.	Solid fuel	0,00	0,00	0,00	131,66	131,66	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	333,92	342,05	2,43	233,04	233,16	0,05	1,85	1,86	0,50
2. Industrial Processes		**1.311,00**	**1.311,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.311,00	1.311,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**117,67**	**117,67**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**3.926,68**	**3.926,68**	**0,00**	**9.133,93**	**9.133,93**	**0,00**
4.A.	Enteric Fermentation				2.992,83	2.992,83	0,00			
4.B.	Manure Management				933,84	933,84	0,00	486,54	486,54	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	8.647,38	8.647,38	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-931,00**	**-931,00**	**0,00**	**0,00**	**0,00**	**0,00**	**½**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-931,00	-931,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 2 of 2)

Denmark
1995
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2			CH_4			N_2O		
	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste	**0,00**	**0,00**	**0,00**	**1.316,70**	**1.316,70**	**0,00**	**0,00**	**0,00**	**0,00**
6.A. Solid Waste Disposal on Land	0,00	0,00	0,00	1.316,70	1.316,70	0,00			
6.B. Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C. Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00			0,00			0,00
Memo Items:									
International Bunkers	**6.963,05**	**6.953,43**	**-0,14**	**3,25**	**3,18**	**-2,04**	**122,31**	**119,17**	**-2,57**
Multilateral Operations	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**5.579,73**	**6.014,23**	**7,79**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFCs			PFCs			SF_6		
	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions	**125,99**	**236,85**	**87,99**	**0,00**	**0,95**	**0,00**	**107,36**	**107,36**	**0,00**
2.C.3. Aluminium Production				0,00	0,00	0,00	35,85	35,85	0,00
2.E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F. Consumption of Halocarbons and SF_6	125,99	236,85	87,99	0,00	0,95	0,00	71,51	71,51	0,00
Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6	**1.176,69**	**1.176,69**		**14,00**	**10,50**		**368,06**	**368,06**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	75.960,07	76.448,48	0,64
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	76.891,07	77.379,48	0,64

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1995
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
A recalculation has been carried out based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines.
Further, several small changes of activity rates occur. The change of overall fuel consumption is limited. In general the emission factors has not been changed.
However new emission factors for stationary engine and gas turbine plants have been included and existing emission factors are used for new activities.
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1995
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1995
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1995

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☐
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☐			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☑			
	Completeness table:			☐			
	Trend table:			☑			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	-1,61	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years			☑			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1996

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**73.009,71**	**48,56**	**2,92**	**304,54**	**701,60**	**108,65**	**179,46**
A. Fuel Combustion Activities (Sectoral Approach)	**72.609,33**	**31,08**	**2,91**	**302,50**	**656,41**	**95,76**	**176,63**
1. Energy Industries	**44.412,23**	**15,08**	**1,43**	**128,47**	**15,27**	**1,86**	**144,87**
a. Public Electricity and Heat Production	42.211,82	14,99	1,39	122,48	14,76	1,77	143,73
b. Petroleum Refining	1.327,44	0,03	0,02	2,36	0,30	0,03	1,13
c. Manufacture of Solid Fuels and Other Energy Industries	872,96	0,07	0,02	3,63	0,21	0,06	0,01
2. Manufacturing Industries and Construction	**6.888,29**	**1,57**	**0,21**	**27,74**	**15,03**	**4,39**	**14,02**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	6.888,29	1,57	0,21	27,74	15,03	4,39	14,02
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				27,74	15,03	4,39	14,02
3. Transport	**11.960,36**	**3,93**	**0,95**	**107,09**	**446,73**	**70,60**	**4,23**
a. Civil Aviation	189,44	0,01	0,01	0,89	1,13	0,19	0,01
b. Road Transportation	10.821,69	3,84	0,89	92,32	435,04	64,72	2,04
c. Railways	301,30	0,02	0,01	2,81	0,47	0,18	0,10
d. Navigation	647,93	0,06	0,04	11,07	10,09	5,50	2,08
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**9.172,55**	**10,49**	**0,32**	**39,20**	**179,38**	**18,91**	**13,51**
a. Commercial/Institutional	1.238,85	0,84	0,03	1,40	6,00	0,41	1,69
b. Residential	5.422,89	7,06	0,17	5,40	149,65	12,31	5,46
c. Agriculture/Forestry/Fisheries	2.510,81	2,58	0,11	32,39	23,73	6,20	6,36
5. Other *(please specify)* [1]	**175,92**	**0,01**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**400,38**	**17,49**	**0,01**	**2,04**	**45,19**	**12,89**	**2,83**
1. Solid Fuels	**0,00**	**6,27**	**0,00**	**0,00**	**43,87**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	6,27	0,00	0,00	43,87	0,00	0,00
Storage of solid fuel					43,87		
2. Oil and Natural Gas	**400,38**	**11,22**	**0,01**	**2,04**	**1,32**	**12,89**	**2,83**
a. Oil	0,00	0,06				8,65	2,61
b. Natural Gas	0,00	10,08				3,66	0,00
c. Venting and Flaring	400,38	1,07	0,01	2,04	1,32	0,58	0,22
Venting	0,00	0,00					0,22
Flaring	400,38	1,07	0,01	2,04	1,32	0,58	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**6.806,48**	**0,15**	**0,37**	**140,05**	**12,78**	**3,90**	**72,02**
Aviation	1.986,51	0,04	0,07	8,08	1,56	0,37	0,13
Marine	4.819,97	0,11	0,30	131,97	11,23	3,53	71,90
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**6.448,51**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**995.212,96**	NCV				**72.609,33**	**31,08**	**2,91**
Liquid Fuels	394.079,55	NCV	70,48	12,56	3,53	27.775,03	4,95	1,39
Solid Fuels	375.387,10	NCV	95,00	2,17	3,00	35.661,77	0,82	1,13
Gaseous Fuels	160.599,21	NCV	56,90	110,64	1,00	9.138,09	17,77	0,16
Biomass	64.674,09	NCV	99,71	115,88	3,64 [3]	6.448,51	7,49	0,24
Other Fuels	473,02	NCV	72,79	105,94	0,65	34,43	0,05	0,00
1.A.1. Energy Industries	**573.702,46**	NCV				**44.412,23**	**15,08**	**1,43**
Liquid Fuels	104.664,78	NCV	60,24	1,89	1,32	6.304,63	0,20	0,14
Solid Fuels	357.163,30	NCV	95,00	1,52	3,00	33.930,51	0,54	1,07
Gaseous Fuels	73.410,98	NCV	56,90	187,91	1,00	4.177,08	13,79	0,07
Biomass	38.463,39	NCV	98,79	14,27	3,91 [3]	3.799,78	0,55	0,15
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	535.807,85	NCV				42.211,82	14,99	1,39
Liquid Fuels	82.177,04	NCV	60,57	2,04	1,38	4.977,19	0,17	0,11
Solid Fuels	357.163,30	NCV	95,00	1,52	3,00	33.930,51	0,54	1,07
Gaseous Fuels	58.068,92	NCV	56,90	236,40	1,00	3.304,12	13,73	0,06
Biomass	38.398,59	NCV	98,82	14,29	3,91 [3]	3.794,36	0,55	0,15
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	22.487,74	NCV				1.327,44	0,03	0,02
Liquid Fuels	22.487,74	NCV	59,03	1,35	1,10	1.327,44	0,03	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	15.406,86	NCV				872,96	0,07	0,02
Liquid Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	15.342,06	NCV	56,90	4,35	1,00	872,96	0,07	0,02
Biomass	64,80	NCV	83,60	2,50	1,00 [3]	5,42	0,00	0,00
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**102.262,11**	NCV					**6.888,29**	**1,57**	**0,21**
Liquid Fuels	38.912,94	NCV	78,92	6,37	2,27		3.071,18	0,25	0,09
Solid Fuels	16.559,10	NCV	95,00	15,00	3,00		1.573,11	0,25	0,05
Gaseous Fuels	39.437,46	NCV	56,90	21,29	1,00		2.243,99	0,84	0,04
Biomass	7.352,60	NCV	101,47	31,20	3,91	[3]	746,10	0,23	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	102.262,11	NCV					6.888,29	1,57	0,21
Liquid Fuels	38.912,94	NCV	78,92	6,37	2,27		3.071,18	0,25	0,09
Solid Fuels	16.559,10	NCV	95,00	15,00	3,00		1.573,11	0,25	0,05
Gaseous Fuels	39.437,46	NCV	56,90	21,29	1,00		2.243,99	0,84	0,04
Biomass	7.352,60	NCV	101,47	31,20	3,91	[3]	746,10	0,23	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY Denmark
Fuel Combustion Activities - Sectoral Approach 1996
(Sheet 3 of 4) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**162.745,18**	NCV					**11.960,36**	**3,93**	**0,95**
Gasoline	84.336,53	NCV	72,97	41,52	7,00		6.154,06	3,50	0,59
Diesel	77.935,63	NCV	74,06	4,89	4,63		5.771,86	0,38	0,36
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	473,02	NCV	72,79	105,94	0,65		34,43	0,05	0,00
a. Civil Aviation	2.629,38	NCV					189,44	0,01	0,01
Aviation Gasoline	121,42	NCV	73,00	21,90	2,00		8,86	0,00	0,00
Jet Kerosene	2.507,96	NCV	72,00	1,66	3,96		180,57	0,00	0,01
b. Road Transportation	147.344,65	NCV					10.821,69	3,84	0,89
Gasoline	81.707,16	NCV	73,00	42,78	7,10		5.964,62	3,50	0,58
Diesel Oil	65.625,27	NCV	74,00	5,28	4,78		4.856,27	0,35	0,31
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	12,22	NCV					0,79	0,00	0,00
LPG	12,22	NCV	65,00	24,79	5,64		0,79	0,00	0,00
c. Railways	4.071,75	NCV					301,30	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	4.071,75	NCV	74,00	4,84	2,05		301,30	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	8.699,40	NCV					647,93	0,06	0,04
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	1.159,67	NCV	78,00	1,76	4,89		90,45	0,00	0,01
Gas/Diesel Oil	7.078,94	NCV	74,00	1,80	4,61		523,84	0,01	0,03
Other Fuels *(please specify)*	460,80	NCV					33,64	0,05	0,00
Kerosene, Gasoline, LPG	460,80	NCV	73,00	108,10	0,52		33,64	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**154.080,05**	NCV				**9.172,55**	**10,49**	**0,32**
Liquid Fuels	85.806,49	NCV	73,39	7,13	2,42	6.297,38	0,61	0,21
Solid Fuels	1.664,70	NCV	95,00	15,00	3,00	158,15	0,02	0,00
Gaseous Fuels	47.750,76	NCV	56,90	65,63	1,00	2.717,02	3,13	0,05
Biomass	18.858,10	NCV	100,89	356,14	2,97 [3]	1.902,63	6,72	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Commercial/Institutional	22.764,48	NCV				1.238,85	0,84	0,03
Liquid Fuels	8.991,20	NCV	66,89	5,57	1,72	601,44	0,05	0,02
Solid Fuels	41,70	NCV	95,00	14,99	3,00	3,96	0,00	0,00
Gaseous Fuels	11.132,68	NCV	56,90	51,31	1,00	633,45	0,57	0,01
Biomass	2.598,90	NCV	94,14	85,60	2,83 [3]	244,66	0,22	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Residential	94.306,00	NCV				5.422,89	7,06	0,17
Liquid Fuels	49.299,12	NCV	73,82	8,91	1,96	3.639,45	0,44	0,10
Solid Fuels	169,70	NCV	95,00	15,00	3,00	16,12	0,00	0,00
Gaseous Fuels	31.059,98	NCV	56,90	35,70	1,00	1.767,31	1,11	0,03
Biomass	13.777,20	NCV	102,00	400,00	3,00 [3]	1.405,27	5,51	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Agriculture/Forestry/Fisheries	37.009,57	NCV				2.510,81	2,58	0,11
Liquid Fuels	27.516,17	NCV	74,74	4,44	3,47	2.056,49	0,12	0,10
Solid Fuels	1.453,30	NCV	95,00	15,00	3,00	138,06	0,02	0,00
Gaseous Fuels	5.558,10	NCV	56,90	261,55	1,00	316,26	1,45	0,01
Biomass	2.482,00	NCV	101,81	395,98	2,98 [3]	252,70	0,98	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00			
1.A.5 Other (Not elsewhere specified)[4]	**2.423,17**	NCV				**175,92**	**0,01**	**0,01**
Liquid Fuels	2.423,17	NCV	72,60	3,50	3,04	175,92	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	433.121,00	234.595,00	########		-5.380,00	449.308,00	1,00	NCV	449.308,00	20,00	8.986,16		8.986,16	1,00	32.949,25
		Orimulsion	TJ	0,00	36.699,00	0,00		-187,00	36.886,00	1,00	NCV	36.886,00	22,00	811,49		811,49	1,00	2.975,47
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		45.406,00	71.090,00	9,00	-3.564,00	-22.129,00	1,00	NCV	-22.129,00	18,90	-418,24		-418,24	1,00	-1.533,54
		Jet Kerosene	TJ		15.945,00	3.232,00	27.581,00	-821,00	-14.047,00	1,00	NCV	-14.047,00	19,50	-273,92		-273,92	1,00	-1.004,36
		Other Kerosene	TJ		0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	19,60	0,00		0,00	1,00	0,00
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		57.936,00	52.207,00	27.325,00	400,00	-21.996,00	1,00	NCV	-21.996,00	20,20	-444,32	0,00	-444,32	1,00	-1.629,17
		Residual Fuel Oil	TJ		38.276,00	59.852,00	35.739,00	3.122,00	-60.437,00	1,00	NCV	-60.437,00	21,10	-1.275,22		-1.275,22	1,00	-4.675,81
		LPG	TJ		594,00	3.769,00		131,00	-3.306,00	1,00	NCV	-3.306,00	17,20	-56,86	0,00	-56,86	1,00	-208,50
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		1.228,00	8.965,00		-194,00	-7.543,00	1,00	NCV	-7.543,00	20,00	-150,86	19,71	-170,57	1,00	-625,43
		Bitumen	TJ		9.068,00	80,00		-202,00	9.190,00	1,00	NCV	9.190,00	22,00	202,18	214,61	-12,43	1,00	-45,58
		Lubricants	TJ		2.878,00	539,00	217,00	-313,00	2.435,00	1,00	NCV	2.435,00	20,00	48,70	25,65	23,05	1,00	84,52
		Petroleum Coke	TJ		7.540,00	1.593,00		-1.310,00	7.257,00	1,00	NCV	7.257,00	27,50	199,57		199,57	1,00	731,75
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												375.618,00		7.628,68	259,97	7.368,71		27.018,60
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	325.431,00	3.855,00	0,00	-50.263,00	371.839,00	1,00	NCV	371.839,00	25,80	9.593,45		9.593,45	1,00	35.175,97
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	65,00	24,00		1,00	40,00	1,00	NCV	40,00	27,60	1,10		1,10	1,00	4,05
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												371.879,00		9.594,55	0,00	9.594,55		35.180,02
Gaseous Fossil		Natural Gas (Dry)	TJ	239.199,00	0,00	71.415,00		11.422,00	156.362,00	1,00	NCV	156.362,00	15,30	2.392,34	0,00	2.392,34	1,00	8.771,91
Total												**903.859,00**		**19.615,57**	**259,97**	**19.355,60**		**70.970,53**
Biomass total												63.779,00		1.892,27	0,00	1.892,27		6.938,32
		Solid Biomass	TJ	61.243,00	486,00	0,00		0,00	61.729,00	1,00	NCV	61.729,00	29,90	1.845,70		1.845,70	1,00	6.767,56
		Liquid Biomass	TJ	60,00	0,00	0,00		0,00	60,00	1,00	NCV	60,00	20,00	1,20		1,20	1,00	4,40
		Gas Biomass	TJ	1.990,00	0,00	0,00		0,00	1.990,00	1,00	NCV	1.990,00	22,80	45,37		45,37	1,00	166,36

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

[2] If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark

1996

2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	375,62	27.018,60	394,08	27.775,03	-4,68	-2,72
Solid Fuels (excluding international bunkers)	371,88	35.180,02	375,39	35.661,77	-0,93	-1,35
Gaseous Fuels	156,36	8.771,91	160,60	9.138,09	-2,64	-4,01
Other [3]	12,59	502,02	0,47	34,43	2.562,66	1.357,98
Total [3]	**916,45**	**71.472,55**	**930,54**	**72.609,33**	**-1,51**	**-1,57**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	1.232,00	0,80	20,00	19,71	72,28	
Lubricants	2.565,00	0,50	20,00	25,65	94,05	
Bitumen	9.755,00	1,00	22,00	214,61	786,90	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Denmark

Fugitive Emissions from Solid Fuels

1996

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				6,27	0,00
Storage of solid fuel	12,94	0,48	0,00	6,27	

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 (kg/unit) [2]	CH_4 (kg/unit) [2]	N_2O (kg/unit) [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,06**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		0,00	0,00	0,00				
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	2.006.998	0,00	0,00			0,00	
vi. Other		Mg Crude	10.526.171	0,00	0,01			0,06	
1. B. 2. b. Natural Gas							**0,00**	**10,08**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	2.500.000	0,00	0,65			1,63	
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.001	0,00	2,22			8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**400,38**	**1,07**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	GJ	411.788	56,90	0,00	0,00	23,43		0,00
ii. Gas	*(e.g. PJ gas consumption)*	GJ	6.624.695	56,90	0,16	0,00	376,95	1,07	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**63.191,13**				**4.819,97**	**0,11**	**0,30**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	27.235,00	74,00	1,69	4,68	2.015,39	0,05	0,13
Residual Fuel Oil	35.956,13	78,00	1,76	4,89	2.804,58	0,06	0,18
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**27.590,30**				**1.986,51**	**0,04**	**0,07**
Jet Kerosene	27.580,96	72,00	1,37	2,52	1.985,83	0,04	0,07
Gasoline	9,35	73,00	21,94	2,03	0,68	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	12,10	87,90
Aviation	8,70	91,30

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.388,14**	**0,00**	**0,00**	**1.393,18**	**375,86**	**21,00**	**2,93**	**0,01**	**0,00**	**0,50**	**0,00**	**0,06**	**0,08**
A. Mineral Products	**1.388,14**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.282,06												
2. Lime Production	106,07												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,50**	**0,00**	**0,00**	**0,08**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00							0,50			
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,08
													0,08
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,06**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00											0,06	
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**1.393,18**	**375,86**	**21,00**	**2,93**	**0,01**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				894,70	128,65	21,00	2,93		0,00				
2. Foam Blowing				498,48	247,22		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				0,00	0,00		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,01	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.								0,01	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Emissions of CO_2, CH_4 and N_2O

(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.388,14**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.418,99	0,53			1.282,06					
2. Lime Production		194,33	0,55			106,07					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		360,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		55,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1996

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS [2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		0,00	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**1,50**	**0,00**	**0,00**	**15,70**	**0,00**	**209,98**	**32,16**	**0,00**	**14,07**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,42**	**0,00**	**0,00**	**0,00**	**0,00**		**2,55**
C. Metal Production															**0,00**	**0,00**							**0,40**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							0,40
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**1,50**	**0,00**	**0,00**	**15,70**	**0,00**	**209,98**	**32,16**	**0,00**	**14,07**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,42**	**0,00**	**0,00**	**0,00**	**0,00**		**2,15**
1. Refrigeration and Air Conditioning Equipment		1,50			15,70		23,26	0,16		14,07							0,42						
2. Foam Blowing							186,72	32,00															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers																							
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,18
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		1,97
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																							1,97
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**0,97**	**0,00**	**0,00**	**43,95**	**0,00**	**272,97**	**4,50**	**0,00**	**53,46**	**0,00**	**0,00**	**0,00**	**375,86**	**0,00**	**0,00**	**2,93**	**0,00**	**0,00**	**0,00**	**0,00**	**2,93**	**60,99**
C. Metal Production															0,00	0,00						0,00	9,56
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	0,97	0,00	0,00	43,95	0,00	272,97	4,50	0,00	53,46	0,00	0,00	0,00	375,86	0,00	0,00	2,93	0,00	0,00	0,00	0,00	2,93	51,43
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	0,97	0,00	0,00	43,95	0,00	272,97	4,50	0,00	53,46	0,00	0,00	0,00	375,86	0,00	0,00	2,93	0,00	0,00	0,00	0,00	2,93	51,43
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1996

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				0,40	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	0,40	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Consumption of Halocarbons and SF_6

1996

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**116,48**	**0,00**	**39,72**
A. Paint Application	**75,09**		**24,09**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,35**
D. Other *(please specify)*	41,39	0,00	13,28
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	41,39		13,28

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**1,97**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**186,23**	**28,52**	**0,00**	**0,00**	**1,31**
A. Enteric Fermentation	**142,38**				
1. Cattle	124,39				
Dairy Cattle	72,87				
Non-Dairy Cattle	51,53				
2. Buffalo					
3. Sheep	1,36				
4. Goats					
5. Camels and Llamas					
6. Horses	0,36				
7. Mules and Asses					
8. Swine	16,26				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**43,85**	**1,57**			**0,00**
1. Cattle	16,28				
Dairy Cattle	14,05				
Non-Dairy Cattle	2,23				
2. Buffalo					
3. Sheep	0,08				
4. Goats					
5. Camels and Llamas					
6. Horses	0,02				
7. Mules and Asses					
8. Swine	26,71				
9. Poultry	0,76				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,23			
12. Solid Storage and Dry Lot		1,35			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**26,95**			**1,31**
1. Direct Soil Emissions		16,75			1,31
2. Animal Production		1,23			
3. Indirect Emissions		8,80			
4. Other *(please specify)*	0,00	0,18			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

Enteric Fermentation

(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	701			104,00
Non-Dairy Cattle	1.393			37,00
2. Buffalo	0			0,00
3. Sheep	170			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	20			18,00
7. Mules and Asses	0			0,00
8. Swine	10.842			1,50
9. Poultry	24.613			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b]		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Indicators:					
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE
CH_4 Emissions from Manure Management
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	701							20,05
Non-Dairy Cattle	1.393							1,60
2. Buffalo	0							0,00
3. Sheep	249							0,31
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	60							0,37
7. Mules and Asses	0							0,00
8. Swine	17.035							1,57
9. Poultry	24.613							0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1996

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system (kg N_2O-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	701								Anaerobic lagoon	0,000
Dairy Cattle	1.393								Liquid system	0,000
Sheep	249								Solid storage and dry lot	0,000
Swine	17.035								Other	0,000
Poultry	24.613									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Rice Cultivation

(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR (1)	EMISSIONS
		Harvested area (2) (10^{-9} m^2/yr)	Organic amendments added(3): type	(t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice(4)						
Total (4)		0,00				

(1) The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

(2) Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

(3) Specify dry weight or wet weight for organic amendments

(4) These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1996

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS
	Description	Value	Unit		($Gg\ N_2O$)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**16,75**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	290.800.000	(kg N2O-N/kg N)[2]	0,012	5,60
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	259.620.000	(kg N2O-N/kg N)[2]	0,009	3,66
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	30.380.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,60
Crop Residue	Dry production of other crops (kg dry biomass/yr)	343.600.000	(kg N2O-N/kg dry biomass)[2]	0,013	6,75
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**42.180.000**	**(kg N2O-N/kg N)[2]**	**0,019**	**1,23**
Indirect Emissions					**8,80**
Atmospheric Deposition	(kg N/yr)	82.241.060	(kg N2O-N/kg N)[2]	0,010	1,29
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	191.000.000	(kg N2O-N/kg N)[2]	0,025	7,50
Other *(please specify)*					**0,18**
Sewage sludge used as fertilizer	(kg N/yr)	4.700.000	(kg N2O-N/kg N)[2]	0,013	0,09
Industrial waste used as fertilizer	(kg N/yr)	4.360.000	(kg N2O-N/kg N)[2]	0,013	0,09
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1996

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

Field Burning of Agricultural Residues

(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-941,00**	**-941,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-941,00**	**-941,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-941,00	-941,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)

[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section D

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark
1996
2002 Apr 15

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1996

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1996

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	Annual loss rate (Mg C/ha/yr)	Carbon emissions from organic soils (Mg C/yr)
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	Carbon conversion factor	Carbon emissions from liming (Mg C)
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

Year	Climate [a]	land-use/ management system [a]	Soil type: High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**62,10**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**62,10**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	62,10					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

(1) Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	2.507,00				0,02	0,00	62,10	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

(1) Actual emissions (after recovery).

(2) CH_4 recovered and flared or utilized.

(3) Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

[a] Specify whether total or urban population is used and the rationale for doing so.

[b] See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

[c] For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)		(kg/kg DC)	(Gg)		(Gg)
Industrial Wastewater	999.998,00				0,00	0,00		0,00		
Domestic and Commercial Wastewater	999.998,00				0,00	0,00		0,00		
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**74.514,33**	**-941,00**	**296,89**	**31,44**	**1.393,18**	**375,86**	**21,00**	**2,93**	**0,01**	**0,00**	**305,04**	**701,60**	**158,69**	**179,54**
1. Energy	**73.009,71**		**48,56**	**2,92**							**304,54**	**701,60**	**108,65**	**179,46**
A. Fuel Combustion — Reference Approach[2]	70.970,53													
A. Fuel Combustion — Sectoral Approach[2]	72.609,33		31,08	2,91							302,50	656,41	95,76	176,63
1. Energy Industries	44.412,23		15,08	1,43							128,47	15,27	1,86	144,87
2. Manufacturing Industries and Construction	6.888,29		1,57	0,21							27,74	15,03	4,39	14,02
3. Transport	11.960,36		3,93	0,95							107,09	446,73	70,60	4,23
4. Other Sectors	9.172,55		10,49	0,32							39,20	179,38	18,91	13,51
5. Other	175,92		0,01	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	400,38		17,49	0,01							2,04	45,19	12,89	2,83
1. Solid Fuels	0,00		6,27	0,00							0,00	43,87	0,00	0,00
2. Oil and Natural Gas	400,38		11,22	0,01							2,04	1,32	12,89	2,83
2. Industrial Processes	**1.388,14**		**0,00**	**0,00**	**1.393,18**	**375,86**	**21,00**	**2,93**	**0,01**	**0,00**	**0,50**	**0,00**	**0,06**	**0,08**
A. Mineral Products	1.388,14		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,50	0,00	0,00	0,08
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,06	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					1.393,18	375,86	21,00	2,93	0,01	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**116,48**			**0,00**									**39,72**	
4. Agriculture	**0,00**	**0,00**	**186,23**	**28,52**							0,00	0,00	1,31	0,00
A. Enteric Fermentation			142,38											
B. Manure Management			43,85	1,57									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	26,95									1,31	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-941,00**	**0,00**	**0,00**							**0,00**	**0,00**	**8,95**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -941,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	8,95	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**62,10**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		62,10									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**6.806,48**		**0,15**	**0,37**							**140,05**	**12,78**	**3,90**	**72,02**
Aviation	1.986,51		0,04	0,07							8,08	1,56	0,37	0,13
Marine	4.819,97		0,11	0,30							131,97	11,23	3,53	71,90
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**6.448,51**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**74.514,33**	**-941,00**	**296,89**	**31,44**	**1.393,18**	**375,86**	**21,00**	**2,93**	**0,01**	**0,00**	**305,04**	**701,60**	**158,69**	**179,54**
1. Energy		**73.009,71**		**48,56**	**2,92**							**304,54**	**701,60**	**108,65**	**179,46**
A. Fuel Combustion	Reference Approach[2]	70.970,53													
	Sectoral Approach[2]	72.609,33		31,08	2,91							302,50	656,41	95,76	176,63
B. Fugitive Emissions from Fuels		400,38		17,49	0,01							2,04	45,19	12,89	2,83
2. Industrial Processes		**1.388,14**		**0,00**	**0,00**	**1.393,18**	**375,86**	**21,00**	**2,93**	**0,01**	**0,00**	**0,50**	**0,00**	**0,06**	**0,08**
3. Solvent and Other Product Use		**116,48**			**0,00**							**0,00**	**0,00**	**39,72**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**186,23**	**28,52**							**0,00**	**0,00**	**1,31**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-941,00**	**0,00**	**0,00**							**0,00**	**0,00**	**8,95**	**0,00**
6. Waste		**0,00**		**62,10**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**6.806,48**		**0,15**	**0,37**							**140,05**	**12,78**	**3,90**	**72,02**
Aviation		1.986,51		0,04	0,07							8,08	1,56	0,37	0,13
Marine		4.819,97		0,11	0,30							131,97	11,23	3,53	71,90
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.448,51**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**73.573,33**	**6.234,73**	**9.747,85**	**375,86**	**2,93**	**60,99**	**89.995,69**
1. Energy	**73.009,71**	**1.019,81**	**905,75**				**74.935,27**
A. Fuel Combustion (Sectoral Approach)	72.609,33	652,62	903,57				74.165,52
1. Energy Industries	44.412,23	316,75	444,39				45.173,36
2. Manufacturing Industries and Construction	6.888,29	32,88	63,88				6.985,04
3. Transport	11.960,36	82,59	295,00				12.337,95
4. Other Sectors	9.172,55	220,22	98,03				9.490,79
5. Other	175,92	0,18	2,28				178,38
B. Fugitive Emissions from Fuels	400,38	367,19	2,18				769,75
1. Solid Fuels	0,00	131,66	0,00				131,66
2. Oil and Natural Gas	400,38	235,53	2,18				638,09
2. Industrial Processes	**1.388,14**	**0,00**	**0,00**	**375,86**	**2,93**	**60,99**	**1.827,92**
A. Mineral Products	1.388,14	0,00	0,00				1.388,14
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	9,56	9,56
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				375,86	2,93	51,43	430,23
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**116,48**		**0,00**				**116,48**
4. Agriculture	**0,00**	**3.910,82**	**8.842,09**				**12.752,92**
A. Enteric Fermentation		2.989,98					2.989,98
B. Manure Management		920,84	486,95				1.407,80
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	8.355,14				8.355,14
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-941,00**	**0,00**	**0,00**				**-941,00**
6. Waste	**0,00**	**1.304,10**	**0,00**				1.304,10
A. Solid Waste Disposal on Land	0,00	1.304,10					1.304,10
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**6.806,48**	**3,09**	**115,62**				**6.925,19**
Aviation	1.986,51	0,80	21,57				2.008,88
Marine	4.819,97	2,29	94,05				4.916,31
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**6.448,51**						**6.448,51**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-941,00	-941,00			-941,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-941,00	-941,00	0,00	0,00	-941,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	90.936,69
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	89.995,69

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[(1)] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6																				

[(1)] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**73.093,97**	**73.573,33**	**0,66**	**5.857,70**	**6.234,73**	**6,44**	**9.970,68**	**9.747,85**	**-2,23**
1. Energy		**72.530,35**	**73.009,71**	**0,66**	**642,78**	**1.019,81**	**58,66**	**1.128,59**	**905,75**	**-19,74**
1.A.	Fuel Combustion Activities	72.152,76	72.609,33	0,63	276,88	652,62	135,70	1.126,53	903,57	-19,79
1.A.1.	Energy Industries	44.379,19	44.412,23	0,07	33,87	316,75	835,33	443,19	444,39	0,27
1.A.2.	Manufacturing Industries and Construction	6.331,96	6.888,29	8,79	15,59	32,88	110,84	119,80	63,88	-46,68
1.A.3.	Transport	11.989,66	11.960,36	-0,24	65,21	82,59	26,66	352,33	295,00	-16,27
1.A.4.	Other Sectors	9.276,03	9.172,55	-1,12	162,03	220,22	35,91	209,11	98,03	-53,12
1.A.5.	Other	175,92	175,92	0,00	0,18	0,18	-3,19	2,10	2,28	8,72
1.B.	Fugitive Emissions from Fuels	377,59	400,38	6,04	365,90	367,19	0,35	2,06	2,18	6,04
1.B.1.	Solid fuel	0,00	0,00	0,00	131,66	131,66	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	377,59	400,38	6,04	234,24	235,53	0,55	2,06	2,18	6,04
2. Industrial Processes		**1.388,14**	**1.388,14**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.388,14	1.388,14	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**116,48**	**116,48**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**3.910,82**	**3.910,82**	**0,00**	**8.842,09**	**8.842,09**	**0,00**
4.A.	Enteric Fermentation				2.989,98	2.989,98	0,00			
4.B.	Manure Management				920,84	920,84	0,00	486,95	486,95	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	8.355,14	8.355,14	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-941,00**	**-941,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-941,00	-941,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 2 of 2)

Denmark
1996
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste		**0,00**	**0,00**	**0,00**	**1.304,10**	**1.304,10**	**0,00**	**0,00**	**0,00**	**0,00**
6.A.	Solid Waste Disposal on Land	0,00	0,00	0,00	1.304,10	1.304,10	0,00			
6.B.	Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C.	Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D.	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
				0,00			0,00			0,00
Memo Items:										
International Bunkers		**6.806,56**	**6.806,48**	**0,00**	**3,13**	**3,09**	**-1,20**	**119,11**	**115,62**	**-2,93**
Multilateral Operations		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.070,69**	**6.448,51**	**6,22**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		HFCs			PFCs			SF_6		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions		**278,30**	**375,86**	**35,06**	**0,00**	**2,93**	**0,00**	**60,99**	**60,99**	**0,00**
2.C.3.	Aluminium Production				0,00	0,00	0,00	9,56	9,56	0,00
2.E.	Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F.	Consumption of Halocarbons and SF_6	278,30	375,86	35,06	0,00	2,93	0,00	51,43	51,43	0,00
	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6		**1.393,18**	**1.393,18**		**21,00**	**21,00**		**253,34**	**253,34**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	89.261,64	89.995,69	0,82
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	90.202,64	90.936,69	0,81

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1996
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
A recalculation has been carried out based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines.
Further, several small changes of activity rates occur. The change of overall fuel consumption is limited. In general the emission factors has not been changed.
However new emission factors for stationary engine and gas turbine plants have been included and existing emission factors are used for new activities.
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1996
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1996
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1996

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☑
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☑			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☐			
	Completeness table:			☐			
	Trend table:			☐			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	-1,57	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years			☑			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1997

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**63.506,60**	**50,56**	**2,74**	**264,34**	**653,98**	**100,35**	**109,79**
A. Fuel Combustion Activities (Sectoral Approach)	**62.941,60**	**32,60**	**2,73**	**261,37**	**608,18**	**88,94**	**107,67**
1. Energy Industries	**35.433,35**	**15,99**	**1,15**	**87,80**	**17,43**	**1,68**	**76,16**
a. Public Electricity and Heat Production	33.194,73	15,92	1,11	81,03	16,78	1,61	74,98
b. Petroleum Refining	1.101,37	0,01	0,02	2,01	0,25	0,01	1,17
c. Manufacture of Solid Fuels and Other Energy Industries	1.137,25	0,06	0,02	4,75	0,41	0,05	0,01
2. Manufacturing Industries and Construction	**6.763,47**	**1,64**	**0,20**	**32,13**	**17,03**	**4,58**	**15,38**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	6.763,47	1,64	0,20	32,13	17,03	4,58	15,38
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				32,13	17,03	4,58	15,38
3. Transport	**12.079,65**	**3,80**	**1,07**	**101,71**	**391,15**	**63,36**	**3,95**
a. Civil Aviation	190,31	0,01	0,01	0,89	1,10	0,18	0,01
b. Road Transportation	11.025,88	3,71	1,02	88,44	379,28	57,30	2,00
c. Railways	292,93	0,02	0,01	2,74	0,42	0,17	0,09
d. Navigation	570,53	0,07	0,03	9,65	10,35	5,71	1,84
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**8.494,30**	**11,17**	**0,30**	**39,73**	**182,56**	**19,33**	**12,18**
a. Commercial/Institutional	1.056,97	0,95	0,03	1,28	6,25	0,41	1,66
b. Residential	4.855,25	7,01	0,16	4,98	151,26	12,45	4,83
c. Agriculture/Forestry/Fisheries	2.582,07	3,21	0,11	33,48	25,05	6,47	5,69
5. Other *(please specify)* [1]	**170,83**	**0,01**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**565,01**	**17,96**	**0,01**	**2,97**	**45,80**	**11,40**	**2,12**
1. Solid Fuels	**0,00**	**6,27**	**0,00**	**0,00**	**43,87**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	6,27	0,00	0,00	43,87	0,00	0,00
Storage of solid fuel					43,87		
2. Oil and Natural Gas	**565,01**	**11,69**	**0,01**	**2,97**	**1,93**	**11,40**	**2,12**
a. Oil	0,00	0,05				6,90	1,98
b. Natural Gas	0,00	10,08				3,66	0,00
c. Venting and Flaring	565,01	1,56	0,01	2,97	1,93	0,84	0,14
Venting	0,00	0,00					0,14
Flaring	565,01	1,56	0,01	2,97	1,93	0,84	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**6.451,20**	**0,14**	**0,35**	**129,28**	**11,90**	**3,61**	**66,05**
Aviation	2.032,09	0,04	0,07	8,27	1,61	0,37	0,13
Marine	4.419,11	0,10	0,28	121,01	10,29	3,24	65,92
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**6.617,41**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**896.902,46**	NCV				**62.941,60**	**32,60**	**2,73**
Liquid Fuels	379.451,06	NCV	70,23	12,52	3,90	26.647,40	4,75	1,48
Solid Fuels	280.010,53	NCV	95,00	2,32	3,00	26.601,00	0,65	0,84
Gaseous Fuels	169.726,18	NCV	56,90	115,87	1,00	9.657,42	19,67	0,17
Biomass	67.223,95	NCV	98,44	111,35	3,58 [3]	6.617,41	7,49	0,24
Other Fuels	490,75	NCV	72,90	107,07	0,58	35,78	0,05	0,00
1.A.1. Energy Industries	**484.052,82**	NCV				**35.433,35**	**15,99**	**1,15**
Liquid Fuels	97.732,33	NCV	58,81	1,71	1,27	5.747,73	0,17	0,12
Solid Fuels	262.977,92	NCV	95,00	1,50	3,00	24.982,90	0,39	0,79
Gaseous Fuels	82.648,82	NCV	56,90	180,17	1,00	4.702,72	14,89	0,08
Biomass	40.693,75	NCV	96,77	13,14	3,80 [3]	3.938,12	0,53	0,15
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	445.277,95	NCV				33.194,73	15,92	1,11
Liquid Fuels	79.006,18	NCV	58,81	1,95	1,31	4.646,36	0,15	0,10
Solid Fuels	262.977,92	NCV	95,00	1,50	3,00	24.982,90	0,39	0,79
Gaseous Fuels	62.662,01	NCV	56,90	236,74	1,00	3.565,47	14,83	0,06
Biomass	40.631,85	NCV	96,79	13,16	3,81 [3]	3.932,94	0,53	0,15
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	18.726,15	NCV				1.101,37	0,01	0,02
Liquid Fuels	18.726,15	NCV	58,81	0,70	1,09	1.101,37	0,01	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	20.048,72	NCV				1.137,25	0,06	0,02
Liquid Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	19.986,82	NCV	56,90	2,80	1,00	1.137,25	0,06	0,02
Biomass	61,90	NCV	83,60	2,50	1,00 [3]	5,17	0,00	0,00
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**101.853,75**	NCV					**6.763,47**	**1,64**	**0,20**
Liquid Fuels	36.361,59	NCV	79,16	6,87	2,30		2.878,43	0,25	0,08
Solid Fuels	15.584,31	NCV	95,00	15,00	3,00		1.480,51	0,23	0,05
Gaseous Fuels	42.258,85	NCV	56,90	21,65	1,00		2.404,53	0,91	0,04
Biomass	7.649,00	NCV	101,39	31,07	3,90	[3]	775,50	0,24	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	101.853,75	NCV					6.763,47	1,64	0,20
Liquid Fuels	36.361,59	NCV	79,16	6,87	2,30		2.878,43	0,25	0,08
Solid Fuels	15.584,31	NCV	95,00	15,00	3,00		1.480,51	0,23	0,05
Gaseous Fuels	42.258,85	NCV	56,90	21,65	1,00		2.404,53	0,91	0,04
Biomass	7.649,00	NCV	101,39	31,07	3,90	[3]	775,50	0,24	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY Denmark
Fuel Combustion Activities - Sectoral Approach 1997
(Sheet 3 of 4) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**164.395,61**	NCV					**12.079,65**	**3,80**	**1,07**
Gasoline	86.357,39	NCV	72,97	38,96	8,27		6.301,56	3,36	0,71
Diesel	77.547,47	NCV	74,05	4,93	4,55		5.742,31	0,38	0,35
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	490,75	NCV	72,90	107,07	0,58		35,78	0,05	0,00
a. Civil Aviation	2.641,58	NCV					190,31	0,01	0,01
Aviation Gasoline	115,45	NCV	73,00	21,90	2,00		8,43	0,00	0,00
Jet Kerosene	2.526,13	NCV	72,00	1,63	3,90		181,88	0,00	0,01
b. Road Transportation	150.130,36	NCV					11.025,88	3,71	1,02
Gasoline	83.715,81	NCV	73,00	40,11	8,41		6.111,25	3,36	0,70
Diesel Oil	66.408,57	NCV	74,00	5,28	4,69		4.914,23	0,35	0,31
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	5,98	NCV					0,39	0,00	0,00
LPG	5,98	NCV	65,00	24,06	5,68		0,39	0,00	0,00
c. Railways	3.958,60	NCV					292,93	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	3.958,60	NCV	74,00	4,79	2,04		292,93	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	7.665,06	NCV					570,53	0,07	0,03
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	950,48	NCV	78,00	1,76	4,89		74,14	0,00	0,00
Gas/Diesel Oil	6.229,82	NCV	74,00	1,83	4,60		461,01	0,01	0,03
Other Fuels *(please specify)*	484,76	NCV					35,39	0,05	0,00
Kerosene, Gasoline, LPG	484,76	NCV	73,00	108,10	0,52		35,39	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**144.264,12**	NCV				**8.494,30**	**11,17**	**0,30**
Liquid Fuels	79.116,12	NCV	73,39	7,28	2,47	5.806,54	0,58	0,20
Solid Fuels	1.448,30	NCV	95,00	15,00	3,00	137,59	0,02	0,00
Gaseous Fuels	44.818,50	NCV	56,90	86,14	1,00	2.550,17	3,86	0,04
Biomass	18.881,20	NCV	100,83	355,55	2,96 [3]	1.903,79	6,71	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Commercial/Institutional	19.749,00	NCV				1.056,97	0,95	0,03
Liquid Fuels	8.428,10	NCV	66,75	5,51	1,71	562,55	0,05	0,01
Solid Fuels	43,40	NCV	95,00	15,00	3,00	4,12	0,00	0,00
Gaseous Fuels	8.616,90	NCV	56,90	77,94	1,00	490,30	0,67	0,01
Biomass	2.660,60	NCV	93,85	87,87	2,76 [3]	249,70	0,23	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Residential	86.174,12	NCV				4.855,25	7,01	0,16
Liquid Fuels	42.914,12	NCV	73,85	9,41	1,96	3.169,30	0,40	0,08
Solid Fuels	161,70	NCV	95,00	15,00	3,00	15,36	0,00	0,00
Gaseous Fuels	29.360,10	NCV	56,90	37,88	1,00	1.670,59	1,11	0,03
Biomass	13.738,20	NCV	102,00	400,00	3,00 [3]	1.401,30	5,50	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Agriculture/Forestry/Fisheries	38.340,99	NCV				2.582,07	3,21	0,11
Liquid Fuels	27.773,89	NCV	74,70	4,53	3,49	2.074,69	0,13	0,10
Solid Fuels	1.243,20	NCV	95,00	15,00	3,00	118,10	0,02	0,00
Gaseous Fuels	6.841,50	NCV	56,90	303,55	1,00	389,28	2,08	0,01
Biomass	2.482,40	NCV	101,84	396,47	2,98 [3]	252,80	0,98	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00			
1.A.5 Other (Not elsewhere specified)[4]	**2.336,16**	NCV				**170,83**	**0,01**	**0,01**
Liquid Fuels	2.336,16	NCV	73,12	4,20	3,63	170,83	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY Denmark

CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1) 1997

(Sheet 1 of 1) 2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	480.046,00	186.062,00	########		-2.230,00	366.067,00	1,00	NCV	366.067,00	20,00	7.321,34		7.321,34	1,00	26.844,91
		Orimulsion	TJ	0,00	41.607,00	3,00		992,00	40.612,00	1,00	NCV	40.612,00	22,00	893,46		893,46	1,00	3.276,03
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		53.042,00	68.923,00	8,00	-697,00	-15.192,00	1,00	NCV	-15.192,00	18,90	-287,13		-287,13	1,00	-1.052,81
		Jet Kerosene	TJ		19.279,00	5.255,00	28.213,00	164,00	-14.353,00	1,00	NCV	-14.353,00	19,50	-279,88		-279,88	1,00	-1.026,24
		Other Kerosene	TJ		0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	19,60	0,00		0,00	1,00	0,00
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		83.767,00	45.482,00	25.325,00	-366,00	13.326,00	1,00	NCV	13.326,00	20,20	269,19	0,00	269,19	1,00	987,01
		Residual Fuel Oil	TJ		32.832,00	49.276,00	32.427,00	-5.651,00	-43.220,00	1,00	NCV	-43.220,00	21,10	-911,94		-911,94	1,00	-3.343,79
		LPG	TJ		394,00	5.521,00		-166,00	-4.961,00	1,00	NCV	-4.961,00	17,20	-85,33	0,00	-85,33	1,00	-312,87
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		1.005,00	3.175,00		-367,00	-1.803,00	1,00	NCV	-1.803,00	20,00	-36,06	15,90	-51,96	1,00	-190,53
		Bitumen	TJ		9.651,00	285,00		323,00	9.043,00	1,00	NCV	9.043,00	22,00	198,95	214,19	-15,25	1,00	-55,90
		Lubricants	TJ		2.756,00	444,00	202,00	-125,00	2.235,00	1,00	NCV	2.235,00	20,00	44,70	24,59	20,11	1,00	73,74
		Petroleum Coke	TJ		7.863,00	2.628,00		-1.572,00	6.807,00	1,00	NCV	6.807,00	27,50	187,19		187,19	1,00	686,37
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												358.561,00		7.314,48	254,69	7.059,80		25.885,93
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	337.314,00	2.625,00	0,00	55.704,00	278.985,00	1,00	NCV	278.985,00	25,80	7.197,81		7.197,81	1,00	26.391,98
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	68,00	23,00		-1,00	46,00	1,00	NCV	46,00	27,60	1,27		1,27	1,00	4,66
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												279.031,00		7.199,08	0,00	7.199,08		26.396,64
Gaseous Fossil		Natural Gas (Dry)	TJ	295.052,00	0,00	########		13.150,00	165.035,00	1,00	NCV	165.035,00	15,30	2.525,04	0,00	2.525,04	1,00	9.258,46
Total												**802.627,00**		**17.038,60**	**254,69**	**16.783,92**		**61.541,03**
Biomass total												65.955,00		1.954,92	0,00	1.954,92		7.168,03
		Solid Biomass	TJ	62.941,00	606,00	0,00		0,00	63.547,00	1,00	NCV	63.547,00	29,90	1.900,06		1.900,06	1,00	6.966,87
		Liquid Biomass	TJ	14,00	0,00	0,00		0,00	14,00	1,00	NCV	14,00	20,00	0,28		0,28	1,00	1,03
		Gas Biomass	TJ	2.394,00	0,00	0,00		0,00	2.394,00	1,00	NCV	2.394,00	22,80	54,58		54,58	1,00	200,14

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

[2] If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	358,56	25.885,93	379,45	26.647,40	-5,51	-2,86
Solid Fuels (excluding international bunkers)	279,03	26.396,64	280,01	26.601,00	-0,35	-0,77
Gaseous Fuels	165,04	9.258,46	169,73	9.657,42	-2,76	-4,13
Other [3]	14,74	536,18	0,49	35,78	2.902,95	1.398,67
Total [3]	**817,36**	**62.077,20**	**829,68**	**62.941,60**	**-1,48**	**-1,37**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.
[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).
[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	994,00	0,80	20,00	15,90	58,31	
Lubricants	2.459,00	0,50	20,00	24,59	90,16	
Bitumen	9.736,00	1,00	22,00	214,19	785,37	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Fugitive Emissions from Solid Fuels

(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				6,27	0,00
Storage of solid fuel	12,94	0,48	0,00	6,27	

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 (kg/unit) [2]	CH_4 (kg/unit) [2]	N_2O (kg/unit) [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,05**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		0,00	0,00	0,00				
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	2.007.000	0,00	0,00			0,00	
vi. Other		Mg Crude	7.910.000	0,00	0,01			0,05	
1. B. 2. b. Natural Gas							**0,00**	**10,08**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	2.500.000	0,00	0,65			1,63	
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.000	0,00	2,22			8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**565,01**	**1,56**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	GJ	266.500	56,90	0,00	0,00	15,16		0,00
ii. Gas	*(e.g. PJ gas consumption)*	GJ	9.663.343	56,90	0,16	0,00	549,84	1,56	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**57.954,00**				**4.419,11**	**0,10**	**0,28**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	25.325,00	74,00	1,69	4,68	1.874,05	0,04	0,12
Residual Fuel Oil	32.629,00	78,00	1,76	4,89	2.545,06	0,06	0,16
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**28.223,36**				**2.032,09**	**0,04**	**0,07**
Jet Kerosene	28.212,64	72,00	1,34	2,53	2.031,31	0,04	0,07
Gasoline	10,72	73,00	21,93	1,96	0,78	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	11,68	88,32
Aviation	8,56	91,44

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.539,32**	**0,00**	**0,00**	**1.363,33**	**401,23**	**56,00**	**7,23**	**0,01**	**0,00**	**0,57**	**0,00**	**0,57**	**0,00**
A. Mineral Products	**1.539,32**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.425,55												
2. Lime Production	113,77												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,57**	**0,00**	**0,00**	**0,00**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00							0,57			
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
													0,00
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,57**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00											0,57	
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**1.363,33**	**401,23**	**56,00**	**7,23**	**0,01**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				908,83	214,92	56,00	7,23		0,00				
2. Foam Blowing				454,50	186,31		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				0,00	0,00		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,01	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.								0,01	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Emissions of CO_2, CH_4 and N_2O

(Sheet 1 of 2)

Denmark

1997

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.539,32**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.689,72	0,53			1.425,55					
2. Lime Production		522,02	0,22			113,77					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		0,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		0,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Emissions of CO_2, CH_4 and N_2O

(Sheet 2 of 2)

Denmark

1997

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		4,53	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**2,99**	**0,00**	**0,00**	**24,83**	**0,00**	**189,96**	**15,27**	**0,00**	**21,23**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**1,03**	**0,00**	**0,00**	**0,00**	**0,00**		**3,06**
C. Metal Production															**0,00**	**0,00**							**0,60**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							0,60
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**2,99**	**0,00**	**0,00**	**24,83**	**0,00**	**189,96**	**15,27**	**0,00**	**21,23**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**1,03**	**0,00**	**0,00**	**0,00**	**0,00**		**2,46**
1. Refrigeration and Air Conditioning Equipment		2,99			24,83		48,26	0,27		21,23							1,03						
2. Foam Blowing							141,70	15,00															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers																							
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,38
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		2,08
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																							2,08
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**1,94**	**0,00**	**0,00**	**69,53**	**0,00**	**246,95**	**2,14**	**0,00**	**80,68**	**0,00**	**0,00**	**0,00**	**401,23**	**0,00**	**0,00**	**7,23**	**0,00**	**0,00**	**0,00**	**0,00**	**7,23**	**73,09**
C. Metal Production															0,00	0,00						0,00	14,34
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	1,94	0,00	0,00	69,53	0,00	246,95	2,14	0,00	80,68	0,00	0,00	0,00	401,23	0,00	0,00	7,23	0,00	0,00	0,00	0,00	7,23	58,75
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	1,94	0,00	0,00	69,53	0,00	246,95	2,14	0,00	80,68	0,00	0,00	0,00	401,23	0,00	0,00	7,23	0,00	0,00	0,00	0,00	7,23	58,75
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1997

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				0,60	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	0,60	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.
[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Consumption of Halocarbons and SF_6

1997

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**115,30**	**0,00**	**39,30**
A. Paint Application	**74,41**		**23,88**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,30**
D. Other *(please specify)*	40,89	0,00	13,12
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	40,89		13,12

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**0,00**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**182,17**	**27,37**	**0,00**	**0,00**	**1,27**
A. Enteric Fermentation	**137,98**				
1. Cattle	119,07				
Dairy Cattle	69,72				
Non-Dairy Cattle	49,35				
2. Buffalo					
3. Sheep	1,14				
4. Goats					
5. Camels and Llamas					
6. Horses	0,70				
7. Mules and Asses					
8. Swine	17,07				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**44,18**	**1,45**			**0,00**
1. Cattle	15,28				
Dairy Cattle	13,15				
Non-Dairy Cattle	2,13				
2. Buffalo					
3. Sheep	0,07				
4. Goats					
5. Camels and Llamas					
6. Horses	0,04				
7. Mules and Asses					
8. Swine	28,07				
9. Poultry	0,72				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,21			
12. Solid Storage and Dry Lot		1,24			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**25,92**			**1,27**
1. Direct Soil Emissions		16,79			1,27
2. Animal Production		0,90			
3. Indirect Emissions		8,06			
4. Other *(please specify)*	0,00	0,18			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE
Enteric Fermentation
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	670			104,00
Non-Dairy Cattle	1.334			37,00
2. Buffalo	0			0,00
3. Sheep	142			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	39			18,00
7. Mules and Asses	0			0,00
8. Swine	11.383			1,50
9. Poultry	22.987			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b]		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Indicators:					
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	670							19,61
Non-Dairy Cattle	1.334							1,60
2. Buffalo	0							0,00
3. Sheep	207							0,32
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	39							1,10
7. Mules and Asses	0							0,00
8. Swine	17.831							1,57
9. Poultry	22.987							0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1997

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system (kg N_2O-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	670								Anaerobic lagoon	0,000
Dairy Cattle	1.334								Liquid system	0,000
Sheep	207								Solid storage and dry lot	0,000
Swine	17.831								Other	0,000
Poultry	22.987									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Rice Cultivation

(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR [1]	EMISSIONS
		Harvested area [2] (10^{-9} m^2/yr)	Organic amendments added[3]: type	(t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice[4]						
Total [4]		0,00				

[1] The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

[2] Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

[3] Specify dry weight or wet weight for organic amendments

[4] These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1997

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS
	Description	Value	Unit		(Gg N_2O)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**16,79**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	287.600.000	(kg N2O-N/kg N)[2]	0,012	5,54
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	239.750.000	(kg N2O-N/kg N)[2]	0,009	3,38
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	30.710.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,60
Crop Residue	Dry production of other crops (kg dry biomass/yr)	362.700.000	(kg N2O-N/kg dry biomass)[2]	0,013	7,12
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**30.850.000**	**(kg N2O-N/kg N)[2]**	**0,019**	**0,90**
Indirect Emissions					**8,06**
Atmospheric Deposition	(kg N/yr)	75.760.750	(kg N2O-N/kg N)[2]	0,010	1,19
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	174.800.000	(kg N2O-N/kg N)[2]	0,025	6,87
Other *(please specify)*					**0,18**
Sewage sludge used as fertilizer	(kg N/yr)	4.700.000	(kg N2O-N/kg N)[2]	0,013	0,09
Industrial waste used as fertilizer	(kg N/yr)	4.360.000	(kg N2O-N/kg N)[2]	0,013	0,09
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1997

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

Field Burning of Agricultural Residues

(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-951,00**	**-951,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-951,00**	**-951,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-951,00	-951,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)

[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section D

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark
1997
2002 Apr 15

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1997

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1997

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

	Climate [a]	land-use/ management system [a]	Soil type					
Year			High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**59,10**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**59,10**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	59,10					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[(1)] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	2.083,00				0,03	0,00	59,10	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

(1) Actual emissions (after recovery).

(2) CH_4 recovered and flared or utilized.

(3) Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

(a) Specify whether total or urban population is used and the rationale for doing so.

(b) See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

(c) For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)		(kg/kg DC)	(Gg)		(Gg)
Industrial Wastewater	1.000.000,00				0,00	0,00		0,00		
Domestic and Commercial Wastewater	1.000.000,00				0,00	0,00		0,00		
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**65.161,22**	**-951,00**	**291,83**	**30,11**	**1.363,33**	**401,23**	**56,00**	**7,23**	**0,01**	**0,00**	**264,91**	**653,98**	**150,49**	**109,79**
1. Energy	**63.506,60**		**50,56**	**2,74**							**264,34**	**653,98**	**100,35**	**109,79**
A. Fuel Combustion — Reference Approach[2]	61.541,03													
A. Fuel Combustion — Sectoral Approach[2]	62.941,60		32,60	2,73							261,37	608,18	88,94	107,67
1. Energy Industries	35.433,35		15,99	1,15							87,80	17,43	1,68	76,16
2. Manufacturing Industries and Construction	6.763,47		1,64	0,20							32,13	17,03	4,58	15,38
3. Transport	12.079,65		3,80	1,07							101,71	391,15	63,36	3,95
4. Other Sectors	8.494,30		11,17	0,30							39,73	182,56	19,33	12,18
5. Other	170,83		0,01	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	565,01		17,96	0,01							2,97	45,80	11,40	2,12
1. Solid Fuels	0,00		6,27	0,00							0,00	43,87	0,00	0,00
2. Oil and Natural Gas	565,01		11,69	0,01							2,97	1,93	11,40	2,12
2. Industrial Processes	**1.539,32**		**0,00**	**0,00**	**1.363,33**	**401,23**	**56,00**	**7,23**	**0,01**	**0,00**	**0,57**	**0,00**	**0,57**	**0,00**
A. Mineral Products	1.539,32		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,57	0,00	0,00	0,00
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,57	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					1.363,33	401,23	56,00	7,23	0,01	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**115,30**			**0,00**									**39,30**	
4. Agriculture	**0,00**	**0,00**	**182,17**	**27,37**							0,00	0,00	1,27	0,00
A. Enteric Fermentation			137,98											
B. Manure Management			44,18	1,45									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	25,92									1,27	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-951,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,01**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -951,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	9,01	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**59,10**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		59,10									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**6.451,20**		**0,14**	**0,35**							**129,28**	**11,90**	**3,61**	**66,05**
Aviation	2.032,09		0,04	0,07							8,27	1,61	0,37	0,13
Marine	4.419,11		0,10	0,28							121,01	10,29	3,24	65,92
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**6.617,41**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**65.161,22**	**-951,00**	**291,83**	**30,11**	**1.363,33**	**401,23**	**56,00**	**7,23**	**0,01**	**0,00**	**264,91**	**653,98**	**150,49**	**109,79**
1. Energy		**63.506,60**		**50,56**	**2,74**							**264,34**	**653,98**	**100,35**	**109,79**
A. Fuel Combustion	Reference Approach[2]	61.541,03													
	Sectoral Approach[2]	62.941,60		32,60	2,73							261,37	608,18	88,94	107,67
B. Fugitive Emissions from Fuels		565,01		17,96	0,01							2,97	45,80	11,40	2,12
2. Industrial Processes		**1.539,32**		**0,00**	**0,00**	**1.363,33**	**401,23**	**56,00**	**7,23**	**0,01**	**0,00**	**0,57**	**0,00**	**0,57**	**0,00**
3. Solvent and Other Product Use		**115,30**			**0,00**							**0,00**	**0,00**	**39,30**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**182,17**	**27,37**							**0,00**	**0,00**	**1,27**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-951,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,01**	**0,00**
6. Waste		**0,00**		**59,10**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**6.451,20**		**0,14**	**0,35**							**129,28**	**11,90**	**3,61**	**66,05**
Aviation		2.032,09		0,04	0,07							8,27	1,61	0,37	0,13
Marine		4.419,11		0,10	0,28							121,01	10,29	3,24	65,92
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.617,41**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**64.210,22**	**6.128,41**	**9.334,84**	**401,23**	**7,23**	**73,09**	**80.155,03**
1. Energy	**63.506,60**	**1.061,82**	**849,07**				**65.417,49**
A. Fuel Combustion (Sectoral Approach)	62.941,60	684,68	845,99				64.472,26
1. Energy Industries	35.433,35	335,72	356,70				36.125,76
2. Manufacturing Industries and Construction	6.763,47	34,36	62,73				6.860,56
3. Transport	12.079,65	79,79	330,74				12.490,18
4. Other Sectors	8.494,30	234,60	93,19				8.822,09
5. Other	170,83	0,21	2,63				173,66
B. Fugitive Emissions from Fuels	565,01	377,14	3,08				945,23
1. Solid Fuels	0,00	131,66	0,00				131,66
2. Oil and Natural Gas	565,01	245,48	3,08				813,57
2. Industrial Processes	**1.539,32**	**0,00**	**0,00**	**401,23**	**7,23**	**73,09**	**2.020,87**
A. Mineral Products	1.539,32	0,00	0,00				1.539,32
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	14,34	14,34
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				401,23	7,23	58,75	467,21
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**115,30**		**0,00**				**115,30**
4. Agriculture	**0,00**	**3.825,50**	**8.485,77**				**12.311,27**
A. Enteric Fermentation		2.897,64					2.897,64
B. Manure Management		927,85	449,69				1.377,54
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	8.036,08				8.036,08
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-951,00**	**0,00**	**0,00**				**-951,00**
6. Waste	**0,00**	**1.241,10**	**0,00**				1.241,10
A. Solid Waste Disposal on Land	0,00	1.241,10					1.241,10
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**6.451,20**	**2,90**	**108,35**				**6.562,46**
Aviation	2.032,09	0,80	22,12				2.055,01
Marine	4.419,11	2,10	86,23				4.507,45
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**6.617,41**						**6.617,41**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-951,00	-951,00			-951,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-951,00	-951,00	0,00	0,00	-951,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	81.106,03
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	80.155,03

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[(1)] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF																				

[(1)] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1997
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**63.589,12**	**64.210,22**	**0,98**	**5.710,59**	**6.128,41**	**7,32**	**9.582,07**	**9.334,84**	**-2,58**
1. Energy		**62.885,50**	**63.506,60**	**0,99**	**644,00**	**1.061,82**	**64,88**	**1.096,30**	**849,07**	**-22,55**
1.A.	Fuel Combustion Activities	62.373,88	62.941,60	0,91	270,04	684,68	153,55	1.093,51	845,99	-22,64
1.A.1.	Energy Industries	35.275,45	35.433,35	0,45	30,67	335,72	994,56	354,90	356,70	0,50
1.A.2.	Manufacturing Industries and Construction	6.304,63	6.763,47	7,28	16,13	34,36	113,00	123,25	62,73	-49,10
1.A.3.	Transport	12.098,06	12.079,65	-0,15	65,44	79,79	21,94	402,74	330,74	-17,88
1.A.4.	Other Sectors	8.524,91	8.494,30	-0,36	157,58	234,60	48,88	210,35	93,19	-55,70
1.A.5.	Other	170,83	170,83	0,00	0,22	0,21	-6,99	2,28	2,63	15,66
1.B.	Fugitive Emissions from Fuels	511,62	565,01	10,44	373,96	377,14	0,85	2,79	3,08	10,43
1.B.1.	Solid fuel	0,00	0,00	0,00	131,66	131,66	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	511,62	565,01	10,44	242,30	245,48	1,31	2,79	3,08	10,43
2. Industrial Processes		**1.539,32**	**1.539,32**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.539,32	1.539,32	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**115,30**	**115,30**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**3.825,50**	**3.825,50**	**0,00**	**8.485,77**	**8.485,77**	**0,00**
4.A.	Enteric Fermentation				2.897,64	2.897,64	0,00			
4.B.	Manure Management				927,85	927,85	0,00	449,69	449,69	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	8.036,08	8.036,08	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-951,00**	**-951,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-951,00	-951,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA Denmark

Recalculated year: 2002 1997

(Sheet 2 of 2) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste		**0,00**	**0,00**	**0,00**	**1.241,10**	**1.241,10**	**0,00**	**0,00**	**0,00**	**0,00**
6.A.	Solid Waste Disposal on Land	0,00	0,00	0,00	1.241,10	1.241,10	0,00			
6.B.	Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C.	Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D.	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
				0,00			0,00			0,00
Memo Items:										
International Bunkers		**6.448,62**	**6.451,20**	**0,04**	**2,94**	**2,90**	**-1,25**	**111,95**	**108,35**	**-3,21**
Multilateral Operations		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.287,57**	**6.617,41**	**5,25**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		HFCs			PFCs			SF_6		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions		**343,57**	**401,23**	**16,78**	**3,50**	**7,23**	**106,60**	**73,09**	**73,09**	**0,00**
2.C.3.	Aluminium Production				0,00	0,00	0,00	14,34	14,34	0,00
2.E.	Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F.	Consumption of Halocarbons and SF_6	343,57	401,23	16,78	3,50	7,23	106,60	58,75	58,75	0,00
	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6		**1.383,13**	**1.363,33**		**56,00**	**56,00**		**286,80**	**286,80**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	79.301,94	80.155,03	1,08
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	80.252,94	81.106,03	1,06

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1997
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
A recalculation has been carried out based on revised Danish energy statistics. The energy statistics now specifies fuel consumption of stationary engines and gas turbines.
Further, several small changes of activity rates occur. The change of overall fuel consumption is limited. In general the emission factors has not been changed.
However new emission factors for stationary engine and gas turbine plants have been included and existing emission factors are used for new activities.
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1997
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1997
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1997

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☑
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☐			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☑			
	Completeness table:			☐			
	Trend table:			☑			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	-1,37	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years			☑			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1998

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**58.455,62**	**48,03**	**2,61**	**237,68**	**656,01**	**94,62**	**75,35**
A. Fuel Combustion Activities (Sectoral Approach)	**58.033,37**	**32,79**	**2,61**	**235,50**	**623,30**	**83,84**	**73,84**
1. Energy Industries	**31.506,24**	**19,56**	**1,01**	**72,98**	**13,44**	**1,68**	**55,20**
a. Public Electricity and Heat Production	29.246,20	19,46	0,97	66,08	12,66	1,59	54,26
b. Petroleum Refining	951,05	0,00	0,02	1,63	0,22	0,00	0,93
c. Manufacture of Solid Fuels and Other Energy Industries	1.309,00	0,10	0,02	5,27	0,56	0,09	0,01
2. Manufacturing Industries and Construction	**6.081,49**	**1,17**	**0,18**	**27,94**	**18,81**	**4,53**	**10,13**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	6.081,49	1,17	0,18	27,94	18,81	4,53	10,13
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				27,94	18,81	4,53	10,13
3. Transport	**12.102,22**	**3,61**	**1,12**	**96,53**	**366,74**	**59,23**	**3,72**
a. Civil Aviation	167,74	0,01	0,01	0,79	0,98	0,16	0,01
b. Road Transportation	11.219,08	3,53	1,08	85,63	355,37	53,33	1,96
c. Railways	247,03	0,02	0,01	2,31	0,35	0,14	0,08
d. Navigation	468,37	0,06	0,03	7,80	10,05	5,59	1,67
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**8.139,38**	**8,43**	**0,29**	**38,05**	**224,31**	**18,40**	**4,79**
a. Commercial/Institutional	898,78	0,65	0,03	1,00	5,90	0,37	0,48
b. Residential	4.710,29	5,65	0,15	3,99	172,44	11,64	1,44
c. Agriculture/Forestry/Fisheries	2.530,31	2,13	0,11	33,06	45,98	6,39	2,87
5. Other *(please specify)* [1]	**204,03**	**0,01**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**422,25**	**15,24**	**0,01**	**2,17**	**32,71**	**10,79**	**1,51**
1. Solid Fuels	**0,00**	**3,97**	**0,00**	**0,00**	**31,29**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	3,97	0,00	0,00	31,29	0,00	0,00
Storage of solid fuel					31,29		
2. Oil and Natural Gas	**422,25**	**11,27**	**0,01**	**2,17**	**1,42**	**10,79**	**1,51**
a. Oil	0,00	0,05				6,50	1,44
b. Natural Gas	0,00	10,08				3,66	
c. Venting and Flaring	422,25	1,14	0,01	2,17	1,42	0,62	0,07
Venting	0,00	0,00					0,07
Flaring	422,25	1,14	0,01	2,17	1,42	0,62	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**6.614,00**	**0,14**	**0,36**	**130,29**	**12,02**	**3,64**	**60,31**
Aviation	2.185,02	0,04	0,08	8,90	1,70	0,39	0,14
Marine	4.428,98	0,10	0,28	121,39	10,33	3,25	60,17
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**6.336,83**						

[1] Include military fuel use under this category

[2] Please do not include in energy totals

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**842.785,67**	NCV				**58.033,37**	**32,79**	**2,61**
Liquid Fuels	364.939,76	NCV	70,10	12,36	4,13	25.581,54	4,51	1,51
Solid Fuels	233.354,51	NCV	94,98	2,26	2,93	22.163,61	0,53	0,68
Gaseous Fuels	180.201,99	NCV	56,90	109,37	1,00	10.252,86	19,71	0,18
Biomass	63.804,64	NCV	99,32	125,15	3,62 [3]	6.336,83	7,98	0,23
Other Fuels	484,78	NCV	72,94	107,46	0,56	35,36	0,05	0,00
1.A.1. Energy Industries	**446.590,68**	NCV				**31.506,24**	**19,56**	**1,01**
Liquid Fuels	90.295,38	NCV	57,86	1,58	1,22	5.224,66	0,14	0,11
Solid Fuels	219.612,32	NCV	94,98	1,47	2,93	20.858,10	0,32	0,64
Gaseous Fuels	95.327,35	NCV	56,89	184,76	1,00	5.423,49	17,61	0,10
Biomass	41.355,64	NCV	98,35	35,79	3,86 [3]	4.067,48	1,48	0,16
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	407.285,88	NCV				29.246,20	19,46	0,97
Liquid Fuels	73.975,57	NCV	57,75	1,86	1,26	4.272,45	0,14	0,09
Solid Fuels	219.612,32	NCV	94,98	1,47	2,93	20.858,10	0,32	0,64
Gaseous Fuels	72.342,36	NCV	56,89	242,11	1,00	4.115,64	17,52	0,07
Biomass	41.355,64	NCV	98,35	35,79	3,86 [3]	4.067,48	1,48	0,16
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	16.304,21	NCV				951,05	0,00	0,02
Liquid Fuels	16.304,21	NCV	58,33	0,27	1,07	951,05	0,00	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	23.000,60	NCV				1.309,00	0,10	0,02
Liquid Fuels	15,60	NCV	74,00	1,47	1,99	1,15	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	22.984,99	NCV	56,90	4,23	1,00	1.307,85	0,10	0,02
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**91.894,07**	NCV					**6.081,49**	**1,17**	**0,18**
Liquid Fuels	32.557,56	NCV	77,61	7,36	2,32		2.526,63	0,24	0,08
Solid Fuels	12.709,17	NCV	95,00	15,00	3,00		1.207,37	0,19	0,04
Gaseous Fuels	41.256,40	NCV	56,90	13,83	1,00		2.347,49	0,57	0,04
Biomass	5.370,95	NCV	101,69	31,55	3,95	[3]	546,17	0,17	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	91.894,07	NCV					6.081,49	1,17	0,18
Liquid Fuels	32.557,56	NCV	77,61	7,36	2,32		2.526,63	0,24	0,08
Solid Fuels	12.709,17	NCV	95,00	15,00	3,00		1.207,37	0,19	0,04
Gaseous Fuels	41.256,40	NCV	56,90	13,83	1,00		2.347,49	0,57	0,04
Biomass	5.370,95	NCV	101,69	31,55	3,95	[3]	546,17	0,17	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 3 of 4)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**164.694,72**	NCV					**12.102,22**	**3,61**	**1,12**
Gasoline	87.804,59	NCV	72,97	36,29	8,81		6.407,51	3,19	0,77
Diesel	76.405,36	NCV	74,07	4,92	4,57		5.659,35	0,38	0,35
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	484,78	NCV	72,94	107,46	0,56		35,36	0,05	0,00
a. Civil Aviation	2.328,32	NCV					167,74	0,01	0,01
Aviation Gasoline	103,55	NCV	73,00	21,90	2,00		7,56	0,00	0,00
Jet Kerosene	2.224,76	NCV	72,00	1,62	3,83		160,18	0,00	0,01
b. Road Transportation	152.764,74	NCV					11.219,08	3,53	1,08
Gasoline	85.476,27	NCV	73,00	37,21	8,94		6.239,77	3,18	0,76
Diesel Oil	67.284,82	NCV	74,00	5,19	4,69		4.979,08	0,35	0,32
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	3,65	NCV					0,24	0,00	0,00
LPG	3,65	NCV	65,00	23,55	5,75		0,24	0,00	0,00
c. Railways	3.338,27	NCV					247,03	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	3.338,27	NCV	74,00	4,77	2,04		247,03	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	6.263,39	NCV					468,37	0,06	0,03
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	1.340,07	NCV	78,00	1,76	4,89		104,53	0,00	0,01
Gas/Diesel Oil	4.442,20	NCV	74,00	1,88	4,56		328,72	0,01	0,02
Other Fuels *(please specify)*	481,12	NCV					35,12	0,05	0,00
Kerosene, Gasoline, LPG	481,12	NCV	73,00	108,09	0,52		35,12	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**136.814,40**	NCV				**8.139,38**	**8,43**	**0,29**
Liquid Fuels	75.085,08	NCV	74,04	7,41	2,53	5.559,36	0,56	0,19
Solid Fuels	1.033,02	NCV	95,00	15,00	3,00	98,14	0,02	0,00
Gaseous Fuels	43.618,24	NCV	56,90	35,00	1,00	2.481,88	1,53	0,04
Biomass	17.078,05	NCV	100,90	370,96	2,96 [3]	1.723,18	6,34	0,05
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Commercial/Institutional	16.011,87	NCV				898,78	0,65	0,03
Liquid Fuels	6.203,00	NCV	74,30	6,58	2,00	460,86	0,04	0,01
Solid Fuels	2,31	NCV	95,00	15,18	3,04	0,22	0,00	0,00
Gaseous Fuels	7.692,51	NCV	56,90	30,57	1,00	437,70	0,24	0,01
Biomass	2.114,06	NCV	93,83	177,32	2,72 [3]	198,37	0,37	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Residential	83.070,40	NCV				4.710,29	5,65	0,15
Liquid Fuels	41.069,93	NCV	73,70	9,51	1,96	3.026,94	0,39	0,08
Solid Fuels	127,15	NCV	95,00	15,00	3,00	12,08	0,00	0,00
Gaseous Fuels	29.372,08	NCV	56,90	8,93	1,00	1.671,27	0,26	0,03
Biomass	12.501,24	NCV	101,99	399,68	3,00 [3]	1.274,94	5,00	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Agriculture/Forestry/Fisheries	37.732,13	NCV				2.530,31	2,13	0,11
Liquid Fuels	27.812,15	NCV	74,48	4,50	3,50	2.071,57	0,13	0,10
Solid Fuels	903,57	NCV	95,00	15,00	3,00	85,84	0,01	0,00
Gaseous Fuels	6.553,65	NCV	56,90	157,05	1,00	372,90	1,03	0,01
Biomass	2.462,76	NCV	101,46	391,35	2,94 [3]	249,87	0,96	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00			
1.A.5 Other (Not elsewhere specified)[4]	**2.791,80**	NCV				**204,03**	**0,01**	**0,01**
Liquid Fuels	2.791,80	NCV	73,08	4,07	3,59	204,03	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	492.386,00	202.439,00	########		-2.505,00	340.946,00	1,00	NCV	340.946,00	20,00	6.818,92		6.818,92	1,00	25.002,71
		Orimulsion	TJ	0,00	33.377,00	3,00		669,00	32.705,00	1,00	NCV	32.705,00	22,00	719,51		719,51	1,00	2.638,20
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		47.598,00	52.573,00	7,00	4.495,00	-9.477,00	1,00	NCV	-9.477,00	18,90	-179,12		-179,12	1,00	-656,76
		Jet Kerosene	TJ		31.722,00	4.944,00	30.336,00	5.377,00	-8.935,00	1,00	NCV	-8.935,00	19,50	-174,23		-174,23	1,00	-638,85
		Other Kerosene	TJ		0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	19,60	0,00		0,00	1,00	0,00
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		93.859,00	29.581,00	31.243,00	12.337,00	20.698,00	1,00	NCV	20.698,00	20,20	418,10	0,00	418,10	1,00	1.533,03
		Residual Fuel Oil	TJ		36.619,00	44.792,00	26.952,00	-5.120,00	-30.005,00	1,00	NCV	-30.005,00	21,10	-633,11		-633,11	1,00	-2.321,39
		LPG	TJ		643,00	3.139,00		43,00	-2.539,00	1,00	NCV	-2.539,00	17,20	-43,67	0,00	-43,67	1,00	-160,13
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		950,00	526,00		0,00	424,00	1,00	NCV	424,00	20,00	8,48	14,99	-6,51	1,00	-23,88
		Bitumen	TJ		8.227,00	298,00		-470,00	8.399,00	1,00	NCV	8.399,00	22,00	184,78	188,72	-3,94	1,00	-14,44
		Lubricants	TJ		2.618,00	358,00	189,00	-117,00	2.188,00	1,00	NCV	2.188,00	20,00	43,76	22,10	21,66	1,00	79,42
		Petroleum Coke	TJ		7.904,00	488,00		719,00	6.697,00	1,00	NCV	6.697,00	27,50	184,17		184,17	1,00	675,28
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												361.101,00		7.347,59	225,81	7.121,78		26.113,20
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	202.613,00	4.275,00	0,00	-37.554,00	235.892,00	1,00	NCV	235.892,00	25,80	6.086,01		6.086,01	1,00	22.315,38
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	48,00	8,00		2,00	38,00	1,00	NCV	38,00	27,60	1,05		1,05	1,00	3,85
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												235.930,00		6.087,06	0,00	6.087,06		22.319,23
Gaseous Fossil		Natural Gas (Dry)	TJ	286.142,00	0,00	########		1.350,00	179.370,00	1,00	NCV	179.370,00	15,30	2.744,36	0,00	2.744,36	1,00	10.062,66
Total												**776.401,00**		**16.179,01**	**225,81**	**15.953,21**		**58.495,09**
Biomass total												65.533,00		1.940,34	0,00	1.940,34		7.114,58
		Solid Biomass	TJ	62.042,00	807,00	0,00		0,00	62.849,00	1,00	NCV	62.849,00	29,90	1.879,19		1.879,19	1,00	6.890,35
		Liquid Biomass	TJ	14,00	0,00	0,00		0,00	14,00	1,00	NCV	14,00	20,00	0,28		0,28	1,00	1,03
		Gas Biomass	TJ	2.670,00	0,00	0,00		0,00	2.670,00	1,00	NCV	2.670,00	22,80	60,88		60,88	1,00	223,21

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

[2] If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	361,10	26.113,20	364,94	25.581,54	-1,05	2,08
Solid Fuels (excluding international bunkers)	235,93	22.319,23	233,35	22.163,61	1,10	0,70
Gaseous Fuels	179,37	10.062,66	180,20	10.252,86	-0,46	-1,86
Other [3]	14,73	507,85	0,48	35,36	2.937,54	1.336,24
Total [3]	**791,13**	**59.002,94**	**778,98**	**58.033,37**	**1,56**	**1,67**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable. Inclusion of these fuels in future inventories will be considered.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	937,00	0,80	20,00	14,99	54,97	
Lubricants	2.210,00	0,50	20,00	22,10	81,03	
Bitumen	8.578,00	1,00	22,00	188,72	691,96	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Denmark

Fugitive Emissions from Solid Fuels

1998

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				3,97	0,00
	9,23	0,43	0,00	3,97	

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 (kg/unit) [2]	CH_4 (kg/unit) [2]	N_2O (kg/unit) [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,05**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		0,00	0,00	0,00				
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	2.030.000	0,00	0,00			0,00	
vi. Other		Mg Crude	7.906.270	0,00	0,01			0,05	
1. B. 2. b. Natural Gas							**0,00**	**10,08**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	2.500.000	0,00	0,65			1,63	
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.000	0,00	2,22			8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**422,25**	**1,14**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	GJ	339.236	56,90	0,00	0,00	19,30		0,00
ii. Gas	*(e.g. PJ gas consumption)*	GJ	7.081.740	56,90	0,16	0,00	402,95	1,14	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**58.384,00**				**4.428,98**	**0,10**	**0,28**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	31.243,00	74,00	1,69	4,68	2.311,98	0,05	0,15
Residual Fuel Oil	27.141,00	78,00	1,76	4,89	2.117,00	0,05	0,13
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**30.347,39**				**2.185,02**	**0,04**	**0,08**
Jet Kerosene	30.336,69	72,00	1,33	2,52	2.184,24	0,04	0,08
Gasoline	10,70	73,00	21,87	1,96	0,78	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	9,69	90,31
Aviation	7,13	92,87

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.436,25**	**0,00**	**0,00**	**1.882,09**	**502,64**	**42,00**	**15,03**	**0,01**	**0,00**	**0,35**	**0,00**	**0,50**	**0,00**
A. Mineral Products	**1.436,25**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.332,92												
2. Lime Production	103,33												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,35**	**0,00**	**0,00**	**0,00**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00							0,35			
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
													0,00
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium andMagnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
D. Other Production	**0,00**									**0,00**	**0,00**	**0,50**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00											0,50	
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**1.882,09**	**502,64**	**42,00**	**15,03**	**0,01**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				1.298,04	283,72	42,00	15,03		0,00				
2. Foam Blowing				582,74	217,34		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				1,30	1,56		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,01	0,01	0,00	0,00	0,01	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as				0,01	0,01			0,01	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1998

(Sheet 1 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.436,25**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.527,67	0,53			1.332,92					
2. Lime Production		512,18	0,20			103,33					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		0,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		0,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1998

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		4,53	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**4,39**	**0,00**	**0,00**	**32,63**	**0,00**	**230,60**	**9,92**	**0,00**	**28,23**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**2,15**	**0,00**	**0,00**	**0,00**	**0,00**		**2,49**
C. Metal Production															**0,00**	**0,00**							**0,70**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							0,70
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**4,39**	**0,00**	**0,00**	**32,63**	**0,00**	**230,60**	**9,92**	**0,00**	**28,23**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**2,15**	**0,00**	**0,00**	**0,00**	**0,00**		**1,79**
1. Refrigeration and Air Conditioning Equipment		4,39			32,63		63,19	0,77		28,23							2,15						
2. Foam Blowing							166,20	9,15															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers							1,20																
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,27
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,01	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		1,52
							0,01																1,52
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**2,86**	**0,00**	**0,00**	**91,36**	**0,00**	**299,78**	**1,39**	**0,00**	**107,26**	**0,00**	**0,00**	**0,00**	**502,64**	**0,00**	**0,00**	**15,03**	**0,00**	**0,00**	**0,00**	**0,00**	**15,03**	**59,46**
C. Metal Production															0,00	0,00						0,00	16,73
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	2,86	0,00	0,00	91,36	0,00	299,78	1,39	0,00	107,26	0,00	0,00	0,00	502,64	0,00	0,00	15,03	0,00	0,00	0,00	0,00	15,03	42,73
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	2,86	0,00	0,00	91,36	0,00	299,78	1,39	0,00	107,26	0,00	0,00	0,00	502,64	0,00	0,00	15,03	0,00	0,00	0,00	0,00	15,03	42,73
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1998

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				0,70	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	0,70	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Consumption of Halocarbons and SF_6

1998

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**114,11**	**0,00**	**38,86**
A. Paint Application	**73,73**		**23,66**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,25**
D. Other *(please specify)*	40,38	0,00	12,96
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	40,38		12,96

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**0,00**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**183,51**	**27,62**	**0,00**	**0,00**	**1,22**
A. Enteric Fermentation	**138,07**				
1. Cattle	117,99				
Dairy Cattle	69,58				
Non-Dairy Cattle	48,41				
2. Buffalo					
3. Sheep	1,25				
4. Goats					
5. Camels and Llamas					
6. Horses	0,69				
7. Mules and Asses					
8. Swine	18,14				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**45,45**	**1,50**			**0,00**
1. Cattle	15,00				
Dairy Cattle	12,90				
Non-Dairy Cattle	2,09				
2. Buffalo					
3. Sheep	0,07				
4. Goats					
5. Camels and Llamas					
6. Horses	0,04				
7. Mules and Asses					
8. Swine	29,66				
9. Poultry	0,68				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,22			
12. Solid Storage and Dry Lot		1,29			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**26,12**			**1,22**
1. Direct Soil Emissions		16,91			1,22
2. Animal Production		0,83			
3. Indirect Emissions		8,09			
4. Other *(please specify)*	0,00	0,28			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CC_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

Enteric Fermentation

(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size [2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	669			104,00
Non-Dairy Cattle	1.308			37,00
2. Buffalo	0			0,00
3. Sheep	156			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	38			18,00
7. Mules and Asses	0			0,00
8. Swine	12.095			1,50
9. Poultry	22.295			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals [b]		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Indicators:					
Weight	(kg)				
Feeding situation [c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	CH_4
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	669							19,29
Non-Dairy Cattle	1.308							1,60
2. Buffalo	0							0,00
3. Sheep	226							0,32
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	38							1,10
7. Mules and Asses	0							0,00
8. Swine	20.719							1,43
9. Poultry	22.295							0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lo	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1998

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system ($kg\ N_2O$-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	669								Anaerobic lagoon	0,000
Dairy Cattle	1.308								Liquid system	0,000
Sheep	226								Solid storage and dry lot	0,000
Swine	20.719								Other	0,000
Poultry	22.295									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format

[2] AWMS - Animal Waste Management System

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Rice Cultivation

1998

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR [1]	EMISSIONS
		Harvested area [2] (10^{-9} m^2/yr)	Organic amendments added[3]: type	Organic amendments added[3]: (t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice[4]						
Total [4]		0,00				

[1] The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organi amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

[2] Harvested area is the cultivated area multiplied by the number of cropping seasons per yea

[3] Specify dry weight or wet weight for organic amendments

[4] These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculation

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1998

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS
	Description	Value	Unit		(Gg N_2O)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**16,91**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	283.200.000	(kg N2O-N/kg N)[2]	0,012	5,45
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	248.330.000	(kg N2O-N/kg N)[2]	0,009	3,50
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	32.190.000	(kg N2O-N/kg dry biomass)[2]	0,012	0,63
Crop Residue	Dry production of other crops (kg dry biomass/yr)	365.770.000	(kg N2O-N/kg dry biomass)[2]	0,013	7,18
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.440	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**28.470.000**	**(kg N2O-N/kg N)[2]**	**0,019**	**0,83**
Indirect Emissions					**8,09**
Atmospheric Deposition	(kg N/yr)	77.934.000	(kg N2O-N/kg N)[2]	0,010	1,22
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	174.800.000	(kg N2O-N/kg N)[2]	0,025	6,87
Other *(please specify)*					**0,28**
Sewage sludge used as fertilizer	(kg N/yr)	4.020.000	(kg N2O-N/kg N)[2]	0,013	0,08
Industrial waste used as fertilizer	(kg N/yr)	10.460.000	(kg N2O-N/kg N)[2]	0,013	0,21
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1998

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Field Burning of Agricultural Residues

1998

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-964,00**	**-964,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-964,00**	**-964,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-964,00	-964,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood[1]			0,00				
			0,00				
B. Forest and Grassland Conversion[2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)*[3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17)

[2] Include only the emissions of CC_2 from Forest and Grassland Conversion. Associated removals should be reported under section D

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark
1998
2002 Apr 15

Changes in Forest and Other Woody Biomass Stocks

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stock[1] (Gg C)			0,00
Other Changes in Carbon Stocks[2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C	0,00
Net CO_2 emissions (-) or removals (+) (Gg $C(_2)$	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this tot

[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1998

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														0,00	0,00	0,00	0,00	0,00

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Abandonment of Managed Lands

(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

	Climate [a]	land-use/ management system [a]	Soil type					
Year			High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2[(1)]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**55,40**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**55,40**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	55,40					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

(1) Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2[3] (Gg)
1 Managed Waste Disposal on Land	2.000,10				0,03	0,00	55,40	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

(1) Actual emissions (after recovery).

(2) CH_4 recovered and flared or utilized.

(3) Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

(a) Specify whether total or urban population is used and the rationale for doing so.

(b) See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

(c) For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)		(kg/kg DC)	(Gg)		(Gg)
Industrial Wastewater	0,00				0,00	0,00				
Domestic and Commercial Wastewater	0,00				0,00	0,00				
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commerc wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery)

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity da and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**60.005,98**	**-964,00**	**286,94**	**30,23**	**1.882,09**	**502,64**	**42,00**	**15,03**	**0,01**	**0,00**	**238,02**	**656,01**	**144,22**	**75,35**
1. Energy	**58.455,62**		**48,03**	**2,61**							**237,68**	**656,01**	**94,62**	**75,35**
A. Fuel Combustion — Reference Approach[2]	58.495,09													
A. Fuel Combustion — Sectoral Approach[2]	58.033,37		32,79	2,61							235,50	623,30	83,84	73,84
1. Energy Industries	31.506,24		19,56	1,01							72,98	13,44	1,68	55,20
2. Manufacturing Industries and Construction	6.081,49		1,17	0,18							27,94	18,81	4,53	10,13
3. Transport	12.102,22		3,61	1,12							96,53	366,74	59,23	3,72
4. Other Sectors	8.139,38		8,43	0,29							38,05	224,31	18,40	4,79
5. Other	204,03		0,01	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	422,25		15,24	0,01							2,17	32,71	10,79	1,51
1. Solid Fuels	0,00		3,97	0,00							0,00	31,29	0,00	0,00
2. Oil and Natural Gas	422,25		11,27	0,01							2,17	1,42	10,79	1,51
2. Industrial Processes	**1.436,25**		**0,00**	**0,00**	**1.882,09**	**502,64**	**42,00**	**15,03**	**0,01**	**0,00**	**0,35**	**0,00**	**0,50**	**0,00**
A. Mineral Products	1.436,25		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,35	0,00	0,00	0,00
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,50	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					1.882,09	502,64	42,00	15,03	0,01	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculatic using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of referenc

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**114,11**			**0,00**									**38,86**	
4. Agriculture	**0,00**	**0,00**	**183,51**	**27,62**							0,00	0,00	1,22	0,00
A. Enteric Fermentation			138,07											
B. Manure Management			45,45	1,50									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	26,12									1,22	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-964,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,01**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -964,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	9,01	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**55,40**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		55,40									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1998
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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Memo Items: [7]														
International Bunkers	**6.614,00**		**0,14**	**0,36**							**130,29**	**12,02**	**3,64**	**60,31**
Aviation	2.185,02		0,04	0,08							8,90	1,70	0,39	0,14
Marine	4.428,98		0,10	0,28							121,39	10,33	3,25	60,17
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**6.336,83**													

[7] Memo Items are not included in the national totals

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**60.005,98**	**-964,00**	**286,94**	**30,23**	**1.882,09**	**502,64**	**42,00**	**15,03**	**0,01**	**0,00**	**238,02**	**656,01**	**144,22**	**75,35**
1. Energy		**58.455,62**		**48,03**	**2,61**							**237,68**	**656,01**	**94,62**	**75,35**
A. Fuel Combustion	Reference Approach[2]	58.495,09													
	Sectoral Approach[2]	58.033,37		32,79	2,61							235,50	623,30	83,84	73,84
B. Fugitive Emissions from Fuels		422,25		15,24	0,01							2,17	32,71	10,79	1,51
2. Industrial Processes		**1.436,25**		**0,00**	**0,00**	**1.882,09**	**502,64**	**42,00**	**15,03**	**0,01**	**0,00**	**0,35**	**0,00**	**0,50**	**0,00**
3. Solvent and Other Product Use		**114,11**			**0,00**							**0,00**	**0,00**	**38,86**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**183,51**	**27,62**							**0,00**	**0,00**	**1,22**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-964,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,01**	**0,00**
6. Waste		**0,00**		**55,40**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**6.614,00**		**0,14**	**0,36**							**130,29**	**12,02**	**3,64**	**60,31**
Aviation		2.185,02		0,04	0,08							8,90	1,70	0,39	0,14
Marine		4.428,98		0,10	0,28							121,39	10,33	3,25	60,17
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.336,83**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**59.041,98**	**6.025,79**	**9.372,71**	**502,64**	**15,03**	**59,46**	**75.017,61**
1. Energy	**58.455,62**	**1.008,58**	**809,89**				**60.274,10**
A. Fuel Combustion (Sectoral Approach)	58.033,37	688,51	807,59				59.529,47
1. Energy Industries	31.506,24	410,69	312,76				32.229,70
2. Manufacturing Industries and Construction	6.081,49	24,58	54,57				6.160,63
3. Transport	12.102,22	75,89	348,15				12.526,27
4. Other Sectors	8.139,38	177,11	89,01				8.405,49
5. Other	204,03	0,24	3,11				207,37
B. Fugitive Emissions from Fuels	422,25	320,07	2,30				744,63
1. Solid Fuels	0,00	83,35	0,00				83,35
2. Oil and Natural Gas	422,25	236,73	2,30				661,28
2. Industrial Processes	**1.436,25**	**0,00**	**0,00**	**502,64**	**15,03**	**59,46**	**2.013,38**
A. Mineral Products	1.436,25	0,00	0,00				1.436,25
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	16,73	16,73
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				502,64	15,03	42,73	560,40
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**114,11**		**0,00**				**114,11**
4. Agriculture	**0,00**	**3.853,80**	**8.562,81**				**12.416,61**
A. Enteric Fermentation		2.899,43					2.899,43
B. Manure Management		954,37	465,78				1.420,14
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	8.097,04				8.097,04
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-964,00**	**0,00**	**0,00**				**-964,00**
6. Waste	**0,00**	**1.163,42**	**0,00**				1.163,42
A. Solid Waste Disposal on Land	0,00	1.163,42					1.163,42
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**6.614,00**	**2,96**	**110,19**				**6.727,16**
Aviation	2.185,02	0,85	23,69				2.209,56
Marine	4.428,98	2,11	86,51				4.517,60
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**6.336,83**						**6.336,83**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-964,00	-964,00			-964,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-964,00	-964,00	0,00	0,00	-964,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	75.981,61
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	75.017,61

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[(1)] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6																				

[(1)] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 **Other** *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark
1998
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**59.238,76**	**59.041,98**	**-0,33**	**6.017,47**	**6.025,79**	**0,14**	**9.669,72**	**9.372,71**	**-3,07**
1. Energy		**58.652,41**	**58.455,62**	**-0,34**	**1.000,25**	**1.008,58**	**0,83**	**1.106,90**	**809,89**	**-26,83**
1.A.	Fuel Combustion Activities	58.231,79	58.033,37	-0,34	680,28	688,51	1,21	1.104,61	807,59	-26,89
1.A.1.	Energy Industries	31.506,24	31.506,24	0,00	410,69	410,69	0,00	312,72	312,76	0,01
1.A.2.	Manufacturing Industries and Construction	6.078,53	6.081,49	0,05	24,56	24,58	0,04	130,65	54,57	-58,24
1.A.3.	Transport	12.419,13	12.102,22	-2,55	67,65	75,89	12,18	437,28	348,15	-20,38
1.A.4.	Other Sectors	8.023,85	8.139,38	1,44	177,11	177,11	0,00	221,27	89,01	-59,77
1.A.5.	Other	204,03	204,03	0,00	0,26	0,24	-8,13	2,69	3,11	15,36
1.B.	Fugitive Emissions from Fuels	420,62	422,25	0,39	319,98	320,07	0,03	2,29	2,30	0,39
1.B.1.	Solid fuel	0,00	0,00	0,00	83,35	83,35	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	420,62	422,25	0,39	236,63	236,73	0,04	2,29	2,30	0,39
2. Industrial Processes		**1.436,25**	**1.436,25**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.436,25	1.436,25	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**114,11**	**114,11**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**3.853,80**	**3.853,80**	**0,00**	**8.562,81**	**8.562,81**	**0,00**
4.A.	Enteric Fermentation				2.899,43	2.899,43	0,00			
4.B.	Manure Management				954,37	954,37	0,00	465,78	465,78	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	8.097,04	8.097,04	0,00
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-964,00**	**-964,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-964,00	-964,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA Denmark

Recalculated year: 2002 1998

(Sheet 2 of 2) 2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste		**0,00**	**0,00**	**0,00**	**1.163,42**	**1.163,42**	**0,00**	**0,00**	**0,00**	**0,00**
6.A.	Solid Waste Disposal on Land	0,00	0,00	0,00	1.163,42	1.163,42	0,00			
6.B.	Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C.	Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D.	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other *(please specify)*		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
				0,00			0,00			0,00
Memo Items:										
International Bunkers		**6.595,36**	**6.614,00**	**0,28**	**2,96**	**2,96**	**0,07**	**113,30**	**110,19**	**-2,74**
Multilateral Operations		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.265,73**	**6.336,83**	**1,13**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		HFCs			PFCs			SF_6		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions		**503,11**	**502,64**	**-0,09**	**14,00**	**15,03**	**7,35**	**59,44**	**59,46**	**0,04**
2.C.3.	Aluminium Production				0,00	0,00	0,00	16,73	16,73	0,00
2.E.	Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F.	Consumption of Halocarbons and SF_6	503,11	502,64	-0,09	14,00	15,03	7,35	42,71	42,73	0,06
	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6		**1.903,46**	**1.882,09**		**42,00**	**42,00**		**203,15**	**201,96**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	75.502,49	75.017,61	-0,64
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	76.466,49	75.981,61	-0,63

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1998
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
Minor errors of emission factors have been corrected.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1998
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1998
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 1998

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☐
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☐			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☑			
	Completeness table:			☐			
	Trend table:			☐			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	1,67	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years			☑			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

1999

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**55.729,97**	**48,06**	**2,62**	**217,58**	**593,07**	**88,03**	**54,68**
A. Fuel Combustion Activities (Sectoral Approach)	**54.827,23**	**32,10**	**2,60**	**212,80**	**566,17**	**76,93**	**53,27**
1. Energy Industries	**28.236,66**	**17,68**	**0,93**	**55,56**	**13,32**	**1,70**	**37,16**
a. Public Electricity and Heat Production	25.898,84	17,56	0,89	53,23	12,30	1,60	36,62
b. Petroleum Refining	979,72	0,01	0,02	1,50	0,44	0,01	0,53
c. Manufacture of Solid Fuels and Other Energy Industries	1.358,10	0,11	0,02	0,83	0,59	0,10	0,01
2. Manufacturing Industries and Construction	**6.128,61**	**1,51**	**0,19**	**27,94**	**17,66**	**4,55**	**8,66**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	6.128,61	1,51	0,19	27,94	17,66	4,55	8,66
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				27,94	17,66	4,55	8,66
3. Transport	**12.184,17**	**3,54**	**1,20**	**89,87**	**334,49**	**53,00**	**3,06**
a. Civil Aviation	155,95	0,01	0,01	0,73	0,96	0,16	0,01
b. Road Transportation	11.344,92	3,45	1,16	79,73	322,82	46,90	1,30
c. Railways	257,10	0,02	0,01	2,40	0,37	0,15	0,04
d. Navigation	426,21	0,06	0,02	7,01	10,34	5,79	1,71
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**8.095,44**	**9,35**	**0,28**	**39,44**	**200,69**	**17,68**	**4,38**
a. Commercial/Institutional	949,77	1,01	0,03	1,33	6,38	0,39	0,59
b. Residential	4.575,72	5,23	0,13	3,91	144,99	10,04	1,34
c. Agriculture/Forestry/Fisheries	2.569,94	3,11	0,12	34,20	49,32	7,25	2,45
5. Other *(please specify)* [1]	**182,35**	**0,01**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**902,74**	**15,95**	**0,02**	**4,78**	**26,90**	**11,10**	**1,41**
1. Solid Fuels	**0,00**	**3,32**	**0,00**	**0,00**	**23,80**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	3,32	0,00	0,00	23,80	0,00	0,00
Storage of solid fuel					23,80		
2. Oil and Natural Gas	**902,74**	**12,63**	**0,02**	**4,78**	**3,10**	**11,10**	**1,41**
a. Oil	0,00	0,05				6,09	1,36
b. Natural Gas	0,00	10,08				3,66	0,00
c. Venting and Flaring	902,74	2,50	0,02	4,78	3,10	1,35	0,05
Venting	0,00	0,00					0,05
Flaring	902,74	2,50	0,02	4,78	3,10	1,35	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**6.474,60**	**0,14**	**0,34**	**123,53**	**11,47**	**3,45**	**60,73**
Aviation	2.308,18	0,04	0,08	9,40	1,77	0,40	0,15
Marine	4.166,42	0,09	0,26	114,13	9,71	3,05	60,58
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**6.351,44**						

[1] Include military fuel use under this category.

[2] Please do not include in energy totals.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**813.417,56**	NCV				**54.827,23**	**32,10**	**2,60**
Liquid Fuels	363.023,09	NCV	69,66	12,21	4,37	25.287,48	4,43	1,59
Solid Fuels	197.985,45	NCV	95,00	2,39	3,00	18.808,62	0,47	0,59
Gaseous Fuels	187.958,73	NCV	56,90	110,35	1,00	10.694,35	20,74	0,19
Biomass	63.946,20	NCV	99,32	100,07	3,68 [3]	6.351,44	6,40	0,24
Other Fuels	504,09	NCV	72,97	107,83	0,54	36,79	0,05	0,00
1.A.1. Energy Industries	**415.999,23**	NCV				**28.236,66**	**17,68**	**0,93**
Liquid Fuels	89.069,13	NCV	56,58	1,55	1,20	5.039,24	0,14	0,11
Solid Fuels	184.918,93	NCV	95,00	1,50	3,00	17.567,30	0,28	0,55
Gaseous Fuels	98.956,29	NCV	56,89	164,05	1,00	5.630,12	16,23	0,10
Biomass	43.054,89	NCV	98,59	23,96	3,88 [3]	4.244,75	1,03	0,17
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	375.287,98	NCV				25.898,84	17,56	0,89
Liquid Fuels	72.255,13	NCV	56,18	1,83	1,24	4.059,53	0,13	0,09
Solid Fuels	184.918,93	NCV	95,00	1,50	3,00	17.567,30	0,28	0,55
Gaseous Fuels	75.088,06	NCV	56,89	214,81	1,00	4.272,01	16,13	0,08
Biomass	43.025,86	NCV	98,60	23,79	3,89 [3]	4.242,32	1,02	0,17
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	16.814,00	NCV				979,72	0,01	0,02
Liquid Fuels	16.814,00	NCV	58,27	0,36	1,06	979,72	0,01	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00			
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	23.897,26	NCV				1.358,10	0,11	0,02
Liquid Fuels	0,00	NCV	0,00	0,00	0,00			
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	23.868,23	NCV	56,90	4,35	1,00	1.358,10	0,10	0,02
Biomass	29,03	NCV	83,60	280,01	1,00 [3]	2,43	0,01	0,00
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**93.472,86**	NCV					**6.128,61**	**1,51**	**0,19**
Liquid Fuels	31.966,62	NCV	78,21	7,54	2,60		2.499,97	0,24	0,08
Solid Fuels	12.175,80	NCV	95,00	15,00	3,00		1.156,70	0,18	0,04
Gaseous Fuels	43.443,72	NCV	56,90	20,81	1,00		2.471,95	0,90	0,04
Biomass	5.886,73	NCV	101,85	31,78	3,98	[3]	599,54	0,19	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	93.472,86	NCV					6.128,61	1,51	0,19
Liquid Fuels	31.966,62	NCV	78,21	7,54	2,60		2.499,97	0,24	0,08
Solid Fuels	12.175,80	NCV	95,00	15,00	3,00		1.156,70	0,18	0,04
Gaseous Fuels	43.443,72	NCV	56,90	20,81	1,00		2.471,95	0,90	0,04
Biomass	5.886,73	NCV	101,85	31,78	3,98	[3]	599,54	0,19	0,02
Other Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 3 of 4)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**165.786,09**	NCV					**12.184,17**	**3,54**	**1,20**
Gasoline	87.154,27	NCV	72,98	35,69	9,60		6.360,20	3,11	0,84
Diesel	78.127,73	NCV	74,07	4,81	4,65		5.787,19	0,38	0,36
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	504,09	NCV	72,97	107,83	0,54		36,79	0,05	0,00
a. Civil Aviation	2.164,50	NCV					155,95	0,01	0,01
Aviation Gasoline	102,68	NCV	73,00	21,90	2,00		7,50	0,00	0,00
Jet Kerosene	2.061,82	NCV	72,00	1,67	3,80		148,45	0,00	0,01
b. Road Transportation	154.458,46	NCV					11.344,92	3,45	1,16
Gasoline	84.989,77	NCV	73,00	36,53	9,75		6.204,25	3,10	0,83
Diesel Oil	69.467,09	NCV	74,00	5,02	4,78		5.140,56	0,35	0,33
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	1,60	NCV					0,10	0,00	0,00
LPG	1,60	NCV	65,00	23,73	5,62		0,10	0,00	0,00
c. Railways	3.474,31	NCV					257,10	0,02	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	3.474,31	NCV	74,00	4,77	2,04		257,10	0,02	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	5.688,82	NCV					426,21	0,06	0,02
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	1.434,90	NCV	78,00	1,76	4,90		111,92	0,00	0,01
Gas/Diesel Oil	3.751,43	NCV	74,00	1,94	4,55		277,61	0,01	0,02
Other Fuels *(please specify)*	502,49	NCV					36,68	0,05	0,00
Kerosene, Gasoline, LPG	502,49	NCV	73,00	108,10	0,52		36,68	0,05	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**135.654,81**	NCV					**8.095,44**	**9,35**	**0,28**
Liquid Fuels	74.200,79	NCV	73,03	7,51	2,52		5.418,53	0,56	0,19
Solid Fuels	890,73	NCV	95,00	15,00	3,00		84,62	0,01	0,00
Gaseous Fuels	45.558,72	NCV	56,90	79,10	1,00		2.592,29	3,60	0,05
Biomass	15.004,58	NCV	100,45	345,26	2,98 [3]		1.507,15	5,18	0,04
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Commercial/Institutional	18.584,51	NCV					949,77	1,01	0,03
Liquid Fuels	8.004,43	NCV	64,06	5,34	1,62		512,75	0,04	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	7.680,48	NCV	56,90	80,49	1,00		437,02	0,62	0,01
Biomass	2.899,60	NCV	94,31	120,44	2,91 [3]		273,47	0,35	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
b. Residential	78.514,22	NCV					4.575,72	5,23	0,13
Liquid Fuels	37.838,91	NCV	73,91	10,02	1,98		2.796,85	0,38	0,07
Solid Fuels	182,35	NCV	95,00	15,00	3,00		17,32	0,00	0,00
Gaseous Fuels	30.958,71	NCV	56,90	33,48	1,00		1.761,55	1,04	0,03
Biomass	9.534,24	NCV	102,00	400,00	3,00 [3]		972,49	3,81	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Agriculture/Forestry/Fisheries	38.556,08	NCV					2.569,94	3,11	0,12
Liquid Fuels	28.357,44	NCV	74,37	4,77	3,50		2.108,92	0,14	0,10
Solid Fuels	708,37	NCV	95,00	15,00	3,00		67,30	0,01	0,00
Gaseous Fuels	6.919,53	NCV	56,90	281,68	1,00		393,72	1,95	0,01
Biomass	2.570,74	NCV	101,60	395,81	2,96 [3]		261,18	1,02	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00				
1.A.5 Other (Not elsewhere specified)[4]	**2.504,56**	NCV					**182,35**	**0,01**	**0,01**
Liquid Fuels	2.504,56	NCV	72,81	4,07	3,38		182,35	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00 [3]				
Other Fuels	0,00	NCV	0,00	0,00	0,00				

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	622.895,00	194.807,00	########		6.085,00	337.990,00	1,00	NCV	337.990,00	20,00	6.759,80		6.759,80	1,00	24.785,93
		Orimulsion	TJ	0,00	33.079,00	0,00		-1.112,00	34.191,00	1,00	NCV	34.191,00	22,00	752,20		752,20	1,00	2.758,07
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		51.354,00	51.265,00	4,00	-445,00	530,00	1,00	NCV	530,00	18,90	10,02		10,02	1,00	36,73
		Jet Kerosene	TJ		23.169,00	14.114,00	32.049,00	-4.074,00	-18.920,00	1,00	NCV	-18.920,00	19,50	-368,94		-368,94	1,00	-1.352,78
		Other Kerosene	TJ		0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	19,60	0,00		0,00	1,00	0,00
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		83.039,00	50.248,00	26.085,00	-12.342,00	19.048,00	1,00	NCV	19.048,00	20,20	384,77	0,00	384,77	1,00	1.410,82
		Residual Fuel Oil	TJ		26.636,00	50.531,00	28.526,00	-11.246,00	-41.175,00	1,00	NCV	-41.175,00	21,10	-868,79		-868,79	1,00	-3.185,57
		LPG	TJ		219,00	3.953,00		-76,00	-3.658,00	1,00	NCV	-3.658,00	17,20	-62,92	0,00	-62,92	1,00	-230,70
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		1.106,00	48,00		-2,00	1.060,00	1,00	NCV	1.060,00	20,00	21,20	16,91	4,29	1,00	15,72
		Bitumen	TJ		9.457,00	338,00		249,00	8.870,00	1,00	NCV	8.870,00	22,00	195,14	203,41	-8,27	1,00	-30,33
		Lubricants	TJ		2.541,00	390,00	142,00	-162,00	2.171,00	1,00	NCV	2.171,00	20,00	43,42	22,58	20,84	1,00	76,41
		Petroleum Coke	TJ		8.448,00	554,00		-335,00	8.229,00	1,00	NCV	8.229,00	27,50	226,30		226,30	1,00	829,76
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												348.336,00		7.092,20	242,90	6.849,29		25.114,07
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	178.714,00	5.013,00	0,00	-18.848,00	192.549,00	1,00	NCV	192.549,00	25,80	4.967,76		4.967,76	1,00	18.215,14
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	29,00	7,00		-5,00	27,00	1,00	NCV	27,00	27,60	0,75		0,75	1,00	2,73
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												192.576,00		4.968,51	0,00	4.968,51		18.217,87
Gaseous Fossil		Natural Gas (Dry)	TJ	294.061,00	0,00	########		-1.624,00	188.187,00	1,00	NCV	188.187,00	15,30	2.879,26	0,00	2.879,26	1,00	10.557,29
Total												**729.099,00**		**14.939,97**	**242,90**	**14.697,06**		**53.889,23**
Biomass total												68.967,00		2.042,99	0,00	2.042,99		7.490,96
		Solid Biomass	TJ	65.039,00	1.245,00	0,00		0,00	66.284,00	1,00	NCV	66.284,00	29,90	1.981,89		1.981,89	1,00	7.266,94
		Liquid Biomass	TJ	27,00	0,00	0,00		0,00	27,00	1,00	NCV	27,00	20,00	0,54		0,54	1,00	1,98
		Gas Biomass	TJ	2.656,00	0,00	0,00		0,00	2.656,00	1,00	NCV	2.656,00	22,80	60,56		60,56	1,00	222,04

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

[2] If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	348,34	25.114,07	363,02	25.287,48	-4,05	-0,69
Solid Fuels (excluding international bunkers)	192,58	18.217,87	197,99	18.808,62	-2,73	-3,14
Gaseous Fuels	188,19	10.557,29	187,96	10.694,35	0,12	-1,28
Other [3]	16,57	559,30	0,50	36,79	3.186,96	1.420,43
Total [3]	**745,67**	**54.448,53**	**749,47**	**54.827,23**	**-0,51**	**-0,69**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	1.057,00	0,80	20,00	16,91	62,01	
Lubricants	2.258,00	0,50	20,00	22,58	82,79	
Bitumen	9.246,00	1,00	22,00	203,41	745,84	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows.
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Solid Fuels
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				3,32	0,00
Storage of solid fuel	7,01	0,47	0,00	3,32	

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 *(kg/unit)* [2]	CH_4 *(kg/unit)* [2]	N_2O *(kg/unit)* [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,05**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		0,00	0,00	0,00				
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	2.047.557	0,00	0,00			0,00	
vi. Other		Mg Crude	5.000.000	0,00	0,01			0,05	
1. B. 2. b. Natural Gas							**0,00**	**10,08**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	2.500.000	0,00	0,65			1,63	
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3.800.000	0,00	2,22			8,45	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**902,74**	**2,50**	**0,02**
i. Oil	*(e.g. PJ gas consumption)*	GJ	324.130	56,90	0,00	0,00	18,44		0,00
ii. Gas	*(e.g. PJ gas consumption)*	GJ	15.541.257	56,90	0,16	0,00	884,30	2,50	0,02
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**54.753,39**				**4.166,42**	**0,09**	**0,26**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	26.085,29	74,00	1,69	4,70	1.930,31	0,04	0,12
Residual Fuel Oil	28.668,10	78,00	1,76	4,90	2.236,11	0,05	0,14
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**32.057,93**				**2.308,18**	**0,04**	**0,08**
Jet Kerosene	32.048,72	72,00	1,28	2,53	2.307,51	0,04	0,08
Gasoline	9,21	73,00	21,93	1,95	0,67	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	9,41	90,59
Aviation	6,32	93,68

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.401,62**	**0,00**	**0,00**	**1.633,65**	**615,82**	**48,18**	**19,83**	**0,01**	**0,00**	**0,45**	**0,00**	**0,51**	**0,00**
A. Mineral Products	**1.401,62**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.294,83												
2. Lime Production	106,79												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)* [redacted]	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,45**	**0,00**	**0,00**	**0,00**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00							0,45			
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
													0,00
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium and Magnesium Foundries									0,00				
5. Other *(please specify)* [redacted]	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
D. Other Production	**0,00**									**0,00**	**0,00**	**0,51**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00											0,51	
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**1.633,65**	**615,82**	**48,18**	**19,83**	**0,01**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				1.239,91	429,55	48,18	19,83		0,00				
2. Foam Blowing				375,54	166,77		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				18,20	19,50		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	0,00	0,00	0,01	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.							0,00	0,01	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

1999

(Sheet 1 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.401,62**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.427,82	0,53			1.294,83					
2. Lime Production		500,38	0,21			106,79					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		0,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		0,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Emissions of CO_2, CH_4 and N_2O

(Sheet 2 of 2)

Denmark

1999

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		4,53	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this.

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**6,02**	**0,00**	**0,00**	**43,50**	**0,00**	**260,46**	**38,56**	**0,00**	**38,45**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**2,83**	**0,00**	**0,00**	**0,00**	**0,00**		**2,74**
C. Metal Production															**0,00**	**0,00**							**0,70**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							0,70
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**6,02**	**0,00**	**0,00**	**43,50**	**0,00**	**260,46**	**38,56**	**0,00**	**38,45**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**2,83**	**0,00**	**0,00**	**0,00**	**0,00**		**2,04**
1. Refrigeration and Air Conditioning Equipment		6,02			43,50		121,22	0,99		38,45							2,83						
2. Foam Blowing							124,24	37,57															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers							15,00																
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,48
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		1,55
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																	0,00						1,55
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**3,91**	**0,00**	**0,00**	**121,79**	**0,00**	**338,60**	**5,40**	**0,00**	**146,13**	**0,00**	**0,00**	**0,00**	**615,82**	**0,00**	**0,00**	**19,83**	**0,00**	**0,00**	**0,00**	**0,00**	**19,83**	**65,39**
C. Metal Production															0,00	0,00						0,00	16,73
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	3,91	0,00	0,00	121,79	0,00	338,60	5,40	0,00	146,13	0,00	0,00	0,00	615,82	0,00	0,00	19,83	0,00	0,00	0,00	0,00	19,83	48,66
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	3,91	0,00	0,00	121,79	0,00	338,60	5,40	0,00	146,13	0,00	0,00	0,00	615,82	0,00	0,00	19,83	0,00	0,00	0,00	0,00	19,83	48,66
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

1999

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				0,70	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	0,70	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this.

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 2 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other *(please specify)*									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**113,24**	**0,00**	**38,54**
A. Paint Application	**73,05**		**23,44**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,20**
D. Other *(please specify)*	40,19	0,00	12,90
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	40,19		12,90

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**0,00**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**168,31**	**27,44**	**0,00**	**0,00**	**1,19**
A. Enteric Fermentation	**127,95**				
1. Cattle	112,71				
Dairy Cattle	66,58				
Non-Dairy Cattle	46,13				
2. Buffalo					
3. Sheep	0,55				
4. Goats					
5. Camels and Llamas					
6. Horses	0,73				
7. Mules and Asses					
8. Swine	13,96				
9. Poultry					
10. Other *(please specify)*	0,00				
B. Manure Management	**40,36**	**1,47**			**0,00**
1. Cattle	15,95				
Dairy Cattle	13,96				
Non-Dairy Cattle	1,99				
2. Buffalo					
3. Sheep	0,03				
4. Goats					
5. Camels and Llamas					
6. Horses	0,04				
7. Mules and Asses					
8. Swine	23,68				
9. Poultry	0,66				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					
11. Liquid Systems		0,21			
12. Solid Storage and Dry Lot		1,26			
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				
2. Rainfed	0,00				
3. Deep Water	0,00				
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**25,96**			**1,19**
1. Direct Soil Emissions		16,08			1,19
2. Animal Production		0,82			
3. Indirect Emissions		8,89			
4. Other *(please specify)*	0,00	0,17			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00			
2. Pulse	0,00	0,00			
3 . Tuber and Root	0,00	0,00			
4 . Sugar Cane	0,00	0,00			
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE
Enteric Fermentation
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size[2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle	0			0,00
Dairy Cattle[3]	640			104,00
Non-Dairy Cattle	1.247			37,00
2. Buffalo	0			0,00
3. Sheep	69			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	40			18,00
7. Mules and Asses	0			0,00
8. Swine	9.305			1,50
9. Poultry	19.645			0,00
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals[b]		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Indicators:					
Weight	(kg)				
Feeding situation[c]					
Milk yield	(kg/day)				
Work	(hrs/day)				
Pregnant	(%)				
Digestibility of feed	(%)				

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS CH_4
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle	0							0,00
Dairy Cattle[4]	640							21,80
Non-Dairy Cattle	1.247							1,60
2. Buffalo	0							0,00
3. Sheep	69							0,46
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	40							1,10
7. Mules and Asses	0							0,00
8. Swine	9.305							2,54
9. Poultry	19.645							0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

1999

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system ($kg\ N_2O\text{-}N/kg\ N$)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	640								Anaerobic lagoon	0,000
Dairy Cattle	1.247								Liquid system	0,000
Sheep	69								Solid storage and dry lot	0,000
Swine	9.305								Other	0,000
Poultry	19.645									
Other *(please specify)*										
Total per AWMS[2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] AWMS - Animal Waste Management System.

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Rice Cultivation

1999

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR [1]	EMISSIONS
		Harvested area [2] (10^{-9} m^2/yr)	Organic amendments added[3]: type	Organic amendments added[3]: (t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice[4]						
Total [4]		0,00				

[1] The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organic amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

[2] Harvested area is the cultivated area multiplied by the number of cropping seasons per year.

[3] Specify dry weight or wet weight for organic amendments.

[4] These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculations.

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[1]

1999

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION Description	Value	IMPLIED EMISSION FACTORS Unit		EMISSIONS ($Gg N_2O$)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**16,08**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	256.900.000	(kg N2O-N/kg N)[2]	0,012	4,95
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	243.070.000	(kg N2O-N/kg N)[2]	0,009	3,42
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	40.200.000	(kg N2O-N/kg dry biomass)[2]	0,013	0,79
Crop Residue	Dry production of other crops (kg dry biomass/yr)	345.100.000	(kg N2O-N/kg dry biomass)[2]	0,013	6,78
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.400	(kg N2O-N/ha)[2]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**28.950.000**	**(kg N2O-N/kg N)[2]**	**0,018**	**0,82**
Indirect Emissions					**8,89**
Atmospheric Deposition	(kg N/yr)	75.881.910	(kg N2O-N/kg N)[2]	0,010	1,19
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	196.000.000	(kg N2O-N/kg N)[2]	0,025	7,70
Other *(please specify)*					**0,17**
Sewage sludge used as fertilizer	(kg N/yr)	3.960.000	(kg N2O-N/kg N)[2]	0,013	0,08
Industrial waste used as fertilizer	(kg N/yr)	4.900.000	(kg N2O-N/kg N)[2]	0,013	0,10
				0,000	

Additional information

Fraction [a]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[a] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[1] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[2] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

1999

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE
Field Burning of Agricultural Residues
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-976,00**	**-976,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-976,00**	**-976,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-976,00	-976,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood [1]			0,00				
			0,00				
B. Forest and Grassland Conversion [2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)* [3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17).

[2] Include only the emissions of CO_2 from Forest and Grassland Conversion. Associated removals should be reported under section D.

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY
Changes in Forest and Other Woody Biomass Stocks
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stocks [1] (Gg C)			0,00
Other Changes in Carbon Stocks [2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C)	0,00
Net CO_2 emissions (-) or removals (+) (Gg CO_2)	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this total.
[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Forest and Grassland Conversion

1999

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years.

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

1999

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

Year	Climate [a]	land-use/ management system [a]	Soil type: High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**52,84**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**52,84**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	0,00	52,84					
2. Unmanaged Waste Disposal Sites	0,00	0,00					
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	0,00				
2. Domestic and Commercial Wastewater		0,00	0,00				
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**				
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2 [3] (Gg)
1 Managed Waste Disposal on Land	1.467,00				0,04	0,00	52,84	
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	0,00				0,00	0,00		
- shallow (<5 m)					0,00	0,00		
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00			
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

(1) Actual emissions (after recovery).

(2) CH_4 recovered and flared or utilized.

(3) Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

[a] Specify whether total or urban population is used and the rationale for doing so.

[b] See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

[c] For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)		(kg/kg DC)	(Gg)		(Gg)
Industrial Wastewater	0,00				0,00	0,00				
Domestic and Commercial Wastewater	0,00				0,00	0,00				
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commercial wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery).

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity data and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**57.244,84**	**-976,00**	**269,21**	**30,05**	**1.633,65**	**615,82**	**48,18**	**19,83**	**0,01**	**0,00**	**218,03**	**593,07**	**137,28**	**54,68**
1. Energy	**55.729,97**		**48,06**	**2,62**							**217,58**	**593,07**	**88,03**	**54,68**
A. Fuel Combustion — Reference Approach [2]	53.889,23													
A. Fuel Combustion — Sectoral Approach [2]	54.827,23		32,10	2,60							212,80	566,17	76,93	53,27
1. Energy Industries	28.236,66		17,68	0,93							55,56	13,32	1,70	37,16
2. Manufacturing Industries and Construction	6.128,61		1,51	0,19							27,94	17,66	4,55	8,66
3. Transport	12.184,17		3,54	1,20							89,87	334,49	53,00	3,06
4. Other Sectors	8.095,44		9,35	0,28							39,44	200,69	17,68	4,38
5. Other	182,35		0,01	0,01							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	902,74		15,95	0,02							4,78	26,90	11,10	1,41
1. Solid Fuels	0,00		3,32	0,00							0,00	23,80	0,00	0,00
2. Oil and Natural Gas	902,74		12,63	0,02							4,78	3,10	11,10	1,41
2. Industrial Processes	**1.401,62**		**0,00**	**0,00**	**1.633,65**	**615,82**	**48,18**	**19,83**	**0,01**	**0,00**	**0,45**	**0,00**	**0,51**	**0,00**
A. Mineral Products	1.401,62		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,45	0,00	0,00	0,00
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production [3]	0,00										0,00	0,00	0,51	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					1.633,65	615,82	48,18	19,83	0,01	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production.

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of reference.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**113,24**			**0,00**									**38,54**	
4. Agriculture	**0,00**	**0,00**	**168,31**	**27,44**							0,00	0,00	1,19	0,00
A. Enteric Fermentation			127,95											
B. Manure Management			40,36	1,47									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4]	[4]	0,00	25,96									1,19	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-976,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,01**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -976,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00	9,01	
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**52,84**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		52,84									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							0,00	0,00	0,00	0,00
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Memo Items: [7]														
International Bunkers	**6.474,60**		**0,14**	**0,34**							**123,53**	**11,47**	**3,45**	**60,73**
Aviation	2.308,18		0,04	0,08							9,40	1,77	0,40	0,15
Marine	4.166,42		0,09	0,26							114,13	9,71	3,05	60,58
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**6.351,44**													

[7] Memo Items are not included in the national totals.

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)				(Gg)					
Total National Emissions and Removals		**57.244,84**	**-976,00**	**269,21**	**30,05**	**1.633,65**	**615,82**	**48,18**	**19,83**	**0,01**	**0,00**	**218,03**	**593,07**	**137,28**	**54,68**
1. Energy		**55.729,97**		**48,06**	**2,62**							**217,58**	**593,07**	**88,03**	**54,68**
A. Fuel Combustion	Reference Approach[2]	53.889,23													
	Sectoral Approach[2]	54.827,23		32,10	2,60							212,80	566,17	76,93	53,27
B. Fugitive Emissions from Fuels		902,74		15,95	0,02							4,78	26,90	11,10	1,41
2. Industrial Processes		**1.401,62**		**0,00**	**0,00**	**1.633,65**	**615,82**	**48,18**	**19,83**	**0,01**	**0,00**	**0,45**	**0,00**	**0,51**	**0,00**
3. Solvent and Other Product Use		**113,24**			**0,00**							**0,00**	**0,00**	**38,54**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**168,31**	**27,44**							**0,00**	**0,00**	**1,19**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-976,00**	**0,00**	**0,00**							**0,00**	**0,00**	**9,01**	**0,00**
6. Waste		**0,00**		**52,84**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**6.474,60**		**0,14**	**0,34**							**123,53**	**11,47**	**3,45**	**60,73**
Aviation		2.308,18		0,04	0,08							9,40	1,77	0,40	0,15
Marine		4.166,42		0,09	0,26							114,13	9,71	3,05	60,58
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.351,44**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A(c). Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A.

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**56.268,84**	**5.653,46**	**9.316,71**	**615,82**	**19,83**	**65,39**	**71.940,04**
1. Energy	**55.729,97**	**1.009,16**	**811,81**				**57.550,95**
A. Fuel Combustion (Sectoral Approach)	54.827,23	674,13	806,89				56.308,26
1. Energy Industries	28.236,66	371,32	287,75				28.895,72
2. Manufacturing Industries and Construction	6.128,61	31,81	57,81				6.218,23
3. Transport	12.184,17	74,34	371,95				12.630,46
4. Other Sectors	8.095,44	196,45	86,76				8.378,65
5. Other	182,35	0,21	2,62				185,19
B. Fugitive Emissions from Fuels	902,74	335,03	4,92				1.242,69
1. Solid Fuels	0,00	69,72	0,00				69,72
2. Oil and Natural Gas	902,74	265,31	4,92				1.172,97
2. Industrial Processes	**1.401,62**	**0,00**	**0,00**	**615,82**	**19,83**	**65,39**	**2.102,66**
A. Mineral Products	1.401,62	0,00	0,00				1.401,62
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	16,73	16,73
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				615,82	19,83	48,66	684,31
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**113,24**		**0,00**				**113,24**
4. Agriculture	**0,00**	**3.534,60**	**8.504,90**				**12.039,50**
A. Enteric Fermentation		2.686,96					2.686,96
B. Manure Management		847,64	455,91				1.303,55
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils [2]		0,00	8.048,99				8.048,99
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry [1]	**-976,00**	**0,00**	**0,00**				**-976,00**
6. Waste	**0,00**	**1.109,70**	**0,00**				1.109,70
A. Solid Waste Disposal on Land	0,00	1.109,70					1.109,70
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**6.474,60**	**2,85**	**106,69**				**6.584,15**
Aviation	2.308,18	0,87	25,14				2.334,19
Marine	4.166,42	1,99	81,55				4.249,96
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**6.351,44**						**6.351,44**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-976,00	-976,00			-976,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-976,00	-976,00	0,00	0,00	-976,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	72.916,04
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	71.940,04

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes												
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Wastewater Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*												

TABLE 7 OVERVIEW TABLE[1] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach																				
Sectoral Approach																				
1. Energy Industries																				
2. Manufacturing Industries and Construction																				
3. Transport																				
4. Other Sectors																				
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels																				
2. Oil and Natural Gas																				
2 Industrial Processes																				
A. Mineral Products																				
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6																				

[1] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]																				
Actual [3]																				
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation																				
B. Manure Management																				
C. Rice Cultivation																				
D. Agricultural Soils																				
E. Prescribed Burning of Savannas																				
F. Field Burning of Agricultural Residues																				
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
1999
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land																				
B. Wastewater Handling																				
C. Waste Incineration																				
D. Other																				
7 Other ***(please specify)***																				
Memo Items:																				
International Bunkers																				
Aviation																				
Marine																				
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 1 of 2)

Denmark

1999

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals		**56.000,41**	**56.268,84**	**0,48**	**5.644,07**	**5.653,46**	**0,17**	**9.617,27**	**9.316,71**	**-3,13**
1. Energy		**55.461,55**	**55.729,97**	**0,48**	**999,77**	**1.009,16**	**0,94**	**1.109,25**	**811,81**	**-26,81**
1.A.	Fuel Combustion Activities	54.561,15	54.827,23	0,49	664,88	674,13	1,39	1.104,34	806,89	-26,93
1.A.1.	Energy Industries	28.236,66	28.236,66	0,00	371,32	371,32	0,00	287,66	287,75	0,03
1.A.2.	Manufacturing Industries and Construction	6.121,22	6.128,61	0,12	31,79	31,81	0,05	137,23	57,81	-57,87
1.A.3.	Transport	12.156,18	12.184,17	0,23	65,08	74,34	14,23	452,14	371,95	-17,74
1.A.4.	Other Sectors	7.864,75	8.095,44	2,93	196,47	196,45	-0,01	224,96	86,76	-61,43
1.A.5.	Other	182,35	182,35	0,00	0,23	0,21	-5,26	2,36	2,62	11,06
1.B.	Fugitive Emissions from Fuels	900,39	902,74	0,26	334,89	335,03	0,04	4,91	4,92	0,26
1.B.1.	Solid fuel	0,00	0,00	0,00	69,72	69,72	0,00	0,00	0,00	0,00
1.B.2.	Oil and Natural Gas	900,39	902,74	0,26	265,17	265,31	0,05	4,91	4,92	0,26
2. Industrial Processes		**1.401,62**	**1.401,62**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
2.A.	Mineral Products	1.401,62	1.401,62	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.B.	Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.C.	Metal Production	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.D.	Other Production	0,00	0,00	0,00						
2.G.	Other	0,00	0,00	0,00			0,00			0,00
3. Solvent and Other Product Use		**113,24**	**113,24**	**0,00**						**0,00**
4. Agriculture		**0,00**	**0,00**	**0,00**	**3.534,60**	**3.534,60**	**0,00**	**8.508,02**	**8.504,90**	**-0,04**
4.A.	Enteric Fermentation				2.686,96	2.686,96	0,00			
4.B.	Manure Management				847,64	847,64	0,00	455,91	455,91	0,00
4.C.	Rice Cultivation				0,00	0,00	0,00			
4.D.	Agricultural Soils [2]			0,00	0,00	0,00	0,00	8.052,11	8.048,99	-0,04
4.E.	Prescribed Burning of Savannas				0,00	0,00	0,00	0,00	0,00	0,00
4.F.	Field Burning of Agricultural Residues				0,00	0,00	0,00	0,00	0,00	0,00
4.G.	Other				0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry (net)		**-976,00**	**-976,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks	-976,00	-976,00	0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 2002

(Sheet 2 of 2)

Denmark

1999

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste		**0,00**	**0,00**	**0,00**	**1.109,70**	**1.109,70**	**0,00**	**0,00**	**0,00**	**0,00**
6.A.	Solid Waste Disposal on Land	0,00	0,00	0,00	1.109,70	1.109,70	0,00			
6.B.	Wastewater Handling				0,00	0,00	0,00	0,00	0,00	0,00
6.C.	Waste Incineration	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6.D.	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other ***(please specify)***		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
				0,00			0,00			0,00
Memo Items:										
International Bunkers		**6.459,70**	**6.474,60**	**0,23**	**2,88**	**2,85**	**-1,06**	**110,08**	**106,69**	**-3,08**
Multilateral Operations		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**6.280,94**	**6.351,44**	**1,12**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		HFCs			PFCs			SF_6		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions		**621,17**	**615,82**	**-0,86**	**30,10**	**19,83**	**-34,12**	**64,77**	**65,39**	**0,96**
2.C.3.	Aluminium Production				0,00	0,00	0,00	16,73	16,73	0,00
2.E.	Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2.F.	Consumption of Halocarbons and SF_6	621,17	615,82	-0,86	30,10	19,83	-34,12	48,04	48,66	1,29
	Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6		**1.735,94**	**1.633,65**		**42,00**	**48,18**		**284,41**	**284,41**	

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry[3]	71.977,79	71.940,04	-0,05
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry[3]	72.953,79	72.916,04	-0,05

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
1999
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

1. Energy:
Activity rates of flaring in gas and oil extraction (1B2c) have been updated.
Minor errors of emission factors have been corrected.
2. Industrial Processes:
Data on HFCs, PFCs and SF6 have been updated according to information in a model documented in 2001

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
1999
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	Sector[2]	Source/sink category [2]	Explanation
CO_2			
CH_4			
N_2O			
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO_2				
CH_4				
N_2O				
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
1999
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[(1)]

Party: Denmark **Year:** 1999

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☑
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☐			
	Uncertainty:	IPCC Table 8A:		☐	National information:		☐
	Recalculation tables:			☑			
	Completeness table:			☐			
	Trend table:			☐			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	-0,69	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years:			☑			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

(1) For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Annual emission inventories

2000

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
Total Energy	**51.287,02**	**48,80**	**2,55**	**205,36**	**642,59**	**90,45**	**27,50**
A. Fuel Combustion Activities (Sectoral Approach)	**50.693,82**	**33,64**	**2,54**	**202,27**	**616,78**	**79,81**	**26,46**
1. Energy Industries	**25.250,16**	**16,87**	**0,83**	**48,84**	**14,16**	**5,59**	**12,97**
a. Public Electricity and Heat Production	22.838,77	16,69	0,79	44,98	12,87	5,53	12,35
b. Petroleum Refining	972,24	0,00	0,02	1,31	0,41	0,00	0,61
c. Manufacture of Solid Fuels and Other Energy Industries	1.439,15	0,17	0,03	2,55	0,87	0,05	0,01
2. Manufacturing Industries and Construction	**5.823,11**	**1,73**	**0,18**	**28,24**	**20,38**	**4,90**	**7,29**
a. Iron and Steel	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	0,00	0,00				
c. Chemicals	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	0,00	0,00				
f. Other *(please specify)*	5.823,11	1,73	0,18	28,24	20,38	4,90	7,29
Manufacturing Industries and Construction (a,b,c,d,e,f), incl. industry mobile sources and machinery				28,24	20,38	4,90	7,29
3. Transport	**12.028,14**	**3,40**	**1,24**	**83,44**	**316,01**	**46,61**	**2,20**
a. Civil Aviation	137,42	0,01	0,01	0,64	0,92	0,15	0,01
b. Road Transportation	11.229,62	3,31	1,20	73,58	303,81	40,18	0,56
c. Railways	228,39	0,01	0,01	2,13	0,35	0,14	0,01
d. Navigation	432,72	0,07	0,02	7,09	10,93	6,13	1,63
e. Other Transportation *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	NO_X	CO	NMVOC	SO_2
	(Gg)						
4. Other Sectors	**7.481,88**	**11,64**	**0,28**	**41,75**	**266,23**	**22,72**	**3,99**
a. Commercial/Institutional	806,79	1,08	0,02	1,09	6,57	0,54	0,28
b. Residential	4.063,14	7,56	0,14	5,10	207,72	14,04	1,41
c. Agriculture/Forestry/Fisheries	2.611,94	3,00	0,12	35,56	51,94	8,14	2,30
5. Other *(please specify)* [1]	**110,53**	**0,01**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
a. Stationary	0,00	0,00	0,00	0,00	0,00	0,00	0,00
b. Mobile	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions from military combustion of fuels							
B. Fugitive Emissions from Fuels	**593,20**	**15,17**	**0,01**	**3,09**	**25,81**	**10,64**	**1,04**
1. Solid Fuels	**0,00**	**3,32**	**0,00**	**0,00**	**23,80**	**0,00**	**0,00**
a. Coal Mining	0,00	0,00					
b. Solid Fuel Transformation	0,00	0,00					
c. Other *(please specify)*	0,00	3,32	0,00	0,00	23,80	0,00	0,00
Storage of solid fuel					23,80		
2. Oil and Natural Gas	**593,20**	**11,85**	**0,01**	**3,09**	**2,01**	**10,64**	**1,04**
a. Oil	0,00	0,05				6,05	0,98
b. Natural Gas	0,00	10,17				3,72	0,00
c. Venting and Flaring	593,20	1,63	0,01	3,09	2,01	0,88	0,05
Venting	0,00	0,00					0,05
Flaring	593,20	1,63	0,01	3,09	2,01	0,88	0,00
d. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Memo Items: [2]							
International Bunkers	**6.647,43**	**0,14**	**0,35**	**126,82**	**11,76**	**3,54**	**65,35**
Aviation	2.366,42	0,04	0,08	9,63	1,80	0,40	0,15
Marine	4.281,01	0,10	0,27	117,19	9,97	3,13	65,20
Multilateral Operations	0,00	0,00	0,00				
CO_2 Emissions from Biomass	**7.000,55**						

[1] Include military fuel use under this category.

[2] Please do not include in energy totals.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]			EMISSIONS		
	Consumption		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
1.A. Fuel Combustion	**773.064,51**	NCV				**50.693,82**	**33,64**	**2,54**
Liquid Fuels	350.170,56	NCV	69,31	12,13	4,57	24.270,58	4,25	1,60
Solid Fuels	165.920,86	NCV	95,00	2,54	3,00	15.762,48	0,42	0,50
Gaseous Fuels	186.020,22	NCV	57,10	105,88	1,00	10.621,75	19,70	0,19
Biomass	70.418,38	NCV	99,41	130,85	3,61 [3]	7.000,55	9,21	0,25
Other Fuels	534,48	NCV	72,98	107,92	0,53	39,01	0,06	0,00
1.A.1. Energy Industries	**387.878,78**	NCV				**25.250,16**	**16,87**	**0,83**
Liquid Fuels	87.102,17	NCV	54,91	1,44	1,14	4.783,18	0,13	0,10
Solid Fuels	153.175,67	NCV	95,00	1,50	3,00	14.551,69	0,23	0,46
Gaseous Fuels	103.595,34	NCV	57,10	147,17	1,00	5.915,29	15,25	0,10
Biomass	44.005,60	NCV	98,43	28,77	3,88 [3]	4.331,33	1,27	0,17
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
a. Public Electricity and Heat Production	346.099,51	NCV				22.838,77	16,69	0,79
Liquid Fuels	70.559,45	NCV	54,01	1,71	1,16	3.810,94	0,12	0,08
Solid Fuels	153.175,67	NCV	95,00	1,50	3,00	14.551,69	0,23	0,46
Gaseous Fuels	78.391,30	NCV	57,10	192,46	1,00	4.476,14	15,09	0,08
Biomass	43.973,09	NCV	98,44	28,48	3,88 [3]	4.328,62	1,25	0,17
Other Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
b. Petroleum Refining	16.542,72	NCV				972,24	0,00	0,02
Liquid Fuels	16.542,72	NCV	58,77	0,28	1,08	972,24	0,00	0,02
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00	0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00 [3]			
Other Fuels	0,00	NCV	0,00	0,00	0,00			
c. Manufacture of Solid Fuels and Other Energy Industries	25.236,54	NCV				1.439,15	0,17	0,03
Liquid Fuels	0,00	NCV	0,00	0,00	0,00			
Solid Fuels	0,00	NCV	0,00	0,00	0,00			
Gaseous Fuels	25.204,03	NCV	57,10	6,30	1,00	1.439,15	0,16	0,03
Biomass	32,51	NCV	83,60	434,00	1,02 [3]	2,72	0,01	0,00
Other Fuels	0,00	NCV	0,00	0,00	0,00			

[1] Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

[2] Accurate estimation of CH_4 and N_2O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

[3] Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, soild, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.2 Manufacturing Industries and Construction	**89.476,04**	NCV					**5.823,11**	**1,73**	**0,18**
Liquid Fuels	31.487,44	NCV	77,49	7,96	2,61		2.439,88	0,25	0,08
Solid Fuels	11.620,78	NCV	95,00	15,00	3,00		1.103,97	0,17	0,03
Gaseous Fuels	39.916,91	NCV	57,10	27,81	1,00		2.279,26	1,11	0,04
Biomass	6.450,91	NCV	101,44	29,59	3,97	[3]	654,38	0,19	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Iron and Steel	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Solid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Gaseous Fuels	IE/NO	NCV	0,00	0,00	0,00				
Biomass	IE/NO	NCV	0,00	0,00	0,00	[3]			
Other Fuels	IE/NO	NCV	0,00	0,00	0,00				
b. Non-Ferrous Metals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Solid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Gaseous Fuels	IE/NO	NCV	0,00	0,00	0,00				
Biomass	IE/NO	NCV	0,00	0,00	0,00	[3]			
Other Fuels	IE/NO	NCV	0,00	0,00	0,00				
c. Chemicals	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Solid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Gaseous Fuels	IE/NO	NCV	0,00	0,00	0,00				
Biomass	IE/NO	NCV	0,00	0,00	0,00	[3]			
Other Fuels	IE/NO	NCV	0,00	0,00	0,00				
d. Pulp, Paper and Print	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Solid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Gaseous Fuels	IE/NO	NCV	0,00	0,00	0,00				
Biomass	IE/NO	NCV	0,00	0,00	0,00	[3]			
Other Fuels	IE/NO	NCV	0,00	0,00	0,00				
e. Food Processing, Beverages and Tobacco	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Solid Fuels	IE/NO	NCV	0,00	0,00	0,00				
Gaseous Fuels	IE/NO	NCV	0,00	0,00	0,00				
Biomass	IE/NO	NCV	0,00	0,00	0,00	[3]			
Other Fuels	IE/NO	NCV	0,00	0,00	0,00				
f. Other *(please specify)*	89.476,04	NCV					5.823,11	1,73	0,18
Liquid Fuels	31.487,44	NCV	77,49	7,96	2,61		2.439,88	0,25	0,08
Solid Fuels	11.620,78	NCV	95,00	15,00	3,00		1.103,97	0,17	0,03
Gaseous Fuels	39.916,91	NCV	57,10	27,81	1,00		2.279,26	1,11	0,04
Biomass	6.450,91	NCV	101,44	29,59	3,97	[3]	654,38	0,19	0,03
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 3 of 4)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.3 Transport	**163.649,67**	NCV					**12.028,14**	**3,40**	**1,24**
Gasoline	85.608,54	NCV	72,98	34,82	10,11		6.247,62	2,98	0,87
Diesel	77.506,65	NCV	74,08	4,62	4,81		5.741,52	0,36	0,37
Natural Gas	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
Biomass	0,00	NCV	0,00	0,00	0,00	[3]	0,00	0,00	0,00
Other Fuels	534,48	NCV	72,98	107,92	0,53		39,01	0,06	0,00
a. Civil Aviation	1.907,13	NCV					137,42	0,01	0,01
Aviation Gasoline	101,40	NCV	73,00	21,90	2,00		7,40	0,00	0,00
Jet Kerosene	1.805,73	NCV	72,00	1,59	3,85		130,01	0,00	0,01
b. Road Transportation	152.882,85	NCV					11.229,62	3,31	1,20
Gasoline	83.701,40	NCV	73,00	35,56	10,25		6.110,20	2,98	0,86
Diesel Oil	69.180,33	NCV	74,00	4,82	4,95		5.119,34	0,33	0,34
Natural Gas	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00	[3]			
Other Fuels *(please specify)*	1,12	NCV					0,07	0,00	0,00
LPG	1,12	NCV	65,00	23,22	5,36		0,07	0,00	0,00
c. Railways	3.086,45	NCV					228,39	0,01	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Liquid Fuels	3.086,45	NCV	74,00	4,84	2,06		228,39	0,01	0,01
Other Fuels *(please specify)*	0,00	NCV					0,00	0,00	0,00
	0,00	NCV	0,00	0,00	0,00				
d. Navigation	5.773,23	NCV					432,72	0,07	0,02
Coal	0,00	NCV	0,00	0,00	0,00				
Residual Oil	1.508,81	NCV	78,00	1,76	4,90		117,69	0,00	0,01
Gas/Diesel Oil	3.731,06	NCV	74,00	1,95	4,54		276,10	0,01	0,02
Other Fuels *(please specify)*	533,36	NCV					38,94	0,06	0,00
Kerosene, Gasoline, LPG	533,36	NCV	73,00	108,10	0,52		38,94	0,06	0,00
e. Other Transportation	0,00	NCV					0,00	0,00	0,00
Liquid Fuels	0,00	NCV	0,00	0,00	0,00				
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS [2]				EMISSIONS		
	Consumption		CO_2	CH_4	N_2O		CO_2	CH_4	N_2O
	(TJ)	[1]	(t/TJ)	(kg/TJ)	(kg/TJ)		(Gg)	(Gg)	(Gg)
1.A.4 Other Sectors	**130.535,28**	NCV					**7.481,88**	**11,64**	**0,28**
Liquid Fuels	66.941,02	NCV	73,91	7,86	2,63		4.947,86	0,53	0,18
Solid Fuels	1.124,41	NCV	95,00	15,00	3,00		106,82	0,02	0,00
Gaseous Fuels	42.507,97	NCV	57,10	78,58	1,00		2.427,21	3,34	0,04
Biomass	19.961,88	NCV	100,93	388,60	2,89 [3]		2.014,84	7,76	0,06
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
a. Commercial/Institutional	14.147,96	NCV					806,79	1,08	0,02
Liquid Fuels	5.618,66	NCV	73,58	6,55	1,96		413,44	0,04	0,01
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	6.888,81	NCV	57,10	85,71	1,00		393,35	0,59	0,01
Biomass	1.640,49	NCV	90,49	275,42	1,79 [3]		148,44	0,45	0,00
Other Fuels	0,00	NCV	0,00	0,00	0,00		0,00	0,00	0,00
b. Residential	77.212,27	NCV					4.063,14	7,56	0,14
Liquid Fuels	32.561,67	NCV	73,70	10,71	1,96		2.399,68	0,35	0,06
Solid Fuels	45,20	NCV	95,00	15,00	3,01		4,29	0,00	0,00
Gaseous Fuels	29.057,26	NCV	57,10	34,10	1,00		1.659,17	0,99	0,03
Biomass	15.548,13	NCV	102,00	400,00	3,00 [3]		1.585,91	6,22	0,05
Other Fuels	0,00	NCV	0,00	0,00	0,00				
c. Agriculture/Forestry/Fisheries	39.175,06	NCV					2.611,94	3,00	0,12
Liquid Fuels	28.760,69	NCV	74,22	4,89	3,52		2.134,73	0,14	0,10
Solid Fuels	1.079,21	NCV	95,00	15,00	3,00		102,53	0,02	0,00
Gaseous Fuels	6.561,90	NCV	57,10	268,03	1,00		374,68	1,76	0,01
Biomass	2.773,26	NCV	101,14	391,65	2,91 [3]		280,49	1,09	0,01
Other Fuels	0,00	NCV	0,00	0,00	0,00				
1.A.5 Other (Not elsewhere specified)[4]	**1.524,74**	NCV					**110,53**	**0,01**	**0,00**
Liquid Fuels	1.524,74	NCV	72,49	3,30	2,94		110,53	0,01	0,00
Solid Fuels	0,00	NCV	0,00	0,00	0,00				
Gaseous Fuels	0,00	NCV	0,00	0,00	0,00				
Biomass	0,00	NCV	0,00	0,00	0,00 [3]				
Other Fuels	0,00	NCV	0,00	0,00	0,00				

[4] Include military fuel use under this category.

Documentation Box:

1A 2f-note: Manufacturing Industries and Construction incl. industry mobile sources and machinery

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO_2 from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor [1] (TJ/Unit)	[1]	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO_2 emissions (Gg CO_2)
Liquid Fossil	Primary Fuels	Crude Oil	TJ	765.173,00	159.349,00	########		2.254,00	346.303,00	1,00	NCV	346.303,00	20,00	6.926,06		6.926,06	1,00	25.395,55
		Orimulsion	TJ	0,00	33.543,00	0,00		-599,00	34.142,00	1,00	NCV	34.142,00	22,00	751,12		751,12	1,00	2.754,12
		Natural Gas Liquids	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	17,20	0,00		0,00	1,00	0,00
	Secondary Fuels	Gasoline	TJ		56.808,00	61.544,00	5,00	-2.024,00	-2.717,00	1,00	NCV	-2.717,00	18,90	-51,35		-51,35	1,00	-188,29
		Jet Kerosene	TJ		29.325,00	15.142,00	32.831,00	-334,00	-18.314,00	1,00	NCV	-18.314,00	19,50	-357,12		-357,12	1,00	-1.309,45
		Other Kerosene	TJ		0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	19,60	0,00		0,00	1,00	0,00
		Shale Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Gas / Diesel Oil	TJ		84.708,00	52.037,00	22.872,00	-2.900,00	12.699,00	1,00	NCV	12.699,00	20,20	256,52	0,00	256,52	1,00	940,57
		Residual Fuel Oil	TJ		30.446,00	58.590,00	33.165,00	-8.511,00	-52.798,00	1,00	NCV	-52.798,00	21,10	-1.114,04		-1.114,04	1,00	-4.084,81
		LPG	TJ		370,00	5.027,00		8,00	-4.665,00	1,00	NCV	-4.665,00	17,20	-80,24	0,00	-80,24	1,00	-294,21
		Ethane	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	16,80	0,00	0,00	0,00	1,00	0,00
		Naphtha	TJ		1.061,00	192,00		123,00	746,00	1,00	NCV	746,00	20,00	14,92	15,89	-0,97	1,00	-3,55
		Bitumen	TJ		9.255,00	602,00		62,00	8.591,00	1,00	NCV	8.591,00	22,00	189,00	194,83	-5,83	1,00	-21,38
		Lubricants	TJ		2.815,00	508,00	20,00	-149,00	2.436,00	1,00	NCV	2.436,00	20,00	48,72	21,81	26,91	1,00	98,67
		Petroleum Coke	TJ		8.719,00	1.669,00		-980,00	8.030,00	1,00	NCV	8.030,00	27,50	220,83		220,83	1,00	809,69
		Refinery Feedstocks	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
		Other Oil	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	20,00	0,00		0,00	1,00	0,00
Liquid Fossil Totals												334.453,00		6.804,42	232,53	6.571,89		24.096,93
Solid Fossil	Primary Fuels	Anthracite [2]	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	26,80	0,00		0,00	1,00	0,00
		Coking Coal	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00	0,00	0,00	1,00	0,00
		Other Bit. Coal	TJ	0,00	160.081,00	3.043,00	0,00	-8.627,00	165.665,00	1,00	NCV	165.665,00	25,80	4.274,16		4.274,16	1,00	15.671,91
		Sub-bit. Coal	TJ	0,00	0,00	0,00	0,00	0,00	0,00	1,00	NCV	0,00	26,20	0,00		0,00	1,00	0,00
		Lignite	TJ	0,00	19,00	11,00		2,00	6,00	1,00	NCV	6,00	27,60	0,17		0,17	1,00	0,61
		Oil Shale	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,10	0,00		0,00	1,00	0,00
		Peat	TJ	0,00	0,00	0,00		0,00	0,00	1,00	NCV	0,00	28,90	0,00		0,00	1,00	0,00
	Secondary Fuels	BKB & Patent Fuel	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	25,80	0,00		0,00	1,00	0,00
		Coke Oven/Gas Coke	TJ		0,00	0,00		0,00	0,00	1,00	NCV	0,00	29,50	0,00		0,00	1,00	0,00
Solid Fuel Totals												165.671,00		4.274,32	0,00	4.274,32		15.672,52
Gaseous Fossil		Natural Gas (Dry)	TJ	310.295,00	0,00	########		3.106,00	186.511,00	1,00	NCV	186.511,00	15,30	2.853,62	0,00	2.853,62	1,00	10.463,27
Total												**686.635,00**		**13.932,36**	**232,53**	**13.699,83**		**50.232,72**
Biomass total												70.439,00		2.084,94	0,00	2.084,94		7.644,77
		Solid Biomass	TJ	65.955,00	1.520,00	0,00		0,00	67.475,00	1,00	NCV	67.475,00	29,90	2.017,50		2.017,50	1,00	7.397,51
		Liquid Biomass	TJ	52,00	0,00	0,00		0,00	52,00	1,00	NCV	52,00	20,00	1,04		1,04	1,00	3,81
		Gas Biomass	TJ	2.912,00	0,00	0,00		0,00	2.912,00	1,00	NCV	2.912,00	22,80	66,39		66,39	1,00	243,44

[1] To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

[2] If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO_2 EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

FUEL TYPES	Reference approach		National approach [1]		Difference [2]	
	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (PJ)	CO_2 emissions (Gg)	Energy consumption (%)	CO_2 emissions (%)
Liquid Fuels (excluding international bunkers)	334,45	24.096,93	350,17	24.270,58	-4,49	-0,72
Solid Fuels (excluding international bunkers)	165,67	15.672,52	165,92	15.762,48	-0,15	-0,57
Gaseous Fuels	186,51	10.463,27	186,02	10.621,75	0,26	-1,49
Other [3]	18,31	581,86	0,53	39,01	3.324,85	1.391,64
Total [3]	**704,94**	**50.814,58**	**702,65**	**50.693,82**	**0,33**	**0,24**

[1] "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO_2 emissions from fuel combustion reported in the national GHG inventory.

[2] Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

[3] Emissions from biomass are not included.

Note: In addition to estimating CO_2 emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

Non-energy use of fuels is not included in the Danish National Approach. Fuel consumption for non-energy is subtracted in Reference Approach to make results comparable.
CO2 emission from plastic part of municipal wastes is included in the Danish National Approach. Thus the energy content of combusted municipal wastes is included in liquid fuels in table 1A(c).
Correction of this will be considered in future inventories. For now energy content of municipal waste is added in Reference Approach to make results comparable.
CO2 emission from the plastic part of municipal wastes is added in Reference Approach according to decision to include this emission.

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

FUEL TYPE [1]	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE	Additional information [a]	
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non energy use of fuels (Gg C)	CO_2 not emitted (Gg CO_2)	Subtracted from energy sector *(specify source category)*
Naphtha [2]	993,00	0,80	20,00	15,89	58,26	
Lubricants	2.181,00	0,50	20,00	21,81	79,97	
Bitumen	8.856,00	1,00	22,00	194,83	714,38	
Coal Oils and Tars (from Coking Coal)			0,00		0,00	
Natural Gas [2]			0,00		0,00	
Gas/Diesel Oil [2]			0,00		0,00	
LPG [2]			0,00		0,00	
Butane [2]			0,00		0,00	
Ethane [2]			0,00		0,00	
Other *(please specify)*						
			0,00		0,00	

[1] Where fuels are used in different industries, please enter in different rows.
[2] Enter these fuels when they are used as feedstocks.

[a] The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.

Associated CO_2 emissions (Gg)	Allocated under *(Specify source category)* [a]

[a] e.g. Industrial Processes, Waste Incineration, etc.

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Solid Fuels
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced [1] (Mt)	CH_4 (kg/t)	CO_2 (kg/t)	CH_4 (Gg)	CO_2 (Gg)
1. B. 1. a. Coal Mining and Handling	0,00			0,00	0,00
i. Underground Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
ii. Surface Mines[2]	0,00	0,00	0,00	0,00	0,00
Mining Activities		0,00	0,00		
Post-Mining Activities		0,00	0,00		
1. B. 1. b. Solid Fuel Transformation	0,00	0,00	0,00		
1. B. 1. c. Other *(please specify)* [3]				3,32	0,00
Storage of solid fuel	7,01	0,47	0,00	3,32	

Additional information [a]

Description	Value
Amount of CH_4 drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

[a] For underground mines.

[1] Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

[2] Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

[3] Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil and Natural Gas
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description [1]	Unit	Value	CO_2 *(kg/unit)* [2]	CH_4 *(kg/unit)* [2]	N_2O *(kg/unit)* [2]	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
1. B. 2. a. Oil [3]							**0,00**	**0,05**	
i. Exploration	*(e.g. number of wells drilled)*		0,00	0,00	0,00				
ii. Production [4]	*(e.g. PJ of oil produced)*		0,00	0,00	0,00				
iii. Transport	*(e.g. PJ oil loaded in tankers)*		0,00	0,00	0,00				
iv. Refining / Storage	*(e.g. PJ oil refined)*		0,00	0,00	0,00				
v. Distribution of oil products	*(e.g. PJ oil refined)*	Mg product	2001019	0,00	0,00			0,00	
vi. Other		Mg crude	5300000	0,00	0,01			0,05	
1. B. 2. b. Natural Gas							**0,00**	**10,17**	
Exploration				0,00	0,00				
i. Production [4] / Processing	*(e.g. PJ gas produced)*	1000 m3	2500010	0,00	0,66		0,00	1,64	
ii. Transmission	*(e.g. PJ gas consumed)*	1000 m3	3800103	0,00	2,24		0,00	8,53	
Distribution	*(e.g. PJ gas consumed)*			0,00	0,00				
iii. Other Leakage	*(e.g. PJ gas consumed)*			0,00	0,00				
at industrial plants and power stations				0,00	0,00				
in residential and commercial sectors				0,00	0,00				
1. B. 2. c. Venting [5]							**0,00**	**0,00**	
i. Oil	*(e.g. PJ oil produced)*			0,00	0,00				
ii. Gas	*(e.g. PJ gas produced)*			0,00	0,00				
iii. Combined				0,00	0,00				
Flaring							**593,20**	**1,63**	**0,01**
i. Oil	*(e.g. PJ gas consumption)*	Gj	336541	57,10	0,00	0,00	19,22		0,00
ii. Gas	*(e.g. PJ gas consumption)*	Gj	10052192	57,10	0,16	0,00	573,98	1,63	0,01
iii. Combined				0,00	0,00	0,00			
1.B.2.d. Other *(please specify)* [6]							**0,00**	**0,00**	**0,00**
				0,00	0,00	0,00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput [a]		
Oil throughput [a]		
Other relevant information *(specify)*		

[a] In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

[1] Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

[2] The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

[3] Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

[4] If using default emission factors these categories will include emissions from production other than venting and flaring.

[5] If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

[6] For example, fugitive CO_2 emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO_2 (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 (Gg)	CH_4 (Gg)	N_2O (Gg)
Marine Bunkers	**56.057,73**				**4.281,01**	**0,10**	**0,27**
Gasoline	0,00	0,00	0,00	0,00			
Gas/Diesel Oil	22.872,34	74,00	1,69	4,70	1.692,55	0,04	0,11
Residual Fuel Oil	33.185,39	78,00	1,76	4,90	2.588,46	0,06	0,16
Lubricants	0,00	0,00	0,00	0,00			
Coal	0,00	0,00	0,00	0,00			
Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		0,00	0,00	0,00			
Aviation Bunkers	**32.866,80**				**2.366,42**	**0,04**	**0,08**
Jet Kerosene	32.858,10	72,00	1,26	2,54	2.365,78	0,04	0,08
Gasoline	8,71	73,00	21,94	1,95	0,64	0,00	0,00
Multilateral Operations [1]							

Additional information

Fuel consumption	Allocation [a] (percent)	
	Domestic	International
Marine	9,34	90,66
Aviation	5,48	94,52

[a] For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

[1] Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Total Industrial Processes	**1.453,00**	**0,00**	**0,00**	**1.707,71**	**730,15**	**48,18**	**28,30**	**0,01**	**0,00**	**0,41**	**0,00**	**0,47**	**0,00**
A. Mineral Products	**1.453,00**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
1. Cement Production	1.348,16												
2. Lime Production	104,84												
3. Limestone and Dolomite Use	0,00												
4. Soda Ash Production and Use	0,00												
5. Asphalt Roofing	0,00												
6. Road Paving with Asphalt	0,00												
7. Other *(please specify)*	0,00	0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,41**	**0,00**	**0,00**	**0,00**
1. Ammonia Production	0,00	0,00											
2. Nitric Acid Production			0,00							0,41			
3. Adipic Acid Production			0,00										
4. Carbide Production	0,00	0,00											
5. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
													0,00
C. Metal Production	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1. Iron and Steel Production	0,00	0,00											
2. Ferroalloys Production	0,00	0,00											
3. Aluminium Production	0,00	0,00					0,00						
4. SF_6 Used in Aluminium and Magnesium Foundries									0,00				
5. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
D. Other Production	**0,00**									**0,00**	**0,00**	**0,47**	**0,00**
1. Pulp and Paper													
2. Food and Drink[2]	0,00											0,47	
E. Production of Halocarbons and SF_6					**0,00**		**0,00**		**0,00**				
1. By-product Emissions					0,00		0,00		0,00				
Production of HCFC-22					0,00								
Other					0,00		0,00		0,00				
2. Fugitive Emissions					0,00		0,00		0,00				
3. Other *(please specify)*					0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6				**1.707,71**	**730,15**	**48,18**	**28,30**	**0,01**	**0,00**				
1. Refrigeration and Air Conditioning Equipment				1.360,82	550,00	44,40	24,52		0,00				
2. Foam Blowing				331,94	166,10		0,00		0,00				
3. Fire Extinguishers					0,00		0,00		0,00				
4. Aerosols/ Metered Dose Inhalers				14,95	14,04		0,00		0,00				
5. Solvents					0,00		0,00		0,00				
6. Semiconductor Manufacture					0,00		0,00		0,00				
7. Electrical Equipment								0,00	0,00				
8. Other *(please specify)*				0,00	0,00	3,78	3,78	0,00	0,00				
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.						3,78	3,78	0,00	0,00				
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[2] CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

2000

(Sheet 1 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
A. Mineral Products						**1.453,00**		**0,00**		**0,00**	
1. Cement Production	*(e.g. cement or clinker production)*	2.505,88	0,54			1.348,16					
2. Lime Production		504,08	0,21			104,84					
3. Limestone and Dolomite Use		0,00	0,00								
4. Soda Ash						0,00					
Soda Ash Production		0,00	0,00								
Soda Ash Use			0,00								
5. Asphalt Roofing		0,00	0,00								
6. Road Paving with Asphalt		0,00	0,00								
7. Other *(please specify)*						0,00		0,00		0,00	
Glass Production			0,00								
		0,00	0,00	0,00	0,00						
B. Chemical Industry						**0,00**		**0,00**		**0,00**	
1. Ammonia Production [3]		0,00	0,00	0,00	0,00						
2. Nitric Acid Production		433,00			0,00						
3. Adipic Acid Production		0,00			0,00						
4. Carbide Production			0,00	0,00		0,00		0,00			
Silicon Carbide		0,00	0,00	0,00							
Calcium Carbide			0,00	0,00							
5. Other *(please specify)*						0,00		0,00		0,00	
Carbon Black				0,00							
Ethylene			0,00	0,00	0,00						
Dichloroethylene				0,00							
Styrene				0,00							
Methanol				0,00							
		0,00	0,00	0,00	0,00						

[1] Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

[2] Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

[3] To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Emissions of CO_2, CH_4 and N_2O

2000

(Sheet 2 of 2)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS[2]					
	Production/Consumption Quantity		CO_2	CH_4	N_2O	CO_2		CH_4		N_2O	
	Description [1]	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	[2]	(Gg)	[2]	(Gg)	[2]
C. Metal Production [4]						**0,00**		**0,00**		**0,00**	
1. Iron and Steel Production		0,00	0,00			0,00		0,00			
Steel		0,00	0,00								
Pig Iron		0,00	0,00	0,00							
Sinter		0,00	0,00	0,00							
Coke		0,00	0,00	0,00							
Other *(please specify)*						0,00		0,00			
		0,00	0,00	0,00	0,00						
2. Ferroalloys Production		0,00	0,00	0,00							
3. Aluminium Production		0,00	0,00	0,00							
4. SF_6 Used in Aluminium and Magnesium Foundries											
5. Other *(please specify)*						0,00		0,00		0,00	
		4,53	0,00	0,00	0,00						
D. Other Production						**0,00**					
1. Pulp and Paper											
2. Food and Drink			0,00								
G. Other *(please specify)*						**0,00**		**0,00**		**0,00**	
		0,00	0,00	0,00	0,00	0,00					

[4] More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this.

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 1 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs[1]	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs[1]	SF_6
	(t)[2]																						
Total Actual Emissions of Halocarbons (by chemical) and SF_6	**0,00**	**8,97**	**0,00**	**0,00**	**57,74**	**0,00**	**281,16**	**17,19**	**0,00**	**51,24**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**4,04**	**0,00**	**0,00**	**0,00**	**0,00**		**2,48**
C. Metal Production															**0,00**	**0,00**							**0,89**
Aluminium Production															0,00	0,00							
SF_6 Used in Aluminium Foundries																							0,00
SF_6 Used in Magnesium Foundries																							0,89
E. Production of Halocarbons and SF_6	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
1. By-product Emissions	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
Production of HCFC-22	0,00																						
Other																							
2. Fugitive Emissions																							
3. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
F(a). Consumption of Halocarbons and SF_6 (actual emissions - Tier 2)	**0,00**	**8,97**	**0,00**	**0,00**	**57,74**	**0,00**	**281,16**	**17,19**	**0,00**	**51,24**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**4,04**	**0,00**	**0,00**	**0,00**	**0,00**		**1,59**
1. Refrigeration and Air Conditioning Equipment		8,97			57,74		144,32	1,15		51,24							3,50						
2. Foam Blowing							126,04	16,05															
3. Fire Extinguishers																							
4. Aerosols/Metered Dose Inhalers							10,80																
5. Solvents																							
6. Semiconductor Manufacture																							
7. Electrical Equipment																							0,47
8. Other *(please specify)*	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,54	0,00	0,00	0,00	0,00		1,12
Emissions of SF6 from (1) window plate production and (2) running shoes and of PFC used as detergent.																	0,54						1,12
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**

[1] Although shaded, the columns with HFCs and PFCs totals on sheet 1 are kept for consistency with sheet 2 of the table.

[2] Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell.
Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF_6
(Sheet 2 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mee	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF_4	C_2F_6	C_3F_8	C_4F_{10}	c-C_4F_8	C_5F_{12}	C_6F_{14}	Total PFCs	SF_6
	(t)[2]																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF_6 [3]	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**		**0,00**
Production[4]																							
Import:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Export:	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00		0,00
In bulk																							
In products [5]																							
Destroyed amount																							

GWP values used	**11700**	**650**	**150**	**1300**	**2800**	**1000**	**1300**	**140**	**300**	**3800**	**2900**	**6300**	**560**		**6500**	**9200**	**7000**	**7000**	**8700**	**7500**	**7400**		**23900**
Total Actual Emissions [6] (Gg CO_2 eq.)	**0,00**	**5,83**	**0,00**	**0,00**	**161,67**	**0,00**	**365,51**	**2,41**	**0,00**	**194,73**	**0,00**	**0,00**	**0,00**	**730,15**	**0,00**	**0,00**	**28,30**	**0,00**	**0,00**	**0,00**	**0,00**	**28,30**	**59,25**
C. Metal Production															0,00	0,00						0,00	21,29
E. Production of Halocarbons and SF_6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F(a). Consumption of Halocarbons and SF_6	0,00	5,83	0,00	0,00	161,67	0,00	365,51	2,41	0,00	194,73	0,00	0,00	0,00	730,15	0,00	0,00	28,30	0,00	0,00	0,00	0,00	28,30	37,95
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF_6																							
Actual emissions - F(a) (Gg CO_2 eq.)	0,00	5,83	0,00	0,00	161,67	0,00	365,51	2,41	0,00	194,73	0,00	0,00	0,00	730,15	0,00	0,00	28,30	0,00	0,00	0,00	0,00	28,30	37,95
Potential emissions - F(p) (7) (Gg CO_2 eq.)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Potential/Actual emissions ratio	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[3] Potential emissions of each chemical of halocarbons and SF6 estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

[4] Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

[5] Relevant just for Tier 1b.

[6] Sums of the actual emissions of each chemical of halocarbons and SF6 from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

[7] Potential emissions of each chemical of halocarbons and SF6 taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF_6, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO_2 equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

Denmark

Metal Production; Production of Halocarbons and SF_6

2000

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS[2]	EMISSIONS[2]	
	Description [1]	(t)	(kg/t)	(t)	[3]
C. PFCs and SF_6 from Metal Production					
PFCs from Aluminium Production					
CF_4			0,00		
C_2F_6			0,00		
SF_6				0,89	
Aluminium Foundries	*(SF_6 consumption)*		0,00		
Magnesium Foundries			0,00	0,89	
E. Production of Halocarbons and SF_6					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0,00		
Other *(specify chemical)*					
			0,00		
2. Fugitive Emissions					
HFCs *(specify chemical)*					
			0,00		
PFCs *(specify chemical)*					
			0,00		
SF_6			0,00		
3. Other *(please specify)*					
			0,00		

[1] Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

[2] Emissions and implied emission factors are after recovery.

[3] Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this.

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 1 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration *(Specify chemical)* [2]									
(e.g. HFC-32)									
(e.g. HFC-125)									
(e.g. HFC-134a)									
(e.g. HFC-152a)									
(e.g. HFC-143a)									
Commercial Refrigeration									
Transport Refrigeration									
Industrial Refrigeration									
Stationary Air-Conditioning									
Mobile Air-Conditioning									
2 Foam Blowing									
Hard Foam									
Soft Foam									

[1] Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relavant information used in the emission estimation.

[2] Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disagregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF6 using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF_6
(Sheet 2 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA *Amount of fluid*			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning [1]	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other ***(please specify)***									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	N_2O	NMVOC
	(Gg)		
Total Solvent and Other Product Use	**111,75**	**0,00**	**38,01**
A. Paint Application	**72,37**		**23,22**
B. Degreasing and Dry Cleaning	**0,00**		
C. Chemical Products, Manufacture and Processing			**2,15**
D. Other *(please specify)*	39,38	0,00	12,64
(Use of N_2O for Anaesthesia)	0,00		
(N_2O from Fire Extinguishers)	0,00		
(N_2O from Aerosol Cans)	0,00		
(Other Use of N_2O)	0,00		
	39,38		12,64

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO_2 columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N_2O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS	
	Description	(kt)	CO_2 (t/t)	N_2O (t/t)
A. Paint Application		**0,00**	**0,00**	**0,00**
B. Degreasing and Dry Cleaning		**0,00**	**0,00**	**0,00**
C. Chemical Products, Manufacture and Processing				
D. Other *(please specify)* [1]				
(Use of N_2O for Anaesthesia)		0,00	0,00	0,00
(N_2O from Fire Extinguishers)		0,00	0,00	0,00
(N_2O from Aerosol Cans)		0,00	0,00	0,00
(Other Use of N_2O)		0,00	0,00	0,00

[1] Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
Total Agriculture	**168,14**	**26,75**	**0,00**	**0,00**	**1,19**
A. Enteric Fermentation	**127,28**				
1. Cattle	111,69				
Dairy Cattle	66,09				
Non-Dairy Cattle	45,60				
2. Buffalo	NO				
3. Sheep	0,54				
4. Goats	NE				
5. Camels and Llamas	NO				
6. Horses	0,72				
7. Mules and Asses	NO				
8. Swine	14,33				
9. Poultry	NE				
10. Other *(please specify)*	0,00				
B. Manure Management	**40,86**	**1,42**			**0,00**
1. Cattle	15,83				
Dairy Cattle	13,85				
Non-Dairy Cattle	1,97				
2. Buffalo	NO				
3. Sheep	0,03				
4. Goats	NE				
5. Camels and Llamas	NO				
6. Horses	0,04				
7. Mules and Asses	NO				
8. Swine	24,29				
9. Poultry	0,68				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O	NO_x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons					NE
11. Liquid Systems		0,20			NE
12. Solid Storage and Dry Lot		1,22			NE
13. Other *(please specify)*		0,00			0,00
C. Rice Cultivation	0,00				**0,00**
1. Irrigated	0,00				NO
2. Rainfed	0,00				NO
3. Deep Water	0,00				NO
4. Other *(please specify)*	0,00				0,00
D. Agricultural Soils [1]	**0,00**	**25,33**			**1,19**
1. Direct Soil Emissions	NE	15,99			1,19
2. Animal Production	NE	0,85			NE
3. Indirect Emissions	NE	8,34			NE
4. Other *(please specify)*	0,00	0,16			0,00
E. Prescribed Burning of Savannas	**0,00**	**0,00**			
F. Field Burning of Agricultural Residues	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
1 . Cereals	0,00	0,00	NO	NO	NO
2. Pulse	0,00	0,00	NO	NO	NO
3 . Tuber and Root	0,00	0,00	NO	NO	NO
4 . Sugar Cane	0,00	0,00	NO	NO	NO
5 . Other *(please specify)*	0,00	0,00	0,00	0,00	0,00
G. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO_2 emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

Note: The IPCC Guidelines do not provide methodologies for the calculation of CH_4 emissions, CH_4 and N_2O removals from agricultural soils, or CO_2 emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE
Enteric Fermentation
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA[1] AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS
	Population size[2] (1000 head)	Average daily feed intake (MJ/day)	CH_4 conversion (%)	CH_4 (kg CH_4/head/yr)
1. Cattle				0,00
Dairy Cattle[3]	636			104,00
Non-Dairy Cattle	1.232			37,00
2. Buffalo	0			0,00
3. Sheep	68			8,00
4. Goats	0			0,00
5. Camels and Llamas	0			0,00
6. Horses	40			18,00
7. Mules and Asses	0			0,00
8. Swine	9.553			1,50
9. Poultry	20.576			#VALUE!
10. Other *(please specify)*				
				0,00

Additional information (for Tier 2)[a]

Disaggregated list of animals[b] / Indicators:		Dairy Cattle	Non-Dairy Cattle	Other *(specify)*	
Weight	(kg)	550,00			
Feeding situation[c]					
Milk yield	(kg/day)	19,10			
Work	(hrs/day)				
Pregnant	(%)	90,00			
Digestibility of feed	(%)	71,00			

[a] Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

[b] Disaggregate to the split actually used. Add columns to the table if necessary.

[c] Specify feeding situation as pasture, stall fed, confined, open range, etc.

[1] In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

[2] Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH_4 emissions from enteric fermentation, CH_4 and N_2O from manure management, N_2O direct emissions from soil and N_2O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

[3] Including data on dairy heifers, if available.

Documentation box:

Activity data is one year average from Agriculture Statistics published by Statistics Denmark.
Emission factors are based on a Tier 2 approach for Cattle, Tier 1 for the other categories.
The relevant data not filled in is available in the model and the report referred to in the NIR

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE

CH_4 Emissions from Manure Management

(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS CH_4
	Population size [1]	Allocation by climate region [2]			Typical animal mass	VS[3] daily excretion	CH_4 producing potential (Bo)[3]	
		Cool	Temperate	Warm				
	(1000 head)	(%)			(kg)	(kg dm/head/yr)	(CH_4 m^3/kg VS)	(kg CH_4/head/yr)
1. Cattle								0,00
Dairy Cattle[4]	636	100			550,0	2.115,0	0,25	21,80
Non-Dairy Cattle	1.232	100					0,17	1,60
2. Buffalo	0							0,00
3. Sheep	68	100				400,0	0,17	0,46
4. Goats	0							0,00
5. Camels and Llamas	0							0,00
6. Horses	40	100				967,0	0,17	1,10
7. Mules and Asses	0							0,00
8. Swine	9.553	100					0,45	2,54
9. Poultry	20.576	100					0,45	0,03

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

[3] VS=Volatile Solids; Bo=maximum methane producing capacity for manure IIPCC Guidelines (Volume 3, Reference Manual, p.4.23 and p. 4.15.

[4] Including data on diary heifers, if available.

Documentation Box:

Activity data is one year average from Agriculture Statistics published by Statistics Denmark.
Emission factors are based on a Tier 2 approach.
The relevant data not filled in is available in the model and the report referred to in the NIR

Additional information (for Tier 2)

Animal category[a]	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF[b]	Cool						
		Temperate						
		Warm						

[a] Copy the above table as many times as necessary.

[b] MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3. Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

N_2O Emissions from Manure Management

2000

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS	
	Population size [1] (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system (kg N_2O-N/kg N)	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other		
Non-Dairy Cattle	636								Anaerobic lagoon	0,000
Dairy Cattle	1.232								Liquid system	0,000
Sheep	68								Solid storage and dry lot	0,000
Swine	9.553								Other	0,000
Poultry	20.576									
Other *(please specify)*										
Total per AWMS [2]			**0,0**	**0,0**	**0,0**	**0,0**	**0,0**	**0,0**		

[1] See footnote 1 to Table 4.A of this common reporting format.

[2] AWMS - Animal Waste Management System.

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Rice Cultivation

2000

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR [1]	EMISSIONS
		Harvested area [2] (10^{-9} m^2/yr)	Organic amendments added[3]: type	Organic amendments added[3]: (t/ha)	CH_4 (g/m^2)	CH_4 (Gg)
1. Irrigated						**0,00**
Continuously Flooded					0,00	
Intermittently Flooded	Single Aeration				0,00	
	Multiple Aeration				0,00	
2. Rainfed						**0,00**
Flood Prone					0,00	
Drought Prone					0,00	
3. Deep Water						**0,00**
Water Depth 50-100 cm					0,00	
Water Depth > 100 cm					0,00	
4. Other *(please specify)*						**0,00**
					0,00	
Upland Rice[4]						
Total [4]		0,00				

[1] The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organic amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

[2] Harvested area is the cultivated area multiplied by the number of cropping seasons per year.

[3] Specify dry weight or wet weight for organic amendments.

[4] These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculations.

Documentation box:

When dissagregating by more than one region within a country, provide additional information in the documentation box.
Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Agricultural Soils[(1)]

2000

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS
	Description	Value	Unit		(Gg N_2O)
Direct Soil Emissions	**N input to soils (kg N/yr)**				**15,99**
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)	256.900.000	(kg N2O-N/kg N)[(2)]	0,012	4,73
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)	234.550.000	(kg N2O-N/kg N)[(2)]	0,009	3,30
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)	39.700.000	(kg N2O-N/kg dry biomass)[(2)]	0,013	0,78
Crop Residue	Dry production of other crops (kg dry biomass/yr)	358.000.000	(kg N2O-N/kg dry biomass)[(2)]	0,013	7,03
Cultivation of Histosols	Area of cultivated organic soils (ha)	18.400	(kg N2O-N/ha)[(2)]	5,000	0,14
Animal Production	**N excretion on pasture range and paddock (kg N/yr)**	**28.950.000**	**(kg N2O-N/kg N)[(2)]**	**0,019**	**0,85**
Indirect Emissions					**8,34**
Atmospheric Deposition	Volatized N (NH_3 and NOx) from fertilizers and animal wastes (kg N/yr)	73.318.150	(kg N2O-N/kg N)[(2)]	0,010	1,15
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)	183.000.000	(kg N2O-N/kg N)[(2)]	0,025	7,19
Other *(please specify)*					**0,16**
Industrial waste used as fertilizer	(kg N/yr)	3.700.000	(kg N2O-N/kg N)[(2)]	0,013	0,07
Sewage sludge used as fertilizer	(kg N/yr)	4.200.000	(kg N2O-N/kg N)[(2)]	0,013	0,08
				0,000	

Additional information

Fraction [(a)]	Description	Value
$Frac_{BURN}$	Fraction of crop residue burned	0,00
$Frac_{FUEL}$	Fraction of livestock N excretion in excrements burned for fuel	0,00
$Frac_{GASF}$	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH_3 and NOx	0,02
$Frac_{GASM}$	Fraction of livestock N excretion that volatilizes as NH_3 and NOx	0,28
$Frac_{GRAZ}$	Fraction of livestock N excreted and deposited onto soil during grazing	
$Frac_{LEACH}$	Fraction of N input to soils that is lost through leaching and runoff	
$Frac_{NCRBF}$	Fraction of N in non-N-fixing crop	
$Frac_{NCRO}$	Fraction of N in N-fixing crop	
$Frac_{R}$	Fraction or crop residue removed from the field as crop	

[(a)] Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

[(1)] See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO_2 emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

[(2)] To convert from N_2O-N to N_2O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE

Denmark

Prescribed Burning of Savannas

2000

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH_4	N_2O	CH_4	N_2O
(specify ecological zone)								0,00	0,00
						0,00	0,00		

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE
Field Burning of Agricultural Residues
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production (t)	Residue/ Crop ratio	Dry matter fraction	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH_4 (kg/t dm)	N_2O (kg/t dm)	CH_4 (Gg)	N_2O (Gg)
1. Cereals									**0,00**	**0,00**
Wheat							0,00	0,00		
Barley							0,00	0,00		
Maize							0,00	0,00		
Oats							0,00	0,00		
Rye							0,00	0,00		
Rice							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
2. Pulse [1]									**0,00**	**0,00**
Dry bean							0,00	0,00		
Peas							0,00	0,00		
Soybeans							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
3 Tuber and Root									**0,00**	**0,00**
Potatoes							0,00	0,00		
Other *(please specify)*									0,00	0,00
							0,00	0,00		
4 Sugar Cane							**0,00**	**0,00**		
5 Other *(please specify)*									**0,00**	**0,00**
							0,00	0,00		

[1] To be used in Table 4.D of this common reporting format.

Documentation Box:
According to Danish law field burning of Agriculture Residues is forbidden since year 1990

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions/ removals	CH_4	N_2O	NO_x	CO
	(Gg)						
Total Land-Use Change and Forestry	**0,00**	**-995,00**	**-995,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	**0,00**	**-995,00**	**-995,00**				
1. Tropical Forests			0,00				
2. Temperate Forests		-995,00	-995,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
Harvested Wood [1]			0,00				
			0,00				
B. Forest and Grassland Conversion [2]	**0,00**			**0,00**	**0,00**	**0,00**	**0,00**
1. Tropical Forests							
2. Temperate Forests							
3. Boreal Forests							
4. Grasslands/Tundra							
5. Other *(please specify)*	0,00			0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	**0,00**	**0,00**	**0,00**				
1. Tropical Forests			0,00				
2. Temperate Forests			0,00				
3. Boreal Forests			0,00				
4. Grasslands/Tundra			0,00				
5. Other *(please specify)*	0,00	0,00	0,00				
			0,00				
D. CO_2 Emissions and Removals from Soil	**0,00**	**0,00**	**0,00**				
Cultivation of Mineral Soils			0,00				
Cultivation of Organic Soils			0,00				
Liming of Agricultural Soils			0,00				
Forest Soils			0,00				
Other *(please specify)* [3]	0,00	0,00	0,00				
			0,00				
E. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
			0,00				

[1] Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17).

[2] Include only the emissions of CO_2 from Forest and Grassland Conversion. Associated removals should be reported under section D.

[3] Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY
Changes in Forest and Other Woody Biomass Stocks
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks (kha)	Average annual growth rate (t dm/ha)	Implied carbon uptake factor (t C/ha)	Carbon uptake increment (Gg C)
Tropical	Plantations	*Acacia spp.*			0,00	
		Eucalyptus spp.			0,00	
		Tectona grandis			0,00	
		Pinus spp			0,00	
		Pinus caribaea			0,00	
		Mixed Hardwoods			0,00	
		Mixed Fast-Growing Hardwoods			0,00	
		Mixed Softwoods			0,00	
	Other Forests	Moist			0,00	
		Seasonal			0,00	
		Dry			0,00	
	Other *(specify)*				0,00	
					0,00	
Temperate	Plantations				0,00	
					0,00	
	Commercial	Evergreen			0,00	
		Deciduous			0,00	
	Other *(specify)*				0,00	
					0,00	
Boreal					0,00	

	Number of trees (1000s of trees)	Annual growth rate (kt dm/1000 trees)	Carbon uptake factor (t C/tree)	Carbon uptake increment (Gg C)
Non-Forest Trees *(specify type)*				0,00
			0,00	
Total annual growth increment (Gg C)				0,00
Gg CO_2				0,00

	Amount of biomass removed (kt dm)	Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest		0,00	
Traditional Fuelwood Consumed		0,00	
Total Other Wood Use		0,00	
Total Biomass Consumption from Stocks [1] (Gg C)			0,00
Other Changes in Carbon Stocks [2] (Gg C)			
Gg CO_2			0,00

Net annual carbon uptake (+) or release (-) (Gg C)	0,00
Net CO_2 emissions (-) or removals (+) (Gg CO_2)	0,00

[1] Make sure that the quantity of biomass burned off-site is subtracted from this total.
[2] The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY
Forest and Grassland Conversion
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS				
		On and off site burning				Decay of above-ground biomass[1]			Burning				Decay	Burning				Decay
									On site			Off site		On site			Off site	
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	CO_2	CH_4	N_2O	CO_2	CO_2	CO_2	CH_4	N_2O	CO_2	CO_2
				On site	Off site													
Vegetation types		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)				
Tropical	Wet/Very Moist								0,00	0,00	0,00	0,00	0,00					
	Moist, short dry season								0,00	0,00	0,00	0,00	0,00					
	Moist, long dry season								0,00	0,00	0,00	0,00	0,00					
	Dry								0,00	0,00	0,00	0,00	0,00					
	Montane Moist								0,00	0,00	0,00	0,00	0,00					
	Montane Dry								0,00	0,00	0,00	0,00	0,00					
Tropical Savanna/Grasslands									0,00	0,00	0,00	0,00	0,00					
Temperate	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Broadleaf								0,00	0,00	0,00	0,00	0,00					
	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
Grasslands									0,00	0,00	0,00	0,00	0,00					
Boreal	Mixed Broadleaf/ Coniferous								0,00	0,00	0,00	0,00	0,00					
	Coniferous								0,00	0,00	0,00	0,00	0,00					
	Forest-tundra								0,00	0,00	0,00	0,00	0,00					
Grasslands/Tundra									0,00	0,00	0,00	0,00	0,00					
Other *(please specify)*									0,00	0,00	0,00	0,00	0,00					
									0,00	0,00	0,00	0,00	0,00					
Total														**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years.

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0,00	0,00
Total On site and Off site (Gg C)	0,00	
Delayed emissions from decay (Gg C)	0,00	
Total annual carbon release (Gg C)	0,00	
Total annual CO_2 emissions (Gg CO_2)	0,00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

Denmark

Abandonment of Managed Lands

2000

(Sheet 1 of 1)

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing [1]		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
Original natural ecosystems		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Tropical	Wet/Very Moist							0,00	0,00		
	Moist, short dry season							0,00	0,00		
	Moist, long dry season							0,00	0,00		
	Dry							0,00	0,00		
	Montane Moist							0,00	0,00		
	Montane Dry							0,00	0,00		
Tropical Savanna/Grasslands								0,00	0,00		
Temperate	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Broadleaf							0,00	0,00		
Grasslands								0,00	0,00		
Boreal	Mixed Broadleaf/Coniferous							0,00	0,00		
	Coniferous							0,00	0,00		
	Forest-tundra							0,00	0,00		
Grasslands/Tundra								0,00	0,00		
Other *(please specify)*								0,00	0,00		
								0,00	0,00		

Total annual carbon uptake (Gg C)	0,00
Total annual CO_2 removal (Gg CO_2)	0,00

[1] If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY

CO_2 Emissions and Removals from Soil

(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils [1]			**0,00**
High Activity Soils		0,00	
Low Activity Soils		0,00	
Sandy		0,00	
Volcanic		0,00	
Wetland (Aquic)		0,00	
Other *(please specify)*			0,00
		0,00	
	Land area (ha)	**Annual loss rate (Mg C/ha/yr)**	**Carbon emissions from organic soils (Mg C/yr)**
Cultivation of Organic Soils			**0,00**
Cool Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Warm Temperate			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
Tropical			**0,00**
Upland Crops		0,00	
Pasture/Forest		0,00	
	Total annual amount of lime (Mg)	**Carbon conversion factor**	**Carbon emissions from liming (Mg C)**
Liming of Agricultural Soils			**0,00**
Limestone $Ca(CO_3)$		0,00	
Dolomite $CaMg(CO_3)_2$		0,00	

Total annual net carbon emissions from agriculturally impacted soils (Gg C)	0,00
Total annual net CO_2 emissions from agriculturally impacted soils (Gg CO_2)	0,00

Additional information

Year	Climate [a]	land-use/ management system [a]	Soil type: High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
			percent distribution (%)					
20 years prior	*(e.g. tropical, dry)*	*(e.g. savanna)*						
		(e.g. irrigated cropping)						
inventory year								

[a] These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

[1] The information to be reported under Culitvation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	NO_x	CO	NMVOC	SO_2
	(Gg)						
Total Waste	**0,00**	**57,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	**0,00**	**57,00**		**0,00**	**0,00**	**0,00**	
1. Managed Waste Disposal on Land	NO	57,00		NO	NO	NO	
2. Unmanaged Waste Disposal Sites	0,00	0,00		NO	NO	NO	
3. Other *(please specify)*	0,00	0,00		0,00	0,00	0,00	
B. Wastewater Handling		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	
1. Industrial Wastewater		0,00	NE	NO	NO	NO	
2. Domestic and Commercial Wastewater		0,00	0,00	NO	NO	NO	
3. Other *(please specify)*		0,00	0,00	0,00	0,00	0,00	
C. Waste Incineration	**0,00**	**0,00**	**0,00**	**IE**	**IE**	**IE**	**IE**
D. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[1] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE
Solid Waste Disposal
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS[1]	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH_4 recovery [2] (Gg)	CH_4 (t /t MSW)	CO_2 (t /t MSW)	CH_4 (Gg)	CO_2 [3] (Gg)
1 Managed Waste Disposal on Land	1.482,00				0,04	#VALUE!	57,00	NO
2 Unmanaged Waste Disposal Sites					0,00	0,00	0,00	0,00
- deep (>5 m)	NO				0,00	0,00	NO	NO
- shallow (<5 m)	NO				0,00	0,00	NO	NO
3 Other *(please specify)*							0,00	0,00
					0,00	0,00		

Additional information

Description	Value
Total population (1000s)[a]	
Urban population (1000s)[a]	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH4 oxidation factor (b)	
CH_4 fraction in landfill gas	
Number of SWDS recovering CH_4	
CH_4 generation rate constant (k) [c]	
Time lag considered (yr) [c]	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other *(specify)*	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE
Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO_2 (kg/t waste)	CH_4 (kg/t waste)	N_2O (kg/t waste)	CO_2 [3] (Gg)	CH_4 (Gg)	N_2O (Gg)
Waste Incineration *(please specify)*	0,00				0,00	0,00	0,00
(biogenic) [3]		0,00	0,00	0,00			
(plastics and other non-biogenic waste) [3]		0,00	0,00	0,00	IE	IE	IE
		0,00	0,00	0,00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

[1] Actual emissions (after recovery).

[2] CH_4 recovered and flared or utilized.

[3] Under Waste Disposal, CO_2 emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO_2 emissions from non-biogenic wastes are included in the totals, while the CO_2 emissions from biogenic wastes are not included in the totals.

[a] Specify whether total or urban population is used and the rationale for doing so.

[b] See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

[c] For Parties using Tier 2 methods.

Documentation box:
All relevant information used in calculation should be provided in the additional information box and in the documentation box.
Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.

6. A 1. MSW according to Danish registration of Waste deposited (ISAG database). Emission is based on a model suited to the Danish conditions.
6. C. Emissions from waste inceneration plants are included in Table 1A.1a Public electricity and heat production

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION[1]				IMPLIED EMISSION FACTOR			EMISSIONS[2]		
	Total organic product		CH_4 recovered and/or flared		CH_4		N_2O[3]	CH_4		N_2O[3]
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC[1]/yr)		(Gg)		(kg/kg DC)		(kg/kg DC)	(Gg)		(Gg)
Industrial Wastewater	0,00				0,00	0,00		NE	NE	NE
Domestic and Commercial Wastewater	0,00				0,00	0,00		NE	NE	NE
Other *(please specify)*								0,00	0,00	0,00
					0,00	0,00				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR	EMISSIONS
	Population[4] (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N_2O (kg N_2O-N/kg sewage N produced)	N_2O (Gg)
N_2O from human sewage[3]				0,00	NE

[1] DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commercial wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

[2] Actual emissions (after recovery).

[3] Parties using other methods for estimation of N_2O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity data and emission factors used in the documentation box. Use the table to provide aggregate data.

[4] Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

6 B. The Danish wastewater handling systems are considered to produce emissions of only minor and negligible importance.

Additional information

	Domestic	Industrial
Total wastewater (m^3):		
Treated wastewater (%):		

Wastewater streams:	Wastewater output (m^3)	DC ($kgCOD/m^3$)
Industrial wastewater		
Iron and steel		
Non-ferrous		
Fertilizers		
Food and beverage		
Paper and pulp		
Organic chemicals		
Other *(specify)*		
	DC (kg BOD/1000 person/yr)	
Domestic and Commercial		
Other		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic				
Anaerobic				
Other *(specify)*				

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 1 of 3)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)				(Gg)					
Total National Emissions and Removals	**52.851,77**	**-995,00**	**273,95**	**29,30**	**1.707,71**	**730,15**	**48,18**	**28,30**	**0,01**	**0,00**	**205,77**	**642,59**	**130,12**	**27,50**
1. Energy	**51.287,02**		**48,80**	**2,55**							**205,36**	**642,59**	**90,45**	**27,50**
A. Fuel Combustion — Reference Approach[2]	50.232,72													
A. Fuel Combustion — Sectoral Approach[2]	50.693,82		33,64	2,54							202,27	616,78	79,81	26,46
1. Energy Industries	25.250,16		16,87	0,83							48,84	14,16	5,59	12,97
2. Manufacturing Industries and Construction	5.823,11		1,73	0,18							28,24	20,38	4,90	7,29
3. Transport	12.028,14		3,40	1,24							83,44	316,01	46,61	2,20
4. Other Sectors	7.481,88		11,64	0,28							41,75	266,23	22,72	3,99
5. Other	110,53		0,01	0,00							0,00	0,00	0,00	0,00
B. Fugitive Emissions from Fuels	593,20		15,17	0,01							3,09	25,81	10,64	1,04
1. Solid Fuels	0,00		3,32	0,00							0,00	23,80	0,00	0,00
2. Oil and Natural Gas	593,20		11,85	0,01							3,09	2,01	10,64	1,04
2. Industrial Processes	**1.453,00**		**0,00**	**0,00**	**1.707,71**	**730,15**	**48,18**	**28,30**	**0,01**	**0,00**	**0,41**	**0,00**	**0,47**	**0,00**
A. Mineral Products	1.453,00		0,00	0,00							0,00	0,00	0,00	0,00
B. Chemical Industry	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,41	0,00	0,00	0,00
C. Metal Production	0,00		0,00	0,00				0,00		0,00	0,00	0,00	0,00	0,00
D. Other Production[3]	0,00										0,00	0,00	0,47	0,00
E. Production of Halocarbons and SF_6						0,00		0,00		0,00				
F. Consumption of Halocarbons and SF_6					1.707,71	730,15	48,18	28,30	0,01	0,00				
G. Other	0,00		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] Other Production includes Pulp and Paper and Food and Drink Production.

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of reference.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 2 of 3)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs [1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**111,75**			**0,00**									**38,01**	
4. Agriculture	**0,00**	**0,00**	**168,14**	**26,75**							0,00	0,00	1,19	0,00
A. Enteric Fermentation			127,28											
B. Manure Management			40,86	1,42									0,00	
C. Rice Cultivation			0,00										0,00	
D. Agricultural Soils	[4] NE	[4] NE	0,00	25,33									1,19	
E. Prescribed Burning of Savannas			0,00	0,00							0,00	0,00	0,00	
F. Field Burning of Agricultural Residues			0,00	0,00							0,00	0,00	0,00	
G. Other			0,00	0,00							0,00	0,00	0,00	
5. Land-Use Change and Forestry	[5] **0,00**	[5] **-995,00**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks	[5] 0,00	[5] -995,00												
B. Forest and Grassland Conversion	0,00		0,00	0,00							0,00	0,00		
C. Abandonment of Managed Lands	[5] 0,00	[5] 0,00												
D. CO_2 Emissions and Removals from Soil	[5] 0,00	[5] 0,00												
E. Other	[5] 0,00	[5] 0,00	0,00	0,00							0,00	0,00		
6. Waste	**0,00**		**57,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land	[6] 0,00		57,00									0,00	0,00	
B. Wastewater Handling			0,00	0,00							0,00	0,00	0,00	
C. Waste Incineration	[6] 0,00		0,00	0,00							IE	IE	IE	IE
D. Other	0,00		0,00	0,00							0,00	0,00	0,00	0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**

[4] According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO_2 emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO_2 emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

[5] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

[6] Note that CO_2 from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)
(Sheet 3 of 3)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
	(Gg)				CO_2 equivalent (Gg)						(Gg)			
Memo Items: [7]														
International Bunkers	**6.647,43**		**0,14**	**0,35**							**126,82**	**11,76**	**3,54**	**65,35**
Aviation	2.366,42		0,04	0,08							9,63	1,80	0,40	0,15
Marine	4.281,01		0,10	0,27							117,19	9,97	3,13	65,20
Multilateral Operations	**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass	**7.000,55**													

[7] Memo Items are not included in the national totals.

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2 emissions	CO_2 removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
						P	A	P	A	P	A				
		(Gg)				CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**52.851,77**	**-995,00**	**273,95**	**29,30**	**1.707,71**	**730,15**	**48,18**	**28,30**	**0,01**	**0,00**	**205,77**	**642,59**	**130,12**	**27,50**
1. Energy		**51.287,02**		**48,80**	**2,55**							**205,36**	**642,59**	**90,45**	**27,50**
A. Fuel Combustion	Reference Approach[2]	50.232,72													
	Sectoral Approach[2]	50.693,82		33,64	2,54							202,27	616,78	79,81	26,46
B. Fugitive Emissions from Fuels		593,20		15,17	0,01							3,09	25,81	10,64	1,04
2. Industrial Processes		**1.453,00**		**0,00**	**0,00**	**1.707,71**	**730,15**	**48,18**	**28,30**	**0,01**	**0,00**	**0,41**	**0,00**	**0,47**	**0,00**
3. Solvent and Other Product Use		**111,75**			**0,00**							**0,00**	**0,00**	**38,01**	**0,00**
4. Agriculture [3]		**0,00**	**0,00**	**168,14**	**26,75**							**0,00**	**0,00**	**1,19**	**0,00**
5. Land-Use Change and Forestry		[4] **0,00**	[4] **-995,00**	**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
6. Waste		**0,00**		**57,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
7. Other		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:															
International Bunkers		**6.647,43**		**0,14**	**0,35**							**126,82**	**11,76**	**3,54**	**65,35**
Aviation		2.366,42		0,04	0,08							9,63	1,80	0,40	0,15
Marine		4.281,01		0,10	0,27							117,19	9,97	3,13	65,20
Multilateral Operations		**0,00**		**0,00**	**0,00**							**0,00**	**0,00**	**0,00**	**0,00**
CO_2 Emissions from Biomass		**7.000,55**													

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

[2] For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table1.A(c). Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

[3] See footnote 4 to Summary 1.A.

[4] Please do not provide an estimate of both CO_2 emissions and CO_2 removals. "Net" emissions (emissions - removals) of CO_2 should be estimated and a single number placed in either the CO_2 emissions or CO_2 removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [1]	**51.856,77**	**5.752,86**	**9.083,09**	**730,15**	**28,30**	**59,25**	**67.510,42**
1. Energy	**51.287,02**	**1.024,82**	**790,10**				**53.101,95**
A. Fuel Combustion (Sectoral Approach)	50.693,82	706,35	786,88				52.187,05
1. Energy Industries	25.250,16	354,22	258,34				25.862,71
2. Manufacturing Industries and Construction	5.823,11	36,24	56,59				5.915,94
3. Transport	12.028,14	71,34	383,95				12.483,43
4. Other Sectors	7.481,88	244,45	86,62				7.812,94
5. Other	110,53	0,11	1,39				112,02
B. Fugitive Emissions from Fuels	593,20	318,48	3,22				914,90
1. Solid Fuels	0,00	69,72	0,00				69,72
2. Oil and Natural Gas	593,20	248,76	3,22				845,18
2. Industrial Processes	**1.453,00**	**0,00**	**0,00**	**730,15**	**28,30**	**59,25**	**2.270,70**
A. Mineral Products	1.453,00	0,00	0,00				1.453,00
B. Chemical Industry	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production	0,00	0,00	0,00		0,00	21,29	21,29
D. Other Production	0,00						0,00
E. Production of Halocarbons and SF_6				0,00	0,00	0,00	0,00
F. Consumption of Halocarbons and SF_6				730,15	28,30	37,95	796,40
G. Other	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use	**111,75**		**0,00**				**111,75**
4. Agriculture	**0,00**	**3.531,04**	**8.292,98**				**11.824,02**
A. Enteric Fermentation		2.672,89					2.672,89
B. Manure Management		858,15	439,93				1.298,08
C. Rice Cultivation		0,00					0,00
D. Agricultural Soils[2]		0,00	7.853,05				7.853,05
E. Prescribed Burning of Savannas		0,00	0,00				0,00
F. Field Burning of Agricultural Residues		0,00	0,00				0,00
G. Other		0,00	0,00				0,00
5. Land-Use Change and Forestry[1]	**-995,00**	**0,00**	**0,00**				**-995,00**
6. Waste	**0,00**	**1.197,00**	**0,00**				1.197,00
A. Solid Waste Disposal on Land	0,00	1.197,00					1.197,00
B. Wastewater Handling		0,00	0,00				0,00
C. Waste Incineration	0,00	0,00	0,00				0,00
D. Other	0,00	0,00	0,00				0,00
7. Other *(please specify)*	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
							0,00
Memo Items:							
International Bunkers	**6.647,43**	**2,91**	**109,57**				**6.759,92**
Aviation	2.366,42	0,88	25,84				2.393,13
Marine	4.281,01	2,04	83,73				4.366,79
Multilateral Operations	**0,00**	**0,00**	**0,00**				**0,00**
CO_2 Emissions from Biomass	**7.000,55**						**7.000,55**

[1] For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[2] See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0,00	-995,00	-995,00			-995,00
B. Forest and Grassland Conversion	0,00		0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands	0,00	0,00	0,00			0,00
D. CO_2 Emissions and Removals from Soil	0,00	0,00	0,00			0,00
E. Other	0,00	0,00	0,00	0,00	0,00	0,00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	0,00	-995,00	-995,00	0,00	0,00	-995,00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [a]	68.505,42
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [a]	67.510,42

[a] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 1 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
1. Energy												
A. Fuel Combustion	C	CS	C	CS/C	C	C						
1. Energy Industries	C	CS	C	CS/C	C	C						
2. Manufacturing Industries and Construction	C	CS	C	CS/C	C	C						
3. Transport	M/C	CS	M/C	M/C	M/C	M/C						
4. Other Sectors	C	CS	C	CS/C	C	C						
5. Other												
B. Fugitive Emissions from Fuels												
1. Solid Fuels	NO		D	D	NO							
2. Oil and Natural Gas	C	C	C	C	C	C						
2. Industrial Processes												
A. Mineral Products	CS	CS	NO		NO							
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF_6							NO		NO		NO	
F. Consumption of Halocarbons and SF_6							M/CS	CS	M/CS	CS	M/CS	CS
G. Other												

[1] Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

[2] Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED
(Sheet 2 of 2)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6	
	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]	Method applied [1]	Emission factor [2]
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation			T1/T2	CS								
B. Manure Management			T2	CS								
C. Rice Cultivation			NO									
D. Agricultural Soils	NE		NE		CS/M	CS/M						
E. Prescribed Burning of Savannas			NO									
F. Field Burning of Agricultural Residues			NO		NO							
G. Other												
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other												
6. Waste												
A. Solid Waste Disposal on Land	NO		CS/M	CS/M								
B. Wastewater Handling			NE		NE							
C. Waste Incineration	IE		IE		IE							
D. Other												
7. Other ***(please specify)***												

TABLE 7 OVERVIEW TABLE[1] FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 1 of 3)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
Total National Emissions and Removals																				
1 Energy																				
A. Fuel Combustion Activities																				
Reference Approach	ALL	H																		
Sectoral Approach	ALL																			
1. Energy Industries	ALL	H	ALL	M	ALL	L							ALL	H	ALL	H	ALL	M	ALL	H
2. Manufacturing Industries and Construction	ALL	H	ALL	M	ALL	L							ALL	H	ALL	H	ALL	M	ALL	H
3. Transport	ALL	H	ALL	M	ALL	L							ALL	H	ALL	H	ALL	H	ALL	H
4. Other Sectors	ALL	H	ALL	M	ALL	L							ALL	H	ALL	H	ALL	M	ALL	H
5. Other																				
B. Fugitive Emissions from Fuels																				
1. Solid Fuels	NO		ALL	L																
2. Oil and Natural Gas	ALL	L	ALL	L																
2 Industrial Processes																				
A. Mineral Products	ALL	M																		
B. Chemical Industry																				
C. Metal Production																				
D. Other Production																				
E. Production of Halocarbons and SF_6							NO		NO		NO									

[1] This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 2 of 3)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
2 Industrial Processes (continued)																				
F. Consumption of Halocarbons and SF_6																				
Potential [2]							ALL	M	ALL	M	ALL	M								
Actual [3]							ALL	M	ALL	M	ALL	M								
G. Other																				
3 Solvent and Other Product Use																				
4 Agriculture																				
A. Enteric Fermentation			ALL	H																
B. Manure Management			ALL	M	ALL	M											NE			
C. Rice Cultivation			NO														NO			
D. Agricultural Soils	NE		NE		ALL	M											ALL	L		
E. Prescribed Burning of Savannas			NO		NO								NO		NO		NO		NO	
F. Field Burning of Agricultural Residues			NO		NO								NO		NO		NO		NO	
G. Other																				
5 Land-Use Change and Forestry																				
A. Changes in Forest and Other Woody Biomass Stocks																				
B. Forest and Grassland Conversion																				

[2] Potential emissions based on Tier 1 approach of the IPCC Guidelines.
[3] Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 8A)
(Sheet 3 of 3)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2		CH_4		N_2O		HFCs		PFCs		SF_6		NO_x		CO		NMVOC		SO_2	
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality
5 Land-Use Change and Forestry (continued)																				
C. Abandonment of Managed Lands																				
D. CO_2 Emissions and Removals from Soil																				
E. Other																				
6 Waste																				
A. Solid Waste Disposal on Land			ALL	M											NO		NO			
B. Wastewater Handling			NE		NE								NE		NE		NE			
C. Waste Incineration			IE										IE		IE		IE			
D. Other																				
7 Other *(please specify)*																				
Memo Items:																				
International Bunkers																				
Aviation	ALL	H	ALL	L	ALL	L							ALL	H	ALL	H	ALL	H	ALL	H
Marine	ALL	H	ALL	L	ALL	L							ALL	H	ALL	H	ALL	H	ALL	H
Multilateral Operations																				
CO_2 Emissions from Biomass																				

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year:

(Sheet 1 of 2)

Denmark

2000

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total National Emissions and Removals				**0,00**			**0,00**			**0,00**
1. Energy				**0,00**			**0,00**			**0,00**
1.A.	Fuel Combustion Activities			0,00			0,00			0,00
1.A.1.	Energy Industries			0,00			0,00			0,00
1.A.2.	Manufacturing Industries and Construction			0,00			0,00			0,00
1.A.3.	Transport			0,00			0,00			0,00
1.A.4.	Other Sectors			0,00			0,00			0,00
1.A.5.	Other			0,00			0,00			0,00
1.B.	Fugitive Emissions from Fuels			0,00			0,00			0,00
1.B.1.	Solid fuel			0,00			0,00			0,00
1.B.2.	Oil and Natural Gas			0,00			0,00			0,00
2. Industrial Processes				**0,00**			**0,00**			**0,00**
2.A.	Mineral Products			0,00			0,00			0,00
2.B.	Chemical Industry			0,00			0,00			0,00
2.C.	Metal Production			0,00			0,00			0,00
2.D.	Other Production			0,00						
2.G.	Other			0,00			0,00			0,00
3. Solvent and Other Product Use				**0,00**						**0,00**
4. Agriculture				**0,00**			**0,00**			**0,00**
4.A.	Enteric Fermentation						0,00			
4.B.	Manure Management						0,00			0,00
4.C.	Rice Cultivation						0,00			
4.D.	Agricultural Soils [2]			0,00			0,00			0,00
4.E.	Prescribed Burning of Savannas						0,00			0,00
4.F.	Field Burning of Agricultural Residues						0,00			0,00
4.G.	Other						0,00			0,00
5. Land-Use Change and Forestry (net)				**0,00**			**0,00**			**0,00**
5.A.	Changes in Forest and Other Woody Biomass Stocks			0,00						
5.B.	Forest and Grassland Conversion			0,00			0,00			0,00
5.C.	Abandonment of Managed Lands			0,00						
5.D.	CO_2 Emissions and Removals from Soil			0,00						
5.E.	Other			0,00			0,00			0,00

[1] Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.
All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

[2] See footnote 4 to Summary 1.A of this common reporting format.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Recalculated year: 0

(Sheet 2 of 2)

Denmark

2000

2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2			CH_4			N_2O		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
6. Waste				**0,00**			**0,00**			**0,00**
6.A.	Solid Waste Disposal on Land			0,00			0,00			
6.B.	Wastewater Handling						0,00			0,00
6.C.	Waste Incineration			0,00			0,00			0,00
6.D.	Other			0,00			0,00			0,00
7. Other *(please specify)*				**0,00**			**0,00**			**0,00**
				0,00			0,00			0,00
Memo Items:										
International Bunkers				**0,00**			**0,00**			**0,00**
Multilateral Operations				**0,00**			**0,00**			**0,00**
CO_2 Emissions from Biomass				**0,00**						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		HFCs			PFCs			SF_6		
		Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]	Previous submission	Latest submission	Difference[1]
		CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)	CO_2 equivalent (Gg)		(%)
Total Actual Emissions				**0,00**			**0,00**			**0,00**
2.C.3.	Aluminium Production						0,00			0,00
2.E.	Production of Halocarbons and SF_6			0,00			0,00			0,00
2.F.	Consumption of Halocarbons and SF_6			0,00			0,00			0,00
	Other			0,00			0,00			0,00
Potential Emissions from Consumption of HFCs/PFCs and SF_6										

	Previous submission	Latest submission	Difference[1]
	CO_2 equivalent (Gg)		(%)
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [3]			0,00
Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [3]			0,00

[3] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Denmark
2000
2002 Apr 15

Specify the sector and source/sink category[1] where changes in estimates have occurred:		GHG	RECALCULATION DUE TO			
			CHANGES IN:			Addition/removal/ replacement of source/sink categories
			Methods [2]	Emission factors [2]	Activity data [2]	

[1] Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)) .

[2] Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

TABLE 9 COMPLETENESS
(Sheet 1 of 2)

Denmark
2000
2002 Apr 15

Sources and sinks not reported (NE)[1]			
GHG	**Sector[2]**	**Source/sink category [2]**	**Explanation**
CO_2	Waste	Wastewater handling	Wastewater handling systems are considered to produce only negligible emissions.
CH_4	Waste	Wastewater handling	Wastewater handling systems are considered to produce only negligible emissions.
N_2O	Waste	Wastewater handling	Wastewater handling systems are considered to produce only negligible emissions.
HFCs			
PFCs			
SF_6			

Sources and sinks reported elsewhere (IE)[3]				
GHG	**Source/sink category**	**Allocation as per IPCC Guidelines**	**Allocation used by the Party**	**Explanation**
CO_2	Waste Incineration non biogenic	6.C	1.A1a	Waste Incineration plants are used for energy and heat production and are included in energy statistics
	1A2, Energy, Fuel combustion, Manufacturing industries and construction	1A2a-e	1A2f	Danish energy statistics states energy consumption of manufacturing industry as a whole. Thus all energy consumption of 1A2 is included in 1A2f.
CH_4	Waste Incineration non biogenic	6.C	1.A1a	Waste Incineration plants are used for energy and heat production and are included in energy statistics
	1A2, Energy, Fuel combustion, Manufacturing industries and construction	1A2a-e	1A2f	Danish energy statistics states energy consumption of manufacturing industry as a whole. Thus all energy consumption of 1A2 is included in 1A2f.
N_2O	Waste Incineration non biogenic	6.C	1.A1a	Waste Incineration plants are used for energy and heat production and are included in energy statistics
	1A2, Energy, Fuel combustion, Manufacturing industries and construction	1A2a-e	1A2f	Danish energy statistics states energy consumption of manufacturing industry as a whole. Thus all energy consumption of 1A2 is included in 1A2f.
HFCs				
PFCs				
SF_6				

[1] Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

[2] Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

[3] Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

Denmark
2000
2002 Apr 15

Additional GHG emissions reported[4]						
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO_2 equivalent (Gg)	Reference to the data source of GWP value	Explanation

[4] Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 10 EMISSIONS TRENDS (CO_2)
(Sheet 1 of 5)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
		(Gg)										
1. Energy		**51.506,29**	**62.159,87**	**56.101,60**	**58.447,19**	**62.417,91**	**59.572,42**	**73.009,71**	**63.506,60**	**58.455,62**	**55.729,97**	**51.287,02**
A. Fuel Combustion (Sectoral Approach)		51.266,29	61.665,28	55.590,82	58.002,29	61.965,28	59.230,37	72.609,33	62.941,60	58.033,37	54.827,23	50.693,82
1. Energy Industries		26.202,33	35.155,19	30.126,95	31.688,59	35.388,19	32.023,80	44.412,23	35.433,35	31.506,24	28.236,66	25.250,16
2. Manufacturing Industries and Construction		5.605,10	6.011,90	5.872,64	5.803,92	6.300,25	6.705,17	6.888,29	6.763,47	6.081,49	6.128,61	5.823,11
3. Transport		10.381,01	10.973,82	11.006,50	11.183,30	11.618,77	11.764,41	11.960,36	12.079,65	12.102,22	12.184,17	12.028,14
4. Other Sectors		8.958,84	9.237,68	8.443,95	9.089,34	8.406,55	8.485,10	9.172,55	8.494,30	8.139,38	8.095,44	7.481,88
5. Other		119,01	286,69	140,79	237,13	251,52	251,89	175,92	170,83	204,03	182,35	110,53
B. Fugitive Emissions from Fuels		240,00	494,59	510,78	444,90	452,63	342,05	400,38	565,01	422,25	902,74	593,20
1. Solid Fuels		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2. Oil and Natural Gas		240,00	494,59	510,78	444,90	452,63	342,05	400,38	565,01	422,25	902,74	593,20
2. Industrial Processes		**1.005,50**	**1.178,08**	**1.300,49**	**1.310,99**	**1.317,77**	**1.311,00**	**1.388,14**	**1.539,32**	**1.436,25**	**1.401,62**	**1.453,00**
A. Mineral Products		1.005,50	1.178,08	1.300,49	1.310,99	1.317,77	1.311,00	1.388,14	1.539,32	1.436,25	1.401,62	1.453,00
B. Chemical Industry		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
D. Other Production		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use		**123,58**	**122,40**	**121,22**	**125,49**	**118,87**	**117,67**	**116,48**	**115,30**	**114,11**	**113,24**	**111,75**
4. Agriculture		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils [2]		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry [3]		**-916,00**	**-918,00**	**-921,00**	**-924,00**	**-928,00**	**-931,00**	**-941,00**	**-951,00**	**-964,00**	**-976,00**	**-995,00**
A. Changes in Forest and Other Woody Biomass Stocks		-916,00	-918,00	-921,00	-924,00	-928,00	-931,00	-941,00	-951,00	-964,00	-976,00	-995,00
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
D. CO_2 Emissions and Removals from Soil		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
E. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6. Waste		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land												
B. Waste-water Handling												
C. Waste Incineration												
D. Other												
7. Other *(please specify)*		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Total Emissions/Removals with LUCF [4]		**51.719,37**	**62.542,35**	**56.602,31**	**58.959,67**	**62.926,55**	**60.070,09**	**73.573,33**	**64.210,22**	**59.041,98**	**56.268,84**	**51.856,77**
Total Emissions without LUCF[4]		**52.635,37**	**63.460,35**	**57.523,31**	**59.883,67**	**63.854,55**	**61.001,09**	**74.514,33**	**65.161,22**	**60.005,98**	**57.244,84**	**52.851,77**
Memo Items:												
International Bunkers		**4.881,03**	**4.425,76**	**4.604,46**	**5.994,25**	**6.686,08**	**6.953,43**	**6.806,48**	**6.451,20**	**6.614,00**	**6.474,60**	**6.647,43**
Aviation		1.785,97	1.654,04	1.709,04	1.681,80	1.840,45	1.880,87	1.986,51	2.032,09	2.185,02	2.308,18	2.366,42
Marine		3.095,07	2.771,72	2.895,41	4.312,45	4.845,63	5.072,56	4.819,97	4.419,11	4.428,98	4.166,42	4.281,01
Multilateral Operations		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
CO_2 Emissions from Biomass		4.611,45	5.012,71	5.319,17	5.566,90	5.678,74	6.014,23	6.448,51	6.617,41	6.336,83	6.351,44	7.000,55

[1] Fill in the base year adopted by the Party under the Convention, if different from 1990.
[2] See footnote 4 to Summary 1.A of this common reporting format.
[3] Take the net emissions as reported in Summary 1.A of this common reporting format. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
[4] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report CO_2 emissions and removals from Land-Use Change and Forestry.

TABLE 10 EMISSIONS TRENDS (CH_4)
(Sheet 2 of 5)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	(Gg)											
Total Emissions		**278,35**	**281,19**	**281,65**	**287,34**	**289,04**	**292,47**	**296,89**	**291,83**	**286,94**	**269,21**	**273,95**
1. Energy		**23,10**	**25,85**	**26,47**	**28,12**	**36,64**	**42,79**	**48,56**	**50,56**	**48,03**	**48,06**	**48,80**
A. Fuel Combustion (Sectoral Approach)		10,63	12,08	12,58	13,63	19,67	25,42	31,08	32,60	32,79	32,10	33,64
1. Energy Industries		1,16	1,67	2,12	2,59	6,32	11,40	15,08	15,99	19,56	17,68	16,87
2. Manufacturing Industries and Construction		0,75	0,79	0,77	0,78	0,87	1,00	1,57	1,64	1,17	1,51	1,73
3. Transport		2,69	3,06	3,10	3,35	3,50	3,67	3,93	3,80	3,61	3,54	3,40
4. Other Sectors		6,04	6,54	6,59	6,89	8,96	9,34	10,49	11,17	8,43	9,35	11,64
5. Other		0,00	0,02	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
B. Fugitive Emissions from Fuels		12,47	13,77	13,89	14,49	16,97	17,37	17,49	17,96	15,24	15,95	15,17
1. Solid Fuels		3,30	3,87	3,94	4,74	5,58	6,27	6,27	6,27	3,97	3,32	3,32
2. Oil and Natural Gas		9,17	9,89	9,94	9,76	11,39	11,10	11,22	11,69	11,27	12,63	11,85
2. Industrial Processes		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Mineral Products		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
B. Chemical Industry		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use												**0,00**
4. Agriculture		**192,86**	**191,63**	**190,38**	**194,52**	**186,90**	**186,98**	**186,23**	**182,17**	**183,51**	**168,31**	**168,14**
A. Enteric Fermentation		150,10	148,64	146,36	148,06	142,63	142,52	142,38	137,98	138,07	127,95	127,28
B. Manure Management		42,75	42,99	44,02	46,46	44,28	44,47	43,85	44,18	45,45	40,36	40,86
C. Rice Cultivation		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
D. Agricultural Soils		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
E. Prescribed Burning of Savannas		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F. Field Burning of Agricultural Residues		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
G. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6. Waste		**62,40**	**63,70**	**64,80**	**64,70**	**65,50**	**62,70**	**62,10**	**59,10**	**55,40**	**52,84**	**57,00**
A. Solid Waste Disposal on Land		62,40	63,70	64,80	64,70	65,50	62,70	62,10	59,10	55,40	52,84	57,00
B. Waste-water Handling		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Waste Incineration		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
D. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other ***(please specify)***		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:												
International Bunkers		**0,11**	**0,10**	**0,10**	**0,13**	**0,15**	**0,15**	**0,15**	**0,14**	**0,14**	**0,14**	**0,14**
Aviation		0,04	0,03	0,04	0,04	0,04	0,04	0,04	0,04	0,04	0,04	0,04
Marine		0,07	0,06	0,07	0,10	0,11	0,11	0,11	0,10	0,10	0,09	0,10
Multilateral Operations		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
CO_2 Emissions from Biomass												

TABLE 10 EMISSIONS TRENDS (N_2O)
(Sheet 3 of 5)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	(Gg)											
Total Emissions		**34,96**	**34,61**	**32,45**	**32,85**	**32,14**	**31,91**	**31,44**	**30,11**	**30,23**	**30,05**	**29,30**
1. Energy		**1,86**	**2,26**	**2,13**	**2,25**	**2,46**	**2,44**	**2,92**	**2,74**	**2,61**	**2,62**	**2,55**
A. Fuel Combustion (Sectoral Approach)		1,86	2,25	2,12	2,25	2,46	2,44	2,91	2,73	2,61	2,60	2,54
1. Energy Industries		0,87	1,16	1,01	1,06	1,16	1,05	1,43	1,15	1,01	0,93	0,83
2. Manufacturing Industries and Construction		0,17	0,18	0,18	0,18	0,19	0,20	0,21	0,20	0,18	0,19	0,18
3. Transport		0,48	0,56	0,61	0,67	0,79	0,87	0,95	1,07	1,12	1,20	1,24
4. Other Sectors		0,33	0,34	0,32	0,33	0,30	0,30	0,32	0,30	0,29	0,28	0,28
5. Other		0,00	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,00
B. Fugitive Emissions from Fuels		0,00	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,02	0,01
1. Solid Fuels		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2. Oil and Natural Gas		0,00	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,02	0,01
2. Industrial Processes		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Mineral Products		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
B. Chemical Industry		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Metal Production		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
D. Other Production												
E. Production of Halocarbons and SF_6												
F. Consumption of Halocarbons and SF_6												
G. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
3. Solvent and Other Product Use		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
4. Agriculture		**33,09**	**32,35**	**30,32**	**30,60**	**29,68**	**29,46**	**28,52**	**27,37**	**27,62**	**27,44**	**26,75**
A. Enteric Fermentation												
B. Manure Management		1,49	1,51	1,55	1,60	1,60	1,57	1,57	1,45	1,50	1,47	1,42
C. Rice Cultivation												
D. Agricultural Soils		31,60	30,84	28,77	29,00	28,08	27,89	26,95	25,92	26,12	25,96	25,33
E. Prescribed Burning of Savannas		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
F. Field Burning of Agricultural Residues		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
G. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
5. Land-Use Change and Forestry		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Abandonment of Managed Lands												
D. CO_2 Emissions and Removals from Soil												
E. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
6. Waste		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
A. Solid Waste Disposal on Land												
B. Waste-water Handling		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C. Waste Incineration		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
D. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
7. Other ***(please specify)***		**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**	**0,00**
Memo Items:												
International Bunkers		**0,26**	**0,23**	**0,24**	**0,33**	**0,37**	**0,38**	**0,37**	**0,35**	**0,36**	**0,34**	**0,35**
Aviation		0,06	0,06	0,06	0,06	0,06	0,07	0,07	0,07	0,08	0,08	0,08
Marine		0,19	0,17	0,18	0,27	0,30	0,32	0,30	0,28	0,28	0,26	0,27
Multilateral Operations		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
CO_2 Emissions from Biomass												

TABLE 10 EMISSION TRENDS (HFCs, PFCs and SF_6)
(Sheet 4 of 5)

Denmark
2000
2002 Apr 1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	(Gg)											
Emissions of HFCs[5] - CO_2 equivalent (Gg)		**0,00**	**0,00**	**3,64**	**95,66**	**141,15**	**236,85**	**375,86**	**401,23**	**502,64**	**615,82**	**730,15**
HFC-23		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
HFC-32		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,01	0,01
HFC-41		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
HFC-43-10mee		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
HFC-125		0,00	0,00	0,00	0,00	0,00	0,00	0,02	0,02	0,03	0,04	0,06
HFC-134		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
HFC-134a		0,00	0,00	0,00	0,07	0,10	0,15	0,21	0,19	0,23	0,26	0,28
HFC-152a		0,00	0,00	0,00	0,03	0,05	0,04	0,03	0,02	0,01	0,04	0,02
HFC-143		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
HFC-143a		0,00	0,00	0,00	0,00	0,00	0,00	0,01	0,02	0,03	0,04	0,05
HFC-227ea		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
HFC-236fa		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
HFC-245ca		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions of PFCs[5] - CO_2 equivalent (Gg)		**0,00**	**0,00**	**0,00**	**0,00**	**0,13**	**0,95**	**2,93**	**7,23**	**15,03**	**19,83**	**28,30**
CF_4		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C_2F_6		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C_3F_8		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C_4F_{10}		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
c-C_4F_8		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C_5F_{12}		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
C_6F_{14}		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Emissions of SF_6[5] - CO_2 equivalent (Gg)		**43,02**	**62,07**	**89,15**	**134,60**	**122,06**	**107,36**	**60,99**	**73,09**	**59,46**	**65,39**	**59,25**
SF_6		0,00	0,00	0,00	0,01	0,01	0,00	0,00	0,00	0,00	0,00	0,00

[5] Enter information on the actual emissions. Where estimates are only available for the potential emissions, specify this in a comment to the corresponding cell. Only in this row the emissions are expressed as CO_2 equivalent emissions in order to facilitate data flow among spreadsheets.

TABLE 10 EMISSION TRENDS (SUMMARY)
(Sheet 5 of 5)

Denmark
2000
2002 Apr 15

GREENHOUSE GAS EMISSIONS	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	CO_2 equivalent (Gg)											
Net CO_2 emissions/removals		51.719,37	62.542,35	56.602,31	58.959,67	62.926,55	60.070,09	73.573,33	64.210,22	59.041,98	56.268,84	51.856,77
CO_2 emissions (without LUCF) [6]		52.635,37	63.460,35	57.523,31	59.883,67	63.854,55	61.001,09	74.514,33	65.161,22	60.005,98	57.244,84	52.851,77
CH_4		5.845,41	5.904,91	5.914,72	6.034,12	6.069,86	6.141,94	6.234,73	6.128,41	6.025,79	5.653,46	5.752,86
N_2O		10.836,58	10.729,85	10.060,34	10.183,53	9.963,89	9.891,29	9.747,85	9.334,84	9.372,71	9.316,71	9.083,09
HFCs		0,00	0,00	3,64	95,66	141,15	236,85	375,86	401,23	502,64	615,82	730,15
PFCs		0,00	0,00	0,00	0,00	0,13	0,95	2,93	7,23	15,03	19,83	28,30
SF_6		43,02	62,07	89,15	134,60	122,06	107,36	60,99	73,09	59,46	65,39	59,25
Total (with net CO_2 emissions/removals)		**68.444,38**	**79.239,18**	**72.670,16**	**75.407,58**	**79.223,64**	**76.448,48**	**89.995,69**	**80.155,03**	**75.017,61**	**71.940,04**	**67.510,42**
Total (without CO_2 from LUCF) [6]		**69.360,38**	**80.157,18**	**73.591,16**	**76.331,58**	**80.151,64**	**77.379,48**	**90.936,69**	**81.106,03**	**75.981,61**	**72.916,04**	**68.505,42**

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1999
	CO_2 equivalent (Gg)											
1. Energy		52.568,63	63.402,65	57.318,80	59.736,23	63.950,94	61.228,35	74.935,27	65.417,49	60.274,10	57.550,95	53.101,95
2. Industrial Processes		1.048,52	1.240,15	1.393,28	1.541,25	1.581,10	1.656,16	1.827,92	2.020,87	2.013,38	2.102,66	2.270,70
3. Solvent and Other Product Use		123,58	122,40	121,22	125,49	118,87	117,67	116,48	115,30	114,11	113,24	111,75
4. Agriculture		14.309,25	14.054,28	13.397,07	13.569,91	13.125,22	13.060,60	12.752,92	12.311,27	12.416,61	12.039,50	11.824,02
5. Land-Use Change and Forestry [7]		-916,00	-918,00	-921,00	-924,00	-928,00	-931,00	-941,00	-951,00	-964,00	-976,00	-995,00
6. Waste		1.310,40	1.337,70	1.360,80	1.358,70	1.375,50	1.316,70	1.304,10	1.241,10	1.163,42	1.109,70	1.197,00
7. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

[6] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report CO_2 emissions and removals from Land-Use Change and Forestry.

[7] Net emissions.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION[1]

Party: Denmark **Year:** 2000

Contact info:	Focal point for national GHG inventories:	Jytte Boll Illerup, Danish National Environmental Research Institute		
	Address:	P.O. Box 358, Department of Policy Analysis, DK-4000 Roskilde		
	Telephone:	+ 45 46 30 12 89	Fax: + 45 46 30 12 12	E-mail: jbi@dmu.dk
	Main institution preparing the inventory:	Danish National Environmental Research Institute, Ministry of the Environment		

General info:	Date of submission:	April 15, 2002		
	Base years:	1990	PFCs, HFCs, SF_6:	1995
	Year covered in the submission:	1990-2000		
	Gases covered:	CO2, CH4, N2O, NOx, CO, NMVOC, SO2, HFCs, PFCs, SF6		
	Omissions in geographic coverage:			

		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
Tables:	Sectoral report tables:	☑	☑	☑	☑	☑	☑
	Sectoral background data tables:	☑	☑	☐	☐	☑	☐
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		☑	IPCC Table 7B:		☐
	Summary 2 (CO_2 equivalent emissions):			☑			
	Summary 3 (Methods/Emission factors):			☑			
	Uncertainty:	IPCC Table 8A:		☑	National information:		☐
	Recalculation tables:			☐			
	Completeness table:			☑			
	Trend table:			☑			

CO_2	Comparison of CO_2 from fuel combustion:	Worksheet 1-1	Percentage of difference	Explanation of differences
		☐	0,24	☐

		Energy	Ind.Processes	Solvent Use	LUCF	Agriculture	Waste
Recalculation:	CO_2	☐	☐	☐	☐	☐	☐
	CH_4	☐	☐	☐	☐	☐	☐
	N_2O	☐	☐	☐	☐	☐	☐
	HFCs, PFCs, SF_6		☐				
	Explanations:	☐	☐	☐	☐	☐	☐
	Recalculation tables for all recalculated years:			☐			
	Full CRF for the recalculated base year:			☐			

		HFCs		PFCs		SF_6	
HFCs, PFCs, SF_6:	Disaggregation by species:	☑		☑			
	Production of Halocarbons/SF_6:	☑		☑		☑	
	Consumption of Halocarbons/SF_6:	Actual	Potential	Actual	Potential	Actual	Potential
		☐	☐	☐	☐	☐	☐
	Potential/Actual emission ratio:	0,00		0,00		0,00	

Reference to National Inventory Report and/or national inventory web site:	

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

[1] For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.

Appendix 1.2

Total emissions for Denmark, Greenland and the Faroe Islands

Total emissions for Denmark, Greenland and the Faroe Islands (CO2 equivalent (Gg))

Denmark
2000
2002 Apr 1

GREENHOUSE GAS EMISSIONS	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	CO_2 equivalent (Gg)										
Net CO2 emissions/removals	52.977,37	63.737,35	57.853,31	59.556,67	63.951,55	61.209,09	74.175,33	65.395,22	60.220,98	57.559,84	53.251,77
CH4	5.845,41	5.904,91	5.914,72	6.034,12	6.069,86	6.141,94	6.234,73	6.128,41	6.025,79	5.653,46	5.752,86
N2O	10.836,58	10.729,85	10.060,34	10.183,53	9.963,89	9.891,29	9.747,85	9.334,84	9.372,71	9.316,71	9.083,09
HFCs	0,00	0,00	3,64	95,66	141,15	236,85	375,86	401,23	502,64	615,82	730,15
PFCs	0,00	0,00	0,00	0,00	0,13	0,95	2,93	7,23	15,03	19,83	28,30
SF6	43,02	62,07	89,15	134,60	122,06	107,36	60,99	73,09	59,46	65,39	59,25
Total (with net CO2 emissions/removals)	**69.702,38**	**80.434,18**	**73.921,16**	**76.004,58**	**80.248,64**	**77.587,48**	**90.597,69**	**81.340,03**	**76.196,61**	**73.231,04**	**68.905,42**

Appendix 2

Emission trends 1990-2000 adjusted for electricity exchange and inter-annual temperature variations

EMISSION TRENDS (SUMMARY)

Denmark

with adjustments for electricity exchange and inter-annual temperature variations

1990-2000

CO2 Adjustments		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
		CO2 (Gg)										
- for electricity exchange (net import)		6.299,61	-1.557,74	2.938,79	1.068,18	-3.803,19	-689,98	-13.151,89	-5.994,94	-3.715,28	-1.917,51	659,09
- for inter-annual temperature variations		1.879,91	548,93	1.210,47	-218,34	753,25	244,46	-1.511,42	438,50	489,23	990,84	1.409,92

GREENHOUSE GAS EMISSIONS with CO2 adjustments applied	Base year(1)	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
		CO2 equivalent (Gg)										
Net CO2 emissions/removals		59.898,89	61.533,54	60.751,56	59.809,50	59.876,61	59.624,57	58.910,02	58.653,78	55.815,92	55.342,17	53.925,79
CO2 emissions (without LUCF) (6)		60.814,89	62.451,54	61.672,56	60.733,50	60.804,61	60.555,57	59.851,02	59.604,78	56.779,92	56.318,17	54.920,79
CH4		5.845,41	5.904,91	5.914,72	6.034,12	6.069,86	6.141,94	6.234,73	6.128,41	6.025,79	5.653,46	5.752,86
N2O		10.836,58	10.729,85	10.060,34	10.183,53	9.963,89	9.891,29	9.747,85	9.334,84	9.372,71	9.316,71	9.083,09
HFCs		0,00	0,00	3,64	95,66	141,15	236,85	375,86	401,23	502,64	615,82	730,15
PFCs		0,00	0,00	0,00	0,00	0,13	0,95	2,93	7,23	15,03	19,83	28,30
SF6		43,02	62,07	89,15	134,60	122,06	107,36	60,99	73,09	59,46	65,39	59,25
Total (with net CO2 emissions/removals)		**76.623,90**	**78.230,37**	**76.819,42**	**76.257,41**	**76.173,70**	**76.002,96**	**75.332,38**	**74.598,58**	**71.791,55**	**71.013,38**	**69.579,43**
Total (without CO2 from LUCF) (6)		**77.539,90**	**79.148,37**	**77.740,42**	**77.181,41**	**77.101,70**	**76.933,96**	**76.273,38**	**75.549,58**	**72.755,55**	**71.989,38**	**70.574,43**

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year(1)	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
		CO2 equivalent (Gg)										
1. Energy with CO2 adjustments applied		60.748,15	62.393,83	61.468,05	60.586,07	60.901,00	60.782,83	60.271,96	59.861,04	57.048,04	56.624,28	55.170,97
2. Industrial Processes		1.048,52	1.240,15	1.393,28	1.541,25	1.581,10	1.656,16	1.827,92	2.020,87	2.013,38	2.102,66	2.270,70
3. Solvent and Other Product Use		123,58	122,40	121,22	125,49	118,87	117,67	116,48	115,30	114,11	113,24	111,75
4. Agriculture		14.309,25	14.054,28	13.397,07	13.569,91	13.125,22	13.060,60	12.752,92	12.311,27	12.416,61	12.039,50	11.824,02
5. Land-Use Change and Forestry (7)		-916,00	-918,00	-921,00	-924,00	-928,00	-931,00	-941,00	-951,00	-964,00	-976,00	-995,00
6. Waste		1.310,40	1.337,70	1.360,80	1.358,70	1.375,50	1.316,70	1.304,10	1.241,10	1.163,42	1.109,70	1.197,00
7. Other		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

(6) The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report CO2 emissions and removals from Land-Use Change and Forestry.

(7) Net emissions.

Appendix 3

Information on Greenland and the Faroe Islands

NERI, April 15 2002

CO_2 emissions in Greenland and the Faroe Islands

There are no total greenhouse inventories for Greenland and the Faroe Islands at present. Though fossil fuels are expected to be the most important sources of greenhouse gases both in Greenland and the Faroe Islands. Figures for CO_2 emissions from fossil fuels during the 1990 to 2000 period are given in the table below. It has not been possible to distribute emissions by sector in the IPCC format.

For Greenland the 1995-1999 fuel use statistics have been slightly revised according to new fuel sales information. The increasing use of petroleum in 1999, and gasoil in 1999 and 2000 has given a substantial increase in the CO_2 emissions in these two years.

The sudden increase in CO_2 emissions from 1998 to 1999 on the Faroe Islands is due to a large import of coal briquettes in 1999. In 2000 the consumption of this fuel type has decreased to a more moderate level comparable with the years before 1999. Nevertheless the total CO_2 emissions continue their increase in 2000, due to more consumption of heavy fuel.

The possibilites for corresponding improvement in statistics and greenhouse gas inventories in both Greenland and the Faroe Islands will be investigated.

	Greenland		**Faroe Islands**	
	Gg CO_2	**Change in %** In compare to 1990	**Gg CO_2**	**Change in %** In compare to 1990
1990	624		634	
1991	609	-2	586	-8
1992	594	-5	657	4
1993	-	-	597	-6
1994	494	-21	531	-16
1995	523	-16	616	-3
1996	564	-10	602	-5
1997	575	-8	610	-4
1998	550	-12	629	-1
1999	585	-6	706	11
2000	659	6	736	16

Preliminary estimation of CO_2 emissions in Greenland and the Faroe Islands 1990 –2000.

Appendix 4

Emission factors used for fuel combustion

Stationary combustion:

Fuels:

fuel_gr_id	fuel_gr_name	fuel_gr_abbr
102	STEAM COAL (GHV > 23865 kJ/kg)	STEAM COAL
110	PETROLEUM COKE	PETROLEUM COKE
111	WOOD AND SIMILAR WOOD WASTES	WOOD AND SIMIL.
114	MUNICIPAL WASTES	MUNICIP. WASTES
117	AGRICULTURAL WASTES (corncobs, straw, etc...)	AGRICUL. WASTES
118	SEWAGE SLUDGE	SEWAGE SLUDGE
121	*USED FOR INCLUDING CO2 EMISSION OF THE PLASTIC PART OF MUNICIPAL WASTES*	-
203	RESIDUAL OIL	RESIDUAL OIL
204	GAS OIL	GAS OIL
206	KEROSENE	KEROSENE
225	OTHER LIQUID FUELS	OTHER LIQ. FUEL
301	NATURAL GAS (except liquefied natural gas)	NATURAL GAS
303	LIQUEFIED PETROLEUM GASES (LPG)	LPG
308	REFINERY AND PETROCHEM. GAS (not condensable)	REFINERY GAS
309	BIOGAS	BIOGAS

Emission factors of area sources:

1990:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010102	501	345	1,5	1,5	10	95	3
	0102	584	200	15	15	97,2	95	3
	0201	584	200	15	15	97,2	95	3
	0202	584	200	15	15	97,2	95	3
	0203	584	200	15	15	97,2	95	3
	0301	584	200	15	15	97,2	95	3
110A	0201	680	50	1,5	1,5	1000	102	3
	0202	680	50	1,5	1,5	1000	102	3
	0203	680	200	1,5	1,5	97,2	102	3
	0301	680	200	1,5	1,5	97	102	3
111A	0102	25	130	48	32	97,2	102	4
	0201	25	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	130	48	32	160	102	4
	0301	25	130	48	32	160	102	4
114A	0102	90	150	9	6	100	92,56	4
	0201	90	150	9	6	100	92,56	4
117A	010102	130	90	48	32	600	102	4
	0102	130	90	48	32	600	102	4
	0202	130	90	600	400	600	102	3
	0203	130	90	48	32	600	102	4
121A	0102						24,44	
	0201						24,44	
203A	010102	455	240	3	3	15	78	2
	0102	495	150	3	3	15	78	2
	0103	5869	150	3	3	15	78	2
	0201	495	150	3	3	15	78	2
	0202	495	150	3	3	15	78	2
	0203	495	150	3	3	15	78	2
	0301	495	150	3	3	15	78	2
204A	010102	94	100	1,5	1,5	12	74	2
	0102	94	100	1,5	1,5	12	74	2
	0201	94	50	3	7	20	74	2
	0202	94	50	3	7	20	74	2
	0203	94	50	3	7	20	74	2
	0301	94	100	1,5	1,5	12	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	0201	5	50	3	7	20	72	2
	0202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	0301	5	50	3	7	20	72	2
301A	010102	0,3	240	2,5	2,5	20	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	0102	0,3	150	4	4	13	56,9	1
	0103	0,3	290	10	18,46	27	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	0201	0,3	50	5	5	25	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	0202	0,3	50	5	5	25	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	100	4	4	13	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	0301	0,3	100	4	4	13	56,9	1
	030104	0,3	180	4	4	40	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
	010502	0,3	240	2,5	2,5	20	56,9	1
303A	0102	0,04	100	2,1	0,9	13	65	1
	0201	0,04	100	2,1	0,9	25	65	1
	0202	0,04	100	2,1	0,9	25	65	1
	0203	0,04	100	2,1	0,9	25	65	1
	0301	0,04	100	2,1	0,9	13	65	1
308A	0103	0,3	100	4	4	13	56,9	1
	0301	0,3	100	4	4	13	56,9	1
309A	010102	11	31	5	5	25	83,6	1
	0102	11	31	5	5	25	83,6	1
	0201	11	31	5	5	25	83,6	1
	0202	11	31	5	5	25	83,6	1
	0301	11	31	4	4	13	83,6	1

1991:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010102	534	375	1,5	1,5	10	95	3
	0102	584	200	15	15	97,2	95	3
	0201	584	200	15	15	97,2	95	3
	0202	584	200	15	15	97,2	95	3
	0203	584	200	15	15	97,2	95	3
	0301	584	200	15	15	97,2	95	3
110A	0201	680	50	1,5	1,5	1000	102	3
	0202	680	50	1,5	1,5	1000	102	3
	0203	680	200	1,5	1,5	97,2	102	3
	0301	680	200	1,5	1,5	97	102	3
111A	0102	25	130	48	32	97,2	102	4
	0201	25	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	130	48	32	160	102	4
	0301	25	130	48	32	160	102	4
114A	010102	90	150	9	6	85	92,56	4
	0102	90	150	9	6	85	92,56	4
	0201	90	150	9	6	85	92,56	4
117A	010102	130	90	48	32	600	102	4
	0102	130	90	48	32	600	102	4
	0202	130	90	600	400	600	102	3
	0203	130	90	48	32	600	102	4
121A	010102						24,44	
	0102						24,44	
	0201						24,44	
203A	010102	455	240	3	3	15	78	2
	0102	495	150	3	3	15	78	2
	0103	3021	150	3	3	15	78	2
	0201	495	150	3	3	15	78	2
	0202	495	150	3	3	15	78	2
	0203	495	150	3	3	15	78	2
	0301	495	150	3	3	15	78	2
204A	010102	94	100	1,5	1,5	12	74	2
	0102	94	100	1,5	1,5	12	74	2
	0103	94	50	3	7	2	74	2
	0201	94	50	3	7	20	74	2
	0202	94	50	3	7	20	74	2
	0203	94	50	3	7	20	74	2
	0301	94	100	1,5	1,5	12	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	0201	5	50	3	7	20	72	2
	0202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	0301	5	50	3	7	20	72	2
301A	010102	0,3	240	2,5	2,5	20	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	0102	0,3	150	4	4	13	56,9	1
	0103	0,3	290	10	18,46	27	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	0201	0,3	50	5	5	25	56,9	1
	020104	0,3	180	4	4	40	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	0202	0,3	50	5	5	25	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	100	4	4	13	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	0301	0,3	100	4	4	13	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
	010502	0,3	240	2,5	2,5	20	56,9	1
303A	010102	0,04	100	2,1	0,9	13	65	1
	0102	0,04	100	2,1	0,9	13	65	1
	0103	0,04	100	2,1	0,9	13	65	1
	0201	0,04	100	2,1	0,9	25	65	1
	0202	0,04	100	2,1	0,9	25	65	1
	0203	0,04	100	2,1	0,9	25	65	1
	0301	0,04	100	2,1	0,9	13	65	1
308A	0103	0,3	100	4	4	13	56,9	1
	0301	0,3	100	4	4	13	56,9	1
309A	010102	11	31	5	5	25	83,6	1
	0102	11	31	5	5	25	83,6	1
	0201	11	31	5	5	25	83,6	1
	0202	11	31	5	5	25	83,6	1
	0301	11	31	4	4	13	83,6	1

1992:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010102	474	291	1,5	1,5	10	95	3
	0102	584	200	15	15	97,2	95	3
	0201	584	200	15	15	97,2	95	3
	0202	584	200	15	15	97,2	95	3
	0203	584	200	15	15	97,2	95	3
	0301	584	200	15	15	97,2	95	3
110A	0201	680	50	1,5	1,5	1000	102	3
	0202	680	50	1,5	1,5	1000	102	3
	0203	680	200	1,5	1,5	97,2	102	3
	0301	680	200	1,5	1,5	97	102	3
111A	010102	25	130	48	32	97,2	102	4
	0102	25	130	48	32	97,2	102	4
	0201	25	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	130	48	32	160	102	4
	0301	25	130	48	32	160	102	4
114A	010102	90	150	9	6	70	94,73	4
	0102	90	150	9	6	70	94,73	4
	0201	90	150	9	6	70	94,73	4
117A	010102	130	90	48	32	600	102	4
	0102	130	90	48	32	600	102	4
	0202	130	90	600	400	600	102	3
	0203	130	90	48	32	600	102	4
121A	010102						22,27	
	0102						22,27	
	0201						22,27	
203A	010102	455	240	3	3	15	78	2
	0102	495	150	3	3	15	78	2
	0103	2048	150	3	3	15	78	2
	0201	495	150	3	3	15	78	2
	0202	495	150	3	3	15	78	2
	0203	495	150	3	3	15	78	2
	0301	495	150	3	3	15	78	2
204A	010102	94	100	1,5	1,5	12	74	2
	0102	94	100	1,5	1,5	12	74	2
	0103	94	50	3	7	20	74	2
	0201	94	50	3	7	20	74	2
	0202	94	50	3	7	20	74	2
	0203	94	50	3	7	20	74	2
	0301	94	100	1,5	1,5	12	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	0201	5	50	3	7	20	72	2
	0202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	0301	5	50	3	7	20	72	2
301A	010102	0,3	240	2,5	2,5	20	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	0102	0,3	150	4	4	13	56,9	1
	0103	0,3	290	10	18,45	27	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	0201	0,3	50	5	5	25	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	0202	0,3	50	5	5	25	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	100	4	4	13	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	0301	0,3	100	4	4	13	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
	010502	0,3	240	2,5	2,5	20	56,9	1
303A	010102	0,04	100	2,1	0,9	13	65	1
	0102	0,04	100	2,1	0,9	13	65	1
	0103	0,04	100	2,1	0,9	13	65	1
	0201	0,04	100	2,1	0,9	25	65	1
	0202	0,04	100	2,1	0,9	25	65	1
	0203	0,04	100	2,1	0,9	25	65	1
	0301	0,04	100	2,1	0,9	13	65	1
308A	010102	0,3	100	4	4	13	56,9	1
	0103	0,3	100	4	4	13	56,9	1
	0301	0,3	100	4	4	13	56,9	1
309A	010102	11	31	5	5	25	83,6	1
	0102	11	31	5	5	25	83,6	1
	0201	11	31	5	5	25	83,6	1
	0202	11	31	5	5	25	83,6	1
	0301	11	31	4	4	13	83,6	1

1993:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010102	340	288	1,5	1,5	10	95	3
	0102	584	200	15	15	97,2	95	3
	0201	584	200	15	15	97,2	95	3
	0202	584	200	15	15	97,2	95	3
	0203	584	200	15	15	97,2	95	3
	0301	584	200	15	15	97,2	95	3
110A	010102	680	50	1,5	1,5	1000	102	3
	0201	680	50	1,5	1,5	1000	102	3
	0202	680	50	1,5	1,5	1000	102	3
	0203	680	200	1,5	1,5	97,2	102	3
	0301	680	200	1,5	1,5	97	102	3
111A	010102	25	130	48	32	97,2	102	4
	0102	25	130	48	32	97,2	102	4
	0201	25	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	130	48	32	160	102	4
	0301	25	130	48	32	160	102	4
114A	010102	90	150	9	6	55	95,68	4
	0102	90	150	9	6	55	95,68	4
	0201	90	150	9	6	55	95,68	4
117A	010102	130	90	48	32	600	102	4
	0102	130	90	48	32	600	102	4
	0202	130	90	600	400	600	102	3
	0203	130	90	48	32	600	102	4
121A	010102						21,32	
	0102						21,32	
	0201						21,32	
203A	010102	455	240	3	3	15	78	2
	0102	495	150	3	3	15	78	2
	0103	2155	150	3	3	15	78	2
	0201	495	150	3	3	15	78	2
	0202	495	150	3	3	15	78	2
	0203	495	150	3	3	15	78	2
	0301	495	150	3	3	15	78	2
204A	010102	94	100	1,5	1,5	12	74	2
	0102	94	100	1,5	1,5	12	74	2
	0103	94	100	1,5	1,5	12	74	2
	0201	94	50	3	7	20	74	2
	0202	94	50	3	7	20	74	2
	0203	94	50	3	7	20	74	2
	0301	94	100	1,5	1,5	12	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	0201	5	50	3	7	20	72	2
	0202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	0301	5	50	3	7	20	72	2
301A	010102	0,3	240	2,5	2,5	20	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	0102	0,3	150	4	4	13	56,9	1
	0103	0,3	290	10	18,46	27	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	0201	0,3	50	5	5	25	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	0202	0,3	50	5	5	25	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	100	4	4	13	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	0301	0,3	100	4	4	13	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
	010502	0,3	240	2,5	2,5	20	56,9	1
303A	010102	0,04	100	2,1	0,9	13	65	1
	0102	0,04	100	2,1	0,9	13	65	1
	0103	0,04	100	2,1	0,9	13	65	1
	0201	0,04	100	2,1	0,9	25	65	1
	0202	0,04	100	2,1	0,9	25	65	1
	0203	0,04	100	2,1	0,9	25	65	1
	0301	0,04	100	2,1	0,9	13	65	1
308A	010102	0,3	100	4	4	13	56,9	1
	0103	0,3	100	4	4	13	56,9	1
	0301	0,3	100	4	4	13	56,9	1
309A	010102	11	31	5	5	25	83,6	1
	0102	11	31	5	5	25	83,6	1
	0201	11	31	5	5	25	83,6	1
	0202	11	31	5	5	25	83,6	1
	0301	11	31	4	4	13	83,6	1

1994:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010102	584	200	1,5	1,5	10	95	3
	010203	584	200	15	15	97,2	95	3
	020103	584	200	15	15	97,2	95	3
	020202	584	200	15	15	97,2	95	3
	0203	584	200	15	15	97,2	95	3
	030103	584	200	15	15	97,2	95	3
110A	020103	680	50	1,5	1,5	1000	102	3
	020202	680	50	1,5	1,5	1000	102	3
	0203	680	50	1,5	1,5	1000	102	3
	030103	680	50	1,5	1,5	1000	102	3
111A	010102	25	130	48	32	160	102	4
	010203	25	130	48	32	97,2	102	4
	020103	25	50	600	400	10000	102	3
	020202	25	50	600	400	10000	102	3
	0203	25	50	600	400	10000	102	3
	030103	25	130	48	32	160	102	4
114A	010102	90	150	9	6	40	95,68	4
	010203	90	150	9	6	40	95,68	4
	020103	90	150	9	6	40	95,68	4
	030103	90	150	9	6	40	95,68	4
117A	010102	130	90	48	32	600	102	4
	010203	130	90	48	32	600	102	4
	020202	130	90	600	400	600	102	3
	0203	130	90	600	400	600	102	3
121A	010102						21,32	
	010203						21,32	
	020103						21,32	
	030103						21,32	
203A	010102	455	240	3	3	15	78	2
	010203	495	150	3	3	15	78	2
	020103	1163	150	3	3	15	78	2
	020202	1163	150	3	3	15	78	2
	0203	1163	150	3	3	15	78	2
	030103	495	150	3	3	15	78	2
204A	010102	31	100	1,5	1,5	12	74	2
	010203	94	100	1,5	1,5	12	74	2
	0103	94	100	1,5	1,5	12	74	2
	020103	94	50	3	7	20	74	2
	020202	94	50	3	7	20	74	2
	0203	94	50	3	7	20	74	2
	030103	94	100	1,5	1,5	12	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	020103	5	50	3	7	20	72	2
	020202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	030103	5	50	3	7	20	72	2
301A	010102	0,3	240	2,5	2,5	20	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	010203	0,3	150	4	4	13	56,9	1
	010502	0,3	240	5	5	25	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	020103	0,3	50	5	5	25	56,9	1
	020104	0,3	180	4	4	40	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	020202	0,3	50	5	5	25	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	50	5	5	25	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	030103	0,3	100	4	4	13	56,9	1
	030104	0,3	180	4	4	40	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
303A	010203	0,04	100	2,1	0,9	13	65	1
	0103	0,04	100	2,1	0,9	13	65	1
	020103	0,04	100	2,1	0,9	25	65	1
	020202	0,04	100	2,1	0,9	25	65	1
308A	030103	0,3	100	4	4	13	56,9	1
309A	010102	11	31	2,5	2,5	20	83,6	1
	010203	11	31	5	5	25	83,6	1
	010502	11	31	5	5	25	83,6	1
	020103	11	31	5	5	25	83,6	1
	0203	11	31	5	5	25	83,6	1
	030103	11	31	4	4	13	83,6	1

1995:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010102	584	200	1,5	1,5	10	95	3
	010203	584	200	15	15	97,2	95	3
	020103	584	200	15	15	97,2	95	3
	020202	584	200	15	15	97,2	95	3
	020302	584	200	15	15	97,2	95	3
	030103	584	200	15	15	97,2	95	3
110A	020103	680	50	1,5	1,5	1000	102	3
	020202	680	50	1,5	1,5	1000	102	3
	020302	680	50	1,5	1,5	1000	102	3
	030103	680	200	1,5	1,5	97	102	3
111A	010102	25	130	48	32	160	102	4
	010203	25	130	48	32	97,2	102	4
	020103	25	50	600	400	10000	102	3
	020202	25	50	600	400	10000	102	3
	020302	25	50	600	400	10000	102	3
	030103	25	130	48	32	160	102	4
114A	010102	90	150	9	6	25	96,96	4
	010203	90	150	9	6	25	96,96	4
	020103	90	150	9	6	25	96,96	4
117A	010102	130	90	48	32	600	102	4
	010203	103	90	48	32	600	102	4
	020202	103	90	600	400	600	102	3
	020302	130	90	600	400	600	102	3
121A	010102						20,04	
	010202						20,04	
	010203						20,04	
	020103						20,04	
203A	010102	455	240	3	3	15	78	2
	010203	495	150	3	3	15	78	2
	010302	495	150	3	3	15	78	2
	020103	495	150	3	3	15	78	2
	020202	495	150	3	3	15	78	2
	020302	495	150	3	3	15	78	2
	030103	495	150	3	3	15	78	2
204A	010102	31	100	1,5	1,5	12	74	2
	010203	94	100	1,5	1,5	12	74	2
	010302	94	100	1,5	1,5	12	74	2
	020103	94	50	3	7	20	74	2
	020202	94	50	3	7	20	74	2
	020302	94	50	3	7	20	74	2
	030103	94	100	1,5	1,5	12	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	020103	5	50	3	7	20	72	2
	020202	5	50	3	7	20	72	2
	020302	5	50	3	7	20	72	2
	030103	5	50	3	7	20	72	2
225A	010102	1336,63	240	3	3	15	80	2
301A	010102	0,3	240	2,5	2,5	20	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	010203	0,3	150	4	4	13	56,9	1
	010302	0,3	290	10	18,5	27	56,9	1
	010502	0,3	200	4	5	25	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	020103	0,3	50	5	5	25	56,9	1
	020104	0,3	180	4	4	40	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	020202	0,3	50	5	5	25	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	020302	0,3	50	5	5	25	56,9	1
	020303	0,3	180	4	4	40	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	030103	0,3	100	4	4	13	56,9	1
	030104	0,3	180	4	4	40	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
303A	010102	0,04	100	2,1	0,9	13	65	1
	010203	0,04	100	2,1	0,9	13	65	1
	010302	0,04	100	2,1	0,9	13	65	1
	020103	0,04	100	2,1	0,9	25	65	1
	020202	0,04	100	2,1	0,9	25	65	1
308A	010102	0,3	60	4	4	24	56,9	1
	010302	0,3	100	4	4	13	56,9	1
	030103	0,3	60	48	32	150	56,9	1
309A	010102	11	31	2,5	2,5	20	83,6	1
	010203	11	31	5	5	25	83,6	1
	010502	11	31	5	5	25	83,6	1

	020103	11	31	5	5	25	83,6	1
	020202	11	31	5	5	25	83,6	1
	020302	11	31	5	5	25	83,6	1
	030103	11	31	4	4	13	83,6	1

1996:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010103	584	200	1,5	1,5	10	95	3
	010203	584	200	15	15	97,2	95	3
	0201	584	200	15	15	97,2	95	3
	0202	584	200	15	15	97,2	95	3
	0203	584	200	15	15	97,2	95	3
	0301	584	200	15	15	97,2	95	3
110A	0201	680	50	1,5	1,5	1000	102	3
	0202	680	50	1,5	1,5	1000	102	3
	0203	680	50	1,5	1,5	1000	102	3
	0301	680	200	1,5	1,5	97	102	3
111A	010103	25	130	48	32	160	102	4
	010203	25	130	48	32	97,2	102	4
	0201	25	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	50	600	400	10000	102	3
	0301	25	130	48	32	160	102	4
114A	010103	90	150	9	6	10	97,91	4
	010203	90	150	9	6	10	97,91	4
	0201	90	150	9	6	10	97,91	4
117A	010103	130	90	48	32	600	102	4
	010203	130	90	48	32	600	102	4
	0202	130	90	600	400	600	102	3
	0203	130	90	600	400	600	102	3
121A	010102						19,09	
	010103						19,09	
	010202						19,09	
	010203						19,09	
	0201						19,09	
203A	010103	495	150	3	3	15	78	2
	010203	495	150	3	3	15	78	2
	0201	1163	150	3	3	15	78	2
	0202	1163	150	3	3	15	78	2
	0203	1163	150	3	3	15	78	2
	0301	495	150	3	3	15	78	2
204A	010103	31	100	1,5	1,5	12	74	2
	010203	94	100	1,5	1,5	12	74	2
	010303	94	100	1,5	1,5	12	74	2
	010406	0,07	100	1,5	1,5	1,2	74	2
	0201	94	50	3	7	20	74	2
	0202	94	50	3	7	20	74	2
	0203	94	100	1,5	1,5	12	74	2
	0301	94	100	1,5	1,5	12	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	0201	5	50	3	7	20	72	2
	0202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	0301	5	50	3	7	20	72	2
225A	010103	1336,63	240	3	3	15	80	2
301A	010103	0,3	240	2,5	2,5	20	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	010203	0,3	150	4	4	13	56,9	1
	010406	0,3	100	4	4	13	56,9	1
	010502	0,3	240	4	4	13	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	0201	0,3	50	5	5	25	56,9	1
	020104	0,3	180	4	4	40	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	0202	0,3	50	5	5	25	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	50	5	5	25	56,9	1
	020303	0,3	180	4	4	40	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	0301	0,3	100	4	4	13	56,9	1
	030104	0,3	180	4	4	40	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
303A	010103	0,04	100	2,1	0,9	13	65	1
	010303	0,04	100	2,1	0,9	13	65	1
	010406	0,04	100	2,1	0,9	13	65	1
	0201	0,04	100	2,1	0,9	25	65	1
	0202	0,04	100	2,1	0,9	25	65	1
	0203	0,04	100	2,1	0,9	25	65	1
308A	010103	0,3	60	4	4	24	56,9	1
	010303	0,3	100	4	4	13	56,9	1
	0301	0,3	100	4	4	13	56,9	1
309A	010103	11	31	2,5	2,5	20	83,6	1
	010203	11	31	4	4	13	83,6	1

	010502	11	31	2,5	2,5	20	83,6	1
	0201	11	31	5	5	25	83,6	1
	0202	11	31	5	5	25	83,6	1
	0203	11	31	4	4	13	83,6	1
	0301	11	31	4	4	13	83,6	1

1997:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010103	584	200	1,5	1,5	10	95	3
	010203	584	200	15	15	97,2	95	3
	0201	584	200	15	15	97,2	95	3
	0202	584	200	15	15	97,2	95	3
	0203	584	200	15	15	97,2	95	3
	0301	584	200	15	15	97,2	95	3
110A	0201	680	50	1,5	1,5	1000	102	3
	0202	680	50	1,5	1,5	1000	102	3
	0203	680	50	1,5	1,5	1000	102	3
	0301	680	200	1,5	1,5	97	102	3
111A	010103	25	130	48	32	160	102	4
	010203	25	130	48	32	97,2	102	4
	0201	25	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	50	600	400	10000	102	3
	0301	25	130	48	32	160	102	4
114A	010103	90	150	9	6	10	97,91	4
	010203	90	150	9	6	10	97,91	4
	0201	90	150	9	6	10	97,91	4
117A	010103	130	90	48	32	600	102	4
	010203	130	90	48	32	600	102	4
	0202	130	90	600	400	600	102	3
	0203	130	90	600	400	600	102	3
121A	010103						19,09	
	010202						19,09	
	010203						19,09	
	0201						19,09	
	010102						19,09	
203A	010103	346,53	150	3	3	15	78	2
	010203	495	150	3	3	15	78	2
	010303	495	150	3	3	15	78	2
	0201	1163	150	3	3	15	78	2
	0202	1163	150	3	3	15	78	2
	0203	1163	150	3	3	15	78	2
	0301	495	150	3	3	15	78	2
204A	010103	31	100	1,5	1,5	12	74	2
	010203	94	100	1,5	1,5	12	74	2
	010303	94	100	1,5	1,5	12	74	2
	010406	0,07	100	1,5	1,5	1,2	74	2
	0201	94	50	3	7	20	74	2
	0202	94	50	3	7	20	74	2
	0203	94	50	3	7	20	74	2
	0301	94	100	1,5	1,5	12	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	0201	5	50	3	7	20	72	2
	0202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	0301	5	50	3	7	20	72	2
225A	010103	403	142	3	3	15	80	2
301A	010103	0,3	240	2,5	2,5	20	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	010203	0,3	150	4	4	13	56,9	1
	010406	0,3	100	4	4	13	56,9	1
	010502	0,3	240	2,5	2,5	20	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	0201	0,3	50	5	5	25	56,9	1
	020104	0,3	180	4	4	40	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	0202	0,3	50	5	5	25	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	50	5	5	25	56,9	1
	020303	0,3	180	4	4	40	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	0301	0,3	100	4	4	13	56,9	1
	030104	0,3	180	4	4	40	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
303A	010203	0,04	100	2,1	0,9	13	65	1
	010303	0,04	100	2,1	0,9	13	65	1
	010406	0,04	100	2,1	0,9	13	65	1
	0201	0,04	100	2,1	0,9	25	65	1
	0202	0,04	100	2,1	0,9	25	65	1
	0203	0,04	100	2,1	0,9	25	65	1
	0301	0,04	100	2,1	0,9	13	65	1
308A	010103	0,3	60	4	4	24	56,9	1
	010203	0,3	30	4	4	24	56,9	1

	010303	0,3	100	4	4	13	56,9	1
	0301	0,3	100	4	4	13	56,9	1
309A	010103	11	31	2,5	2,5	20	83,6	1
	010203	11	31	4	4	13	83,6	1
	010502	11	31	2,5	2,5	20	83,6	1
	0201	11	31	5	5	25	83,6	1
	0202	11	31	5	5	25	83,6	1
	0203	11	31	4	4	13	83,6	1
	0301	11	31	4	4	13	83,6	1

1998:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010203	584	200	15	15	10	95	3
	0201	584	200	15	15	10	95	3
	0202	584	200	15	15	10	95	3
	0203	584	200	15	15	10	95	3
	0301	584	200	15	15	10	95	3
	030103	584	200	15	15	10	95	3
110A	0201	680	50	1,5	1,5	1000	92	3
	0202	680	50	1,5	1,5	1000	92	3
	0203	680	50	1,5	1,5	1000	92	3
	0301	680	200	1,5	1,5	10	92	3
111A	010103	25	130	48	32	100	102	4
	010203	25	130	48	32	100	102	4
	0201	25	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	50	600	400	10000	102	3
	0301	25	130	48	32	160	102	4
	030102	25	130	48	32	100	102	4
	030103	25	130	480	32	100	102	4
114A	010103	156	150	9	6	10	97,6	4
	010203	156	150	9	6	10	97,6	4
	0201	156	150	9	6	10	97,6	4
	030102	156	150	9	6	10	97,6	4
117A	010103	25	130	48	32	150	102	4
	010203	25	130	48	32	150	102	4
	0202	25	50	600	400	10000	102	3
	0203	25	50	600	400	10000	102	3
	020302	25	50	600	400	10000	102	3
121A	010102						19,4	
	010103						19,4	
	010203						19,4	
	0201						19,4	
203A	010202	446	240	3	3	15	78	2
	010203	347	150	3	3	15	78	2
	010303	649	150	3	3	15	78	2
	0201	347	150	3	3	15	78	2
	0202	347	150	3	3	15	78	2
	0203	347	150	3	3	15	78	2
	0301	347	150	3	3	15	78	2
	030102	347	150	3	3	15	78	2
	030103	347	150	3	3	15	78	2
204A	010101	23	52	1,5	1,5	48	74	2
	010103	23	52	1,5	1,5	48	74	2
	010104	2,3	700	70	6	154	74	3
	010105	23	700	70	6	154	74	3
	010202	23	52	1,5	1,5	48	74	2
	010203	23	52	1,5	1,5	48	74	2
	010406	23	52	1,5	1,5	48	74	2
	0201	23	52	3	7	48	74	2
	020103	23	52	3	7	48	74	2
	0202	23	52	3	7	48	74	2
	0301	23	52	1,5	1,5	48	74	2
	030103	23	52	1,5	1,5	48	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	0201	5	50	3	7	20	72	2
	0202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	0301	5	50	3	7	20	72	2
301A	010102	0,3	240	2,5	2,5	20	56,9	1
	010103	0,3	31	4	4	24	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	0102	0,3	31	4	4	24	56,9	1
	010203	0,3	31	4	4	24	56,9	1
	010405	0,3	200	4	600	220	56,9	1
	010406	0,3	31	4	4	24	56,9	1
	010502	0,3	240	4	4	24	56,9	1
	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	0201	0,3	31	4	4	24	56,9	1
	020103	0,3	31	4	4	24	56,9	1
	020104	0,3	180	4	4	40	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	0202	0,3	31	4	4	24	56,9	1
	020202	0,3	31	4	4	24	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	31	4	4	24	56,9	1
	020303	0,3	31	4	4	24	56,9	1
	020304	0,3	200	4	600	220	56,9	1

	0301	0,3	31	4	4	24	56,9	1
	030103	0,3	31	4	4	24	56,9	1
	030104	0,3	180	4	4	40	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
303A	0201	0,04	100	2,1	0,9	25	65	1
	0202	0,04	100	2,1	0,9	25	65	1
308A	010303	0	60	4	4	24	56,9	1
	0301	0	60	48	32	150	56,9	1
309A	010105	11	605	4	600	250	83,6	1
	010203	11	31	4	4	250	83,6	1
	010405	11	605	4	600	250	83,6	1
	0201	11	31	4	4	250	83,6	1
	020103	11	31	4	4	250	83,6	1
	020105	11	605	4	600	250	83,6	1
	0202	11	31	4	4	250	83,6	1
	0203	11	31	4	4	250	83,6	1
	020304	11	605	4	600	250	83,6	1
	0301	11	31	4	4	250	83,6	1
	030102	11	66	4	4	250	83,6	1
	030103	11	31	4	4	250	83,6	1
	030105	11	605	4	600	250	83,6	1

1999:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010103	584	200	15	15	10	95	3
	010203	584	200	15	15	10	95	3
	0202	584	200	15	15	10	95	3
	0203	584	200	15	15	10	95	3
	0301	584	200	15	15	10	95	3
110A	0201	680	50	1,5	1,5	1000	92	3
	0202	680	50	1,5	1,5	1000	92	3
	0203	680	50	1,5	1,5	1000	92	3
	0301	680	200	1,5	1,5	10	92	3
111A	010102	25	130	48	32	100	102	4
	010103	25	130	48	32	100	102	4
	010202	25	130	48	32	100	102	4
	010203	25	130	48	32	100	102	4
	0201	25	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	50	600	400	10000	102	3
	0301	25	130	48	32	160	102	4
	030102	25	130	48	32	100	102	4
	030103	25	130	48	32	100	102	4
114A	010102	156	150	9	6	10	97,8	4
	010103	156	150	9	6	10	97,8	4
	010203	156	150	9	6	10	97,8	4
	0201	156	150	9	6	10	97,8	4
	020103	156	150	9	6	10	97,8	4
117A	010102	25	130	48	32	150	102	4
	010103	25	130	48	32	150	102	4
	010202	25	130	48	32	150	102	4
	010203	25	130	48	32	150	102	4
	0201	25,4	50	600	400	10000	102	3
	0202	25	50	600	400	10000	102	3
	0203	25	50	600	400	10000	102	3
	020302	25	50	600	400	10000	102	3
	030102	25	130	48	32	150	102	4
121A	010101						19,2	
	010102						19,2	
	010103						19,2	
	010203						19,2	
	0201						19,2	
	020103						19,2	
203A	010101	446	240	3	3	15	78	2
	010102	446	240	3	3	15	78	2
	010202	446	240	3	3	15	78	2
	010203	347	150	3	3	15	78	2
	010303	649	150	3	3	15	78	2
	0201	347	150	3	3	15	78	2
	020105	347	150	3	3	15	78	2
	0202	347	150	3	3	15	78	2
	0203	347	150	3	3	15	78	2
	0301	347	150	3	3	15	78	2
	030102	347	150	3	3	15	78	2
	030103	347	150	3	3	15	78	2
	030104	347	150	3	3	15	78	2
204A	010101	23	52	1,5	1,5	48	74	2
	010102	23	52	1,5	1,5	48	74	2
	010103	23	52	1,5	1,5	48	74	2
	010104	2,3	700	70	6	154	74	3
	010105	23	700	70	6	154	74	3
	010202	23	52	1,5	1,5	48	74	2
	010203	23	52	1,5	1,5	48	74	2
	0201	23	52	3	7	48	74	2
	020103	23	52	3	7	48	74	2
	0202	23	52	3	7	48	74	2
	0301	23	52	1,5	1,5	48	74	2
	030103	23	52	1,5	1,5	48	74	2
	030106	23	52	1,5	1,5	47	74	2
206A	0201	4,6	50	3	7	20	72	2
	0202	5	50	3	7	20	72	2
	0203	5	50	3	7	20	72	2
	0301	5	50	3	7	20	72	2
301A	010102	0,3	240	2,5	2,5	20	56,9	1
	010103	0,3	31	4	4	24	56,9	1
	010104	0,3	180	4	4	40	56,9	1
	010105	0,3	200	4	600	220	56,9	1
	010202	0,3	240	2,5	2,5	20	56,9	1
	010203	0,3	31	4	4	24	56,9	1
	010405	0,3	200	4	600	220	56,9	1
	010406	0,3	31	4	4	24	56,9	1
	010502	0,3	31	4	4	24	56,9	1

	010504	0,3	180	4	4	40	56,9	1
	010505	0,3	200	4	600	220	56,9	1
	0201	0,3	31	4	4	24	56,9	1
	020103	0,3	31	4	4	24	56,9	1
	020104	0,3	180	4	4	40	56,9	1
	020105	0,3	200	4	600	220	56,9	1
	0202	0,3	31	4	4	24	56,9	1
	020202	0,3	31	4	4	24	56,9	1
	020204	0,3	200	4	600	220	56,9	1
	0203	0,3	31	4	4	24	56,9	1
	020303	0,3	180	4	4	40	56,9	1
	020304	0,3	200	4	600	220	56,9	1
	0301	0,3	31	4	4	24	56,9	1
	030103	0,3	31	4	4	24	56,9	1
	030104	0,3	180	4	4	40	56,9	1
	030105	0,3	200	4	600	220	56,9	1
	030106	0,3	30	4	15	34	56,9	1
303A	0201	0,04	100	2,1	0,9	25	65	1
	0202	0,04	100	2,1	0,9	25	65	1
308A	010303	0,3	60	4	4	24	56,9	1
	010304	0,3	180	4	4	40	56,9	1
309A	010103	11	31	4	4	250	83,6	1
	010105	11	605	4	280	250	83,6	1
	010405	11	605	4	280	250	83,6	1
	010505	11	605	4	280	250	83,6	1
	0201	11	31	4	4	250	83,6	1
	020103	11	31	4	4	250	83,6	1
	020105	11	605	4	280	250	83,6	1
	0203	11	31	4	4	250	83,6	1
	020304	11	605	4	280	250	83,6	1
	0301	11	31	4	4	250	83,6	1
	030102	11	66	4	4	250	83,6	1
	030105	11	605	4	280	250	83,6	1

2000:

fuel_id	snap_id	SO2 [g/GJ]	NOx [g/GJ]	NMVOC [g/GJ]	CH4 [g/GJ]	CO [g/GJ]	CO2 [kg/GJ]	N2O [g/GJ]
102A	010103	475	148	15	15	74	95	3
	010202	475	148	15	15	74	95	3
	010203	475	148	15	15	74	95	3
	0202	475	148	15	15	74	95	3
	0203	475	148	15	15	74	95	3
	0301	475	148	15	15	74	95	3
110A	0201	573	105	1,5	1,5	1000	92	3
	0202	573	105	1,5	1,5	1000	92	3
	0203	573	105	1,5	1,5	1000	92	3
	0301	573	105	1,5	1,5	10	92	3
111A	010102	25	130	48	32	300	102	4
	010103	25	130	48	32	300	102	4
	010105	25	130	48	32	300	102	4
	010202	25	130	48	32	300	102	4
	010203	25	130	48	32	300	102	4
	010205	25	130	48	32	300	102	4
	0201	25	130	600	400	10000	102	3
	0202	25	130	600	400	10000	102	3
	0203	25	130	600	400	10000	102	3
	0301	25	130	48	32	300	102	4
	030102	25	130	48	32	300	102	4
	030103	25	130	48	32	300	102	4
114A	010102	156	150	9	6	10	97,8	4
	010103	156	150	9	6	10	97,8	4
	010104	156	150	9	6	10	97,8	4
	010105	156	150	9	6	10	97,8	4
	010203	156	150	9	6	10	97,8	4
	0201	156	150	9	6	10	97,8	4
	020103	156	150	9	6	10	97,8	4
117A	010102	100	153	48	32	150	102	4
	010103	100	156	48	32	150	102	4
	010202	100	153	48	32	150	102	4
	010203	100	156	48	32	150	102	4
	0201	100	153	600	400	10000	102	3
	0202	100	153	600	400	10000	102	3
	0203	100	153	600	400	10000	102	3
	020302	100	153	600	400	10000	102	3
	030102	100	153	48	32	150	102	4
	030105	100	153	48	32	150	102	4
121A	010101						19,2	
	010102						19,2	
	010103						19,2	
	010104						19,2	
	010105						19,2	
	010202						19,2	
	010203						19,2	
	0201						19,2	
	020103						19,2	
	030311						19,2	
203A	0101	403	240	3	3	15	78	2
	010101	403	240	3	3	15	78	2
	010102	403	240	3	3	15	78	2
	010103	403	142	3	3	15	78	2
	010104	403	142	3	3	15	78	2
	010202	403	240	3	3	15	78	2
	010203	403	142	3	3	15	78	2
	010303	403	142	3	3	15	78	2
	0201	344	130	3	3	15	78	2
	020105	344	142	3	3	15	78	2
	0202	344	130	3	3	15	78	2
	0203	344	130	3	3	15	78	2
	020304	344	142	3	3	15	78	2
	0301	344	130	3	3	15	78	2
	030102	344	130	3	3	15	78	2
	030103	344	142	3	3	15	78	2
	030104	344	142	3	3	15	78	2
204A	0101	23	65	1,5	1,5	47	74	2
	010101	23	65	1,5	1,5	47	74	2
	010102	23	65	1,5	1,5	47	74	2
	010103	23	52	1,5	1,5	47	74	2
	010104	23	350	5	1,5	20	74	3
	010105	23	700	100	1,5	154	74	3
	010202	23	65	1,5	1,5	47	74	2
	010203	23	52	1,5	1,5	47	74	2
	010205	23	700	100	1,5	154	74	3
	0201	23	52	3	7	47	74	2
	020103	23	52	3	7	47	74	2
	020105	23	700	100	1,5	154	74	3

	0202	23	52	3	7	47	74	2
	020304	23	700	100	1,5	154	74	3
	0301	23	52	1,5	1,5	47	74	2
	030102	23	52	1,5	1,5	47	74	2
	030103	23	52	1,5	1,5	47	74	2
	030104	23	350	5	1,5	20	74	3
	030105	23	700	100	1,5	154	74	3
	030106	23	52	1,5	1,5	47	74	2
206A	0201	23	73	3	7	20	72	2
	0202	23	73	3	7	20	72	2
	0203	23	73	3	7	20	72	2
	0301	23	73	3	7	20	72	2
301A	0101	0,3	100	2	6	34	57,1	1
	010102	0,3	100	2	6	34	57,1	1
	010103	0,3	30	4	15	34	57,1	1
	010104	0,3	174	1	4	36	57,1	1
	010105	0,3	193	163	573	212	57,1	1
	010202	0,3	100	2	6	34	57,1	1
	010203	0,3	30	4	15	34	57,1	1
	010304	0,3	174	1	4	36	57,1	1
	010405	0,3	193	163	573	212	57,1	1
	010502	0,3	100	2	6	34	57,1	1
	010504	0,3	174	1	6	36	57,1	1
	010505	0,3	193	163	573	212	57,1	1
	0201	0,3	30	2	6	34	57,1	1
	020103	0,3	30	4	15	34	57,1	1
	020104	0,3	174	1	4	36	57,1	1
	020105	0,3	193	163	573	212	57,1	1
	0202	0,3	30	2	6	34	57,1	1
	020202	0,3	30	2	15	34	57,1	1
	020204	0,3	193	163	573	212	57,1	1
	0203	0,3	30	2	6	34	57,1	1
	020303	0,3	193	1	4	36	57,1	1
	020304	0,3	193	163	573	212	57,1	1
	0301	0,3	30	2	6	34	57,1	1
	030103	0,3	30	4	15	34	57,1	1
	030104	0,3	174	1	4	36	57,1	1
	030105	0,3	193	163	573	212	57,1	1
	030106	0,3	30	4	15	34	57,1	1
303A	010203	1	50	2,1	0,9	25	65	1
	0201	1	50	2,1	0,9	25	65	1
	0202	1	50	2,1	0,9	25	65	1
	0301	1	50	2,1	0,9	25	65	1
308A	010303	0,3	30	4	4	24	57,1	1
	010304	0,3	174	4	4	40	57,1	1
309A	010102	11	31	4	4	36	83,6	1
	010103	11	31	4	4	36	83,6	1
	010105	11	605	4	434	255	83,6	1
	010203	11	31	4	4	36	83,6	1
	010405	11	605	4	434	255	83,6	1
	010505	11	605	4	434	255	83,6	1
	0201	11	31	4	4	36	83,6	1
	020103	11	31	4	4	36	83,6	1
	020105	11	605	4	434	255	83,6	1
	0203	11	31	4	4	36	83,6	1
	020304	11	605	4	434	255	83,6	1
	0301	11	31	4	4	36	83,6	1
	030102	11	66	4	4	36	83,6	1
	030105	11	605	4	434	255	83,6	1

Source of emission factor, 2000:

fuel_id	CO2 [kg/GJ]	Type of source[1)]	Source
102A	95	CS	Elsam (major producer of electricity and district heating)
110A	92	CS	SK Energi
111A	102	-	-
114A	97,8	CS	Calculation based on data from Danish Environmental Protection Agency
117A	102	-	-
121A	19,2	CS	Calculation based on data from Danish Environmental Protection Agency
203A	78	C	Guidebook
204A	74	C	Guidebook
206A	72	C	~Guidebook (value 73)
301A	57,1	CS	Calculation based on average gas quality stated by DONG
303A	65	C	Guidebook
308A	57,1	CS	Same value as natural gas is chosen
309A	83,6	CS	Calculation based of typical manure gas stated by Danish Gas Technology Centre

1. C: CorinAir, CS: Country Specific

Year	snap_id	Category	Fuel type	Mode	SO_2 [g/GJ]	NO_x [g/GJ]	NMVOC [g/GJ]	CH_4 [g/GJ]	CO [g/GJ]	CO_2 [kg/GJ]	N_2O [g/GJ]	NH_3 [g/GJ]	TSP [g/GJ]	PM10 [g/GJ]	PM2.5 [g/GJ]
1990	070101	Passenger cars	Diesel	Highway driving	93,63	253,78	24,51	4,30	179,70	74	12,62	0,47	79,48		
1990		Passenger cars	LPG	Highway driving	0,00	1151,70	187,09	10,06	3914,25	65	6,04	0,00	0,00		
1990		Passenger cars	Gasoline 2-stroke	Highway driving	4,57	288,90	2357,34	10,03	3490,86	73	2,01	0,80	0,00		
1990		Passenger cars	Gasoline conventional	Highway driving	4,57	1311,04	369,53	11,10	3612,94	73	2,13	0,85	0,00		
1990		Passenger cars	Gasoline catalyst	Highway driving	4,57	190,36	35,59	7,47	943,80	73	16,76	47,89	0,00		
1990	070102	Passenger cars	Diesel	Rural driving	93,63	253,33	46,16	2,75	268,08	74	15,34	0,57	75,13		
1990		Passenger cars	LPG	Rural driving	0,00	1248,46	305,18	16,91	1146,38	65	7,25	0,00	0,00		
1990		Passenger cars	Gasoline 2-stroke	Rural driving	4,57	352,84	2476,82	13,84	2594,44	73	1,73	0,69	0,00		
1990		Passenger cars	Gasoline conventional	Rural driving	4,57	1139,51	488,47	13,94	4110,62	73	2,40	0,96	0,00		
1990		Passenger cars	Gasoline catalyst	Rural driving	4,57	143,35	42,55	9,25	370,07	73	8,53	53,34	0,00		
1990	070103	Passenger cars	Diesel	Urban driving	93,63	208,31	85,82	2,37	310,69	74	9,59	0,36	117,16		
1990		Passenger cars	LPG	Urban driving	0,00	642,80	421,67	33,67	1249,98	65	4,56	0,00	0,00		
1990		Passenger cars	Gasoline 2-stroke	Urban driving	4,57	61,43	3122,63	30,71	4238,59	73	1,02	0,41	0,00		
1990		Passenger cars	Gasoline conventional	Urban driving	4,57	633,42	894,14	50,15	9534,02	73	1,62	0,65	0,00		
1990		Passenger cars	Gasoline catalyst	Urban driving	4,57	163,59	299,31	68,50	3772,36	73	15,24	20,13	0,00		
1990	070201	Light duty vehicles	Diesel	Highway driving	93,63	270,67	31,16	1,62	344,14	74	5,52	0,32	104,48		
1990		Light duty vehicles	Gasoline conventional	Highway driving	4,57	1369,26	170,29	10,11	2987,40	73	2,43	0,81	0,00		
1990	070202	Light duty vehicles	Diesel	Rural driving	93,63	299,25	35,71	1,78	358,42	74	6,04	0,36	107,73		
1990		Light duty vehicles	Gasoline conventional	Rural driving	4,57	1188,86	262,59	15,25	2316,18	73	2,29	0,76	0,00		
1990	070203	Light duty vehicles	Diesel	Urban driving	93,63	489,77	57,53	2,29	403,83	74	4,51	0,27	126,74		
1990		Light duty vehicles	Gasoline conventional	Urban driving	4,57	638,11	671,68	58,35	7008,46	73	1,37	0,46	0,00		
1990	070301	Heavy duty vehicles	Diesel	Highway driving	93,63	826,40	78,12	6,10	177,37	74	2,97	0,29	45,26		
1990		Heavy duty vehicles	Gasoline	Highway driving	4,57	1037,78	474,61	9,69	7610,35	73	0,83	0,28	0,00		
1990	070302	Heavy duty vehicles	Diesel	Rural driving	93,63	941,43	105,74	6,87	244,11	74	3,17	0,27	54,52		
1990		Heavy duty vehicles	Gasoline	Rural driving	4,57	1141,55	820,40	16,74	8371,39	73	0,91	0,30	0,00		
1990	070303	Heavy duty vehicles	Diesel	Urban driving	93,63	1033,67	130,46	12,80	305,79	74	2,58	0,26	61,52		
1990		Heavy duty vehicles	Gasoline	Urban driving	4,57	456,62	696,09	14,21	7102,99	73	0,61	0,20	0,00		
1990	0704	Mopeds	Gasoline		4,57	27,40	8057,18	162,00	13698,63	73	0,74	0,74	0,00		
1990	070501	Motorcycles	Gasoline	Highway driving	4,57	215,21	1274,28	121,98	17689,89	73	1,27	1,27	0,00		
1990	070502	Motorcycles	Gasoline	Rural driving	4,57	173,17	1528,62	146,07	16834,36	73	1,52	1,52	0,00		
1990	070503	Motorcycles	Gasoline	Urban driving	4,57	93,28	2018,58	147,26	15322,43	73	1,53	1,53	0,00		
1990	0706						18421,87								
1990	0801	Military	Diesel		93,68	670,67	81,04	5,72	301,10	74	4,68	0,30	81,86		
1990		Military	Gasoline		4,57	872,67	1114,33	33,55	6670,96	73	2,24	1,63			
1990		Military	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60			
1990		Military	Jet fuel	< 3000 ft	4,60	250,57	24,94	2,65	229,89	72	2,30				
1990		Military	Jet fuel	> 3000 ft	4,60	250,57	24,94	2,65	229,89	72	2,30				
1990	0802	Railways	Diesel		93,68	691,26	43,21	4,76	103,48	74	2,04	0,20	30,40		
1990		Railways	Kerosene		5,00	50,00	3,00	7,00	20,00	72	2,00				

Year	snap_id	Category	Fuel type	Mode	SO_2 [g/GJ]	NO_x [g/GJ]	NMVOC [g/GJ]	CH_4 [g/GJ]	CO [g/GJ]	CO_2 [kg/GJ]	N_2O [g/GJ]	NH_3 [g/GJ]	TSP [g/GJ]	PM10 [g/GJ]	PM2.5 [g/GJ]
1990		Railways	Gasoline		4,57	872,67	1114,33	33,55	6670,96	73	2,24	1,63			
1990	0803	Inland waterways	Diesel		93,68	1249,33	270,13	4,35	595,20	74	3,05	0,17	164,83		
1990		Inland waterways	Gasoline		4,57	64,34	10809,58	108,10	18485,08	73	0,52	0,10			
1990	080402	National sea traffic	Residual oil		1466,99	1393,64	56,92	1,76	180,93	78	4,89		139,36		
1990		National sea traffic	Diesel		93,68	1334,89	54,52	1,69	173,30	74	4,68		42,15		
1990		National sea traffic	Kerosene		4,60	50,00	3,00	7,00	20,00	72	2,00				
1990		National sea traffic	LPG			1249,00	384,90	20,30	443,00	65	2,00				
1990	080403	Fishing	Residual oil		1466,99	1393,64	56,92	1,76	180,93	78	4,89		139,36		
1990		Fishing	Diesel		93,68	1334,89	54,52	1,69	173,30	74	4,68		42,15		
1990		Fishing	Kerosene		4,60	50,00	3,00	7,00	20,00	72	2,00				
1990		Fishing	Gasoline		4,57	64,34	10809,58	108,10	18485,08	73	0,52	0,10			
1990		Fishing	LPG			1249,00	384,90	20,30	443,00	65	2,00				
1990	080404	International sea traffic	Residual oil		1711,49	2127,14	56,92	1,76	180,93	78	4,89		200,49		
1990		International sea traffic	Diesel		468,38	2037,47	54,52	1,69	173,30	74	4,68		42,15		
1990	080501	Air traffic, Copenhagen airport	Jet fuel	Dom. < 3000 ft	4,60	259,89	39,09	4,15	220,58	72	5,37				
1990		Air traffic, Copenhagen airport	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60			
1990	080502	Air traffic, Copenhagen airport	Jet fuel	Int. < 3000 ft	4,60	308,20	51,83	5,50	227,67	72	3,84				
1990		Air traffic, Copenhagen airport	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60			
1990	080503	Air traffic, Copenhagen airport	Jet fuel	Dom. > 3000 ft	4,60	328,51	11,64	1,24	98,39	72	2,30				
1990	080504	Air traffic, Copenhagen airport	Jet fuel	Int. > 3000 ft	4,60	296,09	10,18	1,08	36,55	72	2,30				
1990	080501	Air traffic, other airports	Jet fuel	Dom. < 3000 ft	4,60	286,21	24,00	2,55	127,76	72	6,53				
1990		Air traffic, other airports	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60			
1990	080502	Air traffic, other airports	Jet fuel	Int. < 3000 ft	4,60	314,47	25,28	2,68	175,31	72	6,82				
1990		Air traffic, other airports	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60			
1990	080503	Air traffic, other airports	Jet fuel	Dom. > 3000 ft	4,60	325,06	12,05	1,28	100,46	72	2,30				
1990	080504	Air traffic, other airports	Jet fuel	Int. > 3000 ft	4,60	258,16	10,39	1,10	61,84	72	2,30				
1990	0806	Agriculture	Diesel		93,68	1273,14	190,59	4,43	424,13	74	3,10	0,18	128,88		
1990		Agriculture	Gasoline		4,57	244,33	1022,05	51,10	24741,09	73	1,80	0,12			
1990	0807	Forestry	Diesel		93,68	1255,79	238,29	4,37	526,70	74	3,06	0,17	150,34		
1990		Forestry	Gasoline		4,57	48,66	18095,47	180,95	33391,26	73	0,48	0,10			
1990	0808	Industry	Diesel		93,68	1285,59	176,89	4,48	395,14	74	3,13	0,18	123,27		
1990		Industry	Gasoline		4,57	216,67	3096,74	119,76	44820,30	73	1,63	0,11			
1990		Industry	LPG			621,12	838,51	62,11	931,68	65					
1990	0809	Household and gardening	Gasoline		4,57	213,71	3726,00	116,17	42616,59	73	1,61	0,11			
1999	070101	Passenger cars	Diesel	Highway driving	12,89	288,65	14,77	4,46	113,96	74	13,10	0,49	50,09		
1999		Passenger cars	LPG	Highway driving	0,00	1151,70	187,09	10,06	3914,25	65	6,04	0,00	0,00		
1999		Passenger cars	Gasoline 2-stroke	Highway driving	4,57	288,90	2357,34	10,03	3490,86	73	2,01	0,80	0,00		
1999		Passenger cars	Gasoline conventional	Highway driving	4,57	1370,77	338,67	11,37	2646,70	73	2,19	0,87	0,00		
1999		Passenger cars	Gasoline catalyst	Highway driving	4,57	328,36	40,96	5,53	2051,17	73	17,20	49,15	0,00		

Year	snap_id	Category	Fuel type	Mode	SO_2 [g/GJ]	NO_x [g/GJ]	NMVOC [g/GJ]	CH_4 [g/GJ]	CO [g/GJ]	CO_2 [kg/GJ]	N_2O [g/GJ]	NH_3 [g/GJ]	TSP [g/GJ]	PM10 [g/GJ]	PM2.5 [g/GJ]
1999	070102	Passenger cars	Diesel	Rural driving	12,89	265,53	25,14	2,71	125,76	74	15,09	0,56	36,73		
1999		Passenger cars	LPG	Rural driving	0,00	1248,46	305,18	16,91	1146,38	65	7,25	0,00	0,00		
1999		Passenger cars	Gasoline 2-stroke	Rural driving	4,57	352,84	2476,82	13,84	2594,44	73	1,73	0,69	0,00		
1999		Passenger cars	Gasoline conventional	Rural driving	4,57	1161,07	455,97	14,13	3237,58	73	2,43	0,97	0,00		
1999		Passenger cars	Gasoline catalyst	Rural driving	4,57	233,86	42,15	6,16	611,33	73	8,78	54,90	0,00		
1999	070103	Passenger cars	Diesel	Urban driving	12,89	260,84	65,69	2,71	262,38	74	9,87	0,37	68,97		
1999		Passenger cars	LPG	Urban driving	0,00	614,30	437,00	34,89	1353,11	65	4,38	0,00	0,00		
1999		Passenger cars	Gasoline 2-stroke	Urban driving	4,57	61,43	3122,63	30,71	4238,59	73	1,02	0,41	0,00		
1999		Passenger cars	Gasoline conventional	Urban driving	4,57	629,05	904,28	54,29	8790,85	73	1,59	0,64	0,00		
1999		Passenger cars	Gasoline catalyst	Urban driving	4,57	226,22	314,69	70,95	4445,48	73	15,90	21,00	0,00		
1999	070201	Light duty vehicles	Diesel	Highway driving	12,89	310,12	32,72	1,70	273,62	74	5,79	0,34	77,83		
1999		Light duty vehicles	Gasoline conventional	Highway driving	4,57	1369,26	170,29	10,11	2987,40	73	2,43	0,81	0,00		
1999		Light duty vehicles	Gasoline catalyst	Highway driving	4,57	151,17	22,85	4,64	523,85	73	12,03	34,36	0,00		
1999	070202	Light duty vehicles	Diesel	Rural driving	12,89	334,16	37,49	1,86	273,73	74	6,34	0,37	77,33		
1999		Light duty vehicles	Gasoline conventional	Rural driving	4,57	1188,86	262,59	15,25	2316,18	73	2,29	0,76	0,00		
1999		Light duty vehicles	Gasoline catalyst	Rural driving	4,57	133,00	31,16	5,31	392,18	73	5,19	32,44	0,00		
1999	070203	Light duty vehicles	Diesel	Urban driving	12,89	442,93	64,28	2,56	319,82	74	4,58	0,27	98,45		
1999		Light duty vehicles	Gasoline conventional	Urban driving	4,57	622,82	707,51	61,47	7531,75	73	1,32	0,44	0,00		
1999		Light duty vehicles	Gasoline catalyst	Urban driving	4,57	153,49	186,82	37,06	3579,18	73	9,95	13,14	0,00		
1999	070301	Heavy duty vehicles	Diesel	Highway driving	12,89	648,25	65,70	5,32	143,29	74	2,91	0,28	33,31		
1999		Heavy duty vehicles	Gasoline	Highway driving	4,57	1037,78	474,61	9,69	7610,35	73	0,83	0,28	0,00		
1999	070302	Heavy duty vehicles	Diesel	Rural driving	12,89	749,92	83,92	5,82	179,75	74	2,99	0,27	40,18		
1999		Heavy duty vehicles	Gasoline	Rural driving	4,57	1141,55	820,40	16,74	8371,39	73	0,91	0,30	0,00		
1999	070303	Heavy duty vehicles	Diesel	Urban driving	12,89	809,21	98,73	10,14	215,94	74	2,42	0,24	45,54		
1999		Heavy duty vehicles	Gasoline	Urban driving	4,57	456,62	696,09	14,21	7102,99	73	0,61	0,20	0,00		
1999	0704	Mopeds	Gasoline		4,57	27,40	8057,18	162,00	13698,63	73	0,74	0,74	0,00		
1999	070501	Motorcycles	Gasoline	Highway driving	4,57	215,21	1274,29	121,98	17689,86	73	1,27	1,27	0,00		
1999	070502	Motorcycles	Gasoline	Rural driving	4,57	173,17	1528,62	146,07	16834,34	73	1,52	1,52	0,00		
1999	070503	Motorcycles	Gasoline	Urban driving	4,57	93,28	2018,59	147,26	15322,41	73	1,53	1,53	0,00		
1999	0706						6995,14								
1999	0801	Military	Diesel		12,88	570,89	67,44	5,01	216,50	74	4,78	0,31	56,07		
1999		Military	Gasoline		4,57	481,62	517,36	36,46	3775,09	73	9,51	24,56			
1999		Military	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60			
1999		Military	Jet fuel	< 3000 ft	4,60	250,57	24,94	2,65	229,89	72	2,30	0,00			
1999		Military	Jet fuel	> 3000 ft	4,60	250,57	24,94	2,65	229,89	72	2,30	0,00			
1999	0802	Railways	Diesel		12,88	691,26	43,21	4,76	103,48	74	2,04	0,20	30,40		
1999		Railways	Kerosene		5,00	50,00	3,00	7,00	20,00	72	2,00	0,00	0,00		
1999		Railways	Gasoline		4,57	481,62	517,36	36,46	3775,09	73	9,51	24,56	0,00		
1999	0803	Inland waterways	Gasoline		4,57	64,34	10809,60	108,10	18485,10	73	0,52	0,10	0,00		

Year	snap_id	Category	Fuel type	Mode	SO_2 [g/GJ]	NO_x [g/GJ]	NMVOC [g/GJ]	CH_4 [g/GJ]	CO [g/GJ]	CO_2 [kg/GJ]	N_2O [g/GJ]	NH_3 [g/GJ]	TSP [g/GJ]	PM10 [g/GJ]	PM2.5 [g/GJ]
1999		Inland waterways	Diesel		12,88	1249,30	270,10	4,40	595,20	74	3,05	0,17	164,80		
1999	080402	National sea traffic	Residual oil		962,41	1393,60	56,90	1,76	180,90	78	4,90		139,40		
1999		National sea traffic	Diesel		93,68	1334,90	54,50	1,69	173,30	74	4,70	0,00	42,15		
1999		National sea traffic	Kerosene		4,60	50,00	3,00	7,00	20,00	72	2,00	2,00	0,00		
1999		National sea traffic	LPG		0,00	1249,00	384,90	20,30	443,00	65	2,00	0,00	0,00		
1999	080403	Fishing	Residual oil		962,41	1393,60	56,90	1,76	180,90	78	4,90		139,40		
1999		Fishing	Diesel		93,68	1334,90	54,50	1,69	173,30	74	4,70	0,00	42,15		
1999		Fishing	Kerosene		4,60	50,00	3,00	7,00	20,00	72	2,00		0,00		
1999		Fishing	Gasoline		4,60	64,34	10809,60	108,10	18485,10	73	0,52	0,10	0,00		
1999		Fishing	LPG		0,00	1249,00	384,90	20,30	443,00	65	2,00	0,00	0,00		
1999	080404	International sea traffic	Residual oil		1686,90	2127,10	56,90	1,76	180,90	78	4,90		200,50		
1999		International sea traffic	Diesel		468,38	2037,50	54,50	1,69	173,30	74	4,70		42,15		
1999	080501	Air traffic, Copenhagen airport	Jet fuel	Dom. < 3000 ft	4,60	267,24	28,42	3,02	194,05	72	6,09				
1999		Air traffic, Copenhagen airport	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60			
1999	080502	Air traffic, Copenhagen airport	Jet fuel	Int. < 3000 ft	4,60	299,29	30,94	3,29	190,55	72	4,54	0,00	0,00		
1999		Air traffic, Copenhagen airport	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60	0,00		
1999	080503	Air traffic, Copenhagen airport	Jet fuel	Dom. > 3000 ft	4,60	328,51	11,64	1,24	98,39	72	2,30	0,00	0,00		
1999	080504	Air traffic, Copenhagen airport	Jet fuel	Int. > 3000 ft	4,60	296,09	10,18	1,08	36,55	72	2,30	0,00	0,00		
1999	080501	Air traffic, other airports	Jet fuel	Dom. < 3000 ft	4,60	291,94	16,66	1,77	100,83	72	7,46				
1999		Air traffic, other airports	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60	0,00		
1999	080502	Air traffic, other airports	Jet fuel	Int. < 3000 ft	4,60	314,47	25,28	2,68	175,31	72	6,82				
1999		Air traffic, other airports	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60	0,00		
1999	080503	Air traffic, other airports	Jet fuel	Dom. > 3000 ft	4,60	325,06	12,05	1,28	100,46	72	2,30				
1999	080504	Air traffic, other airports	Jet fuel	Int. > 3000 ft	4,60	258,16	10,39	1,10	61,84	72	2,30				
1999	0806	Agriculture	Diesel		12,88	1268,19	190,07	4,43	424,13	74	3,10	0,18	128,30		
1999		Agriculture	Gasoline		4,57	244,33	1022,05	51,10	24741,09	73	1,80	0,12	0,00		
1999	0807	Forestry	Diesel		12,88	1255,79	238,29	4,37	526,70	74	3,06	0,17	150,34		
1999		Forestry	Gasoline		4,57	48,66	18095,47	180,95	33391,26	73	0,48	0,10	0,00		
1999	0808	Industry	Diesel		12,88	1250,55	173,84	4,48	395,14	74	3,13	0,18	119,49		
1999		Industry	Gasoline		4,57	216,67	3096,74	119,76	44820,30	73	1,63	0,11	0,00		
1999		Industry	LPG		0,00	621,12	838,51	62,11	931,68	65	3,11	0,19	0,00		
1999	0809	Household and gardening	Gasoline		4,57	213,71	3726,00	116,17	42616,59	73	1,61	0,11	0,00		
2000	070101	Passenger cars	Diesel	Highway driving	2,34	290,88	14,13	4,47	109,65	74	13,13	0,49	48,17	48,17	48,17
2000		Passenger cars	LPG	Highway driving	0,00	1151,70	187,09	10,06	3914,25	65	6,04	0,00	10,06	10,06	10,06
2000		Passenger cars	Gasoline 2-stroke	Highway driving	4,56	288,90	2357,34	10,03	3490,86	73	2,01	0,80	48,15	48,15	48,15
2000		Passenger cars	Gasoline conventional	Highway driving	4,56	1370,57	335,92	11,40	2600,79	73	2,19	0,88	10,44	10,44	10,44
2000		Passenger cars	Gasoline catalyst	Highway driving	4,56	310,53	37,70	5,08	2025,36	73	17,20	49,14	0,34	0,34	0,34
2000	070102	Passenger cars	Diesel	Rural driving	2,34	266,24	23,84	2,70	116,95	74	15,08	0,56	34,36	34,36	34,36
2000		Passenger cars	LPG	Rural driving	0,00	1248,46	305,18	16,91	1146,38	65	7,25	0,00	14,49	14,49	14,49

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2000		Passenger cars	Gasoline 2-stroke	Rural driving	4,56	352,84	2476,82	13,84	2594,44	73	1,73	0,69	41,51	41,51	41,51
2000		Passenger cars	Gasoline conventional	Rural driving	4,56	1162,18	453,70	14,15	3177,80	73	2,43	0,97	11,67	11,67	11,67
2000		Passenger cars	Gasoline catalyst	Rural driving	4,56	221,18	38,81	5,66	604,85	73	8,78	54,87	0,38	0,38	0,38
2000	070103	Passenger cars	Diesel	Urban driving	2,34	264,00	62,80	2,68	256,87	74	9,94	0,37	63,86	63,86	63,86
2000		Passenger cars	LPG	Urban driving	0,00	615,47	431,32	34,44	1333,85	65	4,40	0,00	11,73	11,73	11,73
2000		Passenger cars	Gasoline 2-stroke	Urban driving	4,56	61,43	3122,63	30,71	4238,59	73	1,02	0,41	24,57	24,57	24,57
2000		Passenger cars	Gasoline conventional	Urban driving	4,56	631,26	887,74	53,72	8489,49	73	1,60	0,64	11,29	11,29	11,29
2000		Passenger cars	Gasoline catalyst	Urban driving	4,56	218,19	300,50	68,00	4359,45	73	15,95	21,07	0,33	0,33	0,33
2000	070201	Light duty vehicles	Diesel	Highway driving	2,34	316,96	32,99	1,72	261,38	74	5,84	0,34	73,20	73,20	73,20
2000		Light duty vehicles	Gasoline conventional	Highway driving	4,56	1369,26	170,29	10,11	2987,40	73	2,43	0,81	16,17	16,17	16,17
2000		Light duty vehicles	Gasoline catalyst	Highway driving	4,56	128,89	19,42	4,02	461,06	73	12,03	34,36	0,24	0,24	0,24
2000	070202	Light duty vehicles	Diesel	Rural driving	2,34	340,22	37,80	1,88	259,03	74	6,39	0,38	72,05	72,05	72,05
2000		Light duty vehicles	Gasoline conventional	Rural driving	4,56	1188,86	262,59	15,25	2316,18	73	2,29	0,76	15,25	15,25	15,25
2000		Light duty vehicles	Gasoline catalyst	Rural driving	4,56	113,39	26,49	4,59	345,17	73	5,19	32,44	0,23	0,23	0,23
2000	070203	Light duty vehicles	Diesel	Urban driving	2,34	434,58	63,63	2,53	301,40	74	4,63	0,27	90,23	90,23	90,23
2000		Light duty vehicles	Gasoline conventional	Urban driving	4,56	623,75	699,82	60,80	7425,59	73	1,33	0,44	8,84	8,84	8,84
2000		Light duty vehicles	Gasoline catalyst	Urban driving	4,56	138,14	169,45	33,87	3338,02	73	9,99	13,19	0,17	0,17	0,17
2000	070301	Heavy duty vehicles	Diesel	Highway driving	2,34	620,39	63,90	5,17	139,11	74	2,91	0,28	31,06	31,06	31,06
2000		Heavy duty vehicles	Gasoline	Highway driving	4,56	1037,77	474,61	9,69	7610,35	73	0,83	0,28	55,35	55,35	55,35
2000	070302	Heavy duty vehicles	Diesel	Rural driving	2,34	718,37	81,43	5,65	172,70	74	2,98	0,26	37,59	37,59	37,59
2000		Heavy duty vehicles	Gasoline	Rural driving	4,56	1141,55	820,40	16,74	8371,39	73	0,91	0,30	60,88	60,88	60,88
2000	070303	Heavy duty vehicles	Diesel	Urban driving	2,34	773,39	95,17	9,78	205,92	74	2,42	0,24	42,79	42,79	42,79
2000		Heavy duty vehicles	Gasoline	Urban driving	4,56	456,62	696,09	14,21	7102,99	73	0,61	0,20	40,59	40,59	40,59
2000	0704	Mopeds	Gasoline		4,56	27,40	8057,18	162,00	13698,63	73	0,74	0,74	73,06	73,06	73,06
2000	070501	Motorcycles	Gasoline	Highway driving	4,56	215,21	1274,26	121,98	17689,91	73	1,27	1,27	11,41	11,41	11,41
2000	070502	Motorcycles	Gasoline	Rural driving	4,56	173,17	1528,59	146,07	16834,38	73	1,52	1,52	39,46	39,46	39,46
2000	070503	Motorcycles	Gasoline	Urban driving	4,56	93,28	2018,55	147,26	15322,47	73	1,53	1,53	39,78	39,78	39,78
2000	0706						4863,82								
2000	0707												98,00	98,00	2,68
2000	0801	Military	Diesel		2,34	545,39	64,95	4,81	207,04	74	4,95	0,31	52,52	52,52	52,52
2000		Military	Gasoline		4,57	435,25	439,70	35,53	3551,31	73	10,11	26,44	4,43	4,43	4,43
2000		Military	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60	10,00	10,00	10,00
2000		Military	Jet fuel	< 3000 ft	4,60	250,57	24,94	2,65	229,89	72	2,30	0,00	1,16	1,16	1,16
2000		Military	Jet fuel	> 3000 ft	4,60	250,57	24,94	2,65	229,89	72	2,30	0,00	1,16	1,16	1,16
2000	0802	Railways	Diesel		2,34	691,26	43,21	4,76	103,48	74	2,04	0,20	52,52	52,52	52,52
2000		Railways	Kerosene		5,00	50,00	3,00	7,00	20,00	72	2,00	0,00	121,95	115,85	110,06
2000		Railways	Gasoline		4,57	435,25	439,70	35,53	3551,31	73	10,11	26,44	4,43	4,43	4,43
2000	0803	Inland waterways	Gasoline		4,57	64,34	10809,58	108,10	18485,08	73	0,52	0,10	23,25	23,25	23,25
2000		Inland waterways	Diesel		2,34	1249,33	270,13	4,35	595,20	74	3,05	0,17	164,83	156,59	148,76

Year	snap_id	Category	Fuel type	Mode	SO_2 [g/GJ]	NO_x [g/GJ]	NMVOC [g/GJ]	CH_4 [g/GJ]	CO [g/GJ]	CO_2 [kg/GJ]	N_2O [g/GJ]	NH_3 [g/GJ]	TSP [g/GJ]	PM10 [g/GJ]	PM2.5 [g/GJ]
2000	080402	National sea traffic	Residual oil		871,08	1393,60	56,90	1,76	180,90	78	4,90		139,40	132,43	125,81
2000		National sea traffic	Diesel		93,68	1334,90	54,50	1,69	173,30	74	4,70	0,00	42,15	40,04	38,04
2000		National sea traffic	Kerosene		4,60	50,00	3,00	7,00	20,00	72	2,00	2,00	97,56	92,68	88,05
2000		National sea traffic	LPG		0,00	1249,00	384,90	20,30	443,00	65	2,00	0,00	12,44	12,44	12,44
2000	080403	Fishing	Residual oil		871,08	1393,60	56,90	1,76	180,90	78	4,90		139,40	132,43	125,81
2000		Fishing	Diesel		93,68	1334,90	54,50	1,69	173,30	74	4,70	0,00	42,15	40,04	38,04
2000		Fishing	Kerosene		4,60	50,00	3,00	7,00	20,00	72	2,00		97,56	92,68	88,05
2000		Fishing	Gasoline		4,60	64,34	10809,60	108,10	18485,10	73	0,52	0,10	23,25	23,25	23,25
2000		Fishing	LPG		0,00	1249,00	384,90	20,30	443,00	65	2,00	0,00	12,44	12,44	12,44
2000	080404	International sea traffic	Residual oil		1641,94	2127,10	56,90	1,76	180,90	78	4,90		200,50	190,48	180,95
2000		International sea traffic	Diesel		468,38	2037,50	54,50	1,69	173,30	74	4,70		42,15	40,04	38,04
2000	080501	Air traffic, Copenhagen airport	Jet fuel	Dom. < 3000 ft	4,60	261,62	26,06	2,77	198,41	72	6,25		1,16	1,16	1,16
2000		Air traffic, Copenhagen airport	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60	10,00	10,00	10,00
2000	080502	Air traffic, Copenhagen airport	Jet fuel	Int. < 3000 ft	4,60	295,98	29,09	3,09	188,95	72	4,65	0,00	1,16	1,16	1,16
2000		Air traffic, Copenhagen airport	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60	10,00	10,00	10,00
2000	080503	Air traffic, Copenhagen airport	Jet fuel	Dom. > 3000 ft	4,60	328,51	11,64	1,24	98,39	72	2,30	0,00	1,16	1,16	1,16
2000	080504	Air traffic, Copenhagen airport	Jet fuel	Int. > 3000 ft	4,60	296,09	10,18	1,08	36,55	72	2,30	0,00	1,16	1,16	1,16
2000	080501	Air traffic, other airports	Jet fuel	Dom. < 3000 ft	4,60	284,97	14,75	1,57	101,32	72	7,69		1,16	1,16	1,16
2000		Air traffic, other airports	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60	10,00	10,00	10,00
2000	080502	Air traffic, other airports	Jet fuel	Int. < 3000 ft	4,60	314,47	25,28	2,68	175,31	72	6,82		1,16	1,16	1,16
2000		Air traffic, other airports	Aviation gasoline		4,57	859,00	1242,60	21,90	6972,00	73	2,00	1,60	10,00	10,00	10,00
2000	080503	Air traffic, other airports	Jet fuel	Dom. > 3000 ft	4,60	325,06	12,05	1,28	100,46	72	2,30		1,16	1,16	1,16
2000	080504	Air traffic, other airports	Jet fuel	Int. > 3000 ft	4,60	258,16	10,39	1,10	61,84	72	2,30		1,16	1,16	1,16
2000	0806	Agriculture	Diesel		2,34	1263,23	189,56	4,43	424,13	74	3,10	0,18	127,72	121,34	115,27
2000		Agriculture	Gasoline		4,57	244,33	1022,05	51,10	24741,09	73	1,80	0,12	23,25	23,25	23,25
2000	0807	Forestry	Diesel		2,34	1200,17	227,58	4,37	522,12	74	3,06	0,17	142,30	135,19	128,43
2000		Forestry	Gasoline		4,57	48,66	18095,47	180,95	33391,26	73	0,48	0,10	23,25	23,25	23,25
2000	0808	Industry	Diesel		2,34	1212,71	170,20	4,48	394,79	74	3,13	0,18	115,28	109,52	104,04
2000		Industry	Gasoline		4,57	216,67	3096,74	119,76	44820,30	73	1,63	0,11	23,25	23,25	23,25
2000		Industry	LPG		0,00	621,12	838,51	62,11	931,68	65	3,11	0,19	12,44	12,44	12,44
2000	0809	Household and gardening	Gasoline		4,57	213,71	3726,00	116,17	42616,59	73	1,61	0,11	23,25	23,25	23,25

Appendix 5

Key Sources Analyses for year 2000

NERI, Erik Lyck, April 15 2002

Appendix 5. Key source analysis for year 2000.

A key source analysis according to the Good Practice Guidance, Penman et al (2000), has been carried out. The base year in the analysis is year 1995 for HFC, PFC and SF_6, and 1990 for the other greenhouse gases. The base year is unadjusted to electricity trade. The analysis was made for the inventory from year 2000. The approach was a Tier 1 quantitative analysis. As suggested in the Good Practice Guidance the analysis was carried out without considering LULUCF. The starting point for the choice of source categories was the one presented in the Good Practice Guidance as Table 7.1. However, as long as categories in this table in our Corinair database was composed of activities with different emission factors, splits were made accordingly. Especially in the Energy Sector further splits were made as compared to the Table 7.1 in the Good Practice Guidance. Our choice of categories for the analysis identifies 59 source categories, which are listed in Table 3.

The level assessment of the key source analysis is a ranking of the source categories in accordance to their contributions to the national total of greenhouse gases calculated in CO_2-equivalent units. The key sources are found from the ranked list with descending contributions as source categories which sum contributes to 95% of the national total. The result of this analysis for Denmark for year 2000 is shown in Table 1; 20 key sources were identified and marked as shaded in the table. The entries to Table 1 and 2 for the year 1990 and 2000 are composed from the databases producing the CRF inventory for those years in this report. Note that base year estimates are not used in the level assessment analysis, but are only included in Table 1 to make it uniform with Table 2.

The trend assessment of the key source analysis is a ranking of the source categories according to their contribution to the trend of the national total of greenhouse gases calculated in CO2-equivalent units from the base year to the year considered. The ranking is performed on the trend of the source category relative to the trend of the national totals. Before the ranking in descending order the trend is weighted by the contribution according to the level assessment. As for the level assessment the cut of line is 95% for the sum of contribution to the trend. The result of the trend assessment for Denmark for year 2000 is shown in Table 2; 16 key sources were identified and marked as shaded in the table. Note that according to the Good Practice Guidance the analysis imply that contributions to the trend are all calculated positive to be able to do the ranking.

Following the reporting suggestion of the Good Practice Guidance the analyses are summarised in Table 3. In this table all categories used in the analysis are listed and the results of the key sources analyses are given. It is seen that of the 59 source categories chosen for this analysis, 22 are identified as key source categories of which 14 are identified due to level and trend, 6 due to level only and 2 due to trend only. The Energy Sector and CO_2 Emission from stationary Combustion contributes to 5 key source categories with respect both to level and trend. These key sources are the major fuels Steam Coal, Residual Oil, Gas Oil, Orimulsion and Natural Gas. The trend in emission estimates comparing year 1990 and 2000, Steam Coal, Residual Oil and Gas Oil are seen to reduce emissions while Orimulsion and especially Natural Gas increase. CO_2 from Mobile Combustion categories Road Transportation and Agriculture are identified as keys for level and trend. Both these sources have increased emission estimates from year 1990 to 2000, where especially the former contributes. Finally, the Energy Sector contributes with 2 level and trend key sources with increasing emissions from year 1990 to 2000. They are Non-CO_2 Emission from stationary Combustion (CH_4) and Fugitive CO_2 emissions from Oil and Natural Gas and their contribution to the national total in 2000 are the lowest among level and trend key sources. In the Agriculture Sector, 3 sources are keys with respect both to level and trend. They are N_2O emissions from Agriculture Soils, indirect N_2O emissions from Nitrogen used in Agriculture and CH_4 from Enteric Fermentation. The emission estimates for these 3 sources represent a reduced emission from year 1990 to 2000. In the Industrial Sector, 2 sources are keys with respect both to level and trend; they are CO_2 emissions from Cement Production and Emission from substitutes for Ozone Depleting Substances. The trends from year 1990 to 2000 for these sources are increased emissions.

Table 1

Table 7.A1 (of Good Practice Guidance) Tier 1 Analysis - Level Assessment (DK-inventory)							
A IPCC Source Categories (LULUCF not included)			B Direct Greenh. Gas	C Base Year Estimate (1) Mt CO2-eq	D Year 2000 Estimate Mt CO2-eq	E Level Assess-ment	F Cumulative total of Column E
Energy	CO2 Emission from stationary Combustion	Steam coal	CO2	24,205	15,762	0,230	0,23
Energy	Mobile combustion	Road Transportation	CO2	9,351	11,230	0,164	0,39
Energy	CO2 Emission from stationary Combustion	Natural gas	CO2	4,330	10,622	0,155	0,55
Agriculture	Direct N2O emissions from Agriculture soils		N2O	6,210	4,957	0,072	0,62
Agriculture	Indirect N2O emissions from N used in agriculture		N2O	3,588	2,896	0,042	0,66
Energy	CO2 Emission from stationary Combustion	Gas oil	CO2	4,858	2,860	0,042	0,71
Energy	CO2 Emission from stationary Combustion	Orimulsion	CO2	0,000	2,732	0,040	0,75
Agriculture	Enteric fermentation		CH4	3,152	2,673	0,039	0,78
Energy	CO2 Emission from stationary Combustion	Residual oil	CO2	2,505	1,462	0,021	0,81
Industrial Processes	CO2 emissions from Cement production		CO2	0,883	1,348	0,020	0,83
Energy	Mobile combustion	agriculture	CO2	1,082	1,290	0,019	0,84
Waste	Emission from Solid Waste Disposal sites		CH4	1,310	1,197	0,017	0,86
Energy	Mobile combustion	other mobil and machinery/industry	CO2	0,737	0,879	0,013	0,87
Energy	CO2 Emission from stationary Combustion	Refinery gas	CO2	0,806	0,869	0,013	0,89
Agriculture	Manure management		CH4	0,898	0,858	0,013	0,90
Industrial Processes	Emission from substitutes for ODS		HFC+PFC	0,238	0,758	0,011	0,91
Energy	Mobile combustion	national fishing	CO2	0,799	0,699	0,010	0,92
Energy	Non-CO2 Emission from stationary Combustion		CH4	0,158	0,625	0,009	0,93
Energy	CO2 Emission from stationary Combustion	Petroleum coke	CO2	0,455	0,625	0,009	0,94
Energy	Fugitive emissions	Oil and Natural Gas	CO2	0,240	0,593	0,009	0,95
Energy	CO2 Emission from stationary Combustion	Nonbiogenic plast waste	CO2	0,400	0,582	0,008	0,96
Agriculture	N2O from Manure management		N2O	0,462	0,440	0,006	0,96
Energy	Mobile combustion	Navigation	CO2	0,539	0,433	0,006	0,97
Energy	Mobile combustion	Road Transportation	N2O	0,135	0,372	0,005	0,97
Energy	Non-CO2 Emission from stationary Combustion		N2O	0,387	0,359	0,005	0,98
Energy	Fugitive emissions	Oil and Natural Gas	CH4	0,193	0,249	0,004	0,98
Energy	Mobile combustion	Railways	CO2	0,298	0,228	0,003	0,99
Energy	Mobile combustion	Civil Aviation	CO2	0,193	0,137	0,002	0,99
Solvent and Other Product Use			CO2	0,124	0,112	0,002	0,99
Energy	Mobile combustion	Military	CO2	0,119	0,111	0,002	0,99
Industrial Processes	CO2 emissions from Lime production		CO2	0,123	0,105	0,002	0,99
Energy	Mobile combustion	household and gardening	CO2	0,071	0,085	0,001	0,99
Energy	CO2 Emission from stationary Combustion	LPG	CO2	0,148	0,072	0,001	1,00
Energy	Fugitive emissions	Solid Fuels	CH4	0,069	0,070	0,001	1,00
Energy	Mobile combustion	Road Transportation	CH4	0,055	0,069	0,001	1,00
Industrial Processes	SF6 from other sources of SF6		SF6	0,068	0,027	<0,001	1,00
Industrial Processes	SF6 from magnesium Production		SF6	0,036	0,021	<0,001	1,00
Energy	Mobile combustion	agriculture	N2O	0,014	0,017	<0,001	1,00
Energy	Mobile combustion	national fishing	N2O	0,016	0,014	<0,001	1,00
Energy	CO2 Emission from stationary Combustion	Kerosene	CO2	0,366	0,012	<0,001	1,00
Energy	Mobile combustion	other mobil and machinery/industry	N2O	0,008	0,012	<0,001	1,00
Industrial Processes	SF6 from electrical equipment		SF6	0,004	0,011	<0,001	1,00
Energy	Mobile combustion	Navigation	N2O	0,010	0,008	<0,001	1,00
Energy	Mobile combustion	forestry	CO2	0,004	0,005	<0,001	1,00
Energy	Mobile combustion	other mobil and machinery/industry	CH4	0,004	0,004	<0,001	1,00
Energy	Fugitive emissions	Oil and Natural Gas	N2O	0,001	0,003	<0,001	1,00
Energy	Mobile combustion	household and gardening	CH4	0,002	0,003	<0,001	1,00
Energy	Mobile combustion	Civil Aviation	N2O	0,003	0,002	<0,001	1,00
Energy	Mobile combustion	agriculture	CH4	0,002	0,002	<0,001	1,00
Energy	Mobile combustion	Railways	N2O	0,003	0,002	<0,001	1,00
Energy	Mobile combustion	Navigation	CH4	0,001	0,001	<0,001	1,00
Energy	Mobile combustion	Military	N2O	0,001	0,001	<0,001	1,00
Energy	Mobile combustion	household and gardening	N2O	0,000	0,001	<0,001	1,00
Energy	Mobile combustion	national fishing	CH4	0,000	0,000	<0,001	1,00
Energy	Mobile combustion	Railways	CH4	0,000	0,000	<0,001	1,00
Energy	Mobile combustion	forestry	CH4	0,000	0,000	<0,001	1,00
Energy	Mobile combustion	Civil Aviation	CH4	0,000	0,000	<0,001	1,00
Energy	Mobile combustion	Military	CH4	0,000	0,000	<0,001	1,00
Energy	Mobile combustion	forestry	N2O	0,000	0,000	<0,001	1,00
Total				69,663	68,505	1	

(1) The base year is 1995 for HFC, PFC and SF6; and 1990 for the other greenhouse gases. The base year is unadjusted to electricity trade.

Table 2

Table 7.A2 (of Good Practice Guidance) Tier 1 Analysis - Trend Assessment (DK-inventory)								
A IPCC Source Categories (LULUCF not included)			B Direct Greenh. Gas	C Base Year Estimate (1) Mt CO2-eq	D Year 2000 Estimate Mt CO2-eq	E Trend Assess-ment	F % Contri-bution to Trend	G Cumulative total of column F
Energy	CO2 Emission from stationary Combustion	Steam coal	CO2	24,21	15,76	0,1194	28,4	0,28
Energy	CO2 Emission from stationary Combustion	Natural gas	CO2	4,33	10,62	0,0945	22,5	0,51
Energy	CO2 Emission from stationary Combustion	Orimulsion	CO2	0,00	2,73	0,0406	9,7	0,61
Energy	Mobile combustion	Road Transportation	CO2	9,35	11,23	0,0302	7,2	0,68
Energy	CO2 Emission from stationary Combustion	Gas oil	CO2	4,86	2,86	0,0285	6,8	0,75
Agriculture	Direct N2O emissions from Agriculture soils		N2O	6,21	4,96	0,0171	4,1	0,79
Energy	CO2 Emission from stationary Combustion	Residual oil	CO2	2,50	1,46	0,0149	3,5	0,82
Agriculture	Indirect N2O emissions from Nitrogen used in agriculture		N2O	3,59	2,90	0,0094	2,2	0,84
Industrial Processes	Emission from substitutes for ODS		HFC+PFC	0,24	0,76	0,0078	1,9	0,86
Industrial Processes	CO2 emissions from Cement production		CO2	0,88	1,35	0,0071	1,7	0,88
Energy	Non-CO2 Emission from stationary Combustion		CH4	0,16	0,62	0,0070	1,7	0,90
Agriculture	Enteric fermentation		CH4	3,15	2,67	0,0063	1,5	0,91
Energy	Fugitive emissions	Oil and Natural Gas	CO2	0,24	0,59	0,0053	1,3	0,92
Energy	CO2 Emission from stationary Combustion	Kerosene	CO2	0,37	0,01	0,0052	1,2	0,94
Energy	Mobile combustion	Road Transportation	N2O	0,13	0,37	0,0036	0,8	0,95
Energy	Mobile combustion	agriculture	CO2	1,08	1,29	0,0034	0,8	0,95
Energy	CO2 Emission from stationary Combustion	Nonbiogenic plast waste	CO2	0,40	0,58	0,0028	0,7	0,96
Energy	CO2 Emission from stationary Combustion	Petroleum coke	CO2	0,45	0,62	0,0026	0,6	0,97
Energy	Mobile combustion	other mobil and machinery/industry	CO2	0,74	0,88	0,0023	0,5	0,97
Energy	Mobile combustion	Navigation	CO2	0,54	0,43	0,0014	0,3	0,97
Waste	Emission from Solid Waste Disposal sites		CH4	1,31	1,20	0,0014	0,3	0,98
Energy	Mobile combustion	national fishing	CO2	0,80	0,70	0,0013	0,3	0,98
Energy	CO2 Emission from stationary Combustion	Refinery gas	CO2	0,81	0,87	0,0011	0,3	0,98
Energy	CO2 Emission from stationary Combustion	LPG	CO2	0,15	0,07	0,0011	0,3	0,99
Energy	Mobile combustion	Railways	CO2	0,30	0,23	0,0010	0,2	0,99
Energy	Fugitive emissions	Oil and Natural Gas	CH4	0,19	0,25	0,0009	0,2	0,99
Energy	Mobile combustion	Civil Aviation	CO2	0,19	0,14	0,0008	0,2	0,99
Industrial Processes	SF6 from other sources of SF6		SF6	0,07	0,03	0,0006	0,1	0,99
Agriculture	Manure management		CH4	0,90	0,86	0,0004	0,1	1,00
Energy	Non-CO2 Emission from stationary Combustion		N2O	0,39	0,36	0,0003	0,1	1,00
Energy	Mobile combustion	Road Transportation	CH4	0,05	0,07	0,0002	0,1	1,00
Industrial Processes	CO2 emissions from Lime production		CO2	0,12	0,10	0,0002	0,1	1,00
Energy	Mobile combustion	household and gardening	CO2	0,07	0,08	0,0002	0,1	1,00
Agriculture	N2O from Manure management		N2O	0,46	0,44	0,0002	0,1	1,00
Industrial Processes	SF6 from magnesium Production		SF6	0,04	0,02	0,0002	0,0	1,00
Solvent and Other Product Use			CO2	0,12	0,11	0,0001	0,0	1,00
Industrial Processes	SF6 from electrical equipment		SF6	0,00	0,01	0,0001	0,0	1,00
Energy	Mobile combustion	Military	CO2	0,12	0,11	0,0001	0,0	1,00
Energy	Mobile combustion	other mobil and machinery/industry	N2O	0,01	0,01	0,0001	0,0	1,00
Energy	Mobile combustion	agriculture	N2O	0,01	0,02	0,0000	0,0	1,00
Energy	Mobile combustion	Navigation	N2O	0,01	0,01	0,0000	0,0	1,00
Energy	Fugitive emissions	Oil and Natural Gas	N2O	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	national fishing	N2O	0,02	0,01	0,0000	0,0	1,00
Energy	Fugitive emissions	Solid Fuels	CH4	0,07	0,07	0,0000	0,0	1,00
Energy	Mobile combustion	forestry	CO2	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	other mobil and machinery/industry	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	Civil Aviation	N2O	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	Railways	N2O	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	household and gardening	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	agriculture	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	Navigation	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	Military	N2O	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	household and gardening	N2O	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	Railways	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	national fishing	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	Civil Aviation	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	forestry	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	Military	CH4	0,00	0,00	0,0000	0,0	1,00
Energy	Mobile combustion	forestry	N2O	0,00	0,00	0,0000	0,0	1,00
		total		69,66	68,51	0,4196	100,0	

(1) The base year is 1995 for HFC, PFC and SF6; and 1990 for the other greenhouse gases. The base year is unadjusted to electricity trade.

Table 3

Table 7.A3 (of Good Practice Guidance) Source Category Analysis Summary (DK-inventory)						
Quantitative method used: Tier 1						
A IPCC Source Categories (LULUCF not included)			B Direct Greenh. Gas	C Key Source	D If C is yes criteria for identi-fikation	E Comments
Energy						
	CO2 Emission from stationary Combustion	Steam coal	CO2	Yes	Level, Trend	See text
	CO2 Emission from stationary Combustion	Petroleum coke	CO2	Yes	Level	
	CO2 Emission from stationary Combustion	Nonbiogenic plast waste	CO2	No		Waste Incineration
	CO2 Emission from stationary Combustion	Residual oil	CO2	Yes	Level, Trend	See text
	CO2 Emission from stationary Combustion	Gas oil	CO2	Yes	Level, Trend	See text
	CO2 Emission from stationary Combustion	Kerosene	CO2	No		
	CO2 Emission from stationary Combustion	Orimulsion	CO2	Yes	Level, Trend	See text
	CO2 Emission from stationary Combustion	Natural gas	CO2	Yes	Level, Trend	See text
	CO2 Emission from stationary Combustion	LPG	CO2	No		
	CO2 Emission from stationary Combustion	Refinery gas	CO2	Yes	Level	
	Mobile combustion	Civil Aviation	CO2	No		
	Mobile combustion	Road Transportation	CO2	Yes	Level, Trend	See text
	Mobile combustion	Railways	CO2	No		
	Mobile combustion	Navigation	CO2	No		
	Mobile combustion	Military	CO2	No		
	Mobile combustion	national fishing	CO2	Yes	Level	
	Mobile combustion	agriculture	CO2	Yes	Level, Trend	See text
	Mobile combustion	forestry	CO2	No		
	Mobile combustion	other mobil and machinery/industry	CO2	Yes	Level	
	Mobile combustion	household and gardening	CO2	No		
	Fugitive emissions	Oil and Natural Gas	CO2	Yes	Level, Trend	See text
	Non-CO2 Emission from stationary Combustion		CH4	Yes	Level, Trend	See text
	Mobile combustion	Civil Aviation	CH4	No		
	Mobile combustion	Road Transportation	CH4	No		
	Mobile combustion	Railways	CH4	No		
	Mobile combustion	Navigation	CH4	No		
	Mobile combustion	Military	CH4	No		
	Mobile combustion	national fishing	CH4	No		
	Mobile combustion	agriculture	CH4	No		
	Mobile combustion	forestry	CH4	No		
	Mobile combustion	other mobil and machinery/industry	CH4	No		
	Mobile combustion	household and gardening	CH4	No		
	Fugitive emissions	Solid Fuels	CH4	No		
	Fugitive emissions	Oil and Natural Gas	CH4	Yes	Trend	
	Non-CO2 Emission from stationary Combustion		N2O	No		
	Mobile combustion	Civil Aviation	N2O	No		
	Mobile combustion	Road Transportation	N2O	Yes	Trend	
	Mobile combustion	Railways	N2O	No		
	Mobile combustion	Navigation	N2O	No		
	Mobile combustion	Military	N2O	No		
	Mobile combustion	national fishing	N2O	No		
	Mobile combustion	agriculture	N2O	No		
	Mobile combustion	forestry	N2O	No		
	Mobile combustion	other mobil and machinery/industry	N2O	No		
	Mobile combustion	household and gardening	N2O	No		
	Fugitive emissions	Solid Fuels	N2O	No		
Industrial Processes						
	CO2 emissions from Cement production		CO2	Yes	Level, Trend	See text
	CO2 emissions from Lime production		CO2	No		
	SF6 from magnesium Production		SF6	No		
	SF6 from electrical equipment		SF6	No		
	SF6 from other sources of SF6		SF6	No		
	Emission from substitutes for ODS		HFC+PFC	Yes	Level, Trend	See text
Solvent and Other Product Use						
	Solvent and Other Product Use		CO2	No		
Agriculture						
	Enteric fermentation		CH4	Yes	Level, Trend	See text
	Manure management		CH4	Yes	Level	
	N2O from Manure management		N2O	No		
	Direct N2O emissions from Agriculture soils		N2O	Yes	Level, Trend	See text
	Indirect N2O emissions from Nitrogen used in agriculture		N2O	Yes	Level, Trend	See text
Waste						
	Emission from Solid Waste Disposal sites		CH4	Yes	Level	

Appendix 6

The specific methodologies regarding adjustments

Danish Energy Agency
Electricity division

2000-01-28
SLP

Electricity import/export corrections.

Background.

For statistical purposes and for reporting purposes, the Danish Energy Agency (DEA) produces a correction of actual TPES and emissions in order to follow the *trend* in these indicators without random variations in electricity imports/exports (I/E) and ambient temperature.

In order to produce the I/E correction it is necessary to estimate how much fuel would have been used, if there had been exactly zero imports. This can be done in several ways. There is a complication due to the fact that a substantial fraction of the Danish electricity production is produced as combined heat and power (CHP). For a number of years, the statistics division of the DEA has used a method based on the average fuel consumption for electricity production. This validity of this method ("Statistics method") was questioned after the 1996 experience wih massive electricity exports. The reasoning was, that the marginal electricity plant in case of large exports would be substantially less efficient than the average plant. As a consequence, a number of other correction methods were investigated.

This paper describes and compares three methods for electricity imports/exports correction.

1: Statistics method.

The statistics division of the DEA until 1997 computed the I/E correction as follows: Firstly, the total fuel consumtion in all electricity producing plants was added. Secondly, the fuel used for heat in CHP plants was subtracted[1]. This gives the total fuel for electricity production. Thirdly, this is divided by the total electricity production to produce an average CO_2 content in a kWh. And finally, this is multiplied by the I/E to produce the I/E correction.

Thus the I/E correction with the statistics method is based on the average plant. The corrected emission is calculated as follows:

$$Emi_{Corr} = Emi \times \left(1 - \frac{H}{Eff_h \times En}\right) \times \frac{I}{P}$$

[1] The fuel consumption for heat in central CHP plants was calculated using a marginal heat efficiency (currently around 256%). The fuel consumption for heat in small-scale decentralised CHP plants was calculated using a pro rata principle.

where:

Emi	- is the calculated total emission from central power plants in tonnes.
H	- is the heat production at the power plants, used for district heating in PJ.
En	- is the total fuel consumption at the central power plants in PJ.
I	- is the imported or exported electricity in kWh.
P	- is the produced electricity at the central power plants in kWh.
Eff_h	- is the marginal efficiency of heat production, estimated to be 2.0.

In a year like 1996 with excessive export this was expected to underestimate the I/E correction since the marginal plants would play a dominant role. Another weakness with the statistics method is the fact that the fuel mix in small-scale CHP-plants contributes to the I/E correction. Since their electricity production is fixed by the local heat demand, this is not consistent with the actual functioning of the load dispatch.

2: RAMSES method.

A more correct estimate of the I/E correction can be made by simulating the economic load dispatch of the actual electricity system with and without I/E. This in principle produces a physically and economically correct distribution on electricity plants of the extra or reduced production due to I/E.

The DEA has made such a calculation for 1988, 1990, 1995 and 1996 on a simulation tool (RAMSES). This model has been used extensively by the DEA for energy planning of the power sector for the last 10 years. The model produces a simplified system simulation, representing Denmark by one electricity and 28 district heating areas.

3: SOxNOx method.

The two system operators Elsam and Elkraft must every year before the first of May submit detailed information on SO_2 and NO_x emissions in their areas, subject to Danish law[2]. Included in this annual submission is a calculation of the I/E correction.

The method used to produce this I/E correction (SOxNOx method) is a simulation as with the RAMSES method. Only the model used is not RAMSES but a simulation tool developed by the system operators.

The SOxNOx method is slightly more “realistic” than the RAMSES method, since planned and unplanned outages are not modelled but taken from actual operating records.

[2] Government order no. 885 of 18 December 1991 by the Environmental Protection Agency under the Environmental Protection Act.

Comparison.

In the table below computed I/E corrections are compared using the three methods. For comparison, the total CO_2 emission from the whole energy sector was a little more than 60 mill. tonnnes in 1988.

Year	Imports TWh	Statistics mill. t of CO2	RAMSES mill. t of CO2	SOxNOx mill. t of CO2
1988	4.21	3.81	3.83	3.71
1990	7.05	6.29	6.30	6.41
1995	-0.79	-0.60	-0.70	-0.69
1996	-15.40	-12.23	-13.47	-13.32

Net imports and I/E corrections in mill. tonnes of CO_2.

Denmark imported electricity in 1988 and 1990, hence the I/E correction is positive. Denmark exported electricity in 1995 and 1996, hence the I/E correction for these years is negative.

Conclusion.

For 1988, 1990 and 1995 the three methods produce very similar results. This indicates that the statistics metod in spite of the flaws mentioned is useful at moderate I/E levels.

However for 1996 the statistics metod is unable to handle the large electricity export correctly. The more correct RAMSES and SOxNOx methods give a substantially higher I/E correction – the difference is 1.1-1.3 mill. tonnes of CO_2. However, even in 1996 the RAMSES and SOxNOx methods (the simulation tools) are in fine agreement.

On this basis it has been chosen to use the SOxNOx method for the hole period since

- The method is more correct (physically and economically).
- It is based on annual submissions from the power companies subject to Danish law.
- The results from the annual SOxNOx submissions can be controlled with reasonable accuracy on the RAMSES model by the DEA.

Date 2002-04-12

Degree Day Correction of Fuel Consumption

The Degree Day Factor

A registered fuel consumption for a specific sector, B, in a year with degree days G may be compared with the fuel consumption in a normal year with degree days Gn according to the following formula:

$$B = Bn \bullet (1-r) + Bn \bullet r \bullet (1-a) + Bn \bullet r \bullet a \bullet G/Gn = Bn \bullet (1-r \bullet a \bullet (1-G/Gn))$$

where

Bn = the total fuel consumption of the normal year
r = share of the normal year's fuel consumption used for heating purposes
a = share of the normal year's fuel consumption used for heating which is dependent on degree days

If the normal year's fuel consumption is to be calculated as the product of the actual consumption multiplied by a degree day factor Fg, the following formula is used

$$Bn = B \bullet Fg$$

where

$$Fg = 1/(1- r \bullet a \bullet (1-G/Gn))$$

Degree Days

The Danish Meteorological Institute (DMI) measures degree days. Degree days are published as an average of the measurements made by a number of selected observing stations. The used reference temperature is 17°C and the degree days are measured every day of the year.

The normal year excluding the summer period is calculated as the average of the period 1971-90. It has 3175 shadow degree days. Degree days in the summer period were not registered before 1987 and the average for the period 1987-1998 is 195, which results in a total normal year's degree days of 3370. Table 1 shows the degree days for this period.

Table 1
Shadow Degree Days from DMI

	Period		
Year	Winter	Summer	Total
1987	3509	336	3845
1988	3010	151	3161
1989	2736	190	2926
1990	2704	153	2857
1991	3074	210	3284
1992	2938	84	3022
1993	3152	282	3434
1994	2974	174	3148
1995	3142	155	3297
1996	3559	278	3837
1997	3153	83	3236
1998	2969	248	3217
1999	2881	175	3056
2000	2662	240	2902
Normal Year[3]	3175	195	3370

The degree day correction is based on the assumption that only the fuel consumption for space heating depends on the outdoor temperature. Furthermore it is assumed that the fuel consumption for heating may be divided into two parts: one which is independent of the outdoor temperature and one which is directly proportional to the degree day figure.

Consequently, for each sector and for each type of fuel a value has to be stated for r and a.

Based upon registrations and estimates, the following shares of the various types of fuels for heating and the stated degree day dependent shares are used.

[3] The normal year winter period is the average of the period 1971-90. The normal year summer period is the average of the period 1987-98 due to lack of data. These two put together constitute the total degree days of the normal year.

Table 2 Share for heating (r)	Agriculture and Forestry	Horti-cultur e	Fishing	Manu-facturing	Con-struction	Whole-sale	Retail	Private service	Public service
Gas works gas	0,00	0,00	0,00	0,20	0,00	0,00	0,00	1,00	1,00
District heating	0,00	1,00	0,00	0,50	0,00	0,90	1,00	1,00	1,00
Coal	1,00	1,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Brown coal	1,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Cokes and foundry furnace cokes	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Petroleum	1,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Gas oil	0,80	1,00	0,00	0,50	1,00	0,70	0,90	0,80	1,00
Fuel oil	1,00	1,00	0,00	0,10	0,00	1,00	1,00	1,00	1,00
LPG	1,00	1,00	0,00	0,10	0,00	0,20	0,40	0,20	0,20
Electricity	0,10	0,00	0,00	0,02	0,00	0,04	0,04	0,04	0,04
Crude oil cokes	1,00	1,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Orimulsion	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Natural gas	1,00	1,00	0,00	0,20	1,00	0,70	1,00	0,90	1,00
Wood and waste wood	0,00	1,00	0,00	0,30	0,00	0,00	0,00	0,00	0,00
Straw	1,00	0,00	0,00	1,00	0,00	0,00	0,00	0,00	0,00
Waste	0,00	0,00	0,00	0,50	0,00	0,00	0,00	0,00	0,00
Biogas	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Refinery gas	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

Table 3 Share dependent on degree days (a)	Agriculture and Forestry	Horti-cultur e	Fishing	Manu-facturin g	Con-struction	Whole-sale	Retail	Private service	Public service
Gas works gas	0,50	0,50	0,00	0,50	0,50	0,50	0,50	0,50	0,50
District heating	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Coal	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Brown coal	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Cokes and foundry furnace cokes	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Petroleum	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Gas oil	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Fuel oil	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
LPG	0,50	0,50	0,00	0,50	0,50	0,50	0,50	0,50	0,50
Electricity	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Crude oil cokes	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Orimulsion	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Natural gas	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Wood and waste wood	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Straw	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Waste	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Biogas	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65
Refinery gas	0,50	0,90	0,00	0,50	0,50	0,65	0,65	0,65	0,65

Table 4 **Single-family houses and multi-storey buildings**	Share for heating (r)	Share dependent on heating (a)
LPG	**	0,65
Petroleum	1,00	0,65
Gas/diesel oil	1,00	0,65
Fuel oil	1,00	0,65
Petroleum coke	1,00	0,65
Natural gas	1,00	0,65
Other coal	1,00	0,65
Cokes	1,00	0,65
Brown coal	1,00	0,65
Solar heating	1,00	0,00
Straw	1,00	0,65
Wood	1,00	0,65
Wood chips	1,00	0,65
Wood pellets	1,00	0,65
Biogas	1,00	0,65
Heat pumps	1,00	0,00
Electricity	**	0,65
District heating	1,00	0,65
Town gas	**	0,65

** Varies each year, cf. Table 5.

Table 5 **Share for heating (r)**				
	Single-family houses		Multi-storey buildings	
Year	Electricity	LPG and town gas	Electricity	LPG and town gas
1990	0,28	0,76	0,14	0,71
1991	0,29	0,76	0,15	0,71
1992	0,28	0,76	0,14	0,71
1993	0,29	0,76	0,15	0,71
1994	0,28	0,76	0,14	0,71
1995	0,28	0,76	0,14	0,71
1996	0,29	0,76	0,14	0,71
1997	0,26	0,76	0,13	0,71
1998	0,26	0,76	0,12	0,71
1999	0,25	0.76	0,12	0,71
2000	0,23	0,76	0,11	0,71