

Technical report No 19

Annual European Community Greenhouse Gas Inventory 1990-1996

Submission to the Secretariat of the UNFCCC

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European Environment Agency



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1. Introduction

This greenhouse gas inventory is submitted to the Secretariat of the United Nations Framework Convention on Climate Change by the European Community as a Party to the Convention. The report provides data on emissions from sources and removals by sinks of greenhouse gases in the European Community in the period 1990 to 1996.

In recognition of the special structure of the European Community as the only regional economic integration organisation to have joined the UNFCCC as a Party according to Article 22 of the Convention, the European Community reports on greenhouse gas inventories within the area covered by its Member States, by means of this report on the (European Community or EU15) inventory as well as by means of reports on the inventories of each of the individual Member States. The fifteen EC Member States are Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

This European Community inventory was prepared on the basis of national Member States' inventory data for all of the European Community's Member States, as available to the European Commission by April 1999. It contains annual EC and Member State inventories for 1990, 1994, 1995, and 1996.

The EC inventory data for the years reported in this submission (1990, 1994, 1995, 1996) are revised and updated data and replace earlier data reported by the European Community, in particular the greenhouse gas inventory data in the *Second Communication from the European Community under the UN Framework Convention on Climate Change* (chapter 4: EC Inventory of Greenhouse Gas Emissions and Removals, and the Annex "Member States Inventories 1990-1995").

2. Method of Reporting

This EC greenhouse gas inventory for the period 1990 to 1996 was compiled according to the recommendations for inventories set out in the Revised Guidelines for the Preparation of National Communications by Parties Included in Annex I to the Convention (adopted as an Annex to Decision 9/CP.2) and the IPCC 1996 Guidelines for National Greenhouse Gas Inventories, which specify the reporting obligations resulting from Articles 4 and 12 of the UNFCCC.

The tables in this report present greenhouse gas emission data for the Member States as well as for the Community as a whole (EU15) in the format of the IPCC Table 7A - Summary Report for National Greenhouse Gas Inventories of the revised 1996 guidelines.

3. Data Basis of the European Community Inventory

The task of compiling the European Community (EU15) greenhouse gas inventory, based on the individual Member States' inventories, is fulfilled by the European Commission assisted by the European Environment Agency (EEA) and its European Topic Centre on Air Emissions (ETC/AE). The collection of the Member States greenhouse gas inventory data is organised within the framework laid down in the 1993 *Council Decision on the Monitoring Mechanism of Community CO₂ and other Greenhouse Gas Emissions* (Council Decision 93/389/EEC). The two main sources of inventory data available for the compilation of the European Community Greenhouse Gas Inventory are data reported by the Member States to the Directorate General XI of the European Commission under the Monitoring Mechanism and the Member States' national communications and annual submissions to the Secretariat of the UNFCCC.

When compiling the Member States' data into a EC inventory, the EEA and ETC/AE depend on the availability of the relevant national inventories. Where such national inventories were not or only partly available for the years 1995 and 1996 to the European Commission (and EEA) by April 1999, emissions as reported for the most recent previous year were taken as a first estimate for the missing year. This was done in order to compile the required EC inventory containing estimates for all 15 Member States in Annex A. For the reported period, the latest Member States' emission data available for the compilation of this EC inventory are as follows :

| EC Member State | Inventory data |
|---|----------------|
| Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Luxembourg, the Netherlands, Sweden, and the United Kingdom | 1996 |
| Italy and Spain | 1995 |
| Portugal | 1994 |

The European Community inventory therefore includes tables on national greenhouse gas inventories for each Member State for the years 1990, 1994, 1995 (as available), and 1996 (as available) in Annex B, as well as currently best available estimates of EU15 totals for the years 1990, 1994, 1995, and 1996.

More complete and reliable EC (EU15) inventories for the years 1995 and 1996 and, if needed revised for the base year, will be compiled when the required national inventories of all EU Member States are available to the European Commission. Subsequently, these new EC inventories will be made available by the Commission to the UNFCCC Secretariat. These inventories will take into account the results of the work in 1999 and beyond on the revision of the UNFCCC Guidelines for the preparation of national communications by Parties included in Annex 1 to the convention (including reporting guidelines for inventories) as well as the *Council Decision amending*

Decision 93/389/EEC for a Monitoring Mechanism of Community CO₂ and other Greenhouse Gas Emissions, adopted on 12 April 1999.

Annex A

IPCC Standard Data Tables for the European Community (EU15) (revised 1996 guidelines)

EU15 1990

IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES

| EU15 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|---------------|---------------|
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 3,458,405 | 286,846 | 23,074 | 1,261 | 13,350 | 50,155 | 15,034 |
| 1 Energy | 3,163,304 | - | 5,333 | 172 | 13,083 | 45,973 | 9,024 |
| A Fuel Combustion | 3,141,345 | - | 836 | 172 | 13,058 | 45,831 | 7,636 |
| 1 Energy Industries | 1,150,888 | - | 54 | 64 | 2,935 | 1,020 | 98 |
| 2 Manufacturing Industries and Construction | 636,820 | - | 64 | 36 | 1,606 | 3,487 | 145 |
| 3 Transport | 694,747 | - | 251 | 37 | 7,069 | 32,842 | 6,320 |
| 4 Other Sectors | 635,610 | - | 461 | 35 | 1,311 | 8,313 | 1,044 |
| 5 Other | 23,287 | - | 4 | 1 | 137 | 169 | 29 |
| B Fugitive Emissions from Fuels | 21,960 | - | 4,497 | 1 | 25 | 142 | 1,388 |
| 1 Solid Fuels | 4,416 | - | 2,935 | - | 2 | 59 | 14 |
| 2 Oil and Natural Gas | 17,584 | - | 1,562 | 1 | 23 | 83 | 1,375 |
| 2 Industrial Processes | 150,957 | - | 21 | 359 | 187 | 2,687 | 818 |
| A Mineral Products | 96,302 | - | 0 | - | 43 | 21 | 23 |
| B Chemical Industry | 10,568 | - | 6 | 319 | 78 | 41 | 370 |
| C Metal Production | 24,423 | - | 8 | 0 | 21 | 2,407 | 20 |
| D Other Production | 5,928 | - | - | - | 1 | 8 | 172 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 3,822 | - | - | - | 14 | 4 | 63 |
| 3 Solvent and Other Product Use | 5,479 | - | - | 9 | 0 | 2 | 4,182 |
| 4 Agriculture | - | - | 9,280 | 667 | 27 | 839 | 293 |
| A Enteric Fermentation | - | - | 6,770 | - | - | - | - |
| B Manure Management | - | - | 2,039 | 43 | - | - | 1 |
| C Rice Cultivation | - | - | 116 | 1 | - | - | - |
| D Agricultural Soils | - | - | 312 | 624 | 6 | - | 208 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | 43 | 0 | 21 | 839 | 83 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | 129,895 | 286,846 | 301 | 39 | 3 | 121 | 605 |
| A Changes in Forest and Other Woody Biomass Stocks | 84,430 | 248,362 | - | - | - | - | - |
| B Forest and Grassland Conversion | 35,310 | - | 14 | 0 | 3 | 121 | 8 |
| C Abandonment of Managed Lands | - | 1,524 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | 6,488 | 4,415 | - | - | - | - | 9 |
| E Other | 3,667 | 32,546 | 288 | 39 | - | - | 589 |
| 6 Waste | 7,344 | - | 8,139 | 12 | 50 | 533 | 113 |
| A Solid Waste Disposal on Land | 1 | - | 6,840 | - | 5 | 59 | 53 |
| B Wastewater Handling | 1,352 | - | 646 | 6 | - | - | 5 |
| C Waste Incineration | 5,891 | - | 25 | 2 | 42 | 461 | 33 |
| D Other | 100 | - | 630 | 3 | 1 | 13 | 20 |
| 7 Other | 1,327 | - | 2 | 4 | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 169,640 | - | 12 | 4 | 1,512 | 306 | 182 |
| Aviation | 60,209 | - | 5 | 1 | 251 | 188 | 65 |
| Marine | 109,430 | - | 6 | 4 | 1,260 | 120 | 117 |
| CO ₂ Emissions from Biomass | 118,014 | - | - | - | - | - | - |

Note: EU15 emissions are the sum of Member States' emissions.

The sum of the sub-categories does not always correspond to the category totals due to incomplete data delivered by Member States (in particular for category 2 "Industrial Processes").

EU15 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|---------------|---------------|
| EU15 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 3,334,835 | 320,407 | 20,886 | 1,179 | 11,939 | 42,376 | 13,373 |
| 1 Energy | 3,056,774 | - | 4,328 | 185 | 11,714 | 38,799 | 7,713 |
| A Fuel Combustion | 3,037,554 | - | 732 | 184 | 11,692 | 38,689 | 6,442 |
| 1 Energy Industries | 1,062,542 | - | 59 | 60 | 2,295 | 926 | 103 |
| 2 Manufacturing Industries and Construction | 590,954 | - | 57 | 31 | 1,431 | 3,456 | 143 |
| 3 Transport | 740,822 | - | 218 | 56 | 6,614 | 27,354 | 5,219 |
| 4 Other Sectors | 629,151 | - | 383 | 32 | 1,245 | 6,837 | 948 |
| 5 Other | 14,083 | - | 15 | 4 | 104 | 119 | 28 |
| B Fugitive Emissions from Fuels | 19,223 | - | 3,596 | 1 | 24 | 109 | 1,272 |
| 1 Solid Fuels | 213 | - | 1,938 | - | 1 | 55 | 8 |
| 2 Oil and Natural Gas | 19,009 | - | 1,658 | 1 | 23 | 56 | 1,264 |
| 2 Industrial Processes | 138,573 | - | 24 | 316 | 145 | 2,359 | 734 |
| A Mineral Products | 87,020 | - | 0 | - | 42 | 21 | 19 |
| B Chemical Industry | 8,882 | - | 6 | 274 | 33 | 23 | 345 |
| C Metal Production | 19,576 | - | 7 | 0 | 18 | 2,052 | 17 |
| D Other Production | 6,540 | - | - | - | 1 | 8 | 173 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 3,048 | - | - | - | 6 | 43 | 26 |
| 3 Solvent and Other Product Use | 5,123 | - | 0 | 9 | 0 | 2 | 3,931 |
| 4 Agriculture | - | - | 8,876 | 613 | 18 | 508 | 225 |
| A Enteric Fermentation | - | - | 6,415 | 8 | - | - | - |
| B Manure Management | - | - | 1,969 | 39 | - | - | 1 |
| C Rice Cultivation | - | - | 164 | 1 | - | - | - |
| D Agricultural Soils | - | - | 302 | 565 | 6 | - | 185 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | 27 | 0 | 11 | 508 | 39 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | 126,027 | 320,407 | 311 | 41 | 2 | 76 | 643 |
| A Changes in Forest and Other Woody Biomass Stocks | 82,957 | 274,892 | - | - | - | - | - |
| B Forest and Grassland Conversion | 33,088 | - | 9 | 0 | 2 | 76 | 3 |
| C Abandonment of Managed Lands | - | 7,360 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | 6,315 | 5,611 | - | 1 | - | - | 9 |
| E Other | 3,667 | 32,546 | 302 | 40 | - | - | 631 |
| 6 Waste | 7,530 | - | 7,345 | 12 | 59 | 631 | 129 |
| A Solid Waste Disposal on Land | 1 | - | 6,533 | - | 6 | 64 | 61 |
| B Wastewater Handling | 1,412 | - | 683 | 10 | - | - | 6 |
| C Waste Incineration | 6,117 | - | 31 | 3 | 49 | 553 | 38 |
| D Other | - | - | 98 | 0 | 4 | 15 | 24 |
| 7 Other | 809 | - | 2 | 4 | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 185,027 | - | 1,858 | 7 | 1,571 | 382 | 191 |
| Aviation | 73,464 | - | 1,856 | 3 | 313 | 254 | 80 |
| Marine | 111,198 | - | 4 | 4 | 1,259 | 128 | 111 |
| CO ₂ Emissions from Biomass | 102,792 | - | - | - | - | - | - |

Note: EU15 emissions are the sum of Member States' emissions.

The sum of the sub-categories does not always correspond to the category totals due to incomplete data delivered by Member States (in particular for category 2 "Industrial Processes").

EU15 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|---------------|---------------|
| EU15 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 3,376,579 | 312,576 | 20,663 | 1,189 | 11,692 | 41,335 | 12,932 |
| 1 Energy | 3,093,619 | - | 4,346 | 193 | 11,469 | 37,796 | 7,369 |
| A Fuel Combustion | 3,074,410 | - | 742 | 192 | 11,444 | 37,689 | 6,202 |
| 1 Energy Industries | 589,548 | - | 64 | 65 | 2,237 | 920 | 105 |
| 2 Manufacturing Industries and Construction | 1,078,063 | - | 59 | 33 | 1,468 | 3,491 | 143 |
| 3 Transport | 751,550 | - | 219 | 59 | 6,384 | 26,321 | 5,001 |
| 4 Other Sectors | 640,660 | - | 397 | 34 | 1,262 | 6,852 | 940 |
| 5 Other | 14,599 | - | 3 | 1 | 95 | 105 | 14 |
| B Fugitive Emissions from Fuels | 19,211 | - | 3,603 | 1 | 24 | 107 | 1,167 |
| 1 Solid Fuels | 3,690 | - | 1,991 | - | 2 | 61 | 9 |
| 2 Oil and Natural Gas | 15,560 | - | 1,612 | 1 | 23 | 46 | 1,158 |
| 2 Industrial Processes | 139,752 | - | 22 | 314 | 147 | 2,374 | 721 |
| A Mineral Products | 92,239 | - | 0 | - | 43 | 21 | 18 |
| B Chemical Industry | 9,325 | - | 6 | 273 | 31 | 25 | 339 |
| C Metal Production | 20,762 | - | 6 | 0 | 19 | 2,092 | 17 |
| D Other Production | 1,087 | - | - | - | 1 | 1 | 175 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 2,828 | - | - | - | 8 | 45 | 28 |
| 3 Solvent and Other Product Use | 5,164 | - | - | 9 | 0 | 2 | 3,859 |
| 4 Agriculture | - | - | 8,774 | 614 | 17 | 457 | 221 |
| A Enteric Fermentation | - | - | 6,228 | - | - | - | - |
| B Manure Management | - | - | 2,102 | 38 | - | - | 1 |
| C Rice Cultivation | - | - | 119 | 0 | - | - | - |
| D Agricultural Soils | - | - | 302 | 576 | 6 | - | 184 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | 24 | 0 | 10 | 457 | 36 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | 129,212 | 312,576 | 305 | 42 | 3 | 87 | 627 |
| A Changes in Forest and Other Woody Biomass Stocks | 85,879 | 268,698 | - | - | - | - | - |
| B Forest and Grassland Conversion | 33,045 | - | 10 | 0 | 3 | 87 | 4 |
| C Abandonment of Managed Lands | - | 8,081 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | 6,621 | 5,309 | 1 | 0 | - | - | 9 |
| E Other | 3,667 | 30,489 | 294 | 42 | - | - | 614 |
| 6 Waste | 7,797 | - | 7,215 | 12 | 57 | 618 | 132 |
| A Solid Waste Disposal on Land | 4 | - | 6,411 | - | 6 | 64 | 61 |
| B Wastewater Handling | 1,556 | - | 678 | 10 | - | - | 6 |
| C Waste Incineration | 6,235 | - | 31 | 3 | 49 | 540 | 38 |
| D Other | 2 | - | 95 | 0 | 2 | 15 | 29 |
| 7 Other | 1,032 | - | 2 | 4 | - | - | 1 |
| Memo Items: | | | | | | | |
| International Bunkers | 190,117 | - | 1,983 | 9 | 1,626 | 393 | 197 |
| Aviation | 77,184 | - | 1,856 | 3 | 337 | 263 | 85 |
| Marine | 112,932 | - | 4 | 3 | 1,288 | 129 | 113 |
| CO ₂ Emissions from Biomass | 107,504 | - | - | - | - | - | - |

Note: EU15 emissions are the sum of Member States' emissions. 1994 data used for Portugal.

The sum of the sub-categories does not always correspond to the category totals due to incomplete data delivered by Member States (in particular for category 2 "Industrial Processes").

EU15 1996

IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES

| EU15 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|---------------|---------------|
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 3,466,381 | 319,451 | 20,170 | 1,227 | 11,120 | 39,742 | 12,222 |
| 1 Energy | 3,186,521 | - | 4,234 | 200 | 10,904 | 36,247 | 6,978 |
| A Fuel Combustion | 3,166,545 | - | 769 | 199 | 10,880 | 36,141 | 5,830 |
| 1 Energy Industries | 1,104,689 | - | 69 | 67 | 2,173 | 857 | 108 |
| 2 Manufacturing Industries and Construction | 586,374 | - | 58 | 32 | 1,403 | 3,429 | 144 |
| 3 Transport | 759,677 | - | 215 | 66 | 5,929 | 24,725 | 4,616 |
| 4 Other Sectors | 700,609 | - | 423 | 33 | 1,298 | 7,044 | 949 |
| 5 Other | 15,294 | - | 3 | 2 | 75 | 85 | 15 |
| B Fugitive Emissions from Fuels | 19,978 | - | 3,465 | 1 | 24 | 106 | 1,148 |
| 1 Solid Fuels | 3,555 | - | 1,818 | - | 1 | 60 | 9 |
| 2 Oil and Natural Gas | 16,443 | - | 1,648 | 1 | 23 | 45 | 1,138 |
| 2 Industrial Processes | 137,622 | - | 21 | 325 | 140 | 2,332 | 689 |
| A Mineral Products | 94,000 | - | 0 | - | 43 | 22 | 17 |
| B Chemical Industry | 9,482 | - | 6 | 287 | 33 | 25 | 329 |
| C Metal Production | 20,590 | - | 6 | 0 | 23 | 2,114 | 18 |
| D Other Production | 1,139 | - | - | - | 1 | 1 | 212 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 4,672 | - | - | - | 19 | 42 | 26 |
| 3 Solvent and Other Product Use | 5,007 | - | - | 9 | 0 | 2 | 3,699 |
| 4 Agriculture | - | - | 8,752 | 634 | 17 | 457 | 168 |
| A Enteric Fermentation | - | - | 6,207 | - | - | - | - |
| B Manure Management | - | - | 2,100 | 41 | - | - | 1 |
| C Rice Cultivation | - | - | 119 | 0 | - | - | - |
| D Agricultural Soils | - | - | 302 | 593 | 6 | - | 123 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | 24 | 0 | 10 | 457 | 36 |
| G Other | - | - | - | - | - | - | 9 |
| 5 Land-Use Change & Forestry | 128,509 | 319,451 | 305 | 43 | 3 | 87 | 557 |
| A Changes in Forest and Other Woody Biomass Stocks | 85,251 | 275,677 | - | 1 | - | - | - |
| B Forest and Grassland Conversion | 32,730 | - | 10 | 0 | 3 | 87 | 4 |
| C Abandonment of Managed Lands | - | 7,886 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | 6,861 | 5,399 | - | 0 | - | - | - |
| E Other | 3,667 | 30,489 | 296 | 42 | - | - | 553 |
| 6 Waste | 7,629 | - | 6,856 | 12 | 55 | 617 | 130 |
| A Solid Waste Disposal on Land | 1 | - | 6,052 | - | 6 | 64 | 60 |
| B Wastewater Handling | 1,440 | - | 678 | 10 | - | - | 6 |
| C Waste Incineration | 6,188 | - | 30 | 3 | 47 | 539 | 37 |
| D Other | - | - | 96 | 0 | 2 | 15 | 27 |
| 7 Other | 1,032 | - | 2 | 4 | - | - | 1 |
| Memo Items: | | | | | | | |
| International Bunkers | 149,695 | - | 1,984 | 9 | 1,617 | 410 | 200 |
| Aviation | 116,929 | - | 1,856 | 3 | 341 | 265 | 86 |
| Marine | 86,765 | - | 5 | 4 | 1,260 | 119 | 110 |
| CO ₂ Emissions from Biomass | 170,663 | - | - | - | - | - | - |

Note: EU15 emissions are the sum of Member States' emissions. 1994 data used for Portugal. 1995 data used for Italy and Spain

The sum of the sub-categories does not always correspond to the category totals due to incomplete data delivered by Member States (in particular for category 2 "Industrial Processes").

Annex B

IPCC Standard Data Tables for EC Member States (revised 1996 guidelines)

Austria 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Austria 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 62,042 | 13,300 | 459.8 | 6.5 | 194.0 | 1,285.8 | 350.4 |
| 1 Energy | 48,759 | - | 24.4 | 1.9 | 169.7 | 1,009.3 | 157.6 |
| A Fuel Combustion | 46,620 | - | 20.2 | 1.9 | 165.4 | 1,004.6 | 148.8 |
| 1 Energy Industries | 12,363 | - | 0.2 | 0.1 | 14.8 | 0.9 | 0.4 |
| 2 Manufacturing Industries and Construction | 7,432 | - | 0.5 | 0.1 | 19.7 | 6.7 | 1.2 |
| 3 Transport | 13,569 | - | 3.3 | 1.0 | 98.6 | 484.3 | 96.2 |
| 4 Other Sectors | 13,256 | - | 16.2 | 0.6 | 32.4 | 512.6 | 51.0 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 2,139 | - | 4.3 | 0.0 | 4.3 | 4.7 | 8.8 |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 2,139 | - | 4.3 | 0.0 | 4.3 | 4.7 | 8.8 |
| 2 Industrial Processes | 12,703 | - | 0.1 | 0.6 | 17.9 | 270.6 | 16.1 |
| A Mineral Products | 3,370 | - | 0.0 | 0.0 | 7.6 | 20.6 | 5.5 |
| B Chemical Industry | 423 | - | 0.1 | 0.6 | 4.1 | 12.5 | 8.3 |
| C Metal Production | 8,852 | - | 0.0 | 0.0 | 5.2 | 236.7 | 0.6 |
| D Other Production | 58 | - | 0.0 | 0.0 | 1.0 | 0.7 | 1.8 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 541 | - | 0.0 | 0.8 | 0.0 | 0.0 | 173.7 |
| 4 Agriculture | 0 | - | 208.1 | 3.3 | 6.2 | 1.5 | 2.4 |
| A Enteric Fermentation | 0 | - | 146.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 26.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 35.5 | 3.3 | 6.2 | 0.0 | 2.2 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.1 | 0.0 | 0.0 | 1.5 | 0.2 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | - | 13,300 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | - | 13,300 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 38 | - | 227.2 | 0.0 | 0.2 | 4.4 | 0.6 |
| A Solid Waste Disposal on Land | 0 | - | 193.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 13.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 38 | - | 0.2 | 0.0 | 0.2 | 4.4 | 0.6 |
| D Other | 0 | - | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 930 | - | 0.0 | 0.0 | 4.9 | 1.6 | 0.6 |
| Aviation | 930 | - | 0.0 | 0.0 | 4.9 | 1.6 | 0.6 |
| Marine | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ₂ Emissions from Biomass | 13,384 | - | - | - | - | - | - |

Ref.: "Austria's Annual National Greenhouse Gas Inventory 1980 - 1997, Submission to the Secretariat of the UNFCCC", prepared by the Austrian Federal Environment Agency for the Federal Ministry for the Environment, Youth and Family Affairs, Vienna, April 1999.

Austria 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Austria 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 61,068 | 14,726 | 451.1 | 7.3 | 183.2 | 1,129.8 | 273.5 |
| 1 Energy | 49,347 | - | 20.9 | 2.7 | 159.4 | 814.1 | 117.6 |
| A Fuel Combustion | 46,937 | - | 16.1 | 2.7 | 156.0 | 813.6 | 110.5 |
| 1 Energy Industries | 9,395 | - | 0.1 | 0.1 | 7.2 | 0.7 | 0.2 |
| 2 Manufacturing Industries and Construction | 6,661 | - | 0.3 | 0.2 | 14.3 | 4.3 | 0.5 |
| 3 Transport | 16,127 | - | 2.7 | 1.8 | 101.6 | 371.9 | 68.5 |
| 4 Other Sectors | 14,753 | - | 13.1 | 0.6 | 33.0 | 436.6 | 41.3 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 2,410 | - | 4.8 | 0.0 | 3.4 | 0.5 | 7.2 |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 2,410 | - | 4.8 | 0.0 | 3.4 | 0.5 | 7.2 |
| 2 Industrial Processes | 11,196 | - | 0.1 | 0.6 | 17.4 | 309.7 | 21.0 |
| A Mineral Products | 3,415 | - | 0.0 | 0.0 | 7.5 | 21.3 | 6.4 |
| B Chemical Industry | 405 | - | 0.1 | 0.6 | 4.4 | 11.1 | 12.3 |
| C Metal Production | 7,325 | - | 0.0 | 0.0 | 4.4 | 276.6 | 0.5 |
| D Other Production | 51 | - | 0.0 | 0.0 | 1.1 | 0.7 | 1.7 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 411 | - | 0.0 | 0.8 | 0.0 | 0.0 | 131.8 |
| 4 Agriculture | 0 | - | 208.7 | 3.3 | 6.1 | 1.5 | 2.4 |
| A Enteric Fermentation | 0 | - | 145.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 27.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 35.3 | 3.3 | 6.1 | 0.0 | 2.2 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.1 | 0.0 | 0.0 | 1.5 | 0.2 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | - | 14,726 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | - | 14,726 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 114 | - | 221.3 | 0.0 | 0.2 | 4.5 | 0.7 |
| A Solid Waste Disposal on Land | 0 | - | 186.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 114 | - | 0.2 | 0.0 | 0.2 | 4.5 | 0.7 |
| D Other | 0 | - | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 1,187 | - | 0.0 | 0.0 | 6.3 | 2.0 | 0.8 |
| Aviation | 1,187 | - | 0.0 | 0.0 | 6.3 | 2.0 | 0.8 |
| Marine | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ₂ Emissions from Biomass | 13,408 | - | - | - | - | - | - |

Ref.: "Austria's Annual National Greenhouse Gas Inventory 1980 - 1997, Submission to the Secretariat of the UNFCCC", prepared by the Austrian Federal Environment Agency for the Federal Ministry for the Environment, Youth and Family Affairs, Vienna, April 1999.

Austria 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Austria 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 62,427 | 13,576 | 450.4 | 7.3 | 169.6 | 1,012.8 | 269.3 |
| 1 Energy | 51,117 | - | 22.4 | 2.7 | 147.0 | 768.4 | 112.5 |
| A Fuel Combustion | 48,765 | - | 17.2 | 2.7 | 143.6 | 767.8 | 106.1 |
| 1 Energy Industries | 10,935 | - | 0.1 | 0.1 | 6.8 | 0.9 | 0.2 |
| 2 Manufacturing Industries and Construction | 8,210 | - | 0.3 | 0.2 | 16.5 | 5.4 | 0.6 |
| 3 Transport | 15,431 | - | 2.5 | 1.8 | 89.3 | 342.4 | 60.6 |
| 4 Other Sectors | 14,190 | - | 14.3 | 0.6 | 31.1 | 419.2 | 44.8 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 2,352 | - | 5.2 | 0.0 | 3.4 | 0.6 | 6.4 |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 2,352 | - | 5.2 | 0.0 | 3.4 | 0.6 | 6.4 |
| 2 Industrial Processes | 10,780 | - | 0.1 | 0.5 | 16.3 | 238.5 | 21.0 |
| A Mineral Products | 2,730 | - | 0.0 | 0.0 | 6.2 | 18.5 | 6.3 |
| B Chemical Industry | 430 | - | 0.1 | 0.5 | 4.4 | 11.1 | 12.3 |
| C Metal Production | 7,571 | - | 0.0 | 0.0 | 4.6 | 208.1 | 0.5 |
| D Other Production | 50 | - | 0.0 | 0.0 | 1.1 | 0.8 | 1.8 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 414 | - | 0.0 | 0.8 | 0.0 | 0.0 | 132.8 |
| 4 Agriculture | 0 | - | 208.1 | 3.3 | 6.1 | 1.5 | 2.3 |
| A Enteric Fermentation | 0 | - | 145.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 27.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 34.9 | 3.3 | 6.1 | 0.0 | 2.2 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.1 | 0.0 | 0.0 | 1.5 | 0.2 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | - | 13,576 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | - | 13,576 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 117 | - | 219.8 | 0.0 | 0.2 | 4.4 | 0.7 |
| A Solid Waste Disposal on Land | 0 | - | 185.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 117 | - | 0.2 | 0.0 | 0.2 | 4.4 | 0.7 |
| D Other | 0 | - | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 1,316 | - | 0.0 | 0.0 | 7.0 | 2.3 | 0.9 |
| Aviation | 1,316 | - | 0.0 | 0.0 | 7.0 | 2.3 | 0.9 |
| Marine | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ₂ Emissions from Biomass | 14,685 | - | - | - | - | - | - |

Ref.: "Austria's Annual National Greenhouse Gas Inventory 1980 - 1997, Submission to the Secretariat of the UNFCCC", prepared by the Austrian Federal Environment Agency for the Federal Ministry for the Environment, Youth and Family Affairs, Vienna, April 1999.

Austria 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Austria 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 64,026 | 13,753 | 446.6 | 7.3 | 161.3 | 1,019.8 | 260.2 |
| 1 Energy | 52,553 | - | 22.3 | 2.7 | 139.2 | 750.4 | 102.4 |
| A Fuel Combustion | 49,868 | - | 16.7 | 2.7 | 135.7 | 749.9 | 96.9 |
| 1 Energy Industries | 12,179 | - | 0.1 | 0.1 | 9.8 | 1.2 | 0.2 |
| 2 Manufacturing Industries and Construction | 7,755 | - | 0.3 | 0.2 | 15.0 | 5.5 | 0.5 |
| 3 Transport | 15,357 | - | 2.2 | 1.8 | 86.2 | 306.8 | 53.4 |
| 4 Other Sectors | 14,577 | - | 14.1 | 0.6 | 24.6 | 436.4 | 42.8 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 2,685 | - | 5.6 | 0.0 | 3.5 | 0.4 | 5.5 |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 2,685 | - | 5.6 | 0.0 | 3.5 | 0.4 | 5.5 |
| 2 Industrial Processes | 10,938 | - | 0.1 | 0.5 | 15.9 | 263.6 | 21.0 |
| A Mineral Products | 2,727 | - | 0.0 | 0.0 | 6.0 | 19.1 | 6.3 |
| B Chemical Industry | 430 | - | 0.1 | 0.5 | 4.4 | 11.1 | 12.3 |
| C Metal Production | 7,732 | - | 0.0 | 0.0 | 4.4 | 232.6 | 0.5 |
| D Other Production | 50 | - | 0.0 | 0.0 | 1.1 | 0.8 | 1.8 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 417 | - | 0.0 | 0.8 | 0.0 | 0.0 | 133.7 |
| 4 Agriculture | 0 | - | 206.0 | 3.3 | 6.1 | 1.5 | 2.3 |
| A Enteric Fermentation | 0 | - | 144.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 26.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 34.9 | 3.3 | 6.1 | 0.0 | 2.2 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.1 | 0.0 | 0.0 | 1.5 | 0.2 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | - | 13,753 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | - | 13,753 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 119 | - | 218.2 | 0.0 | 0.2 | 4.4 | 0.7 |
| A Solid Waste Disposal on Land | 0 | - | 183.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 119 | - | 0.2 | 0.0 | 0.2 | 4.4 | 0.7 |
| D Other | 0 | - | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 1,453 | - | 0.0 | 0.0 | 7.7 | 2.5 | 1.0 |
| Aviation | 1,453 | - | 0.0 | 0.0 | 7.7 | 2.5 | 1.0 |
| Marine | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ₂ Emissions from Biomass | 15,542 | - | - | - | - | - | - |

Ref.: "Austria's Annual National Greenhouse Gas Inventory 1980 - 1997, Submission to the Secretariat of the UNFCCC", prepared by the Austrian Federal Environment Agency for the Federal Ministry for the Environment, Youth and Family Affairs, Vienna, April 1999.

HFC/PFC/SF₆ emissions in Austria 1990, 1994-96

| Austria 1990 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|---|-----|---|-----------------|---|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | - | - | - | - | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Austria 1994 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|---|-----|---|-----------------|---|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | - | - | - | - | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Austria 1995 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|-------|-----|-------|-----------------|-------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.421 | - | 0.002 | - | 0.035 |
| 2 Industrial Processes | - | 0.421 | - | 0.002 | - | 0.035 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | 0.011 |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 0.421 | - | 0.002 | - | 0.024 |
| G Other | - | - | - | - | - | - |

| Austria 1996 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|---|-----|---|-----------------|---|
| | P | A | P | - | P | A |
| Total National Emissions and Removals | - | - | - | - | - | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

Ref.: "Austria's Annual National Greenhouse Gas Inventory 1980 - 1997, Submission to the Secretariat of the UNFCCC", prepared by the Austrian Federal Environment Agency for the Federal Ministry for the Environment, Youth and Family Affairs, Vienna, April 1999.

Belgium 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Belgium 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 116,090 | 2,057 | 634.0 | 30.8 | 339.0 | 1,127.0 | 331.0 |
| 1 Energy | 105,919 | - | 68.5 | 8.3 | 330.0 | 1,094.0 | 204.0 |
| A Fuel Combustion | 105,919 | - | 15.5 | 7.7 | 330.0 | 1,094.0 | 178.0 |
| 1 Energy Industries | 28,140 | - | 0.3 | 2.1 | 72.0 | 16.0 | 1.0 |
| 2 Manufacturing Industries and Construction | 31,027 | - | 1.4 | 1.9 | 49.0 | 11.0 | 3.0 |
| 3 Transport | 19,964 | - | 9.3 | 0.9 | 194.0 | 974.0 | 166.0 |
| 4 Other Sectors | 26,262 | - | 4.4 | 2.8 | 15.0 | 93.0 | 7.0 |
| 5 Other | 526 | - | - | - | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | - | - | 53.1 | 0.6 | - | - | 26.0 |
| 1 Solid Fuels | - | - | 14.5 | - | - | - | - |
| 2 Oil and Natural Gas | - | - | 38.6 | 0.6 | - | - | 26.0 |
| 2 Industrial Processes | 9,188 | - | 3.5 | 11.5 | 6.0 | 17.0 | 37.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | 696 | - | - | 11.5 | 4.0 | 9.0 | 31.0 |
| C Metal Production | 1,718 | - | 3.5 | - | - | - | 4.0 |
| D Other Production | 4,810 | - | - | - | - | 7.0 | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 1,963 | - | - | - | 2.0 | - | 1.0 |
| 3 Solvent and Other Product Use | - | - | - | - | - | - | 90.0 |
| 4 Agriculture | - | - | 388.0 | 10.9 | - | - | 1.0 |
| A Enteric Fermentation | - | - | 373.5 | - | - | - | - |
| B Manure Management | - | - | - | - | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | 14.5 | 10.9 | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 2,057 | - | - | - | - | - |
| 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 | - | 2,057 | - | - | - | - | - |
| 6 Waste | 983 | - | 174.0 | 0.1 | 3.0 | 16.0 | 0.0 |
| A Solid Waste Disposal on Land | - | - | 172.9 | - | - | - | - |
| B Wastewater Handling | - | - | - | - | - | - | - |
| C Waste Incineration | 983 | - | 1.1 | 0.1 | 3.0 | 16.0 | 0.0 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 15,726 | - | - | - | - | - | - |
| Aviation | 2,370 | - | - | - | - | - | - |
| Marine | 13,356 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: *Inventory of greenhouse gas emissions in Belgium 1990-1995/1996*, Report to the Conference of the Parties to the Convention on Climate Change (UNFCCC), Ministry of Social Affairs, Public Health and the Environment, Brussels, June 1998.

Belgium 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Belgium 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 121,297 | 2,057 | 635.3 | 32.3 | 345.0 | 1,252.0 | 321.0 |
| 1 Energy | 109,748 | - | 58.7 | 9.0 | 337.0 | 1,183.0 | 201.0 |
| A Fuel Combustion | 109,748 | - | 14.0 | 8.4 | 337.0 | 1,183.0 | 173.0 |
| 1 Energy Industries | 28,953 | - | 0.3 | 2.5 | 72.0 | 27.0 | 1.0 |
| 2 Manufacturing Industries and Construction | 29,236 | - | 0.7 | 1.8 | 59.0 | 173.0 | 4.0 |
| 3 Transport | 21,877 | - | 8.6 | 1.2 | 190.0 | 884.0 | 160.0 |
| 4 Other Sectors | 29,373 | - | 4.4 | 2.9 | 15.0 | 99.0 | 8.0 |
| 5 Other | 309 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | - | - | 44.7 | 0.6 | - | - | 29.0 |
| 1 Solid Fuels | - | - | - | - | - | - | - |
| 2 Oil and Natural Gas | - | - | 44.7 | 0.6 | - | - | 29.0 |
| 2 Industrial Processes | 10,456 | - | 3.2 | 12.3 | 5.0 | 50.0 | 35.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | 626 | - | - | 12.3 | 1.0 | - | 30.0 |
| C Metal Production | 1,617 | - | 3.2 | - | - | - | 3.0 |
| D Other Production | 5,473 | - | - | - | - | 7.0 | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 2,741 | - | - | - | 4.0 | 43.0 | 1.0 |
| 3 Solvent and Other Product Use | - | - | - | - | - | - | 84.0 |
| 4 Agriculture | - | - | 389.2 | 10.8 | - | - | 1.0 |
| A Enteric Fermentation | - | - | 374.7 | 0.0 | - | - | - |
| B Manure Management | - | - | - | - | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | 14.4 | 10.8 | - | - | 1.0 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 2,057 | - | - | - | - | - |
| 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 | - | 2,057 | - | - | - | - | - |
| 6 Waste | 1,093 | - | 184.2 | 0.1 | 3.0 | 19.0 | 0.0 |
| A Solid Waste Disposal on Land | - | - | 183.5 | - | - | - | - |
| B Wastewater Handling | - | - | - | - | - | - | - |
| C Waste Incineration | 1,093 | - | 0.7 | 0.1 | 3.0 | 19.0 | 0.0 |
| D Other | - | - | - | 0.0 | - | - | 0.0 |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 16,021 | - | - | - | - | - | - |
| Aviation | 2,300 | - | - | - | - | - | - |
| Marine | 13,721 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: *Inventory of greenhouse gas emissions in Belgium 1990-1995/1996, Report to the Conference of the Parties to the Convention on Climate Change (UNFCCC)*, Ministry of Social Affairs, Public Health and the Environment, Brussels, June 1998.

Belgium 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|--------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Belgium 1995 | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Greenhouse Gas Source and Sink Categories | | | | | | | |
| Total National Emissions and Removals | 121,832 | 2,057 | 593.9 | 34.9 | 333.3 | 1,424.4 | 300.5 |
| 1 Energy | 109,936 | - | 48.6 | 8.6 | 321.9 | 1,289.8 | 185.9 |
| A Fuel Combustion | 109,936 | - | 15.0 | 8.0 | 320.9 | 1,287.8 | 156.1 |
| 1 Energy Industries | 29,142 | - | 0.2 | 2.2 | 62.1 | 24.4 | 0.9 |
| 2 Manufacturing Industries and Construction | 27,908 | - | 0.9 | 1.9 | 66.3 | 343.8 | 2.2 |
| 3 Transport | 21,834 | - | 9.6 | 1.1 | 176.7 | 835.4 | 145.4 |
| 4 Other Sectors | 30,831 | - | 4.3 | 2.8 | 15.8 | 84.2 | 7.5 |
| 5 Other | 221 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | - | - | 33.6 | 0.6 | 1.0 | 2.0 | 29.8 |
| 1 Solid Fuels | - | - | 0.8 | - | 1.0 | 2.0 | 1.0 |
| 2 Oil and Natural Gas | - | - | 32.8 | 0.6 | - | - | 28.8 |
| 2 Industrial Processes | 10,706 | - | 2.1 | 13.8 | 7.9 | 126.9 | 33.1 |
| A Mineral Products | 5,923 | - | - | - | - | 2.6 | - |
| B Chemical Industry | 669 | - | - | 13.8 | 1.6 | 0.5 | 28.6 |
| C Metal Production | 1,604 | - | 2.1 | - | 0.4 | 79.2 | 1.6 |
| D Other Production | - | - | - | - | - | - | 0.5 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 2,510 | - | - | - | 5.9 | 44.7 | 2.4 |
| 3 Solvent and Other Product Use | - | - | - | 0.2 | - | - | 80.5 |
| 4 Agriculture | - | - | 357.3 | 9.8 | - | - | 0.8 |
| A Enteric Fermentation | - | - | 212.3 | - | - | - | - |
| B Manure Management | - | - | 130.6 | 0.5 | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | 14.4 | 9.4 | - | - | 0.8 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 2,057 | - | 2.5 | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 2,057 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | 0.0 | - | - | - |
| E Other | - | - | - | 2.5 | - | - | - |
| 6 Waste | 1,190 | - | 185.8 | 0.1 | 3.4 | 7.7 | 0.1 |
| A Solid Waste Disposal on Land | - | - | 184.1 | - | - | - | - |
| B Wastewater Handling | - | - | - | - | - | - | - |
| C Waste Incineration | 1,190 | - | 0.3 | 0.1 | 3.4 | 7.7 | 0.1 |
| D Other | - | - | 1.4 | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 15,556 | - | - | - | 1.2 | 2.5 | 0.7 |
| Aviation | 2,601 | - | - | - | 1.2 | 2.5 | 0.7 |
| Marine | 12,955 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: *Inventory of greenhouse gas emissions in Belgium 1990-1995/1996, Report to the Conference of the Parties to the Convention on Climate Change (UNFCCC)*, Ministry of Social Affairs, Public Health and the Environment, Brussels, June 1998.

Belgium 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Belgium 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 128,547 | 2,057 | 590.6 | 35.2 | 328.0 | 1,415.2 | 301.0 |
| 1 Energy | 116,069 | - | 48.4 | 8.6 | 318.3 | 1,283.2 | 186.6 |
| A Fuel Combustion | 116,069 | - | 14.8 | 7.9 | 317.3 | 1,281.2 | 154.3 |
| 1 Energy Industries | 29,195 | - | 0.2 | 2.1 | 61.1 | 28.4 | 0.9 |
| 2 Manufacturing Industries and Construction | 28,681 | - | 0.9 | 1.9 | 63.2 | 343.6 | 2.2 |
| 3 Transport | 22,389 | - | 9.3 | 1.1 | 175.9 | 816.1 | 143.0 |
| 4 Other Sectors | 35,548 | - | 4.3 | 2.7 | 17.1 | 93.1 | 8.2 |
| 5 Other | 256 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | - | - | 33.6 | 0.7 | 1.0 | 2.0 | 32.2 |
| 1 Solid Fuels | - | - | 0.8 | - | 1.0 | 2.0 | 1.0 |
| 2 Oil and Natural Gas | - | - | 32.8 | 0.7 | - | - | 31.2 |
| 2 Industrial Processes | 11,287 | - | 2.1 | 14.0 | 6.3 | 124.6 | 33.1 |
| A Mineral Products | 5,923 | - | - | - | - | 2.6 | - |
| B Chemical Industry | 669 | - | - | 14.0 | 1.6 | 0.5 | 28.6 |
| C Metal Production | 1,612 | - | 2.1 | - | 0.4 | 79.2 | 1.5 |
| D Other Production | - | - | - | - | - | - | 2.9 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 3,083 | - | - | - | 4.2 | 42.4 | - |
| 3 Solvent and Other Product Use | - | - | - | 0.2 | - | - | 80.4 |
| 4 Agriculture | - | - | 354.4 | 9.8 | - | - | 0.8 |
| A Enteric Fermentation | - | - | 209.6 | - | - | - | - |
| B Manure Management | - | - | 130.4 | 0.5 | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | 14.4 | 9.4 | - | - | 0.8 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 2,057 | - | 2.5 | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 2,057 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | 0.0 | - | - | - |
| E Other | - | - | - | 2.5 | - | - | - |
| 6 Waste | 1,190 | - | 185.8 | 0.1 | 3.4 | 7.4 | 0.1 |
| A Solid Waste Disposal on Land | - | - | 184.1 | - | - | - | - |
| B Wastewater Handling | - | - | - | - | - | - | - |
| C Waste Incineration | 1,190 | - | 0.3 | 0.1 | 3.4 | 7.4 | 0.1 |
| D Other | - | - | 1.4 | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 18,308 | - | 0.0 | 0.0 | 1.2 | 2.5 | 0.7 |
| Aviation | 2,932 | - | 0.0 | 0.0 | 1.2 | 2.5 | 0.7 |
| Marine | 15,376 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: *Inventory of greenhouse gas emissions in Belgium 1990-1995/1996, Report to the Conference of the Parties to the Convention on Climate Change (UNFCCC)*, Ministry of Social Affairs, Public Health and the Environment, Brussels, June 1998.

Denmark 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Denmark 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 52,277 | 924 | 421.0 | 34.0 | 280.0 | 785.0 | 179.0 |
| 1 Energy | 51,138 | - | 22.0 | 2.0 | 279.0 | 785.0 | 124.0 |
| A Fuel Combustion | 50,898 | - | 10.0 | 2.0 | 278.0 | 751.0 | 116.0 |
| 1 Energy Industries | 25,865 | - | 1.0 | 1.0 | 96.0 | 38.0 | 1.0 |
| 2 Manufacturing Industries and Construction | 5,776 | - | 1.0 | 0.0 | 19.0 | 9.0 | 2.0 |
| 3 Transport | 10,474 | - | 2.0 | 0.0 | 125.0 | 552.0 | 101.0 |
| 4 Other Sectors | 8,664 | - | 6.0 | 0.0 | 37.0 | 153.0 | 12.0 |
| 5 Other | 119 | - | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 240 | - | 12.0 | 0.0 | 1.0 | 34.0 | 8.0 |
| 1 Solid Fuels | - | - | 3.0 | - | - | 33.0 | - |
| 2 Oil and Natural Gas | 240 | - | 9.0 | 0.0 | 1.0 | 1.0 | 8.0 |
| 2 Industrial Processes | 1,006 | - | - | - | 1.0 | - | - |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 133 | - | - | - | - | - | 43.0 |
| 4 Agriculture | - | - | 329.0 | 33.0 | - | - | 2.0 |
| A Enteric Fermentation | - | - | 167.0 | - | - | - | - |
| B Manure Management | - | - | 161.0 | - | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | 33.0 | - | - | 2.0 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 924 | - | - | - | - | 9.0 |
| A Changes in Forest and Other Woody Biomass Stocks | - | 924 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | 9.0 |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | - | - | 71.0 | - | - | - | - |
| A Solid Waste Disposal on Land | - | - | 71.0 | - | - | - | - |
| B Wastewater Handling | - | - | - | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| Correction for electricity exchange | 6,253 | - | - | - | - | - | - |
| Correction for the impact of climate variation | 1,703 | - | - | - | - | - | - |
| International Bunkers | 4,986 | - | 0.0 | 0.0 | 85.0 | 9.0 | 3.0 |
| Aviation | 1,967 | - | - | - | IE | IE | IE |
| Marine | 3,019 | - | - | - | 85.0 | 9.0 | 3.0 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Denmark's Second National Communication on Climate Change", Ministry of Environment and Energy, Danish Environmental Protection Agency, 1997.

Note: Denmark delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Denmark 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Denmark 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 63,344 | 956 | 428.0 | 33.0 | 272.0 | 704.0 | 166.0 |
| 1 Energy | 61,899 | - | 27.0 | 3.0 | 271.0 | 704.0 | 113.0 |
| A Fuel Combustion | 61,117 | - | 10.0 | 3.0 | 269.0 | 662.0 | 97.0 |
| 1 Energy Industries | 35,213 | - | 1.0 | 1.0 | 106.0 | 48.0 | 1.0 |
| 2 Manufacturing Industries and Construction | 6,481 | - | 1.0 | 0.0 | 24.0 | 12.0 | 3.0 |
| 3 Transport | 11,345 | - | 2.0 | 1.0 | 103.0 | 422.0 | 77.0 |
| 4 Other Sectors | 8,020 | - | 6.0 | 0.0 | 35.0 | 180.0 | 15.0 |
| 5 Other | 58 | - | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 |
| B Fugitive Emissions from Fuels | 782 | - | 17.0 | 0.0 | 3.0 | 41.0 | 16.0 |
| 1 Solid Fuels | 0 | - | 6.0 | - | 0.0 | 40.0 | 0.0 |
| 2 Oil and Natural Gas | 782 | - | 11.0 | 0.0 | 3.0 | 2.0 | 16.0 |
| 2 Industrial Processes | 1,318 | - | 1.0 | - | 1.0 | 0.0 | 1.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 127 | - | - | - | - | - | 41.0 |
| 4 Agriculture | - | - | 326.0 | 30.0 | - | - | 2.0 |
| A Enteric Fermentation | - | - | 155.0 | - | - | - | - |
| B Manure Management | - | - | 171.0 | - | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | 30.0 | - | - | 2.0 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 956 | - | 1.0 | - | - | 9.0 |
| A Changes in Forest and Other Woody Biomass Stocks | - | 956 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | 1.0 | - | - | 9.0 |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | - | - | 74.0 | - | - | - | 1.0 |
| A Solid Waste Disposal on Land | - | - | 72.0 | - | - | - | - |
| B Wastewater Handling | - | - | 2.0 | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | 1.0 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| Correction for electricity exchange | -3,932 | - | - | - | - | - | - |
| Correction for the impact of climate variation | 193 | - | - | - | - | - | - |
| International Bunkers | 6,736 | - | 0.2 | 0.4 | 123.3 | 11.8 | 4.2 |
| Aviation | 1,910 | - | 0.1 | 0.0 | 7.2 | 0.5 | 0.6 |
| Marine | 4,825 | - | 0.1 | 0.3 | 116.1 | 11.3 | 3.6 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Denmark's Second National Communication on Climate Change", Ministry of Environment and Energy, Danish Environmental Protection Agency, 1997.

Note: Denmark delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Denmark 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Denmark 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 59,532 | 964 | 430.0 | 33.0 | 253.0 | 702.0 | 162.0 |
| 1 Energy | 58,096 | - | 29.0 | 3.0 | 252.0 | 702.0 | 109.0 |
| A Fuel Combustion | 57,748 | - | 11.0 | 3.0 | 250.0 | 656.0 | 93.0 |
| 1 Energy Industries | 31,482 | - | 1.0 | 1.0 | 91.0 | 49.0 | 2.0 |
| 2 Manufacturing Industries and Construction | 6,039 | - | 1.0 | 0.0 | 23.0 | 10.0 | 3.0 |
| 3 Transport | 11,370 | - | 2.0 | 1.0 | 100.0 | 389.0 | 71.0 |
| 4 Other Sectors | 8,718 | - | 7.0 | 0.0 | 35.0 | 206.0 | 17.0 |
| 5 Other | 139 | - | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 |
| B Fugitive Emissions from Fuels | 348 | - | 17.0 | 0.0 | 2.0 | 45.0 | 17.0 |
| 1 Solid Fuels | - | - | 6.0 | - | 0.0 | 44.0 | 0.0 |
| 2 Oil and Natural Gas | 348 | - | 11.0 | 0.0 | 2.0 | 1.0 | 17.0 |
| 2 Industrial Processes | 1,311 | - | 1.0 | - | 1.0 | 0.0 | 1.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 125 | - | - | - | - | - | 40.0 |
| 4 Agriculture | - | - | 327.0 | 30.0 | - | - | 2.0 |
| A Enteric Fermentation | - | - | 155.0 | - | - | - | - |
| B Manure Management | - | - | 172.0 | - | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | 30.0 | - | - | 2.0 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 964 | 1.0 | - | - | - | 9.0 |
| A Changes in Forest and Other Woody Biomass Stocks | - | 964 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | 1.0 | - | - | - | 9.0 |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | - | - | 74.0 | - | - | - | - |
| A Solid Waste Disposal on Land | - | - | 72.0 | - | - | - | - |
| B Wastewater Handling | - | - | 2.0 | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| Correction for electricity exchange | -615 | - | - | - | - | - | - |
| Correction for the impact of climate variation | 0 | - | - | - | - | - | - |
| International Bunkers | 7,080 | - | 0.0 | 0.0 | 130.0 | 13.0 | 4.0 |
| Aviation | 2,062 | - | 0.0 | 0.0 | 7.0 | 1.0 | 1.0 |
| Marine | 5,018 | - | 0.0 | 0.0 | 122.0 | 12.0 | 4.0 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Denmark's Second National Communication on Climate Change", Ministry of Environment and Energy, Danish Environmental Protection Agency, 1997.

Note: Denmark delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Denmark 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Denmark 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 73,236 | 981 | 425.2 | 33.9 | 291.2 | 615.9 | 139.4 |
| 1 Energy | 71,784 | - | 30.8 | 3.1 | 290.7 | 615.9 | 108.5 |
| A Fuel Combustion | 71,406 | - | 13.3 | 3.1 | 288.7 | 570.7 | 90.2 |
| 1 Energy Industries | 44,020 | - | 1.6 | 1.4 | 128.7 | 10.7 | 1.8 |
| 2 Manufacturing Industries and Construction | 6,312 | - | 0.7 | 0.2 | 24.8 | 12.8 | 3.2 |
| 3 Transport | 11,748 | - | 3.2 | 1.1 | 97.6 | 381.8 | 66.8 |
| 4 Other Sectors | 9,273 | - | 7.9 | 0.3 | 36.6 | 164.9 | 18.3 |
| 5 Other | 53 | - | 0.0 | 0.0 | 1.0 | 0.5 | 0.1 |
| B Fugitive Emissions from Fuels | 378 | - | 17.5 | 0.0 | 2.0 | 45.1 | 18.2 |
| 1 Solid Fuels | 0 | - | 6.3 | 0.0 | - | 43.9 | 0.0 |
| 2 Oil and Natural Gas | 378 | - | 11.2 | 0.0 | 2.0 | 1.3 | 18.2 |
| 2 Industrial Processes | 1,388 | - | 0.1 | 0.0 | 0.5 | 0.0 | 0.1 |
| A Mineral Products | 1,388 | - | 0.1 | - | - | 0.0 | 0.0 |
| B Chemical Industry | 0 | - | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| C Metal Production | 0 | - | - | - | 0.0 | 0.0 | 0.0 |
| D Other Production | - | - | - | - | 0.0 | 0.0 | 0.1 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 64 | - | - | 0.0 | - | - | 20.6 |
| 4 Agriculture | 0 | - | 321.2 | 30.2 | 0.0 | 0.0 | 10.3 |
| A Enteric Fermentation | - | - | 153.8 | - | - | - | - |
| B Manure Management | - | - | 167.3 | 0.0 | - | - | - |
| C Rice Cultivation | - | - | 0.0 | - | - | - | - |
| D Agricultural Soils | - | - | - | 30.2 | - | - | 1.3 |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - |
| F Field Burning of Agricultural Residues | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - |
| G Other | - | - | 0.0 | 0.0 | - | - | 8.9 |
| 5 Land-Use Change & Forestry | - | 981 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | - | 981 | - | 0.6 | - | - | - |
| B Forest and Grassland Conversion | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - |
| C Abandonment of Managed Lands | - | - | - | 0.0 | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | 0.0 | - | - | - |
| E Other | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - |
| 6 Waste | 0 | - | 73.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Solid Waste Disposal on Land | - | - | 71.6 | - | - | - | - |
| B Wastewater Handling | - | - | 1.6 | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | 0.0 | 0.0 | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 6,970 | - | 0.2 | 0.4 | 140.9 | 12.4 | 4.4 |
| Aviation | 2,152 | - | 0.1 | 0.1 | 9.0 | 1.1 | 0.8 |
| Marine | 4,818 | - | 0.1 | 0.3 | 131.9 | 11.2 | 3.5 |
| CO ₂ Emissions from Biomass | 0 | - | - | - | - | - | - |

Ref.: National Inventory Data on Emissions of Greenhouse Gases for Denmark 1996, Danish Submission of the UNFCCC inventory under the Monitoring Mechanism, Ministry of Environment and Energy - Danish Environmental Protection Agency, 22 June 1998

HFC/PFC/SF₆ emissions in Denmark 1990, 1994-96

| Denmark 1990 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|--------------|---|-----|---|-----------------|---|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | 0.000 | - | - | - | 0.015 | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | 0.000 | - | NE | - | 0.015 | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Denmark 1994 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|--------------|---|-----|---|-----------------|---|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | 0.600 | - | - | - | 0.021 | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | 0.600 | - | NE | - | 0.021 | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Denmark 1995 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|--------------|--------------|--------------|---------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | 0.750 | 0.197 | 0.002 | 0.0002 | 0.014 | 0.009 |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | 0.750 | - | 0.002 | - | 0.017 | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Denmark 1996 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|---------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.290 | - | 0.0004 | - | 0.006 |
| 2 Industrial Processes | - | 0.290 | - | 0.0004 | - | 0.006 |
| A Mineral Products | - | - | - | - | - | 0.004 |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | 0.0004 |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 0.290 | - | - | - | 0.001 |
| G Other | - | - | - | - | - | 0.0002 |

Ref.: "Denmark's Second National Communication on Climate Change", Ministry of Environment and Energy, Danish Environmental Protection Agency, 1997 and National Inventory Data on Emissions of Greenhouse Gases for Denmark 1996, Danish Submission of the UNFCCC inventory under the Monitoring Mechanism, Ministry of Environment and Energy - Danish Environmental Protection Agency, 22 June 1998

Finland 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Finland 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 59,300 | 30,600 | 358.1 | 18.6 | 295.0 | 487.0 | 213.0 |
| 1 Energy | 57,400 | - | 20.5 | 5.5 | 291.0 | 484.0 | 135.0 |
| A Fuel Combustion | 53,900 | - | 19.3 | 5.5 | 291.0 | 484.0 | 126.0 |
| 1 Energy Industries | 18,400 | - | 1.2 | 1.2 | 64.0 | 9.0 | 0.0 |
| 2 Manufacturing Industries and Construction | 14,100 | - | 1.9 | 1.2 | 41.0 | 32.0 | 0.0 |
| 3 Transport | 11,900 | - | 3.3 | 1.7 | 160.0 | 368.0 | 91.0 |
| 4 Other Sectors | 7,300 | - | 11.3 | 0.7 | 8.0 | 61.0 | 35.0 |
| 5 Other | 2,200 | - | 1.6 | 0.7 | 18.0 | 14.0 | 0.0 |
| B Fugitive Emissions from Fuels | 3,500 | - | 1.2 | - | - | - | 9.0 |
| 1 Solid Fuels | 3,500 | - | 1.0 | - | - | - | - |
| 2 Oil and Natural Gas | 40 | - | 0.2 | - | - | - | 9.0 |
| 2 Industrial Processes | 1,200 | - | 3.8 | 3.0 | 4.0 | 3.0 | 19.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | - | - | - | - | - | - | 57.0 |
| 4 Agriculture | NE | - | 93.8 | 10.1 | - | - | - |
| A Enteric Fermentation | - | - | 83.0 | - | - | - | - |
| B Manure Management | - | - | 10.8 | NE | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | NE | - | - | 10.1 | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 30,600 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 30,600 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | - | - | 240.0 | - | - | - | 2.0 |
| A Solid Waste Disposal on Land | - | - | 230.0 | - | - | - | - |
| B Wastewater Handling | - | - | 10.0 | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | - | - | - | - | - |
| 7 Other | 600 | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 2,800 | - | 1.3 | 1.2 | 22.0 | - | - |
| Aviation | 1,000 | - | IE | IE | IE | - | - |
| Marine | 1,800 | - | 1.3 | 1.2 | 22.0 | - | - |
| CO ₂ Emissions from Biomass | 18,400 | - | - | - | - | - | - |

Ref.: "Finland's Second Report under the Framework Convention on Climate Change", April 1997 and (draft) Finland's National Greenhouse Gas inventory to the UNFCCC Years 1990, 1995-1997, Submission under the Monitoring Mechanism, Ministry of the Environment, 3 March 1999.

Note: Finland delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Finland 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Finland 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 59,253 | 16,800 | 245.0 | 18.0 | 282.0 | 443.0 | 165.0 |
| 1 Energy | 58,413 | - | 16.0 | 6.0 | 279.0 | 433.0 | 110.0 |
| A Fuel Combustion | 58,337 | - | 16.0 | 6.0 | 279.0 | 433.0 | 97.0 |
| 1 Energy Industries | 24,526 | - | IE | IE | 54.0 | 7.0 | 0.0 |
| 2 Manufacturing Industries and Construction | 14,098 | - | IE | IE | 42.0 | 41.0 | 1.0 |
| 3 Transport | 11,414 | - | 3.0 | 2.0 | 146.0 | 317.0 | 53.0 |
| 4 Other Sectors | 6,706 | - | IE | IE | 20.0 | 48.0 | 32.0 |
| 5 Other | 1,593 | - | 13.0 | 4.0 | 16.0 | 21.0 | 11.0 |
| B Fugitive Emissions from Fuels | 80 | - | - | - | - | - | 13.0 |
| 1 Solid Fuels | - | - | - | - | - | - | - |
| 2 Oil and Natural Gas | 80 | - | - | - | - | - | 13.0 |
| 2 Industrial Processes | 840 | - | 4.0 | 3.0 | 2.0 | 10.0 | 10.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | - | - | - | - | - | - | 46.0 |
| 4 Agriculture | - | - | 93.0 | 9.0 | - | - | - |
| A Enteric Fermentation | - | - | 83.0 | 8.0 | - | - | - |
| B Manure Management | - | - | 10.0 | 1.0 | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | - | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 16,800 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 16,800 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | - | - | 132.0 | - | - | - | - |
| A Solid Waste Disposal on Land | - | - | 122.0 | - | - | - | - |
| B Wastewater Handling | - | - | 10.0 | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 2,120 | - | 1.0 | 1.0 | 25.0 | 8.0 | 4.0 |
| Aviation | 820 | - | IE | IE | IE | IE | IE |
| Marine | 1,300 | - | 1.0 | 1.0 | 25.0 | 8.0 | 4.0 |
| CO ₂ Emissions from Biomass | 20,981 | - | - | - | - | - | - |

Ref.: "Finland's National Report under the United Nations Framework Convention on Climate Change", Ministry of the Environment, January 1995, and "Finland's Second Report under the Framework Convention on Climate Change", April 1997.

Note: Finland delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Finland 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Finland 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 60,900 | 14,300 | 268.9 | 18.2 | 259.0 | 434.0 | 182.0 |
| 1 Energy | 59,400 | - | 22.8 | 6.3 | 257.0 | 424.0 | 121.0 |
| A Fuel Combustion | 55,900 | - | 21.7 | 6.3 | 257.0 | 424.0 | 113.0 |
| 1 Energy Industries | 22,300 | - | 1.6 | 1.6 | 40.0 | 8.0 | 0.0 |
| 2 Manufacturing Industries and Construction | 13,800 | - | 2.6 | 1.7 | 35.0 | 43.0 | 0.0 |
| 3 Transport | 11,100 | - | 3.0 | 1.8 | 139.0 | 306.0 | 81.0 |
| 4 Other Sectors | 7,100 | - | 13.2 | 0.7 | 26.0 | 46.0 | 32.0 |
| 5 Other | 1,600 | - | 1.3 | 0.6 | 17.0 | 21.0 | 0.0 |
| B Fugitive Emissions from Fuels | 3,500 | - | 1.2 | - | - | - | 8.0 |
| 1 Solid Fuels | 3,500 | - | 1.0 | - | - | - | - |
| 2 Oil and Natural Gas | 40 | - | 0.2 | - | - | - | 8.0 |
| 2 Industrial Processes | 800 | - | 3.8 | 2.6 | 2.0 | 10.0 | 13.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | - | - | - | - | - | - | 46.0 |
| 4 Agriculture | NE | - | 82.2 | 9.3 | - | - | - |
| A Enteric Fermentation | - | - | 72.2 | - | - | - | - |
| B Manure Management | - | - | 10.1 | NE | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | NE | - | - | 9.3 | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 14,300 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 14,300 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | - | - | 160.0 | - | - | - | 2.0 |
| A Solid Waste Disposal on Land | - | - | 150.0 | - | - | - | IE |
| B Wastewater Handling | - | - | 10.0 | - | - | - | IE |
| C Waste Incineration | - | - | - | - | - | - | IE |
| D Other | - | - | - | - | - | - | 2.0 |
| 7 Other | 700 | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 1,850 | - | 1.0 | 0.8 | 19.0 | 6.0 | 3.0 |
| Aviation | 850 | - | IE | IE | IE | IE | IE |
| Marine | 1,000 | - | 1.0 | 0.8 | 19.0 | 6.0 | 3.0 |
| CO ₂ Emissions from Biomass | 23,000 | - | - | - | - | - | - |

Ref.: "Finland's Second Report under the Framework Convention on Climate Change", April 1997 and (draft) Finland's National Greenhouse Gas inventory to the UNFCCC Years 1990, 1995-1997, Submission under the Monitoring Mechanism, Ministry of the Environment, 3 March 1999.

Note: Finland delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Finland 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-----------------|-----------------------------|-------------------------|------------------|-----------------|----|--------|
| Finland 1996 Greenhouse Gas Source and Sink Categories | CO ₂ | CO ₂ Removals | EMISSION ESTIMATES (Gg) | | | | |
| | | | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 66,400 | - | 269.9 | 18.5 | - | - | - |
| 1 Energy | 64,800 | - | 24.1 | 6.9 | - | - | - |
| A Fuel Combustion | 61,300 | - | 22.5 | 6.9 | - | - | - |
| 1 Energy Industries | 27,400 | - | 1.9 | 2.6 | - | - | - |
| 2 Manufacturing Industries and Construction | 13,500 | - | 2.6 | 1.6 | - | - | - |
| 3 Transport | 11,000 | - | 2.9 | 1.8 | - | - | - |
| 4 Other Sectors | 7,600 | - | 13.5 | 0.3 | - | - | - |
| 5 Other | 1,900 | - | 1.5 | 0.6 | - | - | - |
| B Fugitive Emissions from Fuels | 3,500 | - | 1.6 | - | - | - | - |
| 1 Solid Fuels | 3,500 | - | 1.0 | - | - | - | - |
| 2 Oil and Natural Gas | 20 | - | 0.6 | - | - | - | - |
| 2 Industrial Processes | 840 | - | 3.8 | 2.6 | - | - | - |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | - | - | - | - | - | - | - |
| 4 Agriculture | NE | - | 82.1 | 9.0 | - | - | - |
| A Enteric Fermentation | - | - | 72.1 | - | - | - | - |
| B Manure Management | - | - | 10.1 | NE | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | NE | - | - | 9.0 | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | NE | - | - | - | - | - | - |
| 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 | - | - | 160.0 | - | - | - | - |
| A Solid Waste Disposal on Land | - | - | 150.0 | - | - | - | - |
| B Wastewater Handling | - | - | 10.0 | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | - | - | - | - | - |
| 7 Other | 700 | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 2,100 | - | 1.2 | 0.9 | - | - | - |
| Aviation | IE | - | IE | IE | - | - | - |
| Marine | 2,100 | - | 1.2 | 0.9 | - | - | - |
| CO ₂ Emissions from Biomass | 22,900 | - | - | - | - | - | - |

Ref.: (draft) Finland's National Greenhouse Gas inventory to the UNFCCC Years 1990, 1995 - 1997, Submission under the Monitoring mechanism, Ministry of the Environment, 3 March 1999.

Note: Finland delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

HFC/PFC/SF₆ emissions in Finland 1990, 1994-96

| Finland 1990 | HFC | | PFC | | SF ₆ | |
|---|--------------|---|-----------|---|-----------------|---|
| | P | A | P | A | P | A |
| Estimates in Gg | | | | | | |
| Total National Emissions and Removals | 0.100 | - | NA | - | 0.004 | - |
| 2 Industrial Processes | 0.100 | - | NA | - | 0.004 | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Finland 1994 | HFC | | PFC | | SF ₆ | |
|---|--------------|---|----------------|---|-----------------|---|
| | P | A | P | A | P | A |
| Estimates in Gg | | | | | | |
| Total National Emissions and Removals | 0.061 | - | 0.00004 | - | 0.004 | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Finland 1995 | HFC | | PFC | | SF ₆ | |
|---|--------------|---|-----------|---|-----------------|---|
| | P | A | P | A | P | A |
| Estimates in Gg | | | | | | |
| Total National Emissions and Removals | 0.110 | - | NA | - | 0.004 | - |
| 2 Industrial Processes | 0.110 | - | NA | - | 0.004 | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Finland 1996 | HFC | | PFC | | SF ₆ | |
|---|--------------|---|-----------|---|-----------------|---|
| | P | A | P | A | P | A |
| Estimates in Gg | | | | | | |
| Total National Emissions and Removals | 0.170 | - | NA | - | 0.005 | - |
| 2 Industrial Processes | 0.170 | - | NA | - | 0.005 | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

Ref.: "Finland's National Report under the United Nations Framework Convention on Climate Change", Ministry of the Environment, January 1995, "Finland's Second Report under the Framework Convention on Climate Change", April 1997 and (draft) Finland's National Greenhouse Gas inventory to the UNFCCC Years 1990, 1995-1997, Submission under the Monitoring Mechanism, Ministry of the Environment, 3 March 1999.

France 1990

IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES

| France 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|-----------------|----------------|
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 478,001 | 117,609 | 3,017.7 | 308.7 | 1,952.5 | 10,397.7 | 2,971.5 |
| 1 Energy | 364,491 | - | 475.0 | 14.9 | 1,908.9 | 9,466.0 | 1,729.0 |
| A Fuel Combustion | 360,186 | - | 164.0 | 14.8 | 1,903.3 | 9,461.0 | 1,585.7 |
| 1 Energy Industries | 65,495 | - | 2.2 | 2.2 | 156.6 | 16.4 | 3.6 |
| 2 Manufacturing Industries and Construction | 77,747 | - | 7.6 | 4.4 | 244.6 | 669.1 | 21.6 |
| 3 Transport | 123,111 | - | 23.8 | 4.0 | 1,130.9 | 6,819.2 | 1,268.1 |
| 4 Other Sectors | 93,833 | - | 130.4 | 4.2 | 371.2 | 1,956.2 | 292.4 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 4,306 | - | 311.0 | 0.1 | 5.7 | 5.0 | 143.3 |
| 1 Solid Fuels | 0 | - | 206.3 | 0.0 | 0.0 | 4.3 | 1.1 |
| 2 Oil and Natural Gas | 4,306 | - | 104.7 | 0.1 | 5.7 | 0.8 | 142.3 |
| 2 Industrial Processes | 20,948 | - | 2.6 | 90.0 | 23.6 | 648.6 | 93.2 |
| A Mineral Products | 13,352 | - | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| B Chemical Industry | 2,477 | - | 2.5 | 90.0 | 20.1 | 0.0 | 45.0 |
| C Metal Production | 4,388 | - | 0.1 | 0.0 | 3.3 | 648.6 | 2.6 |
| D Other Production | 551 | - | 0.0 | 0.0 | 0.1 | 0.0 | 43.7 |
| E Production of Halocarbons and Sulphur Hexafluoride | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Consumption of Halocarbons and Sulphur Hexafluoride | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 2,072 | - | 0.0 | 1.9 | 0.0 | 0.0 | 664.7 |
| 4 Agriculture | 0 | - | 1,630.1 | 181.1 | 0.0 | 0.0 | 20.9 |
| A Enteric Fermentation | 0 | - | 1,430.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 168.3 | 10.5 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 8.6 | 0.2 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 22.9 | 170.4 | 0.0 | 0.0 | 20.9 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 87,293 | 117,609 | 94.7 | 17.8 | 1.5 | 52.9 | 436.5 |
| A Changes in Forest and Other Woody Biomass Stocks | 75,694 | 113,146 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 6,593 | 0 | 6.0 | 0.0 | 1.5 | 52.9 | 0.0 |
| C Abandonment of Managed Lands | 0 | 48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 5,006 | 4,415 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | 0 | 88.6 | 17.7 | 0.0 | 0.0 | 436.5 |
| 6 Waste | 3,198 | - | 815.3 | 3.1 | 18.5 | 230.3 | 27.2 |
| A Solid Waste Disposal on Land | 0 | - | 778.0 | 0.0 | 0.0 | 0.0 | 7.6 |
| B Wastewater Handling | 1,352 | - | 12.3 | 2.0 | 0.0 | 0.0 | 3.1 |
| C Waste Incineration | 1,845 | - | 13.8 | 1.1 | 18.5 | 230.3 | 8.9 |
| D Other | 0 | - | 11.2 | 0.0 | 0.0 | 0.0 | 7.6 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 15,488 | - | 0.0 | 0.3 | 212.4 | 19.4 | 79.3 |
| Aviation | 7,351 | - | 0.0 | 0.0 | 57.6 | 17.3 | 8.5 |
| Marine | 8,136 | - | 0.0 | 0.3 | 154.8 | 2.1 | 70.8 |
| CO ₂ Emissions from Biomass | 34,294 | - | - | - | - | - | - |

Ref.: Emission Inventories 1990 - 1996, Submission of 1990 to 1996 data to DGXI under the Monitoring Mechanism, Mission Interministérielle de l'Effet de Serre (MIES), 7 Oct 1998.

Note : emission data include DOMs and TOMs (overseas departments and territories).

France 1994

IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES

| France 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 470,736 | 124,766 | 2,811.8 | 287.1 | 1,830.9 | 8,959.7 | 2,734.8 |
| 1 Energy | 362,833 | - | 472.0 | 16.8 | 1,794.6 | 8,068.7 | 1,549.0 |
| A Fuel Combustion | 358,326 | - | 162.1 | 16.7 | 1,790.0 | 8,064.4 | 1,424.2 |
| 1 Energy Industries | 52,403 | - | 2.3 | 1.8 | 133.0 | 17.2 | 4.7 |
| 2 Manufacturing Industries and Construction | 78,914 | - | 8.5 | 4.5 | 241.0 | 634.0 | 22.2 |
| 3 Transport | 132,403 | - | 22.3 | 6.1 | 1,087.4 | 5,513.6 | 1,118.3 |
| 4 Other Sectors | 94,606 | - | 129.0 | 4.3 | 328.7 | 1,899.7 | 279.1 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 4,506 | - | 309.9 | 0.1 | 4.6 | 4.2 | 124.8 |
| 1 Solid Fuels | 0 | - | 212.9 | 0.0 | 0.0 | 3.5 | 0.9 |
| 2 Oil and Natural Gas | 4,506 | - | 97.0 | 0.1 | 4.6 | 0.8 | 124.0 |
| 2 Industrial Processes | 17,975 | - | 2.4 | 77.4 | 11.7 | 606.2 | 84.2 |
| A Mineral Products | 11,446 | - | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| B Chemical Industry | 2,324 | - | 2.4 | 77.4 | 8.5 | 0.0 | 37.6 |
| C Metal Production | 3,729 | - | 0.1 | 0.0 | 3.2 | 606.2 | 2.6 |
| D Other Production | 477 | - | 0.0 | 0.0 | 0.0 | 0.0 | 42.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Consumption of Halocarbons and Sulphur Hexafluoride | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 1,893 | - | 0.0 | 2.0 | 0.0 | 0.0 | 607.3 |
| 4 Agriculture | 0 | - | 1,555.0 | 169.6 | 0.0 | 0.0 | 19.9 |
| A Enteric Fermentation | 0 | - | 1,351.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 169.7 | 10.1 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 11.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 23.1 | 159.3 | 0.0 | 0.0 | 19.9 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 84,251 | 124,766 | 95.2 | 17.9 | 1.5 | 52.9 | 446.1 |
| A Changes in Forest and Other Woody Biomass Stocks | 72,613 | 119,423 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 6,593 | 0 | 6.0 | 0.0 | 1.5 | 52.9 | 0.0 |
| C Abandonment of Managed Lands | 0 | 48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 5,045 | 5,295 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | - | 89.1 | 17.8 | 0.0 | 0.0 | 446.1 |
| 6 Waste | 3,784 | - | 687.2 | 3.5 | 23.1 | 232.0 | 28.3 |
| A Solid Waste Disposal on Land | 0 | - | 644.9 | 0.0 | 0.0 | 0.0 | 6.4 |
| B Wastewater Handling | 1,412 | - | 12.9 | 2.1 | 0.0 | 0.0 | 3.3 |
| C Waste Incineration | 2,372 | - | 15.7 | 1.4 | 23.1 | 232.0 | 9.2 |
| D Other | 0 | - | 13.7 | 0.0 | 0.0 | 0.0 | 9.4 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 16,639 | - | 0.0 | 0.2 | 209.1 | 24.0 | 71.7 |
| Aviation | 9,272 | - | 0.0 | 0.0 | 75.9 | 22.2 | 10.8 |
| Marine | 7,001 | - | 0.0 | 0.2 | 133.2 | 1.8 | 61.0 |
| CO ₂ Emissions from Biomass | 35,906 | - | - | - | - | - | - |

Ref.: Emission Inventories 1990 - 1996, Submission of 1990 to 1996 data to DGXI under the Monitoring Mechanism, Mission Interministérielle de l'Effet de Serre (MIES), 7 Oct 1998.

Note: emission data include DOMs and TOMs (overseas departments and territories).

France 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| France 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 480,639 | 126,355 | 2,785.9 | 292.7 | 1,863.7 | 8,633.6 | 2,666.0 |
| 1 Energy | 369,148 | - | 475.3 | 17.9 | 1,828.3 | 7,749.7 | 1,485.6 |
| A Fuel Combustion | 365,226 | - | 165.7 | 17.8 | 1,823.1 | 7,745.6 | 1,367.6 |
| 1 Energy Industries | 55,104 | - | 2.2 | 1.9 | 144.6 | 15.4 | 4.4 |
| 2 Manufacturing Industries and Construction | 79,302 | - | 7.7 | 4.4 | 291.7 | 634.7 | 29.3 |
| 3 Transport | 134,137 | - | 21.0 | 7.1 | 1,039.4 | 5,106.4 | 1,043.2 |
| 4 Other Sectors | 96,683 | - | 134.8 | 4.4 | 347.5 | 1,989.1 | 290.8 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 3,922 | - | 309.6 | 0.1 | 5.1 | 4.1 | 118.0 |
| 1 Solid Fuels | 0 | - | 211.0 | 0.0 | 0.0 | 3.5 | 0.9 |
| 2 Oil and Natural Gas | 3,922 | - | 98.6 | 0.1 | 5.1 | 0.7 | 117.1 |
| 2 Industrial Processes | 18,576 | - | 2.7 | 80.4 | 11.1 | 599.1 | 84.3 |
| A Mineral Products | 11,323 | - | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| B Chemical Industry | 2,328 | - | 2.6 | 80.4 | 7.8 | 0.0 | 37.4 |
| C Metal Production | 4,428 | - | 0.1 | 0.0 | 3.3 | 599.1 | 2.6 |
| D Other Production | 498 | - | 0.0 | 0.0 | 0.0 | 0.0 | 42.4 |
| E Production of Halocarbons and Sulphur Hexafluoride | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Consumption of Halocarbons and Sulphur Hexafluoride | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 1,908 | - | 0.0 | 2.0 | 0.0 | 0.0 | 612.3 |
| 4 Agriculture | 0 | - | 1,564.0 | 171.1 | 0.0 | 0.0 | 19.6 |
| A Enteric Fermentation | 0 | - | 1,358.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 171.8 | 10.1 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 10.6 | 0.2 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 23.1 | 160.8 | 0.0 | 0.0 | 19.6 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 87,220 | 126,355 | 95.3 | 17.9 | 1.5 | 52.9 | 435.9 |
| A Changes in Forest and Other Woody Biomass Stocks | 75,535 | 121,093 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 6,593 | 0 | 6.0 | 0.0 | 1.5 | 52.9 | 0.0 |
| C Abandonment of Managed Lands | 0 | 48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 5,092 | 5,214 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | 0 | 89.3 | 17.9 | 0.0 | 0.0 | 435.9 |
| 6 Waste | 3,786 | - | 648.7 | 3.5 | 22.8 | 231.9 | 28.3 |
| A Solid Waste Disposal on Land | 0 | - | 605.7 | 0.0 | 0.0 | 0.0 | 6.0 |
| B Wastewater Handling | 1,426 | - | 13.0 | 2.1 | 0.0 | 0.0 | 3.2 |
| C Waste Incineration | 2,360 | - | 15.6 | 1.4 | 22.8 | 231.9 | 9.2 |
| D Other | 0 | - | 14.4 | 0.0 | 0.0 | 0.0 | 9.9 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 17,329 | - | 0.0 | 0.2 | 217.0 | 25.0 | 74.1 |
| Aviation | 10,113 | - | 0.0 | 0.0 | 79.7 | 23.2 | 11.3 |
| Marine | 7,216 | - | 0.0 | 0.2 | 137.3 | 1.9 | 62.8 |
| CO ₂ Emissions from Biomass | 37,284 | - | - | - | - | - | - |

Ref.: Emission Inventories 1990 - 1996, Submission of 1990 to 1996 data to DGXI under the Monitoring Mechanism, Mission Interministérielle de l'Effet de Serre (MIES), 7 Oct 1998.

Note: emission data include DOMs and TOMs (overseas departments and territories).

France 1996

IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES

| France 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 493,512 | 128,095 | 2,711.7 | 297.4 | 1,782.8 | 8,349.7 | 2,539.4 |
| 1 Energy | 383,715 | - | 441.1 | 19.3 | 1,747.3 | 7,490.0 | 1,415.9 |
| A Fuel Combustion | 379,711 | - | 177.9 | 19.2 | 1,741.9 | 7,486.0 | 1,301.3 |
| 1 Energy Industries | 59,537 | - | 2.0 | 2.0 | 152.4 | 18.0 | 4.3 |
| 2 Manufacturing Industries and Construction | 80,606 | - | 8.1 | 4.4 | 250.7 | 618.3 | 24.1 |
| 3 Transport | 135,368 | - | 19.4 | 8.0 | 983.6 | 4,684.0 | 961.7 |
| 4 Other Sectors | 104,199 | - | 148.4 | 4.8 | 355.2 | 2,165.7 | 311.1 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 4,005 | - | 263.2 | 0.1 | 5.4 | 4.0 | 114.6 |
| 1 Solid Fuels | 0 | - | 160.8 | 0.0 | 0.0 | 3.4 | 0.8 |
| 2 Oil and Natural Gas | 4,005 | - | 102.4 | 0.1 | 5.4 | 0.7 | 113.8 |
| 2 Industrial Processes | 17,313 | - | 2.5 | 81.1 | 11.5 | 575.1 | 84.9 |
| A Mineral Products | 11,107 | - | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 |
| B Chemical Industry | 2,443 | - | 2.5 | 81.1 | 8.2 | 0.0 | 37.5 |
| C Metal Production | 3,244 | - | 0.1 | 0.0 | 3.3 | 575.1 | 2.6 |
| D Other Production | 519 | - | 0.0 | 0.0 | 0.0 | 0.0 | 42.9 |
| E Production of Halocarbons and Sulphur Hexafluoride | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Consumption of Halocarbons and Sulphur Hexafluoride | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 1,847 | - | 0.0 | 2.0 | 0.0 | 0.0 | 592.7 |
| 4 Agriculture | 0 | - | 1,565.5 | 173.7 | 0.0 | 0.0 | 17.8 |
| A Enteric Fermentation | 0 | - | 1,358.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 174.6 | 10.2 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 9.5 | 0.2 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 23.0 | 163.4 | 0.0 | 0.0 | 17.8 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 86,846 | 128,095 | 95.3 | 17.9 | 1.5 | 52.9 | 399.6 |
| A Changes in Forest and Other Woody Biomass Stocks | 74,907 | 122,743 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 6,593 | 0 | 6.0 | 0.0 | 1.5 | 52.9 | 0.0 |
| C Abandonment of Managed Lands | 0 | 48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 5,346 | 5,304 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | 0 | 89.3 | 17.9 | 0.0 | 0.0 | 399.6 |
| 6 Waste | 3,791 | - | 607.3 | 3.5 | 22.5 | 231.7 | 28.5 |
| A Solid Waste Disposal on Land | 0 | - | 563.5 | 0.0 | 0.0 | 0.0 | 5.6 |
| B Wastewater Handling | 1,440 | - | 13.1 | 2.1 | 0.0 | 0.0 | 3.4 |
| C Waste Incineration | 2,351 | - | 15.5 | 1.4 | 22.5 | 231.7 | 9.2 |
| D Other | 0 | - | 15.2 | 0.0 | 0.0 | 0.0 | 10.1 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 18,154 | - | 0.0 | 0.2 | 227.5 | 26.0 | 77.6 |
| Aviation | 10,588 | - | 0.0 | 0.0 | 83.4 | 24.0 | 11.7 |
| Marine | 7,566 | - | 0.0 | 0.2 | 144.1 | 2.0 | 65.9 |
| CO ₂ Emissions from Biomass | 39,883 | - | - | - | - | - | - |

Ref.: Emission Inventories 1990 - 1996, Submission of 1990 to 1996 data to DGXI under the Monitoring Mechanism, Mission Interministérielle de l'Effet de Serre (MIES), 7 Oct 1998

Note: emission data include DOMs and TOMs (overseas departments and territories).

HFC/PFC/SF₆ emissions in France 1990, 1994-96

| France 1990 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.256 | - | 0.432 | - | 0.102 |
| 2 Industrial Processes | - | 0.256 | - | 0.432 | - | 0.102 |
| A Mineral Products | - | 0.000 | - | 0.000 | - | 0.000 |
| B Chemical Industry | - | 0.000 | - | 0.000 | - | 0.000 |
| C Metal Production | - | 0.000 | - | 0.339 | - | 0.036 |
| D Other Production | - | 0.000 | - | 0.000 | - | 0.000 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | 0.256 | - | 0.068 | - | 0.000 |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 0.000 | - | 0.025 | - | 0.065 |
| G Other | - | 0.000 | - | 0.000 | - | 0.000 |

| France 1994 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.320 | - | 0.170 | - | 0.109 |
| 2 Industrial Processes | - | 0.320 | - | 0.170 | - | 0.109 |
| A Mineral Products | - | 0.000 | - | 0.000 | - | 0.000 |
| B Chemical Industry | - | 0.000 | - | 0.000 | - | 0.000 |
| C Metal Production | - | 0.000 | - | 0.112 | - | 0.040 |
| D Other Production | - | 0.000 | - | 0.000 | - | 0.000 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | 0.134 | - | 0.031 | - | 0.000 |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 0.186 | - | 0.027 | - | 0.069 |
| G Other | - | 0.000 | - | 0.000 | - | 0.000 |

| France 1995 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.805 | - | 0.180 | - | 0.110 |
| 2 Industrial Processes | - | 0.805 | - | 0.180 | - | 0.110 |
| A Mineral Products | - | 0.000 | - | 0.000 | - | 0.000 |
| B Chemical Industry | - | 0.000 | - | 0.000 | - | 0.000 |
| C Metal Production | - | 0.000 | - | 0.097 | - | 0.041 |
| D Other Production | - | 0.000 | - | 0.000 | - | 0.000 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | 0.135 | - | 0.025 | - | 0.000 |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 0.670 | - | 0.058 | - | 0.070 |
| G Other | - | 0.000 | - | 0.000 | - | 0.000 |

| France 1996 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 1.550 | - | 0.199 | - | 0.113 |
| 2 Industrial Processes | - | 1.550 | - | 0.199 | - | 0.113 |
| A Mineral Products | - | 0.000 | - | 0.000 | - | 0.000 |
| B Chemical Industry | - | 0.000 | - | 0.000 | - | 0.000 |
| C Metal Production | - | 0.000 | - | 0.098 | - | 0.042 |
| D Other Production | - | 0.000 | - | 0.000 | - | 0.000 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | 0.137 | - | 0.024 | - | 0.000 |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 0.413 | - | 0.077 | - | 0.072 |
| G Other | - | 0.000 | - | 0.000 | - | 0.000 |

Ref.: Emission Inventories 1990 - 1996, Submission of 1990 to 1996 data to DGXI under the Monitoring Mechanism, Mission Interministérielle de l'Effet de Serre (MIES), 7 Oct 1998

Note: emission data include DOMs and TOMs (overseas departments and territories).

Germany 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|-----------------|----------------|
| Germany 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 1,014,500 | 3,862 | 5,571.0 | 224.6 | 2,709.2 | 11,219.2 | 3,224.6 |
| 1 Energy | 986,832 | - | 1,774.9 | 36.6 | 2,678.2 | 10,537.0 | 1,974.6 |
| A Fuel Combustion | 986,832 | - | 213.9 | 36.6 | 2,678.2 | 10,490.0 | 1,692.3 |
| 1 Energy Industries | 412,896 | - | 8.0 | 14.3 | 602.6 | 179.0 | 8.0 |
| 2 Manufacturing Industries and Construction | 196,457 | - | 12.4 | 6.0 | 355.0 | 828.0 | 12.0 |
| 3 Transport | 162,281 | - | 63.7 | 10.3 | 1,422.6 | 6,772.0 | 1,490.3 |
| 4 Other Sectors | 203,439 | - | 127.8 | 6.0 | 249.0 | 2,589.0 | 160.0 |
| 5 Other | 11,760 | - | 2.0 | 0.0 | 49.0 | 122.0 | 22.0 |
| B Fugitive Emissions from Fuels | NE | - | 1,561.0 | 0.0 | 0.0 | 47.0 | 282.3 |
| 1 Solid Fuels | NO | - | 1,227.0 | NO | NO | 20.0 | 6.0 |
| 2 Oil and Natural Gas | NE | - | 334.0 | 0.0 | 0.0 | 27.0 | 277.0 |
| 2 Industrial Processes | 27,668 | - | 0.0 | 82.0 | 31.0 | 682.2 | 90.0 |
| A Mineral Products | 24,664 | - | 0.0 | - | 6.0 | 0.0 | 0.0 |
| B Chemical Industry | 2,100 | - | 0.0 | 82.0 | 23.0 | 1.6 | 60.0 |
| C Metal Production | 904 | - | 0.0 | - | 2.0 | 680.6 | 3.0 |
| D Other Production | NE | - | 0.0 | - | 0.0 | 0.0 | 27.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | NO | - | NO | 6.0 | NO | NO | 1,160.0 |
| 4 Agriculture | NO | - | 1,902.4 | 96.0 | NO | NO | NO |
| A Enteric Fermentation | NO | - | 1,248.0 | NO | NO | NO | NO |
| B Manure Management | NO | - | 630.3 | 11.0 | NO | NO | NO |
| C Rice Cultivation | NO | - | NO | NO | NO | NO | NO |
| D Agricultural Soils | NO | - | 24.0 | 85.0 | NO | NO | NO |
| 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 & Forestry | - | 3,862 | NO | NO | NO | NO | NO |
| A Changes in Forest and Other Woody Biomass Stocks | - | 3,862 | - | - | - | - | - |
| B Forest and Grassland Conversion | NO | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | NE | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | NE | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | NE | - | 1,893.7 | 4.0 | NO | NO | NO |
| A Solid Waste Disposal on Land | NO | - | 1,841.8 | NO | NO | NO | NO |
| B Wastewater Handling | NO | - | 51.9 | 4.0 | NO | NO | NO |
| C Waste Incineration | NE | - | NE | NE | NE | NE | NE |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 19,569 | - | 0.5 | 0.6 | 205.9 | 93.9 | 24.5 |
| Aviation | 11,589 | - | 0.2 | 0.2 | 50.6 | 56.6 | 9.3 |
| Marine | 7,980 | - | 0.3 | 0.4 | 155.3 | 37.3 | 15.2 |
| CO ₂ Emissions from Biomass | NE | - | - | - | - | - | - |

Ref.: Updated national GHG Inventories 1990-96 and inventory 1997 (CO₂ also 1998); Submission by Umweltbundesamt Berlin to the EEA, 19 April 1999.

Germany 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Germany 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 904,112 | 38,875 | 4,022.0 | 215.6 | 2,042.0 | 7,054.0 | 2,158.0 |
| 1 Energy | 877,158 | - | 1,338.0 | 38.6 | 2,028.0 | 6,473.0 | 973.0 |
| A Fuel Combustion | 877,158 | - | 119.0 | 38.6 | 2,028.0 | 6,461.0 | 837.0 |
| 1 Energy Industries | 362,678 | - | 7.0 | 13.3 | 351.0 | 133.0 | 7.0 |
| 2 Manufacturing Industries and Construction | 149,378 | - | 8.0 | 4.0 | 242.0 | 702.0 | 9.0 |
| 3 Transport | 172,899 | - | 32.0 | 16.3 | 1,200.0 | 4,174.0 | 714.0 |
| 4 Other Sectors | 187,470 | - | 71.0 | 5.0 | 213.0 | 1,392.0 | 99.0 |
| 5 Other | 4,733 | - | 1.0 | 0.0 | 22.0 | 60.0 | 8.0 |
| B Fugitive Emissions from Fuels | NE | - | 1,219.0 | 0.0 | 0.0 | 12.0 | 136.0 |
| 1 Solid Fuels | NO | - | 811.0 | NO | NO | 11.0 | 2.0 |
| 2 Oil and Natural Gas | NE | - | 408.0 | 0.0 | 0.0 | 1.0 | 134.0 |
| 2 Industrial Processes | 26,954 | - | 0.0 | 81.0 | 14.0 | 581.0 | 95.0 |
| A Mineral Products | 24,764 | - | 0.0 | - | 5.0 | 0.0 | 0.0 |
| B Chemical Industry | 1,575 | - | 0.0 | 81.0 | 7.0 | 1.0 | 65.0 |
| C Metal Production | 615 | - | 0.0 | - | 2.0 | 580.0 | 2.0 |
| D Other Production | NE | - | 0.0 | - | 0.0 | 0.0 | 28.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | NO | - | NO | 6.0 | NO | NO | 1,090.0 |
| 4 Agriculture | NO | - | 1,570.0 | 86.0 | NO | NO | NO |
| A Enteric Fermentation | NO | - | 1,024.0 | NO | NO | NO | NO |
| B Manure Management | NO | - | 520.0 | 9.0 | NO | NO | NO |
| C Rice Cultivation | NO | - | NO | NO | NO | NO | NO |
| D Agricultural Soils | NO | - | 26.0 | 77.0 | NO | NO | NO |
| 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 & Forestry | - | 38,875 | NO | NO | NO | NO | NO |
| A Changes in Forest and Other Woody Biomass Stocks | - | 38,875 | - | - | - | - | - |
| B Forest and Grassland Conversion | NO | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | NE | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | NE | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | NE | - | 1,114.0 | 4.0 | NO | NO | NO |
| A Solid Waste Disposal on Land | NO | - | 1,114.0 | NO | NO | NO | NO |
| B Wastewater Handling | NO | - | 0.0 | 4.0 | NO | NO | NO |
| C Waste Incineration | NE | - | NE | NE | NE | NE | NE |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 19,874 | - | 0.5 | 0.7 | 191.0 | 98.0 | 23.0 |
| Aviation | 13,398 | - | 0.2 | 0.3 | 65.0 | 68.0 | 11.0 |
| Marine | 6,476 | - | 0.3 | 0.4 | 126.0 | 30.0 | 12.0 |
| CO ₂ Emissions from Biomass | NE | - | - | - | - | - | - |

Ref.: Updated national GHG Inventories 1990-96 and inventory 1997 (CO₂ also 1998); Submission by Umweltbundesamt Berlin to the EEA, 19 April 1999.

Germany 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Germany 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 904,488 | 32,247 | 3,902.0 | 217.4 | 1,946.0 | 6,885.0 | 1,981.0 |
| 1 Energy | 878,100 | - | 1,314.0 | 40.2 | 1,931.0 | 6,279.0 | 837.0 |
| A Fuel Combustion | 878,100 | - | 120.0 | 40.2 | 1,931.0 | 6,268.0 | 759.0 |
| 1 Energy Industries | 360,000 | - | 7.0 | 13.6 | 339.0 | 129.0 | 7.0 |
| 2 Manufacturing Industries and Construction | 148,000 | - | 8.0 | 4.0 | 235.0 | 698.0 | 9.0 |
| 3 Transport | 175,000 | - | 30.0 | 16.6 | 1,125.0 | 3,933.0 | 634.0 |
| 4 Other Sectors | 191,000 | - | 74.0 | 6.0 | 210.0 | 1,448.0 | 101.0 |
| 5 Other | 4,100 | - | 1.0 | 0.0 | 22.0 | 60.0 | 8.0 |
| B Fugitive Emissions from Fuels | NE | - | 1,194.0 | 0.0 | 0.0 | 11.0 | 78.0 |
| 1 Solid Fuels | NO | - | 837.0 | NO | NO | 11.0 | 2.0 |
| 2 Oil and Natural Gas | NE | - | 357.0 | 0.0 | 0.0 | 0.0 | 76.0 |
| 2 Industrial Processes | 26,388 | - | 0.0 | 82.0 | 15.0 | 606.0 | 94.0 |
| A Mineral Products | 23,815 | - | 0.0 | - | 6.0 | 0.0 | 0.0 |
| B Chemical Industry | 1,870 | - | 0.0 | 82.0 | 7.0 | 1.0 | 64.0 |
| C Metal Production | 703 | - | 0.0 | - | 2.0 | 605.0 | 2.0 |
| D Other Production | NE | - | 0.0 | - | 0.0 | 0.0 | 28.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | NO | - | NO | 6.0 | NO | NO | 1,050.0 |
| 4 Agriculture | NO | - | 1,559.0 | 85.2 | NO | NO | NO |
| A Enteric Fermentation | NO | - | 1,018.0 | NO | NO | NO | NO |
| B Manure Management | NO | - | 515.0 | 8.6 | NO | NO | NO |
| C Rice Cultivation | NO | - | NO | NO | NO | NO | NO |
| D Agricultural Soils | NO | - | 26.0 | 76.6 | NO | NO | NO |
| 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 & Forestry | - | 32,247 | NO | NO | NO | NO | NO |
| A Changes in Forest and Other Woody Biomass Stocks | - | 32,247 | - | - | - | - | - |
| B Forest and Grassland Conversion | NO | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | NE | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | NE | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | NE | - | 1,029.0 | 4.0 | NO | NO | NO |
| A Solid Waste Disposal on Land | NO | - | 1,029.0 | NO | NO | NO | NO |
| B Wastewater Handling | NO | - | 0.0 | 4.0 | NO | NO | NO |
| C Waste Incineration | NE | - | NE | NE | NE | NE | NE |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 19,874 | - | 0.5 | 0.6 | 191.0 | 98.0 | 23.0 |
| Aviation | 13,398 | - | 0.2 | 0.2 | 65.0 | 68.0 | 11.0 |
| Marine | 6,476 | - | 0.3 | 0.4 | 126.0 | 30.0 | 12.0 |
| CO ₂ Emissions from Biomass | NE | - | - | - | - | - | - |

Ref.: Updated national GHG Inventories 1990-96 and inventory 1997 (CO₂ also 1998); Submission by Umweltbundesamt Berlin to the EEA, 19 April 1999.

Germany 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Germany 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 918,932 | 35,006 | 3,573.0 | 224.0 | 1,887.0 | 6,717.0 | 1,877.0 |
| 1 Energy | 894,000 | - | 1,228.0 | 42.0 | 1,874.0 | 6,139.0 | 773.0 |
| A Fuel Combustion | 894,000 | - | 125.0 | 42.0 | 1,874.0 | 6,128.0 | 699.0 |
| 1 Energy Industries | 361,000 | - | 7.0 | 13.0 | 342.0 | 127.0 | 7.0 |
| 2 Manufacturing Industries and Construction | 140,000 | - | 8.0 | 3.0 | 228.0 | 673.0 | 9.0 |
| 3 Transport | 174,000 | - | 29.0 | 21.0 | 1,061.0 | 3,730.0 | 568.0 |
| 4 Other Sectors | 215,000 | - | 80.0 | 4.0 | 220.0 | 1,536.0 | 106.0 |
| 5 Other | 4,000 | - | 1.0 | 1.0 | 23.0 | 62.0 | 9.0 |
| B Fugitive Emissions from Fuels | NE | - | 1,103.0 | 0.0 | 0.0 | 11.0 | 74.0 |
| 1 Solid Fuels | NO | - | 734.0 | NO | NO | 11.0 | 2.0 |
| 2 Oil and Natural Gas | NE | - | 369.0 | 0.0 | 0.0 | 0.0 | 72.0 |
| 2 Industrial Processes | 24,932 | - | 0.0 | 87.0 | 13.0 | 578.0 | 94.0 |
| A Mineral Products | 22,392 | - | 0.0 | - | 6.0 | 0.0 | 0.0 |
| B Chemical Industry | 1,836 | - | 0.0 | 87.0 | 5.0 | 1.0 | 63.0 |
| C Metal Production | 704 | - | 0.0 | - | 2.0 | 577.0 | 2.0 |
| D Other Production | NE | - | 0.0 | - | 0.0 | 0.0 | 29.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | NO | - | NO | 6.0 | NO | NO | 1,010.0 |
| 4 Agriculture | NO | - | 1,553.0 | 85.0 | NO | NO | NO |
| A Enteric Fermentation | NO | - | 1,012.0 | NO | NO | NO | NO |
| B Manure Management | NO | - | 515.0 | 9.0 | NO | NO | NO |
| C Rice Cultivation | NO | - | NO | NO | NO | NO | NO |
| D Agricultural Soils | NO | - | 26.0 | 76.0 | NO | NO | NO |
| 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 & Forestry | - | 35,006 | NO | NO | NO | NO | NO |
| A Changes in Forest and Other Woody Biomass Stocks | - | 35,006 | - | - | - | - | - |
| B Forest and Grassland Conversion | NO | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | NE | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | NE | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | NE | - | 792.0 | 4.0 | NO | NO | NO |
| A Solid Waste Disposal on Land | NO | - | 792.0 | NO | NO | NO | NO |
| B Wastewater Handling | NO | - | 0.0 | 4.0 | NO | NO | NO |
| C Waste Incineration | NE | - | NE | NE | NE | NE | NE |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 19,874 | - | 0.5 | 0.6 | 191.0 | 98.0 | 23.0 |
| Aviation | 13,398 | - | 0.2 | 0.2 | 65.0 | 68.0 | 11.0 |
| Marine | 6,476 | - | 0.3 | 0.4 | 126.0 | 30.0 | 12.0 |
| CO ₂ Emissions from Biomass | NE | - | - | - | - | - | - |

Ref.: Updated national GHG Inventories 1990-96 and inventory 1997 (CO₂ also 1998); Submission by Umweltbundesamt Berlin to the EEA, 19 April 1999.

HFC/PFC/SF₆ emissions in Germany 1990, 1994-96

| Germany 1990 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.200 | - | 0.397 | - | 0.163 |
| 2 Industrial Processes | - | 0.200 | - | 0.397 | - | 0.163 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | 0.197 | - | 0.010 | - | - |
| C Metal Production | - | - | - | 0.369 | - | 0.007 |
| D Other Production | - | 0.003 | - | 0.018 | - | 0.004 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 0.000 | - | - | - | 0.152 |
| G Other | - | - | - | - | - | - |

| Germany 1994 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 1.942 | - | 0.245 | - | 0.242 |
| 2 Industrial Processes | - | 1.942 | - | 0.245 | - | 0.242 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | 0.198 | - | 0.003 | - | - |
| C Metal Production | - | - | - | 0.219 | - | 0.008 |
| D Other Production | - | 0.002 | - | 0.023 | - | 0.002 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 1.742 | - | - | - | 0.232 |
| G Other | - | - | - | - | - | - |

| Germany 1995 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 2.030 | - | 0.245 | - | 0.261 |
| 2 Industrial Processes | - | 2.030 | - | 0.254 | - | 0.261 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | 0.098 | - | 0.000 | - | - |
| C Metal Production | - | - | - | 0.230 | - | 0.006 |
| D Other Production | - | 0.003 | - | 0.022 | - | 0.004 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 1.928 | - | 0.002 | - | 0.252 |
| G Other | - | - | - | - | - | - |

| Germany 1996 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 2.275 | - | 0.256 | - | 0.244 |
| 2 Industrial Processes | - | 2.275 | - | 0.256 | - | 0.244 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | 0.000 | - | 0.000 | - | - |
| C Metal Production | - | - | - | 0.216 | - | 0.003 |
| D Other Production | - | 0.024 | - | 0.037 | - | 0.004 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | 2.252 | - | 0.003 | - | 0.236 |
| G Other | - | - | - | - | - | - |

Ref.: Updated national GHG Inventories 1990-96 and inventory 1997 (CO₂ also 1998); Submission by Umweltbundesamt Berlin to the EEA, 19 April 1999.

Greece 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Greece 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 85,349 | 0 | 437.1 | 29.9 | 342.9 | 1,337.5 | 373.2 |
| 1 Energy | 77,256 | - | 57.5 | 6.7 | 305.8 | 1,180.7 | 252.5 |
| A Fuel Combustion | 77,256 | - | 13.3 | 6.7 | 305.3 | 1,179.6 | 225.9 |
| 1 Energy Industries | 43,658 | - | 0.2 | 2.7 | 69.4 | 5.3 | 3.8 |
| 2 Manufacturing Industries and Construction | 9,820 | - | 1.6 | 1.5 | 20.5 | 18.5 | 5.5 |
| 3 Transport | 15,170 | - | 3.3 | 0.6 | 165.1 | 918.1 | 195.3 |
| 4 Other Sectors | 8,168 | - | 8.2 | 2.0 | 50.3 | 237.6 | 21.3 |
| 5 Other | 440 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 0 | - | 44.2 | 0.0 | 0.5 | 1.0 | 26.6 |
| 1 Solid Fuels | 0 | - | 44.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 0.1 | 0.0 | 0.5 | 1.0 | 26.6 |
| 2 Industrial Processes | 7,804 | - | 0.0 | 2.3 | 30.9 | 33.2 | 2.5 |
| A Mineral Products | 6,984 | - | 0.0 | 0.0 | 29.1 | 0.0 | 0.2 |
| B Chemical Industry | 470 | - | 0.0 | 2.3 | 1.3 | 2.5 | 1.7 |
| C Metal Production | 350 | - | 0.0 | 0.0 | 0.5 | 30.5 | 0.0 |
| D Other Production | 0 | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.6 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 186 | - | - | 0.0 | - | - | 59.7 |
| 4 Agriculture | 0 | - | 270.6 | 20.6 | 4.6 | 111.9 | 50.2 |
| A Enteric Fermentation | - | - | 139.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | - | - | 23.7 | 0.4 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | - | - | 4.8 | 0.1 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | - | - | 97.0 | 20.0 | 0.0 | 0.0 | 29.7 |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | - | - | 5.3 | 0.1 | 4.6 | 111.9 | 20.6 |
| G Other | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Other | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 103 | - | 109.0 | 0.3 | 1.7 | 11.7 | 8.3 |
| A Solid Waste Disposal on Land | 0 | - | 102.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 103 | - | 1.0 | 0.3 | 1.7 | 11.7 | 8.3 |
| D Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 10,423 | - | 1.2 | 0.6 | 215.9 | 55.7 | 11.4 |
| Aviation | 2,452 | - | 0.4 | 0.1 | 20.4 | 32.5 | 5.8 |
| Marine | 7,971 | - | 0.8 | 0.5 | 195.5 | 23.2 | 5.7 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Climate Change Emissions Inventory, National Inventory for Greenhouse and Other Gases for the years 1990 - 1996",
Ministry for the Environment, Physical Planning and Public Works, Athens, June 1998.

Greece 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Greece 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 88,721 | 0 | 449.5 | 28.9 | 358.1 | 1,295.8 | 389.1 |
| 1 Energy | 81,111 | - | 61.8 | 7.1 | 320.5 | 1,124.5 | 273.2 |
| A Fuel Combustion | 81,111 | - | 13.6 | 7.1 | 319.9 | 1,123.4 | 245.6 |
| 1 Energy Industries | 47,119 | - | 0.2 | 2.9 | 80.3 | 6.2 | 4.1 |
| 2 Manufacturing Industries and Construction | 9,027 | - | 2.5 | 1.3 | 19.6 | 13.2 | 6.8 |
| 3 Transport | 16,728 | - | 3.7 | 1.0 | 172.5 | 881.5 | 215.3 |
| 4 Other Sectors | 8,046 | - | 7.2 | 1.9 | 47.4 | 222.4 | 19.4 |
| 5 Other | 192 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 0 | - | 48.2 | 0.0 | 0.6 | 1.2 | 27.7 |
| 1 Solid Fuels | 0 | - | 48.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 0.1 | 0.0 | 0.6 | 1.2 | 27.7 |
| 2 Industrial Processes | 7,325 | - | 0.0 | 1.8 | 30.5 | 24.4 | 1.0 |
| A Mineral Products | 7,046 | - | 0.0 | 0.0 | 29.1 | 0.0 | 0.0 |
| B Chemical Industry | 0 | - | 0.0 | 1.8 | 1.0 | 0.0 | 0.2 |
| C Metal Production | 279 | - | 0.0 | 0.0 | 0.4 | 24.3 | 0.0 |
| D Other Production | 0 | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.8 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 180 | - | - | 0.0 | - | - | 57.7 |
| 4 Agriculture | 0 | - | 275.7 | 19.8 | 5.4 | 134.9 | 48.6 |
| A Enteric Fermentation | - | - | 140.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | - | - | 26.1 | 0.5 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | - | - | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | - | - | 96.0 | 19.1 | 0.0 | 0.0 | 29.4 |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | - | - | 6.4 | 0.1 | 5.4 | 134.9 | 19.2 |
| G Other | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 0 | 0 | - | - | - | - | - |
| E Other | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 106 | - | 112.0 | 0.3 | 1.7 | 12.0 | 8.6 |
| A Solid Waste Disposal on Land | 0 | - | 104.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 106 | - | 1.0 | 0.3 | 1.7 | 12.0 | 8.6 |
| D Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 13,203 | - | 1.6 | 0.8 | 279.5 | 71.7 | 14.5 |
| Aviation | 2,787 | - | 0.6 | 0.1 | 24.3 | 41.5 | 7.1 |
| Marine | 10,416 | - | 1.0 | 0.7 | 255.2 | 30.2 | 7.4 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Climate Change Emissions Inventory, National Inventory for Greenhouse and Other Gases for the years 1990 - 1996",
Ministry for the Environment, Physical Planning and Public Works, Athens, June 1998.

Greece 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Greece 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 90,306 | 0 | 454.0 | 28.1 | 357.7 | 1,317.5 | 397.2 |
| 1 Energy | 82,110 | - | 62.8 | 7.4 | 319.0 | 1,153.5 | 281.7 |
| A Fuel Combustion | 82,110 | - | 13.7 | 7.4 | 318.3 | 1,152.1 | 251.7 |
| 1 Energy Industries | 47,148 | - | 0.2 | 3.2 | 79.3 | 5.9 | 4.1 |
| 2 Manufacturing Industries and Construction | 9,781 | - | 2.5 | 1.4 | 21.2 | 14.4 | 6.8 |
| 3 Transport | 16,850 | - | 3.9 | 1.0 | 173.0 | 909.5 | 221.9 |
| 4 Other Sectors | 8,132 | - | 7.2 | 1.8 | 44.8 | 222.3 | 19.0 |
| 5 Other | 198 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 0 | - | 49.1 | 0.0 | 0.7 | 1.4 | 29.9 |
| 1 Solid Fuels | 0 | - | 49.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 0.1 | 0.0 | 0.7 | 1.4 | 29.9 |
| 2 Industrial Processes | 7,912 | - | 0.0 | 1.8 | 32.0 | 24.8 | 1.9 |
| A Mineral Products | 7,392 | - | 0.0 | 0.0 | 30.5 | 0.0 | 0.0 |
| B Chemical Industry | 251 | - | 0.0 | 1.8 | 1.0 | 1.3 | 1.0 |
| C Metal Production | 268 | - | 0.0 | 0.0 | 0.4 | 23.4 | 0.0 |
| D Other Production | 0 | - | 0.0 | 0.0 | 0.0 | 0.2 | 0.9 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 179 | - | - | 0.0 | - | - | 57.6 |
| 4 Agriculture | 0 | - | 279.0 | 18.6 | 5.0 | 127.1 | 47.4 |
| A Enteric Fermentation | - | - | 142.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | - | - | 27.6 | 0.5 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | - | - | 7.4 | 0.1 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | - | - | 95.6 | 17.9 | 0.0 | 0.0 | 29.3 |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | - | - | 6.1 | 0.1 | 5.0 | 127.1 | 18.2 |
| G Other | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 0 | 0 | - | - | - | - | - |
| E Other | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 106 | - | 112.2 | 0.3 | 1.7 | 12.0 | 8.6 |
| A Solid Waste Disposal on Land | 0 | - | 104.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 106 | - | 1.0 | 0.3 | 1.7 | 12.0 | 8.6 |
| D Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 13,812 | - | 1.7 | 0.8 | 297.3 | 73.1 | 14.8 |
| Aviation | 2,613 | - | 0.6 | 0.1 | 23.2 | 40.6 | 6.9 |
| Marine | 11,199 | - | 1.1 | 0.7 | 274.1 | 32.5 | 7.9 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Climate Change Emissions Inventory, National Inventory for Greenhouse and Other Gases for the years 1990 - 1996",
Ministry for the Environment, Physical Planning and Public Works, Athens, June 1998.

Greece 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Greece 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 91,978 | 0 | 457.0 | 29.3 | 373.5 | 1,333.5 | 409.0 |
| 1 Energy | 83,582 | - | 64.9 | 7.8 | 333.9 | 1,169.5 | 293.4 |
| A Fuel Combustion | 83,582 | - | 14.0 | 7.8 | 333.3 | 1,168.3 | 261.1 |
| 1 Energy Industries | 45,541 | - | 0.2 | 3.0 | 82.9 | 7.1 | 4.0 |
| 2 Manufacturing Industries and Construction | 10,653 | - | 2.5 | 1.5 | 23.3 | 15.2 | 7.4 |
| 3 Transport | 17,253 | - | 4.0 | 1.1 | 171.7 | 915.5 | 229.3 |
| 4 Other Sectors | 10,039 | - | 7.3 | 2.2 | 55.3 | 230.5 | 20.4 |
| 5 Other | 96 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 0 | - | 50.9 | 0.0 | 0.6 | 1.2 | 32.2 |
| 1 Solid Fuels | 0 | - | 50.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 0.1 | 0.0 | 0.6 | 1.2 | 32.2 |
| 2 Industrial Processes | 8,111 | - | 0.0 | 1.8 | 32.8 | 24.8 | 1.9 |
| A Mineral Products | 7,592 | - | 0.0 | 0.0 | 31.4 | 0.0 | 0.0 |
| B Chemical Industry | 251 | - | 0.0 | 1.8 | 1.0 | 1.3 | 1.0 |
| C Metal Production | 268 | - | 0.0 | 0.0 | 0.4 | 23.4 | 0.0 |
| D Other Production | 0 | - | 0.0 | 0.0 | 0.0 | 0.2 | 0.9 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 180 | - | - | 0.0 | - | - | 57.8 |
| 4 Agriculture | 0 | - | 279.6 | 19.5 | 5.0 | 127.1 | 47.3 |
| A Enteric Fermentation | - | - | 142.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | - | - | 27.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | - | - | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | - | - | 95.2 | 18.7 | 0.0 | 0.0 | 29.2 |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | - | - | 6.1 | 0.1 | 5.0 | 127.1 | 18.2 |
| G Other | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | 0 | 0 | - | - | - | - | - |
| E Other | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 106 | - | 112.5 | 0.3 | 1.7 | 12.1 | 8.6 |
| A Solid Waste Disposal on Land | 0 | - | 105.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 106 | - | 1.0 | 0.3 | 1.7 | 12.1 | 8.6 |
| D Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 12,432 | - | 1.5 | 0.8 | 263.6 | 71.4 | 13.5 |
| Aviation | 2,582 | - | 0.5 | 0.1 | 22.3 | 40.7 | 6.5 |
| Marine | 9,850 | - | 1.0 | 0.6 | 241.3 | 30.8 | 7.0 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Climate Change Emissions Inventory, National Inventory for Greenhouse and Other Gases for the years 1990 - 1996",
Ministry for the Environment, Physical Planning and Public Works, Athens, June 1998.

HFC/PFC/SF₆ emissions in Greece 1990, 1994-96

| Greece 1990 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.080 | - | 0.075 | - | 0.000 |
| 2 Industrial Processes | - | 0.080 | - | 0.075 | - | 0.000 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | 0.000 | - | 0.100 | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | 0.100 | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | 0.000 |

| Greece 1994 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.183 | - | 0.059 | - | 0.000 |
| 2 Industrial Processes | - | 0.183 | - | 0.059 | - | 0.000 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | 0.000 | - | 0.100 | - | 0.000 |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | 0.200 | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | 0.000 |

| Greece 1995 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.278 | - | 0.057 | - | 0.000 |
| 2 Industrial Processes | - | 0.278 | - | 0.057 | - | 0.000 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | 0.000 | - | 0.100 | - | 0.000 |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | 0.300 | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | 0.000 |

| Greece 1996 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.320 | - | 0.057 | - | 0.000 |
| 2 Industrial Processes | - | 0.320 | - | 0.057 | - | 0.000 |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | 0.100 | - | 0.000 |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | 0.300 | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | 0.000 |

Ref.: "Climate Change Emissions Inventory, National Inventory for Greenhouse and Other Gases for the years 1990 - 1996", Ministry for the Environment, Physical Planning and Public Works, Athens, June 1998.

Ireland 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Ireland 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 30,719 | 5,160 | 811.3 | 29.4 | 114.6 | 429.0 | 180.0 |
| 1 Energy | 29,038 | - | 15.5 | 2.8 | 112.2 | 390.1 | 74.7 |
| A Fuel Combustion | 29,038 | - | 5.3 | 2.8 | 112.2 | 390.1 | 71.6 |
| 1 Energy Industries | 10,863 | - | 0.0 | 1.4 | 46.4 | 3.3 | 0.3 |
| 2 Manufacturing Industries and Construction | 5,431 | - | 0.2 | 0.4 | 11.3 | 0.9 | 0.3 |
| 3 Transport | 4,885 | - | 1.2 | 0.2 | 45.3 | 305.3 | 62.6 |
| 4 Other Sectors | 7,859 | - | 3.9 | 0.8 | 9.3 | 80.6 | 8.4 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 0 | - | 10.2 | 0.0 | 0.0 | 0.0 | 3.1 |
| 1 Solid Fuels | 0 | - | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 9.9 | 0.0 | 0.0 | 0.0 | 3.1 |
| 2 Industrial Processes | 1,627 | - | 0.0 | 2.6 | 1.7 | 0.0 | 0.7 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 21.4 |
| 4 Agriculture | 0 | - | 640.3 | 23.3 | 0.7 | 38.3 | 82.8 |
| A Enteric Fermentation | 0 | - | 551.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 52.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 35.1 | 23.3 | 0.0 | 0.0 | 78.5 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 1.8 | 0.0 | 0.7 | 38.3 | 4.3 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | 5,160 | 19.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 5,160 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | 0 | - | 19.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 6 Waste | 54 | - | 136.0 | 0.0 | 0.1 | 0.6 | 0.5 |
| A Solid Waste Disposal on Land | 0 | - | 136.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 54 | - | 0.0 | 0.0 | 0.1 | 0.6 | 0.5 |
| D Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 1,172 | - | 0.1 | 0.0 | 5.4 | 2.2 | 0.4 |
| Aviation | 1,072 | - | 0.1 | 0.0 | 5.3 | 2.2 | 0.4 |
| Marine | 100 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ₂ Emissions from Biomass | 0 | - | - | - | - | - | - |

Ref: "Ireland: Greenhouse Gas Inventories and Projections", Department of the Environment and Local Government, 22 July 1998.

Note: Ireland delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Ireland 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Ireland 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 33,324 | 5,970 | 807.2 | 26.0 | 115.6 | 329.6 | 174.4 |
| 1 Energy | 31,443 | 0 | 14.8 | 3.5 | 115.2 | 329.0 | 69.8 |
| A Fuel Combustion | 31,443 | 0 | 4.1 | 3.5 | 115.2 | 329.0 | 65.4 |
| 1 Energy Industries | 12,574 | 0 | 0.0 | 1.6 | 45.4 | 3.4 | 0.3 |
| 2 Manufacturing Industries and Construction | 3,640 | 0 | 0.1 | 0.4 | 9.9 | 1.6 | 0.2 |
| 3 Transport | 5,811 | 0 | 1.2 | 0.5 | 47.7 | 262.3 | 58.7 |
| 4 Other Sectors | 9,418 | 0 | 2.7 | 1.0 | 12.2 | 61.7 | 6.3 |
| 5 Other | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 0 | 0 | 10.7 | 0.0 | 0.0 | 0.0 | 4.4 |
| 1 Solid Fuels | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | 0 | 10.7 | 0.0 | 0.0 | 0.0 | 4.4 |
| 2 Industrial Processes | 1,827 | 0 | 0.0 | 2.6 | 0.3 | 0.0 | 0.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 |
| 4 Agriculture | 0 | 0 | 633.3 | 19.1 | 0.0 | 0.0 | 58.9 |
| A Enteric Fermentation | 0 | 0 | 548.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | 0 | 55.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | 0 | 29.5 | 19.1 | 0.0 | 0.0 | 58.9 |
| E Prescribed Burning of Savannas | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | 5,970 | 23.2 | 0.8 | 0.0 | 0.0 | 23.2 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 5,970 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | 0 | 0 | 23.2 | 0.8 | 0.0 | 0.0 | 23.2 |
| 6 Waste | 54 | 0 | 136.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| A Solid Waste Disposal on Land | 0 | 0 | 136.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 54 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| D Other | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 1,350 | - | 0.0 | 0.0 | 8.6 | 4.4 | 1.1 |
| Aviation | 1,250 | - | 0.0 | 0.0 | 1.8 | 3.4 | 0.8 |
| Marine | 100 | - | 0.0 | 0.0 | 6.8 | 1.1 | 0.2 |
| CO ₂ Emissions from Biomass | 0 | - | - | - | - | - | - |

Ref.: "Ireland: Second Communication under the United Nations Framework Convention on Climate Change".

Note: Ireland delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Ireland 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Ireland 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 34,116 | 6,230 | 814.2 | 26.2 | 113.1 | 302.4 | 174.7 |
| 1 Energy | 32,290 | - | 15.6 | 3.6 | 112.8 | 301.8 | 69.8 |
| A Fuel Combustion | 32,290 | - | 4.5 | 3.6 | 112.8 | 301.8 | 65.2 |
| 1 Energy Industries | 13,374 | - | 0.0 | 1.7 | 42.0 | 3.6 | 0.3 |
| 2 Manufacturing Industries and Construction | 3,452 | - | 0.1 | 0.4 | 9.6 | 1.5 | 0.1 |
| 3 Transport | 6,198 | - | 1.9 | 0.6 | 49.2 | 238.9 | 59.2 |
| 4 Other Sectors | 9,266 | - | 2.5 | 1.0 | 12.0 | 57.9 | 5.7 |
| 5 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 0 | - | 11.1 | 0.0 | 0.0 | 0.0 | 4.5 |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 11.1 | 0.0 | 0.0 | 0.0 | 4.5 |
| 2 Industrial Processes | 1,772 | - | 0.0 | 2.6 | 0.3 | 0.0 | 0.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 20.0 |
| 4 Agriculture | 0 | - | 636.9 | 19.1 | 0.0 | 0.0 | 58.9 |
| A Enteric Fermentation | 0 | - | 551.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 55.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 29.5 | 19.1 | 0.0 | 0.0 | 58.9 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | 6,230 | 25.8 | 0.9 | 0.0 | 0.0 | 25.5 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 6,230 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | 0 | 0 | 25.8 | 0.9 | 0.0 | 0.0 | 25.5 |
| 6 Waste | 54 | - | 136.0 | 0.0 | 0.1 | 0.6 | 0.5 |
| A Solid Waste Disposal on Land | 0 | - | 136.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 54 | - | 0.0 | 0.0 | 0.1 | 0.6 | 0.5 |
| D Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 1,510 | - | 0.0 | 0.0 | 12.3 | 5.0 | 1.2 |
| Aviation | 1,410 | - | - | - | 12.3 | 5.0 | 1.2 |
| Marine | 100 | - | - | - | IE | IE | IE |
| CO ₂ Emissions from Biomass | 0 | - | - | - | - | - | - |

Ref: "Ireland: Greenhouse Gas Inventories and Projections", Department of the Environment and Local Government, 22 July 1998.

Note: Ireland delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Ireland 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----|-------|
| Ireland 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 34,819 | 6,497 | 799.7 | 26.2 | - | - | - |
| 1 Energy | 33,027 | - | 16.1 | 3.7 | - | - | - |
| A Fuel Combustion | 33,027 | - | 3.9 | 3.7 | - | - | - |
| 1 Energy Industries | 14,087 | - | 0.0 | 1.8 | - | - | - |
| 2 Manufacturing Industries and Construction | 3,446 | - | 0.1 | 0.4 | - | - | - |
| 3 Transport | 6,538 | - | 1.9 | 0.6 | - | - | - |
| 4 Other Sectors | 8,956 | - | 1.9 | 1.0 | - | - | - |
| 5 Other | 0 | - | 0.0 | 0.0 | - | - | - |
| B Fugitive Emissions from Fuels | 0 | - | 12.2 | 0.0 | - | - | - |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | - | - | - |
| 2 Oil and Natural Gas | 0 | - | 12.2 | 0.0 | - | - | - |
| 2 Industrial Processes | 1,738 | - | 0.0 | 2.6 | - | - | - |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 0 | - | 0.0 | 0.0 | - | - | - |
| 4 Agriculture | 0 | - | 654.7 | 19.0 | - | - | - |
| A Enteric Fermentation | 0 | - | 567.1 | 0.0 | - | - | - |
| B Manure Management | 0 | - | 58.3 | 0.0 | - | - | - |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | - | - | - |
| D Agricultural Soils | 0 | - | 29.3 | 19.0 | - | - | - |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | - | - | - |
| F Field Burning of Agricultural Residues | 0 | - | 0.0 | 0.0 | - | - | - |
| G Other | 0 | - | 0.0 | 0.0 | - | - | - |
| 5 Land-Use Change & Forestry | 0 | 6,497 | 26.9 | 0.9 | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 6,497 | 0.0 | 0.0 | - | - | - |
| B Forest and Grassland Conversion | 0 | 0 | 0.0 | 0.0 | - | - | - |
| C Abandonment of Managed Lands | 0 | 0 | 0.0 | 0.0 | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | 0 | 0 | 26.9 | 0.9 | - | - | - |
| 6 Waste | 54 | - | 102.0 | 0.0 | - | - | - |
| A Solid Waste Disposal on Land | 0 | - | 102.0 | 0.0 | - | - | - |
| B Wastewater Handling | 0 | - | 0.0 | 0.0 | - | - | - |
| C Waste Incineration | 54 | - | 0.0 | 0.0 | - | - | - |
| D Other | 0 | - | 0.0 | 0.0 | - | - | - |
| 7 Other | 0 | - | 0.0 | 0.0 | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 1,605 | - | 0.0 | 0.0 | - | - | - |
| Aviation | 1,605 | - | - | - | - | - | - |
| Marine | IE | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | 0 | - | - | - | - | - | - |

Ref.: "Ireland: Greenhouse Gas Inventories and Projections", Department of the Environment and Local Government, 22 July 1998.

Note: Ireland delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Italy 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Italy 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 441,653 | 35,891 | 2,328.7 | 164.5 | 1,942.8 | 7,892.2 | 2,221.6 |
| 1 Energy | 400,504 | - | 405.4 | 44.6 | 1,922.5 | 7,078.6 | 1,325.9 |
| A Fuel Combustion | 399,590 | - | 96.5 | 44.6 | 1,917.4 | 7,069.8 | 1,179.4 |
| 1 Energy Industries | 148,445 | - | 5.0 | 19.9 | 458.6 | 30.9 | 5.2 |
| 2 Manufacturing Industries and Construction | 78,117 | - | 8.1 | 9.5 | 295.5 | 522.7 | 15.4 |
| 3 Transport | 95,063 | - | 61.7 | 3.6 | 965.9 | 5,685.7 | 1,048.9 |
| 4 Other Sectors | 76,805 | - | 21.4 | 11.6 | 186.0 | 806.6 | 105.3 |
| 5 Other | 1,159 | - | 0.2 | 0.0 | 11.4 | 23.9 | 4.7 |
| B Fugitive Emissions from Fuels | 914 | - | 309.0 | 0.0 | 5.1 | 8.8 | 146.5 |
| 1 Solid Fuels | - | - | 5.0 | - | - | - | 3.0 |
| 2 Oil and Natural Gas | 914 | - | 304.0 | - | 5.1 | 8.8 | 143.5 |
| 2 Industrial Processes | 27,520 | - | 4.4 | 23.5 | 7.2 | 527.5 | 72.5 |
| A Mineral Products | 22,715 | - | - | - | - | - | - |
| B Chemical Industry | 2,350 | - | 2.3 | 23.5 | 3.8 | 15.5 | 49.6 |
| C Metal Production | 1,977 | - | 2.1 | - | 3.3 | 512.0 | 2.8 |
| D Other Production | 478 | - | - | - | 0.1 | - | 20.1 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 1,999 | - | - | - | - | - | 641.5 |
| 4 Agriculture | 0 | - | 909.1 | 75.2 | 0.9 | 24.9 | 1.4 |
| A Enteric Fermentation | - | - | 643.1 | - | - | - | - |
| B Manure Management | - | - | 191.5 | 12.9 | - | - | 0.7 |
| C Rice Cultivation | - | - | 73.3 | - | - | - | - |
| D Agricultural Soils | - | - | 0.0 | 62.2 | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | 1.2 | 0.0 | 0.9 | 24.9 | 0.8 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | 10,942 | 35,891 | 187.2 | 20.9 | 1.9 | 67.7 | 159.9 |
| A Changes in Forest and Other Woody Biomass Stocks | 8,736 | 35,817 | - | - | - | - | - |
| B Forest and Grassland Conversion | 2,154 | - | 7.7 | 0.1 | 1.9 | 67.7 | 7.7 |
| C Abandonment of Managed Lands | - | 74 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | 52 | - | - | - | - | - | - |
| E Other | - | - | 179.4 | 20.9 | - | - | 152.2 |
| 6 Waste | 688 | - | 822.7 | 0.3 | 10.2 | 193.4 | 20.4 |
| A Solid Waste Disposal on Land | 0 | - | 302.1 | - | - | - | 6.1 |
| B Wastewater Handling | 0 | - | 511.4 | - | - | - | 1.3 |
| C Waste Incineration | 688 | - | 9.2 | 0.3 | 10.2 | 193.4 | 13.0 |
| D Other | 0 | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 12,204 | - | 1.1 | 0.6 | 206.3 | 23.5 | 8.2 |
| Aviation | 3,737 | - | 0.3 | 0.1 | 12.0 | 3.5 | 2.5 |
| Marine | 8,467 | - | 0.8 | 0.5 | 194.3 | 20.0 | 5.7 |
| CO ₂ Emissions from Biomass | 3,100 | - | - | - | - | - | - |

Ref.: "Excerpt from the Second National Communication to the United Nations Framework Convention on Climate Change", Ministry of Environment, Department for Air and Noise Pollution and Industrial Risk, submitted to Commission on 24 March 1998.

Note: The Second National Communication includes CO₂ emissions from geothermal activity (National Total: 443,092 Gg).

Italy 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Italy 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 422,365 | 36,395 | 2,557.6 | 160.4 | 1,791.1 | 7,570.6 | 2,354.7 |
| 1 Energy | 385,395 | - | 458.5 | 41.7 | 1,769.9 | 6,951.3 | 1,458.1 |
| A Fuel Combustion | 384,232 | - | 106.2 | 41.7 | 1,764.2 | 6,942.9 | 1,303.7 |
| 1 Energy Industries | 129,069 | - | 4.6 | 18.7 | 346.6 | 27.9 | 4.6 |
| 2 Manufacturing Industries and Construction | 81,071 | - | 7.3 | 7.7 | 246.0 | 516.6 | 14.9 |
| 3 Transport | 102,221 | - | 70.4 | 5.4 | 961.4 | 5,656.4 | 1,180.3 |
| 4 Other Sectors | 69,717 | - | 23.7 | 9.8 | 189.5 | 711.5 | 96.6 |
| 5 Other | 2,153 | - | 0.3 | 0.1 | 20.7 | 30.5 | 7.3 |
| B Fugitive Emissions from Fuels | 1,163 | - | 352.2 | 0.0 | 5.7 | 8.4 | 154.4 |
| 1 Solid Fuels | - | - | 3.4 | - | - | - | 2.7 |
| 2 Oil and Natural Gas | 1,163 | - | 348.8 | - | 5.7 | 8.4 | 151.7 |
| 2 Industrial Processes | 22,852 | - | 4.5 | 20.6 | 4.8 | 290.5 | 70.5 |
| A Mineral Products | 19,077 | - | - | - | - | - | - |
| B Chemical Industry | 2,214 | - | 2.3 | 20.6 | 1.4 | 11.1 | 47.9 |
| C Metal Production | 1,022 | - | 2.3 | - | 3.3 | 279.3 | 2.9 |
| D Other Production | 539 | - | - | - | 0.0 | - | 19.7 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 1,976 | - | - | - | - | - | 634.1 |
| 4 Agriculture | 0 | - | 915.1 | 75.9 | 0.9 | 25.2 | 1.9 |
| A Enteric Fermentation | - | - | 607.2 | - | - | - | - |
| B Manure Management | - | - | 181.9 | 12.4 | - | - | 0.6 |
| C Rice Cultivation | - | - | 124.8 | - | - | - | - |
| D Agricultural Soils | - | - | 0.0 | 63.5 | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | 1.2 | 0.0 | 0.9 | 25.2 | 1.2 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | 11,421 | 36,395 | 192.4 | 21.6 | 0.7 | 23.1 | 163.9 |
| A Changes in Forest and Other Woody Biomass Stocks | 10,344 | 35,947 | - | - | - | - | - |
| B Forest and Grassland Conversion | 1,077 | - | 2.6 | 0.0 | 0.7 | 23.1 | 2.6 |
| C Abandonment of Managed Lands | - | 133 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | 316 | - | - | - | - | - |
| E Other | - | - | 189.7 | 21.6 | - | - | 161.3 |
| 6 Waste | 721 | - | 987.1 | 0.5 | 14.9 | 280.5 | 26.2 |
| A Solid Waste Disposal on Land | 0 | - | 426.5 | - | - | - | 7.7 |
| B Wastewater Handling | 0 | - | 511.4 | - | - | - | 1.3 |
| C Waste Incineration | 721 | - | 13.4 | 0.5 | 14.9 | 280.5 | 17.3 |
| D Other | 0 | - | 35.8 | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 12,416 | - | 1.1 | 0.7 | 185.7 | 22.0 | 8.3 |
| Aviation | 4,926 | - | 0.4 | 0.2 | 15.6 | 4.5 | 3.3 |
| Marine | 7,491 | - | 0.7 | 0.5 | 170.1 | 17.5 | 5.0 |
| CO ₂ Emissions from Biomass | 4,178 | - | - | - | - | - | - |

Ref.: "Excerpt from the Second National Communication to the United Nations Framework Convention on Climate Change", Ministry of Environment, Department for Air and Noise Pollution and Industrial Risk, submitted to Commission on 24 March 1998.

Note: The Second National Communication includes CO₂ emissions from geothermal activity (National Total: 423,870 Gg).

Italy 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Italy 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 447,644 | 36,199 | 2,515.6 | 161.8 | 1,848.6 | 7,785.7 | 2,374.7 |
| 1 Energy | 410,278 | - | 467.2 | 44.0 | 1,827.0 | 7,154.9 | 1,489.4 |
| A Fuel Combustion | 409,116 | - | 115.0 | 44.0 | 1,821.3 | 7,146.5 | 1,335.0 |
| 1 Energy Industries | 139,180 | - | 4.9 | 20.0 | 375.6 | 30.1 | 4.9 |
| 2 Manufacturing Industries and Construction | 83,043 | - | 7.3 | 7.9 | 252.9 | 519.7 | 15.2 |
| 3 Transport | 108,842 | - | 77.1 | 5.5 | 990.7 | 5,894.2 | 1,217.3 |
| 4 Other Sectors | 76,481 | - | 25.4 | 10.6 | 190.8 | 685.8 | 93.5 |
| 5 Other | 1,569 | - | 0.1 | 0.1 | 11.3 | 16.7 | 4.1 |
| B Fugitive Emissions from Fuels | 1,163 | - | 352.2 | 0.0 | 5.7 | 8.4 | 154.4 |
| 1 Solid Fuels | - | - | 3.4 | - | - | - | 2.7 |
| 2 Oil and Natural Gas | 1,163 | - | 348.8 | - | 5.7 | 8.4 | 151.7 |
| 2 Industrial Processes | 22,985 | - | 4.6 | 20.4 | 4.8 | 290.8 | 71.1 |
| A Mineral Products | 19,077 | - | - | - | - | - | - |
| B Chemical Industry | 2,335 | - | 2.3 | 20.4 | 1.4 | 11.4 | 48.0 |
| C Metal Production | 1,034 | - | 2.3 | - | 3.3 | 279.3 | 2.9 |
| D Other Production | 539 | - | - | - | 0.0 | - | 20.2 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 1,962 | - | - | - | - | - | 629.5 |
| 4 Agriculture | 0 | - | 871.7 | 75.9 | 0.9 | 25.2 | 1.9 |
| A Enteric Fermentation | - | - | 607.2 | - | - | - | - |
| B Manure Management | - | - | 181.9 | 12.4 | - | - | 0.6 |
| C Rice Cultivation | - | - | 81.4 | - | - | - | - |
| D Agricultural Soils | - | - | 0.0 | 63.5 | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | 1.2 | 0.0 | 0.9 | 25.2 | 1.2 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | 11,692 | 36,199 | 183.3 | 20.9 | 1.0 | 34.2 | 156.1 |
| A Changes in Forest and Other Woody Biomass Stocks | 10,344 | 35,947 | - | - | - | - | - |
| B Forest and Grassland Conversion | 1,348 | - | 3.9 | 0.0 | 1.0 | 34.2 | 3.9 |
| C Abandonment of Managed Lands | - | 157 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | 95 | - | - | - | - | - |
| E Other | - | - | 179.4 | 20.9 | - | - | 152.2 |
| 6 Waste | 727 | - | 988.8 | 0.5 | 14.9 | 280.5 | 26.8 |
| A Solid Waste Disposal on Land | 0 | - | 464.0 | - | - | - | 8.2 |
| B Wastewater Handling | 0 | - | 511.4 | - | - | - | 1.3 |
| C Waste Incineration | 727 | - | 13.4 | 0.5 | 14.9 | 280.5 | 17.3 |
| D Other | 0 | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 13,099 | - | 1.1 | 0.7 | 193.0 | 23.0 | 8.8 |
| Aviation | 5,447 | - | 0.4 | 0.2 | 17.5 | 5.0 | 3.7 |
| Marine | 7,651 | - | 0.7 | 0.5 | 175.5 | 18.0 | 5.1 |
| CO ₂ Emissions from Biomass | 4,279 | - | - | - | - | - | - |

Ref.: "Excerpt from the Second National Communication to the United Nations Framework Convention on Climate Change", Ministry of Environment, Department for Air and Noise Pollution and Industrial Risk, submitted to Commission on 24 March 1998.

Note: The Second National Communication includes CO₂ emissions from geothermal activity (National Total: 449,159 Gg).

Luxembourg 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|-------------|
| Luxembourg 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 13,300 | 0 | 24.0 | 1.0 | 23.0 | 171.0 | 19.0 |
| 1 Energy | 12,600 | - | 2.0 | - | 23.0 | 154.0 | 14.0 |
| A Fuel Combustion | 12,600 | - | 0.0 | - | 23.0 | 154.0 | 12.0 |
| 1 Energy Industries | 1,900 | - | 0.0 | - | 1.0 | 1.0 | - |
| 2 Manufacturing Industries and Construction | 6,600 | - | - | - | 11.0 | 98.0 | 1.0 |
| 3 Transport | 2,900 | - | - | - | 11.0 | 48.0 | 11.0 |
| 4 Other Sectors | 1,100 | - | - | - | 1.0 | 6.0 | 1.0 |
| 5 Other | 100 | - | - | - | - | 1.0 | - |
| B Fugitive Emissions from Fuels | 0 | - | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| 1 Solid Fuels | - | - | - | 0.0 | - | - | - |
| 2 Oil and Natural Gas | - | - | 2.0 | 0.0 | - | - | 2.0 |
| 2 Industrial Processes | 600 | - | 0.0 | 1.0 | 0.0 | 17.0 | 1.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 0 | - | 0.0 | - | 0.0 | 0.0 | 4.0 |
| 4 Agriculture | 0 | - | 18.0 | - | 0.0 | 0.0 | 1.0 |
| A Enteric Fermentation | - | - | 16.0 | - | - | - | - |
| B Manure Management | - | - | 2.0 | - | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | - | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & 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 | 100 | - | 4.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| A Solid Waste Disposal on Land | 1 | - | 4.0 | - | - | - | - |
| B Wastewater Handling | - | - | 1.0 | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | 100 | - | 1.0 | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 300 | - | - | - | - | - | - |
| Aviation | 300 | - | - | - | - | - | - |
| Marine | 0 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Rapport National du Luxembourg en vue de la 1^e Conférence des Parties à la Convention-Cadre des Nations-Unies sur les Changements Climatiques", Ministère de l'Environnement, Mars 1995.

Note: Luxembourg delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Luxembourg 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|-------------|
| Luxembourg 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 11,998 | 0 | 21.9 | 0.7 | 22.4 | 144.7 | 18.5 |
| 1 Energy | 11,520 | - | 2.3 | 0.2 | 22.0 | 131.0 | 12.6 |
| A Fuel Combustion | 11,520 | - | 0.8 | 0.2 | 22.0 | 131.0 | 10.8 |
| 1 Energy Industries | 1,064 | - | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| 2 Manufacturing Industries and Construction | 5,475 | - | 0.1 | 0.0 | 9.7 | 76.3 | 0.3 |
| 3 Transport | 3,685 | - | 0.2 | 0.1 | 10.4 | 44.0 | 9.1 |
| 4 Other Sectors | 1,296 | - | 0.5 | 0.0 | 1.6 | 10.7 | 1.3 |
| 5 Other | - | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 0 | - | 1.5 | 0.0 | 0.0 | 0.0 | 1.8 |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 1.5 | 0.0 | 0.0 | 0.0 | 1.8 |
| 2 Industrial Processes | 447 | - | 0.0 | 0.0 | 0.2 | 13.7 | 1.1 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 12 | - | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 |
| 4 Agriculture | 0 | - | 16.9 | 0.5 | 0.0 | 0.0 | 0.2 |
| A Enteric Fermentation | 0 | - | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 0.0 | 0.5 | 0.0 | 0.0 | 0.2 |
| E Prescribed Burning of Savannas | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 6 Waste | 19 | - | 2.7 | 0.0 | 0.3 | 0.0 | 0.0 |
| A Solid Waste Disposal on Land | 1 | - | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 18 | - | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| D Other | 0 | - | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 194 | - | 0.0 | 0.0 | 0.1 | 0.5 | 0.2 |
| Aviation | 194 | - | 0.0 | 0.0 | 0.1 | 0.5 | 0.2 |
| Marine | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Luxembourg CO₂ emissions in 1994 and 1995", Administration de l'Environnement, Grand Duché de Luxembourg, 29 August 1996.

Note: Luxembourg delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Luxembourg 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|-------------|
| Luxembourg 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 7,078 | 0 | 22.1 | 0.7 | 20.0 | 104.1 | 17.4 |
| 1 Energy | 6,790 | - | 2.4 | 0.2 | 19.5 | 94.7 | 11.8 |
| A Fuel Combustion | 6,790 | - | 0.7 | 0.2 | 19.5 | 94.7 | 10.0 |
| 1 Energy Industries | 820 | - | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| 2 Manufacturing Industries and Construction | 3,474 | - | 0.0 | 0.0 | 7.6 | 43.9 | 0.2 |
| 3 Transport | 1,182 | - | 0.2 | 0.1 | 10.2 | 41.4 | 8.6 |
| 4 Other Sectors | 1,236 | - | 0.5 | 0.0 | 1.5 | 9.4 | 1.2 |
| 5 Other | 78 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 0 | - | 1.8 | 0.0 | 0.0 | 0.0 | 1.8 |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 1.8 | 0.0 | 0.0 | 0.0 | 1.8 |
| 2 Industrial Processes | 271 | - | 0.0 | 0.0 | 0.2 | 9.3 | 0.9 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Metal Production | 266 | - | 0.0 | 0.0 | 0.2 | 9.3 | 0.7 |
| D Other Production | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 5 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 3 Solvent and Other Product Use | 11 | - | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 |
| 4 Agriculture | 0 | - | 16.9 | 0.5 | 0.0 | 0.0 | 0.2 |
| A Enteric Fermentation | - | - | 15.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | - | - | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 0.0 | 0.5 | 0.0 | 0.0 | 0.2 |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 6 Waste | 6 | - | 2.7 | 0.0 | 0.3 | 0.0 | 0.0 |
| A Solid Waste Disposal on Land | 4 | - | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 0 | - | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| D Other | 2 | - | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| Memo Items: | | | | | | | |
| International Bunkers | 194 | - | 0.0 | 0.0 | 0.1 | 0.5 | 0.2 |
| Aviation | 194 | - | 0.0 | 0.0 | 0.1 | 0.5 | 0.2 |
| Marine | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Emissions de CO₂ et autres gaz à effet de serre du Grand-Duché de Luxembourg, informations fournies conformément à la décision du Conseil N° 93/389/EEC", Représentation Permanente du Grand-Duché de Luxembourg auprès de l'Union Européenne, 4 August 1998".

Note: Luxembourg delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Luxembourg 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|-------------|
| Luxembourg 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 7,098 | 295 | 23.9 | 0.7 | 21.9 | 102.3 | 17.4 |
| 1 Energy | 6,837 | - | 2.6 | 0.2 | 21.7 | 94.0 | 12.0 |
| A Fuel Combustion | 6,837 | - | 0.7 | 0.2 | 21.7 | 94.0 | 10.2 |
| 1 Energy Industries | 737 | - | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| 2 Manufacturing Industries and Construction | 3,409 | - | 0.0 | 0.0 | 9.4 | 42.6 | 0.2 |
| 3 Transport | 1,241 | - | 0.2 | 0.1 | 10.5 | 41.2 | 8.7 |
| 4 Other Sectors | 1,375 | - | 0.5 | 0.0 | 1.1 | 9.0 | 1.1 |
| 5 Other | 75 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 0 | - | 1.9 | 0.0 | 0.0 | 0.0 | 1.8 |
| 1 Solid Fuels | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 0 | - | 1.9 | 0.0 | 0.0 | 0.0 | 1.8 |
| 2 Industrial Processes | 236 | - | 0.0 | 0.0 | 0.2 | 8.4 | 0.8 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Metal Production | 231 | - | 0.0 | 0.0 | 0.2 | 8.4 | 0.6 |
| D Other Production | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 5 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 3 Solvent and Other Product Use | 11 | - | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 |
| 4 Agriculture | 0 | - | 17.6 | 0.5 | 0.0 | 0.0 | 0.2 |
| A Enteric Fermentation | - | - | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | - | - | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 0.0 | 0.5 | 0.0 | 0.0 | 0.2 |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| F Field Burning of Agricultural Residues | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 Land-Use Change & Forestry | 0 | 295 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 295 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Forest and Grassland Conversion | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Abandonment of Managed Lands | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 6 Waste | 14 | - | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Solid Waste Disposal on Land | 1 | - | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Wastewater Handling | 0 | - | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Waste Incineration | 13 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Other | 0 | - | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| Memo Items: | | | | | | | |
| International Bunkers | 194 | - | 0.0 | 0.0 | 0.1 | 0.5 | 0.2 |
| Aviation | 194 | - | 0.0 | 0.0 | 0.1 | 0.5 | 0.2 |
| Marine | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Emissions de CO₂ et autres gaz à effet de serre du Grand-Duché de Luxembourg de 1996 et de 1997 (valeurs provisoires pour 1997)", Représentation Permanente du Grand-Duché de Luxembourg auprès de l'Union Européenne, 15 September 1998".

Note: Luxembourg delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Netherlands 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Netherlands 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 161,360 | 1,500 | 1,292.3 | 63.9 | 563.2 | 1,139.2 | 499.8 |
| 1 Energy | 157,950 | - | 213.5 | 5.3 | 545.0 | 979.7 | 266.4 |
| A Fuel Combustion | 157,530 | - | 34.8 | 5.3 | 543.9 | 973.5 | 218.8 |
| 1 Energy Industries | 51,040 | - | 6.7 | 0.5 | 100.7 | 99.3 | 8.5 |
| 2 Manufacturing Industries and Construction | 41,440 | - | 4.0 | 0.1 | 65.7 | 114.2 | 4.7 |
| 3 Transport | 28,560 | - | 7.8 | 4.6 | 336.9 | 748.9 | 200.5 |
| 4 Other Sectors | 35,400 | - | 16.3 | 0.1 | 40.6 | 11.1 | 5.1 |
| 5 Other | 1,100 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 420 | - | 178.8 | - | 1.1 | 6.2 | 47.6 |
| 1 Solid Fuels | - | - | - | - | - | - | - |
| 2 Oil and Natural Gas | 420 | - | 178.8 | - | 1.1 | 6.2 | 47.6 |
| 2 Industrial Processes | 1,880 | - | 3.4 | 31.5 | 13.5 | 153.6 | 130.4 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 10 | - | 0.0 | 0.5 | 0.1 | 2.4 | 101.4 |
| 4 Agriculture | - | - | 505.0 | 22.2 | - | - | 0.2 |
| A Enteric Fermentation | - | - | 402.0 | - | - | - | - |
| B Manure Management | - | - | 103.0 | 0.7 | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | 21.5 | - | - | 0.2 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 1,500 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 1,500 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | 1,520 | - | 568.4 | 0.5 | 4.5 | 3.5 | 1.4 |
| A Solid Waste Disposal on Land | - | - | 562.1 | - | 0.3 | 1.4 | 0.2 |
| B Wastewater Handling | - | - | 6.3 | 0.5 | - | - | - |
| C Waste Incineration | 1,520 | - | 0.0 | 0.1 | 4.2 | 2.1 | 1.3 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | 2.0 | 3.8 | - | - | - |
| Memo Items: | | | | | | | |
| Nature | - | - | 125.0 | 2.4 | 16.3 | 26.7 | 3.2 |
| International Bunkers | 40,400 | - | - | - | - | - | - |
| Aviation | 4,500 | - | - | - | - | - | - |
| Marine | 35,900 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | 3,080 | - | - | - | - | - | - |

Ref.: "Greenhouse gas emissions in the Netherlands 1990-1996: Updated methodology. A report on the International Commitments with respect to Greenhouse Gas Emission Inventories for the United Nations Framework Convention on Climate Change and the European Union's Greenhouse Gas Monitoring Mechanism", National Institute of Public Health and the Environment, Bilthoven, The Netherlands, December 1997.

Note: The Netherlands delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Netherlands 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|--------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Netherlands 1994 | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Greenhouse Gas Source and Sink Categories | | | | | | | |
| Total National Emissions and Removals | 168,390 | 1,700 | 1,203.0 | 70.1 | 493.3 | 905.1 | 387.6 |
| 1 Energy | 165,750 | - | 202.3 | 7.2 | 479.6 | 797.0 | 215.8 |
| A Fuel Combustion | 165,560 | - | 33.7 | 6.9 | 479.1 | 789.4 | 173.5 |
| 1 Energy Industries | 54,780 | - | 7.6 | 0.1 | 80.7 | 103.3 | 9.1 |
| 2 Manufacturing Industries and Construction | 40,950 | - | 2.6 | 0.1 | 54.4 | 114.3 | 2.6 |
| 3 Transport | 30,800 | - | 6.3 | 6.6 | 304.4 | 559.9 | 156.5 |
| 4 Other Sectors | 38,500 | - | 17.3 | 0.1 | 39.5 | 11.9 | 5.3 |
| 5 Other | 530 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 190 | - | 168.5 | 0.4 | 0.5 | 7.6 | 42.3 |
| 1 Solid Fuels | - | - | - | - | - | - | - |
| 2 Oil and Natural Gas | 190 | - | 168.5 | 0.4 | 0.5 | 7.6 | 42.3 |
| 2 Industrial Processes | 1,430 | - | 5.3 | 31.6 | 10.4 | 101.7 | 88.2 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 10 | - | 0.3 | 0.5 | 0.1 | 2.1 | 82.3 |
| 4 Agriculture | - | - | 483.0 | 26.4 | - | - | 0.2 |
| A Enteric Fermentation | - | - | 382.0 | - | - | - | - |
| B Manure Management | - | - | 101.0 | 0.8 | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | 25.6 | - | - | 0.2 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 1,700 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 1,700 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | 1,200 | - | 510.2 | 0.5 | 3.2 | 4.3 | 1.2 |
| A Solid Waste Disposal on Land | - | - | 505.1 | - | 0.3 | 1.4 | 0.2 |
| B Wastewater Handling | - | - | 5.1 | 0.5 | - | - | - |
| C Waste Incineration | 1,200 | - | 0.0 | 0.1 | 2.9 | 2.9 | 1.0 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | 2.0 | 3.8 | - | - | - |
| Memo Items: | | | | | | | |
| Nature | - | - | 125.0 | 2.4 | 16.3 | 26.7 | 3.2 |
| International Bunkers | 43,200 | - | - | - | - | - | - |
| Aviation | 6,700 | - | - | - | - | - | - |
| Marine | 36,500 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | 3,500 | - | - | - | - | - | - |

Ref.: "Greenhouse gas emissions in the Netherlands 1990-1996: Updated methodology. A report on the International Commitments with respect to Greenhouse Gas Emission Inventories for the United Nations Framework Convention on Climate Change and the European Union's Greenhouse Gas Monitoring Mechanism", National Institute of Public Health and the Environment, Bilthoven, The Netherlands, December 1997.

Note: The Netherlands delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Netherlands 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|--------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Netherlands 1995 | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Greenhouse Gas Source and Sink Categories | | | | | | | |
| Total National Emissions and Removals | 176,910 | 1,700 | 1,173.0 | 71.9 | 481.0 | 890.0 | 363.0 |
| 1 Energy | 173,730 | - | 209.0 | 7.9 | 468.0 | 788.0 | 215.0 |
| A Fuel Combustion | 173,530 | - | 35.2 | 7.9 | 467.3 | 778.9 | 170.0 |
| 1 Energy Industries | 56,700 | - | 8.7 | 0.5 | 77.5 | 105.9 | 11.0 |
| 2 Manufacturing Industries and Construction | 42,710 | - | 2.7 | 0.1 | 52.0 | 117.9 | 2.7 |
| 3 Transport | 31,860 | - | 6.2 | 7.2 | 297.4 | 541.2 | 150.8 |
| 4 Other Sectors | 39,780 | - | 17.6 | 0.1 | 40.4 | 13.8 | 5.5 |
| 5 Other | 2,490 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 200 | - | 174.0 | - | 0.6 | 9.5 | 44.7 |
| 1 Solid Fuels | - | - | - | - | - | - | - |
| 2 Oil and Natural Gas | 200 | - | 174.0 | - | 0.6 | 9.5 | 44.7 |
| 2 Industrial Processes | 1,750 | - | 5.0 | 31.6 | 10.5 | 98.0 | 76.3 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 50 | - | 0.0 | 0.4 | 0.1 | 2.1 | 70.5 |
| 4 Agriculture | - | - | 476.0 | 27.6 | - | - | 0.2 |
| A Enteric Fermentation | - | - | 377.0 | - | - | - | - |
| B Manure Management | - | - | 99.0 | 0.8 | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | 26.8 | - | - | 0.2 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 1,700 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 1,700 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | 1,380 | - | 480.6 | 0.5 | 2.8 | 1.8 | 1.2 |
| A Solid Waste Disposal on Land | - | - | 479.1 | - | 0.3 | 1.4 | 0.2 |
| B Wastewater Handling | 130 | - | 1.5 | 0.5 | - | - | - |
| C Waste Incineration | 1,250 | - | 0.0 | 0.0 | 2.4 | 0.4 | 1.1 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | 2.0 | 3.8 | - | - | - |
| Memo Items: | | | | | | | |
| Nature | - | - | 125.0 | 2.4 | 16.3 | 26.7 | 3.2 |
| International Bunkers | 44,600 | - | - | - | - | - | - |
| Aviation | 7,100 | - | - | - | - | - | - |
| Marine | 37,500 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | 3,630 | - | - | - | - | - | - |

Ref.: "Greenhouse gas emissions in the Netherlands 1990-1996: Updated methodology. A report on the International Commitments with respect to Greenhouse Gas Emission Inventories for the United Nations Framework Convention on Climate Change and the European Union's Greenhouse Gas Monitoring Mechanism", National Institute of Public Health and the Environment, Bilthoven, The Netherlands, December 1997.

Note: The Netherlands delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Netherlands 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|--------------|--------------|
| Netherlands 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOc |
| Total National Emissions and Removals | 184,870 | 1,700 | 1,178.9 | 72.4 | 471.4 | 860.3 | 347.3 |
| 1 Energy | 181,870 | - | 230.8 | 8.5 | 460.0 | 761.2 | 208.3 |
| A Fuel Combustion | 181,730 | - | 39.3 | 8.5 | 459.5 | 754.1 | 167.2 |
| 1 Energy Industries | 56,340 | - | 10.2 | 0.5 | 77.4 | 107.3 | 13.5 |
| 2 Manufacturing Industries and Construction | 42,680 | - | 2.7 | 0.1 | 51.4 | 116.6 | 2.9 |
| 3 Transport | 33,370 | - | 6.0 | 7.8 | 284.3 | 515.2 | 144.3 |
| 4 Other Sectors | 45,880 | - | 20.4 | 0.1 | 46.4 | 15.1 | 6.5 |
| 5 Other | 3,460 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 140 | - | 191.6 | - | 0.4 | 7.1 | 41.1 |
| 1 Solid Fuels | - | - | - | - | - | - | - |
| 2 Oil and Natural Gas | 140 | - | 191.6 | - | 0.4 | 7.1 | 41.1 |
| 2 Industrial Processes | 1,740 | - | 4.5 | 31.6 | 9.7 | 95.1 | 71.3 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 10 | - | 0.0 | 0.4 | 0.1 | 2.1 | 66.7 |
| 4 Agriculture | - | - | 476.0 | 27.5 | - | - | 0.2 |
| A Enteric Fermentation | - | - | 377.0 | - | - | - | - |
| B Manure Management | - | - | 99.0 | 0.8 | - | - | - |
| C Rice Cultivation | - | - | - | - | - | - | - |
| D Agricultural Soils | - | - | - | 26.7 | - | - | 0.2 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 1,700 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 1,700 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | 1,250 | - | 465.6 | 0.6 | 1.7 | 1.9 | 0.8 |
| A Solid Waste Disposal on Land | - | - | 464.1 | - | 0.3 | 1.4 | 0.2 |
| B Wastewater Handling | - | - | 1.5 | 0.5 | - | - | - |
| C Waste Incineration | 1,250 | - | - | 0.1 | 1.4 | 0.5 | 0.7 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | 2.0 | 3.8 | - | - | - |
| Memo Items: | | | | | | | |
| Nature | - | - | 125.0 | 2.4 | 16.3 | 26.7 | 3.2 |
| International Bunkers | 45,800 | - | - | - | - | - | - |
| Aviation | 8,200 | - | - | - | - | - | - |
| Marine | 37,600 | - | - | - | - | - | - |
| CO ₂ Emissions from Biomass | 4,280 | - | - | - | - | - | - |

Ref.: "Greenhouse gas emissions in the Netherlands 1990-1996: Updated methodology. A report on the International Commitments with respect to Greenhouse Gas Emission Inventories for the United Nations Framework Convention on Climate Change and the European Union's Greenhouse Gas Monitoring Mechanism", National Institute of Public Health and the Environment, Bilthoven, The Netherlands, December 1997.

Note: The Netherlands delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

HFC/PFC/SF₆ emissions in the Netherlands 1990, 1994-96

| Netherlands 1990 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|---|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.489 | - | 0.363 | 0.058 | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Netherlands 1994 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|---|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.711 | - | 0.353 | 0.061 | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Netherlands 1995 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|---|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 0.855 | - | 0.353 | 0.061 | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Netherlands 1996 Estimates in Gg | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|---|
| | P | A | P | A | P | A |
| Total National Emissions and Removals | - | 1.187 | - | 0.343 | 0.061 | - |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

Ref.: "Greenhouse gas emissions in the Netherlands 1990-1996: Updated methodology. A report on the International Commitments with respect to Greenhouse Gas Emission Inventories for the United Nations Framework Convention on Climate Change and the European Union's Greenhouse Gas Monitoring Mechanism", National Institute of Public Health and the Environment, Bilthoven, The Netherlands, December 1997.

Portugal 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Portugal 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 47,123 | 1,152 | 815.8 | 14.4 | 346.2 | 1,254.5 | 282.1 |
| 1 Energy | 43,440 | - | 26.5 | 2.1 | 341.7 | 1,223.1 | 173.2 |
| A Fuel Combustion | 43,281 | - | 22.2 | 2.1 | 341.7 | 1,223.1 | 126.0 |
| 1 Energy Industries | 17,015 | - | 8.6 | 0.6 | 77.9 | 277.7 | 26.6 |
| 2 Manufacturing Industries and Construction | 7,225 | - | 1.6 | 0.2 | 18.2 | 25.3 | 7.6 |
| 3 Transport | 14,060 | - | 4.8 | 0.5 | 196.9 | 646.7 | 66.7 |
| 4 Other Sectors | 4,468 | - | 7.1 | 0.8 | 45.2 | 273.3 | 24.7 |
| 5 Other | 512 | - | 0.2 | 0.0 | 3.6 | 0.2 | 0.3 |
| B Fugitive Emissions from Fuels | 159 | - | 4.3 | NA | NA | NA | 47.1 |
| 1 Solid Fuels | 9 | - | 3.1 | NA | NA | NA | 0.0 |
| 2 Oil and Natural Gas | 150 | - | 1.1 | NA | NA | NA | 47.1 |
| 2 Industrial Processes | 3,421 | - | 0.4 | 1.9 | 4.5 | 30.8 | 17.6 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 262 | - | NA | NA | NA | NA | 84.1 |
| 4 Agriculture | NE | - | 210.7 | 7.4 | NE | NE | NE |
| A Enteric Fermentation | NA | - | 123.9 | NE | NE | NA | NA |
| B Manure Management | NA | - | 67.8 | IE | NE | NA | NA |
| C Rice Cultivation | NA | - | 19.0 | 0.0 | NA | NA | NA |
| D Agricultural Soils | NA | - | NE | 7.4 | NE | NA | NE |
| E Prescribed Burning of Savannas | NA | - | NA | NA | - | - | 0.0 |
| F Field Burning of Agricultural Residues | NE | - | NE | NE | - | - | 0.0 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 1,152 | NA | NA | NA | NA | NA |
| A Changes in Forest and Other Woody Biomass Stocks | - | IE | - | - | - | - | - |
| B Forest and Grassland Conversion | - | IE | - | - | - | - | - |
| C Abandonment of Managed Lands | - | IE | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | 1,152 | - | - | - | - | - |
| 6 Waste | 0 | - | 578.3 | 2.9 | 0.0 | 0.6 | 7.3 |
| A Solid Waste Disposal on Land | - | - | IE | IE | IE | IE | IE |
| B Wastewater Handling | - | - | IE | IE | IE | IE | IE |
| C Waste Incineration | - | - | IE | IE | IE | IE | IE |
| D Other | - | - | 578.3 | 2.9 | 0.0 | 0.6 | 7.3 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 2,062 | - | 2.1 | 0.0 | 36.5 | 2.4 | 0.1 |
| Aviation | 158 | - | IE | IE | IE | IE | IE |
| Marine | 1,904 | - | 2.1 | 0.0 | 36.5 | 2.4 | 0.1 |
| CO ₂ Emissions from Biomass | 10,866 | - | - | - | - | - | - |

Ref.: "Portugal's Second Report to be submitted to the Conference of the Parties to the Framework Convention on Climate Change", Ministry of the Environment, 1997.

Note: Portugal delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Portugal 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Portugal 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 50,841 | 1,152 | 834.3 | 14.5 | 379.2 | 1,462.4 | 318.6 |
| 1 Energy | 47,154 | - | 25.6 | 2.4 | 374.6 | 1,428.9 | 208.0 |
| A Fuel Combustion | 46,953 | - | 22.2 | 2.4 | 374.6 | 1,428.9 | 146.5 |
| 1 Energy Industries | 17,150 | - | 8.6 | 0.6 | 78.5 | 277.9 | 26.5 |
| 2 Manufacturing Industries and Construction | 7,178 | - | 1.7 | 0.2 | 19.0 | 28.3 | 7.8 |
| 3 Transport | 16,849 | - | 4.7 | 0.8 | 226.3 | 847.8 | 87.0 |
| 4 Other Sectors | 5,074 | - | 7.1 | 0.8 | 46.0 | 274.8 | 24.8 |
| 5 Other | 701 | - | 0.2 | 0.0 | 4.9 | 0.2 | 0.4 |
| B Fugitive Emissions from Fuels | 201 | - | 3.4 | NA | NA | NA | 61.5 |
| 1 Solid Fuels | 5 | - | 2.0 | NA | NA | NA | 0.0 |
| 2 Oil and Natural Gas | 196 | - | 1.4 | NA | NA | NA | 61.5 |
| 2 Industrial Processes | 3,421 | - | 0.4 | 1.9 | 4.5 | 32.9 | 17.7 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 266 | - | NA | NA | NA | NA | 85.2 |
| 4 Agriculture | NE | - | 194.8 | 7.2 | NE | NE | NE |
| A Enteric Fermentation | NA | - | 118.6 | NE | NE | NA | NA |
| B Manure Management | NA | - | 63.0 | IE | NE | NA | NA |
| C Rice Cultivation | NA | - | 13.2 | 0.0 | NA | NA | NA |
| D Agricultural Soils | NA | - | NE | 7.2 | NE | NA | NE |
| E Prescribed Burning of Savannas | NA | - | NA | NA | - | - | 0.0 |
| F Field Burning of Agricultural Residues | NE | - | NE | NE | - | - | 0.0 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 1,152 | NA | NA | NA | NA | NA |
| A Changes in Forest and Other Woody Biomass Stocks | - | IE | - | - | - | - | - |
| B Forest and Grassland Conversion | - | IE | - | - | - | - | - |
| C Abandonment of Managed Lands | - | IE | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | 1,152 | - | - | - | - | - |
| 6 Waste | 0 | - | 613.5 | 2.9 | 0.0 | 0.6 | 7.8 |
| A Solid Waste Disposal on Land | 0 | - | 528.3 | 0.0 | 0.0 | 0.6 | 6.7 |
| B Wastewater Handling | 0 | - | 85.2 | 2.9 | 0.0 | 0.0 | 1.1 |
| C Waste Incineration | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| D Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 Other | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 3,300 | - | 1,850.0 | 1.7 | 0.0 | 30.1 | 2.3 |
| Aviation | 1,800 | - | 1,850.0 | 1.7 | 0.0 | 30.1 | 2.3 |
| Marine | 1,500 | - | IE | IE | IE | IE | IE |
| CO ₂ Emissions from Biomass | 11,052 | - | - | - | - | - | - |

Ref.: "Portugal's Second Report to be submitted to the Conference of the Parties to the Framework Convention on Climate Change", Ministry of the Environment, 1997.

Note: Portugal delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Spain 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Spain 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 226,423 | 28,970 | 2,181.2 | 94.2 | 1,164.4 | 4,733.8 | 1,123.3 |
| 1 Energy | 208,006 | - | 762.4 | 20.2 | 1,140.5 | 4,019.7 | 639.4 |
| A Fuel Combustion | 207,592 | - | 75.6 | 20.2 | 1,140.5 | 4,019.7 | 450.5 |
| 1 Energy Industries | 75,184 | - | 12.4 | 10.2 | 274.2 | 21.6 | 29.6 |
| 2 Manufacturing Industries and Construction | 47,971 | - | 6.0 | 5.2 | 187.5 | 432.7 | 17.5 |
| 3 Transport | 58,260 | - | 12.2 | 2.0 | 566.0 | 2,620.5 | 327.5 |
| 4 Other Sectors | 26,177 | - | 45.1 | 2.8 | 112.7 | 944.9 | 75.9 |
| 5 Other | - | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 414 | - | 686.7 | 0.0 | 0.0 | 0.0 | 188.9 |
| 1 Solid Fuels | - | - | 612.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 414 | - | 74.3 | 0.0 | 0.0 | 0.0 | 188.9 |
| 2 Industrial Processes | 17,690 | - | 2.0 | 10.4 | 11.8 | 247.4 | 52.1 |
| A Mineral Products | 15,067 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Chemical Industry | 688 | - | 0.6 | 10.4 | 8.2 | 0.0 | 18.7 |
| C Metal Production | 1,417 | - | 1.3 | 0.0 | 1.8 | 247.4 | 1.5 |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 518 | - | 0.0 | 0.0 | 1.9 | 0.0 | 31.9 |
| 3 Solvent and Other Product Use | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 309.5 |
| 4 Agriculture | 0 | - | 925.6 | 63.5 | 5.8 | 396.7 | 96.3 |
| A Enteric Fermentation | 0 | - | 345.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 464.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 10.8 | 0.4 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 82.7 | 63.2 | 0.0 | 0.0 | 74.4 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | 0 | - | 21.9 | 0.0 | 5.8 | 396.7 | 21.9 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 28,970 | - | - | - | - | - |
| 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 | - | 28,970 | - | - | - | - | - |
| 6 Waste | 0 | - | 491.3 | 0.1 | 6.4 | 69.9 | 26.1 |
| A Solid Waste Disposal on Land | 0 | - | 471.5 | 0.0 | 5.2 | 57.8 | 20.7 |
| B Wastewater Handling | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | 0 | - | 19.8 | 0.1 | 1.2 | 12.1 | 5.1 |
| 7 Other | 727 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 18,024 | - | 2.0 | 0.3 | 272.9 | 17.0 | 11.4 |
| Aviation | 5,948 | - | 1.5 | - | 23.6 | 9.8 | 0.2 |
| Marine | 12,076 | - | 0.6 | 0.3 | 249.3 | 7.2 | 11.2 |
| CO ₂ Emissions from Biomass | 12,304 | - | - | - | - | - | - |

Ref.: "Inventario de gases de efecto invernadero 1990 - 1995", Submission to the Commission under the Monitoring Mechanism, 5 March 1999

Note (1): The national communication excludes CO₂ emissions from sector 4 and 6 for the national total as they are considered to be from renewable sources (sector 4: 18 725 Gg and sector 6: 2 161 Gg CO₂).

Note (2): Spain delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Spain 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Spain 1994 | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Greenhouse Gas Source and Sink Categories | | | | | | | |
| Total National Emissions and Removals | 237,446 | 28,970 | 2,331.5 | 87.5 | 1,205.8 | 4,624.2 | 1,186.3 |
| 1 Energy | 220,168 | - | 696.3 | 21.8 | 1,181.9 | 3,959.8 | 669.0 |
| A Fuel Combustion | 219,730 | - | 75.1 | 21.8 | 1,181.9 | 3,959.8 | 467.2 |
| 1 Energy Industries | 77,645 | - | 12.5 | 10.6 | 278.8 | 26.1 | 31.4 |
| 2 Manufacturing Industries and Construction | 52,657 | - | 6.3 | 5.7 | 198.3 | 422.0 | 19.3 |
| 3 Transport | 61,625 | - | 13.1 | 2.7 | 592.8 | 2,582.4 | 343.1 |
| 4 Other Sectors | 27,803 | - | 43.2 | 2.9 | 112.0 | 929.3 | 73.4 |
| 5 Other | - | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 438 | - | 621.3 | 0.0 | 0.0 | 0.0 | 201.8 |
| 1 Solid Fuels | 0 | - | 528.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 438 | - | 93.2 | 0.0 | 0.0 | 0.0 | 201.8 |
| 2 Industrial Processes | 16,469 | - | 2.3 | 8.0 | 8.8 | 242.0 | 48.1 |
| A Mineral Products | 14,215 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Chemical Industry | 643 | - | 1.0 | 8.0 | 5.4 | 0.0 | 22.0 |
| C Metal Production | 1,304 | - | 1.3 | 0.0 | 1.9 | 242.0 | 1.5 |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 307 | - | 0.0 | 0.0 | 1.6 | 0.0 | 24.6 |
| 3 Solvent and Other Product Use | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 341.9 |
| 4 Agriculture | 0 | - | 949.4 | 57.5 | 5.1 | 346.0 | 90.1 |
| A Enteric Fermentation | 0 | - | 345.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 499.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 8.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 78.2 | 57.2 | 0.0 | 0.0 | 71.1 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | 0 | - | 18.9 | 0.0 | 5.1 | 346.0 | 18.9 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 28,970 | - | - | - | - | - |
| 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 | - | 28,970 | - | - | - | - | - |
| 6 Waste | 0 | - | 683.4 | 0.1 | 9.9 | 76.4 | 37.3 |
| A Solid Waste Disposal on Land | 0 | - | 655.6 | 0.0 | 5.5 | 61.8 | 22.1 |
| B Wastewater Handling | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | 0 | - | 27.8 | 0.1 | 4.4 | 14.5 | 14.6 |
| 7 Other | 809 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 19,144 | - | 2.3 | 0.3 | 286.9 | 18.5 | 12.2 |
| Aviation | 6,726 | - | 1.7 | - | 26.7 | 11.1 | 0.2 |
| Marine | 12,418 | - | 0.6 | 0.3 | 260.2 | 7.4 | 12.0 |
| CO ₂ Emissions from Biomass | 12,631 | - | - | - | - | - | - |

Ref.: "Inventario de gases de efecto invernadero 1990 - 1995", Submission to the Commission under the Monitoring Mechanism, 5 March 1999

Note (1): The national communication excludes CO₂ emissions from sector 4 and 6 for the national total as they are considered to be from renewable sources (sector 4: 18 400 Gg and sector 6: 2 562 Gg CO₂).

Note (2): Spain delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Spain 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| Spain 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOc |
| Total National Emissions and Removals | 247,703 | - | 2,370.4 | 90.5 | 1,221.6 | 4,356.8 | 1,152.0 |
| 1 Energy | 230,093 | - | 700.6 | 23.3 | 1,200.1 | 3,732.8 | 643.0 |
| A Fuel Combustion | 229,675 | - | 71.9 | 23.3 | 1,200.1 | 3,732.8 | 445.2 |
| 1 Energy Industries | 84,330 | - | 12.9 | 11.8 | 293.6 | 29.8 | 31.4 |
| 2 Manufacturing Industries and Construction | 52,968 | - | 5.3 | 5.5 | 194.1 | 357.5 | 16.7 |
| 3 Transport | 64,268 | - | 11.8 | 3.0 | 598.3 | 2,433.6 | 324.2 |
| 4 Other Sectors | 28,110 | - | 41.9 | 3.0 | 114.0 | 911.9 | 72.9 |
| 5 Other | - | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 418 | - | 628.7 | 0.0 | 0.0 | 0.0 | 197.8 |
| 1 Solid Fuels | 0 | - | 520.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Oil and Natural Gas | 418 | - | 108.6 | 0.0 | 0.0 | 0.0 | 197.8 |
| 2 Industrial Processes | 17,278 | - | 2.0 | 8.4 | 9.2 | 244.4 | 49.7 |
| A Mineral Products | 14,806 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Chemical Industry | 656 | - | 0.9 | 8.4 | 5.6 | 0.0 | 22.3 |
| C Metal Production | 1,503 | - | 1.1 | 0.0 | 1.9 | 244.4 | 1.6 |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 313 | - | 0.0 | 0.0 | 1.7 | 0.0 | 25.8 |
| 3 Solvent and Other Product Use | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 331.9 |
| 4 Agriculture | 0 | - | 949.3 | 58.6 | 4.5 | 302.8 | 87.6 |
| A Enteric Fermentation | 0 | - | 342.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Manure Management | 0 | - | 504.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| C Rice Cultivation | 0 | - | 6.5 | 0.2 | 0.0 | 0.0 | 0.0 |
| D Agricultural Soils | 0 | - | 78.8 | 58.4 | 0.0 | 0.0 | 71.2 |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | 0 | - | 16.4 | 0.0 | 4.5 | 302.8 | 16.4 |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & 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 | 0 | - | 718.5 | 0.2 | 7.9 | 76.9 | 39.7 |
| A Solid Waste Disposal on Land | 0 | - | 659.2 | 0.0 | 5.5 | 61.8 | 22.1 |
| B Wastewater Handling | 0 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | 0 | - | 59.3 | 0.2 | 2.3 | 15.1 | 17.0 |
| 7 Other | 332 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 19,144 | - | 2.3 | 0.3 | 286.9 | 18.5 | 12.2 |
| Aviation | 6,726 | - | 1.7 | - | 26.7 | 11.1 | 0.2 |
| Marine | 12,418 | - | 0.6 | 0.3 | 260.2 | 7.4 | 12.0 |
| CO ₂ Emissions from Biomass | 12,438 | - | - | - | - | - | - |

Ref.: "Inventario de gases de efecto invernadero 1990 - 1995", Submission to the Commission under the Monitoring Mechanism, 5 March 1999.

Note (1): The national communication excludes CO₂ emissions from sector 4 and 6 for the national total as they are considered to be from renewable sources (sector 4: 17 386 Gg and sector 6: 2 623 Gg CO₂).

Note (2): Spain delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Sweden 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Sweden 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 55,443 | 34,368 | 284.0 | 26.0 | 336.0 | 1,211.0 | 516.0 |
| 1 Energy | 51,381 | - | 40.0 | 6.0 | 313.0 | 1,205.0 | 382.0 |
| A Fuel Combustion | 51,328 | - | 40.0 | 6.0 | 313.0 | 1,205.0 | 356.0 |
| 1 Energy Industries | 8,849 | - | 1.0 | 1.0 | 16.0 | 6.0 | 3.0 |
| 2 Manufacturing Industries and Construction | 13,050 | - | 5.0 | 2.0 | 23.0 | 28.0 | 6.0 |
| 3 Transport | 18,650 | - | 23.0 | 3.0 | 261.0 | 1,046.0 | 216.0 |
| 4 Other Sectors | 10,672 | - | 10.0 | 1.0 | 12.0 | 124.0 | 131.0 |
| 5 Other | 107 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 53 | - | 0.0 | - | 0.0 | 0.0 | 26.0 |
| 1 Solid Fuels | - | - | 0.0 | - | - | - | - |
| 2 Oil and Natural Gas | 53 | - | 0.0 | - | 0.0 | 0.0 | 26.0 |
| 2 Industrial Processes | 3,786 | - | 0.0 | 3.0 | 23.0 | 6.0 | 42.0 |
| A Mineral Products | 2,018 | - | - | - | - | 0.0 | 6.0 |
| B Chemical Industry | 0 | - | 0.0 | 3.0 | 5.0 | 0.0 | 5.0 |
| C Metal Production | 396 | - | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 |
| D Other Production | 31 | - | - | - | 0.0 | 0.0 | 0.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 1,341 | - | 0.0 | 0.0 | 10.0 | 4.0 | 30.0 |
| 3 Solvent and Other Product Use | 276 | - | - | 0.0 | - | - | 92.0 |
| 4 Agriculture | - | - | 160.0 | 17.0 | 0.0 | 0.0 | - |
| A Enteric Fermentation | - | - | 147.0 | - | - | - | - |
| B Manure Management | - | - | 13.0 | 2.0 | - | - | - |
| C Rice Cultivation | - | - | 0.0 | - | - | - | - |
| D Agricultural Soils | - | - | - | 15.0 | - | - | - |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - |
| F Field Burning of Agricultural Residues | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - |
| G Other | - | - | 0.0 | 0.0 | - | - | - |
| 5 Land-Use Change & Forestry | 0 | 34,368 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 34,368 | - | - | - | - | - |
| B Forest and Grassland Conversion | 0 | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | 0 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | 0 | 0 | - | - | - | - | - |
| E Other | 0 | 0 | - | - | - | - | - |
| 6 Waste | - | - | 85.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Solid Waste Disposal on Land | - | - | 85.0 | - | - | - | - |
| B Wastewater Handling | - | - | 0.0 | 0.0 | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | 0.0 | 0.0 | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 4,207 | - | 0.0 | 0.0 | 52.0 | 6.0 | 2.0 |
| Aviation | 2,045 | - | 0.0 | NE | 4.0 | 4.0 | 1.0 |
| Marine | 2,162 | - | NE | NE | 48.0 | 3.0 | 1.0 |
| CO ₂ Emissions from Biomass | 21,450 | - | - | - | - | - | - |

Ref.: Updated national GHG inventories 1990, 1996, and inventory 1997; Submission by the Swedish EPA to the EEA, 1 April 1999

Sweden 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Sweden 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 58,438 | 30,000 | 302.4 | 9.3 | 329.5 | 1,142.4 | 477.5 |
| 1 Energy | 53,962 | - | 39.0 | 6.8 | 302.5 | 1,088.4 | 358.1 |
| A Fuel Combustion | 53,946 | - | 39.0 | 6.8 | 302.5 | 1,088.4 | 343.4 |
| 1 Energy Industries | 11,068 | - | 1.7 | 1.2 | 14.2 | 7.4 | 4.6 |
| 2 Manufacturing Industries and Construction | 13,938 | - | 5.4 | 2.2 | 18.1 | 30.1 | 5.5 |
| 3 Transport | 18,685 | - | 20.8 | 2.9 | 260.3 | 914.6 | 187.5 |
| 4 Other Sectors | 10,148 | - | 11.1 | 0.5 | 9.9 | 136.3 | 145.8 |
| 5 Other | 107 | - | - | - | - | - | - |
| B Fugitive Emissions from Fuels | 16 | - | - | - | - | - | 14.7 |
| 1 Solid Fuels | - | - | - | - | - | - | - |
| 2 Oil and Natural Gas | 16 | - | - | - | - | - | 14.7 |
| 2 Industrial Processes | 4,227 | - | - | 2.3 | 27.0 | 54.0 | 36.0 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 249 | - | - | - | - | - | 83.4 |
| 4 Agriculture | - | - | 202.3 | 0.2 | - | - | - |
| A Enteric Fermentation | - | - | 183.7 | - | - | - | - |
| B Manure Management | - | - | 18.7 | - | - | - | - |
| C Rice Cultivation | - | - | - | 0.2 | - | - | - |
| D Agricultural Soils | - | - | - | - | - | - | - |
| E Prescribed Burning of Savannas | - | - | - | - | - | - | - |
| F Field Burning of Agricultural Residues | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 5 Land-Use Change & Forestry | - | 30,000 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 30,000 | - | - | - | - | - |
| B Forest and Grassland Conversion | - | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | - | - | 61.0 | - | - | - | - |
| A Solid Waste Disposal on Land | - | - | 61.0 | - | - | - | - |
| B Wastewater Handling | - | - | - | - | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 5,400 | - | 0.1 | NE | 54.0 | 6.2 | 1.6 |
| Aviation | 2,100 | - | IE | - | IE | IE | IE |
| Marine | 3,300 | - | 0.1 | - | 54.0 | 6.2 | 1.6 |
| CO ₂ Emissions from Biomass | - | - | - | - | - | - | - |

Ref.: "Swedish submission of annual inventories of greenhouse gases for 1996 (preliminary) and revisions for the years 1990 through 1995", Ministry of the Environment, 9 March 1998.

Note: Sweden delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Sweden 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Sweden 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 58,108 | 30,000 | 297.0 | 9.2 | 309.0 | 1,089.0 | 457.0 |
| 1 Energy | 53,401 | - | 38.0 | 6.8 | 281.0 | 1,040.0 | 337.0 |
| A Fuel Combustion | 53,385 | - | 38.0 | 6.8 | 281.0 | 1,040.0 | 322.0 |
| 1 Energy Industries | 10,493 | - | 2.0 | 1.1 | 11.8 | 10.7 | 5.2 |
| 2 Manufacturing Industries and Construction | 13,541 | - | 5.7 | 2.3 | 20.0 | 32.2 | 6.2 |
| 3 Transport | 19,341 | - | 20.2 | 2.9 | 241.0 | 873.1 | 178.9 |
| 4 Other Sectors | 9,903 | - | 10.1 | 0.5 | 8.6 | 124.2 | 132.2 |
| 5 Other | 107 | - | NE | NE | NE | NE | NE |
| B Fugitive Emissions from Fuels | 16 | - | NE | - | - | - | 14.7 |
| 1 Solid Fuels | NO | - | NO | - | - | - | NO |
| 2 Oil and Natural Gas | 16 | - | NE | - | - | - | 14.7 |
| 2 Industrial Processes | 4,458 | - | NE | 2.3 | 27.5 | 49.0 | 36.1 |
| A Mineral Products | - | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - | - |
| 3 Solvent and Other Product Use | 249 | - | - | NE | - | - | 83.4 |
| 4 Agriculture | - | - | 198.0 | 0.2 | - | - | - |
| A Enteric Fermentation | - | - | 179.3 | - | - | - | - |
| B Manure Management | - | - | 19.1 | - | - | - | - |
| C Rice Cultivation | NO | - | NO | NO | - | - | - |
| D Agricultural Soils | NE | - | - | 0.2 | - | - | - |
| 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 & Forestry | - | 30,000 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | - | 30,000 | - | - | - | - | - |
| B Forest and Grassland Conversion | NE | - | - | - | - | - | - |
| C Abandonment of Managed Lands | NE | - | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | - | - | - | - | - | - | - |
| E Other | - | - | - | - | - | - | - |
| 6 Waste | - | - | 61.0 | - | - | - | - |
| A Solid Waste Disposal on Land | - | - | 61.0 | - | - | - | - |
| B Wastewater Handling | - | - | NE | - | - | - | - |
| C Waste Incineration | IE | - | IE | IE | IE | IE | IE |
| D Other | - | - | - | - | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 5,367 | - | 0.1 | NE | 54.0 | 6.0 | 1.5 |
| Aviation | 2,067 | - | IE | - | IE | IE | IE |
| Marine | 3,300 | - | 0.1 | - | 54.0 | 6.0 | 1.5 |
| CO ₂ Emissions from Biomass | IE | - | IE | IE | IE | IE | IE |

Ref.: "Swedish submission of annual inventories of greenhouse gases for 1996 (preliminary) and revisions for the years 1990 through 1995", Ministry of the Environment, 9 March 1998.

Note: Sweden delivered data in accordance with the 1995 IPCC Guidelines. This table presents these data in the format of the Revised 1996 IPCC Guidelines for consistency reasons.

Sweden 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|--------------|
| Sweden 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOG |
| Total National Emissions and Removals | 63,352 | 31,774 | 261.0 | 26.0 | 301.0 | 1,082.0 | 458.0 |
| 1 Energy | 59,391 | - | 38.0 | 7.0 | 273.0 | 1,033.0 | 338.0 |
| A Fuel Combustion | 59,391 | - | 38.0 | 7.0 | 273.0 | 1,033.0 | 323.0 |
| 1 Energy Industries | 14,295 | - | 2.0 | 2.0 | 15.0 | 13.0 | 5.0 |
| 2 Manufacturing Industries and Construction | 14,400 | - | 5.0 | 3.0 | 48.0 | 40.0 | 10.0 |
| 3 Transport | 19,573 | - | 19.0 | 2.0 | 172.0 | 829.0 | 160.0 |
| 4 Other Sectors | 11,016 | - | 11.0 | 1.0 | 38.0 | 151.0 | 149.0 |
| 5 Other | 107 | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| B Fugitive Emissions from Fuels | 0 | - | 0.0 | - | 0.0 | 0.0 | 15.0 |
| 1 Solid Fuels | - | - | 0.0 | - | - | - | - |
| 2 Oil and Natural Gas | - | - | 0.0 | - | 0.0 | 0.0 | 15.0 |
| 2 Industrial Processes | 3,711 | - | 0.0 | 3.0 | 27.0 | 49.0 | 36.0 |
| A Mineral Products | 1,953 | - | - | - | - | 0.0 | 0.0 |
| B Chemical Industry | 0 | - | 0.0 | 3.0 | 4.0 | 0.0 | 3.0 |
| C Metal Production | 457 | - | 0.0 | 0.0 | 4.0 | 49.0 | 1.0 |
| D Other Production | 31 | - | - | - | 0.0 | 0.0 | 33.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - | - |
| G Other | 1,271 | - | 0.0 | 0.0 | 13.0 | 0.0 | 0.0 |
| 3 Solvent and Other Product Use | 250 | - | - | 0.0 | - | - | 83.0 |
| 4 Agriculture | - | - | 163.0 | 17.0 | 0.0 | 0.0 | - |
| A Enteric Fermentation | - | - | 146.0 | - | - | - | - |
| B Manure Management | - | - | 16.0 | 2.0 | - | - | - |
| C Rice Cultivation | - | - | 0.0 | - | - | - | - |
| D Agricultural Soils | - | - | - | 15.0 | - | - | - |
| E Prescribed Burning of Savannas | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - |
| F Field Burning of Agricultural Residues | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - |
| G Other | - | - | 0.0 | 0.0 | - | - | - |
| 5 Land-Use Change & Forestry | 0 | 31,774 | - | - | - | - | - |
| A Changes in Forest and Other Woody Biomass Stocks | 0 | 31,774 | - | - | - | - | - |
| B Forest and Grassland Conversion | 0 | - | - | - | - | - | - |
| C Abandonment of Managed Lands | - | 0 | - | - | - | - | - |
| D CO ₂ Emissions and Removals from Soil | 0 | 0 | - | - | - | - | - |
| E Other | 0 | 0 | - | - | - | - | - |
| 6 Waste | - | - | 61.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| A Solid Waste Disposal on Land | - | - | 61.0 | - | - | - | - |
| B Wastewater Handling | - | - | 0.0 | 0.0 | - | - | - |
| C Waste Incineration | - | - | - | - | - | - | - |
| D Other | - | - | 0.0 | 0.0 | - | - | - |
| 7 Other | - | - | - | - | - | - | - |
| Memo Items: | | | | | | | |
| International Bunkers | 4,899 | - | 0.0 | 0.0 | 53.0 | 3.0 | 0.0 |
| Aviation | 1,302 | - | 0.0 | 0.0 | 4.0 | 1.0 | 0.0 |
| Marine | 3,597 | - | 0.0 | 0.0 | 50.0 | 3.0 | 0.0 |
| CO ₂ Emissions from Biomass | 25,833 | - | - | - | - | - | - |

Ref.: Updated national GHG inventories 1990, 1996, and inventory 1997; Submission by the Swedish EPA to the EEA, 1 April 1999

HFC/PFC/SF₆ emissions in Sweden 1990, 1994-96

| Sweden 1990 | HFC | | PFC | | SF ₆ | |
|---|--------------|--------------|--------------|-----------|-----------------|-----------|
| | P | A | P | A | P | A |
| Estimates in Gg | | | | | | |
| Total National Emissions and Removals | 0.000 | 0.000 | 0.000 | NE | 0.000 | NE |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Sweden 1994 | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Estimates in Gg | | | | | | |
| Total National Emissions and Removals | - | 0.150 | - | 0.060 | - | 0.052 |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Sweden 1995 | HFC | | PFC | | SF ₆ | |
|---|-----|--------------|-----|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Estimates in Gg | | | | | | |
| Total National Emissions and Removals | - | 0.150 | - | 0.060 | - | 0.050 |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

| Sweden 1996 | HFC | | PFC | | SF ₆ | |
|---|--------------|--------------|--------------|--------------|-----------------|--------------|
| | P | A | P | A | P | A |
| Estimates in Gg | | | | | | |
| Total National Emissions and Removals | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 Industrial Processes | - | - | - | - | - | - |
| A Mineral Products | - | - | - | - | - | - |
| B Chemical Industry | - | - | - | - | - | - |
| C Metal Production | - | - | - | - | - | - |
| D Other Production | - | - | - | - | - | - |
| E Production of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| F Consumption of Halocarbons and Sulphur Hexafluoride | - | - | - | - | - | - |
| G Other | - | - | - | - | - | - |

Ref.: "Swedish submission of annual inventories of greenhouse gases for 1996 (preliminary) and revisions for the years 1990 through 1995", Ministry of the Environment, 9 March 1998 and Updated national GHG inventories 1990, 1996, and inventory 1997; Submission by the Swedish EPA to the EEA, 1 April 1999

United Kingdom 1990

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| United Kingdom 1990 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM VOC |
| Total National Emissions and Removals | 614,825 | 11,453 | 4,438.0 | 215.0 | 2,747.0 | 6,685.0 | 2,550.0 |
| 1 Energy | 568,589 | - | 1,424.8 | 15.5 | 2,722.6 | 6,366.7 | 1,571.3 |
| A Fuel Combustion | 558,774 | - | 105.3 | 15.5 | 2,715.1 | 6,331.4 | 1,148.5 |
| 1 Energy Industries | 230,775 | - | 7.5 | 6.3 | 885.0 | 315.8 | 6.9 |
| 2 Manufacturing Industries and Construction | 94,627 | - | 13.1 | 3.1 | 245.4 | 690.6 | 46.9 |
| 3 Transport | 115,901 | - | 31.5 | 4.2 | 1,389.5 | 4,852.9 | 979.2 |
| 4 Other Sectors | 112,207 | - | 53.0 | 1.7 | 141.0 | 463.9 | 113.7 |
| 5 Other | 5,264 | - | 0.2 | 0.2 | 54.3 | 8.2 | 1.8 |
| B Fugitive Emissions from Fuels | 9,815 | - | 1,319.5 | NE | 7.4 | 35.3 | 422.8 |
| 1 Solid Fuels | 907 | - | 818.6 | NO | 2.3 | 1.6 | 3.6 |
| 2 Oil and Natural Gas | 8,908 | - | 500.9 | NE | 5.2 | 33.7 | 419.3 |
| 2 Industrial Processes | 13,916 | - | 0.8 | 95.3 | 11.0 | 49.7 | 244.3 |
| A Mineral Products | 8,132 | - | NO | NO | NO | NO | 9.8 |
| B Chemical Industry | 1,365 | - | NO | 95.2 | 8.1 | NE | 150.4 |
| C Metal Production | 4,420 | - | 0.8 | 0.0 | 3.0 | 49.7 | 5.2 |
| D Other Production | NO | - | NO | NO | NO | NO | 78.9 |
| E Production of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| G Other | NO | - | NO | NO | NO | NO | NO |
| 3 Solvent and Other Product Use | NO | - | NO | NO | NO | NO | 680.5 |
| 4 Agriculture | NO | - | 1,089.6 | 103.8 | 9.1 | 266.0 | 35.0 |
| A Enteric Fermentation | NO | - | 953.0 | NO | NO | NO | NO |
| B Manure Management | NO | - | 124.0 | 5.2 | NO | NO | NO |
| C Rice Cultivation | NO | - | NO | NO | NO | NO | NO |
| D Agricultural Soils | NO | - | NO | 98.4 | NO | NO | NO |
| E Prescribed Burning of Savannas | NO | - | NO | NO | NO | NO | NO |
| F Field Burning of Agricultural Residues | NO | - | 13.0 | 0.3 | 9.1 | 266.0 | 35.0 |
| G Other | NO | - | NO | NO | NO | NO | NO |
| 5 Land-Use Change & Forestry | 31,660 | 11,453 | NE | NO | NO | NO | NO |
| A Changes in Forest and Other Woody Biomass Stocks | - | 9,685 | NE | NO | NO | NO | NO |
| B Forest and Grassland Conversion | 26,563 | - | NE | NO | NO | NO | NO |
| C Abandonment of Managed Lands | - | 1,402 | NO | NO | NO | NO | NO |
| D CO ₂ Emissions and Removals from Soil | 1,430 | - | NE | NO | NO | NO | NO |
| E Other | 3,667 | 367 | NE | NO | NO | NO | NO |
| 6 Waste | 660 | - | 1,923.0 | 0.4 | 4.5 | 2.9 | 19.0 |
| A Solid Waste Disposal on Land | 0 | - | 1,890.0 | NO | NO | NO | 18.9 |
| B Wastewater Handling | 0 | - | 33.0 | NE | NO | NO | NO |
| C Waste Incineration | 660 | - | 0.0 | 0.4 | 4.5 | 2.9 | 0.1 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | NO | - | NO | NO | NO | NO | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 21,349 | - | 3.5 | 0.9 | 192.4 | 75.6 | 41.3 |
| Aviation | 14,790 | - | 2.9 | 0.5 | 72.8 | 60.1 | 36.9 |
| Marine | 6,559 | - | 0.6 | 0.4 | 119.6 | 15.5 | 4.4 |
| CO ₂ Emissions from Biomass | 1,136 | - | - | - | - | - | - |

Ref.: "UK Greenhouse Gas Emission Inventory, 1990 to 1996", December 1998.

United Kingdom 1994

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|---------------------------------|
| United Kingdom 1994 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NM ₂ VO ₂ |
| Total National Emissions and Removals | 583,502 | 18,040 | 3,785.0 | 188.0 | 2,289.0 | 5,359.0 | 2,248.0 |
| 1 Energy | 540,873 | - | 894.9 | 17.8 | 2,279.0 | 5,313.5 | 1,385.0 |
| A Fuel Combustion | 531,436 | - | 100.1 | 17.8 | 2,273.2 | 5,279.0 | 947.6 |
| 1 Energy Industries | 198,905 | - | 12.8 | 5.7 | 647.1 | 240.5 | 8.9 |
| 2 Manufacturing Industries and Construction | 92,249 | - | 12.9 | 2.9 | 234.0 | 687.0 | 46.3 |
| 3 Transport | 118,353 | - | 26.9 | 7.3 | 1,210.5 | 3,922.9 | 790.7 |
| 4 Other Sectors | 118,221 | - | 47.2 | 1.6 | 142.1 | 422.8 | 100.5 |
| 5 Other | 3,707 | - | 0.2 | 0.2 | 39.5 | 5.9 | 1.3 |
| B Fugitive Emissions from Fuels | 9,437 | - | 794.8 | NE | 5.8 | 34.5 | 437.4 |
| 1 Solid Fuels | 208 | - | 326.7 | NO | 0.8 | 0.5 | 2.7 |
| 2 Oil and Natural Gas | 9,228 | - | 468.2 | NE | 5.0 | 34.0 | 434.7 |
| 2 Industrial Processes | 11,836 | - | 0.5 | 72.6 | 7.2 | 43.2 | 225.1 |
| A Mineral Products | 7,057 | - | NO | NO | NO | NO | 10.2 |
| B Chemical Industry | 1,095 | - | NO | 72.5 | 4.6 | NE | 129.5 |
| C Metal Production | 3,685 | - | 0.5 | 0.0 | 2.6 | 43.2 | 5.0 |
| D Other Production | NO | - | NO | NO | NO | NO | 80.4 |
| E Production of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| G Other | NO | - | NO | NO | NO | NO | NO |
| 3 Solvent and Other Product Use | NO | - | NO | NO | NO | NO | 620.3 |
| 4 Agriculture | NO | - | 1,063.6 | 97.6 | 0.0 | 0.0 | 0.0 |
| A Enteric Fermentation | NO | - | 939.8 | NO | NO | NO | NO |
| B Manure Management | NO | - | 123.8 | 5.1 | NO | NO | NO |
| C Rice Cultivation | NO | - | NO | NO | NO | NO | NO |
| D Agricultural Soils | NO | - | NO | 92.6 | NO | NO | NO |
| E Prescribed Burning of Savannas | NO | - | NO | NO | NO | NO | NO |
| F Field Burning of Agricultural Residues | NO | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | NO | - | NO | NO | NO | NO | NO |
| 5 Land-Use Change & Forestry | 30,355 | 18,040 | NE | NE | NO | NO | NO |
| A Changes in Forest and Other Woody Biomass Stocks | - | 10,495 | NE | NE | NO | NO | NO |
| B Forest and Grassland Conversion | 25,418 | - | NE | NO | NO | NO | NO |
| C Abandonment of Managed Lands | - | 7,179 | NE | NO | NO | NO | NO |
| D CO ₂ Emissions and Removals from Soil | 1,270 | - | NO | NO | NO | NO | NO |
| E Other | 3,667 | 367 | NE | NO | NO | NO | NO |
| 6 Waste | 439 | - | 1,826.0 | 0.3 | 3.1 | 2.3 | 18.0 |
| A Solid Waste Disposal on Land | 0 | - | 1,790.0 | NO | NO | NO | 17.9 |
| B Wastewater Handling | 0 | - | 36.0 | NE | NO | NO | NO |
| C Waste Incineration | 439 | - | 0.0 | 0.3 | 3.1 | 2.3 | 0.1 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | NO | - | NO | NO | NO | NO | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 24,243 | - | 3.8 | 1.0 | 201.7 | 84.9 | 47.2 |
| Aviation | 18,094 | - | 3.2 | 0.6 | 89.6 | 70.3 | 43.0 |
| Marine | 6,150 | - | 0.6 | 0.4 | 112.1 | 14.5 | 4.2 |
| CO ₂ Emissions from Biomass | 1,136 | - | - | - | - | - | - |

Ref.: "UK Greenhouse Gas Emission Inventory, 1990 to 1996", December 1998.

United Kingdom 1995

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| United Kingdom 1995 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOc |
| Total National Emissions and Removals | 574,054 | 18,826 | 3,751.0 | 183.0 | 2,137.0 | 4,935.0 | 2,117.0 |
| 1 Energy | 531,977 | - | 912.5 | 18.9 | 2,129.5 | 4,888.6 | 1,262.7 |
| A Fuel Combustion | 524,887 | - | 90.0 | 18.9 | 2,123.7 | 4,863.9 | 861.8 |
| 1 Energy Industries | 199,905 | - | 14.5 | 5.9 | 595.0 | 229.8 | 7.2 |
| 2 Manufacturing Industries and Construction | 90,142 | - | 12.9 | 2.7 | 224.1 | 640.5 | 43.4 |
| 3 Transport | 117,288 | - | 25.4 | 8.8 | 1,128.2 | 3,628.7 | 718.0 |
| 4 Other Sectors | 114,156 | - | 37.1 | 1.4 | 139.0 | 359.3 | 91.9 |
| 5 Other | 3,396 | - | 0.2 | 0.1 | 37.4 | 5.5 | 1.2 |
| B Fugitive Emissions from Fuels | 7,091 | - | 822.5 | NE | 5.8 | 24.7 | 400.9 |
| 1 Solid Fuels | 185 | - | 360.6 | NO | 0.7 | 0.5 | 2.7 |
| 2 Oil and Natural Gas | 6,905 | - | 461.9 | NE | 5.1 | 24.2 | 398.1 |
| 2 Industrial Processes | 11,344 | - | 0.7 | 66.1 | 4.5 | 44.4 | 221.2 |
| A Mineral Products | 7,173 | - | NO | NO | NO | NO | 9.6 |
| B Chemical Industry | 786 | - | NO | 66.1 | 1.7 | NE | 125.6 |
| C Metal Production | 3,385 | - | 0.7 | 0.0 | 2.8 | 44.4 | 5.0 |
| D Other Production | NO | - | NO | NO | NO | NO | 81.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| G Other | NO | - | NO | NO | NO | NO | NO |
| 3 Solvent and Other Product Use | NO | - | NO | NO | NO | NO | 615.5 |
| 4 Agriculture | NO | - | 1,054.0 | 98.0 | 0.0 | 0.0 | NO |
| A Enteric Fermentation | NO | - | 931.6 | NO | NO | NO | NO |
| B Manure Management | NO | - | 122.4 | 5.0 | NO | NO | NO |
| C Rice Cultivation | NO | - | NO | NO | NO | NO | NO |
| D Agricultural Soils | NO | - | NO | 93.0 | NO | NO | NO |
| E Prescribed Burning of Savannas | NO | - | NE | NO | NO | NO | NO |
| F Field Burning of Agricultural Residues | NO | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | NO | - | NO | NO | NO | NO | NO |
| 5 Land-Use Change & Forestry | 30,300 | 18,826 | NE | NO | NO | NO | NO |
| A Changes in Forest and Other Woody Biomass Stocks | - | 10,584 | NE | NO | NO | NO | NO |
| B Forest and Grassland Conversion | 25,104 | - | NE | NO | NO | NO | NO |
| C Abandonment of Managed Lands | - | 7,876 | NE | NO | NO | NO | NO |
| D CO ₂ Emissions and Removals from Soil | 1,529 | - | NO | NO | NO | NO | NO |
| E Other | 3,667 | 367 | NE | NO | NO | NO | NO |
| 6 Waste | 432 | - | 1,784.0 | 0.3 | 3.0 | 2.0 | 16.6 |
| A Solid Waste Disposal on Land | 0 | - | 1,750.0 | NO | NO | NO | 17.5 |
| B Wastewater Handling | 0 | - | 34.0 | NO | NO | NO | NO |
| C Waste Incineration | 432 | - | 0.0 | 0.3 | 3.0 | 2.0 | 0.1 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | NO | - | NO | NO | NO | NO | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 26,086 | - | 4.0 | 1.0 | 217.2 | 89.8 | 49.8 |
| Aviation | 19,487 | - | 3.4 | 0.6 | 96.8 | 74.2 | 45.3 |
| Marine | 6,599 | - | 0.6 | 0.4 | 120.3 | 15.6 | 4.5 |
| CO ₂ Emissions from Biomass | 1,136 | - | - | - | - | - | - |

Ref.: "UK Greenhouse Gas Emission Inventory, 1990 to 1996", December 1998.

United Kingdom 1996

| IPCC TABLE 7A - SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES | | | | | | | |
|--|-------------------------|-----------------------------|-----------------|------------------|-----------------|----------------|----------------|
| United Kingdom 1996 Greenhouse Gas Source and Sink Categories | EMISSION ESTIMATES (Gg) | | | | | | |
| | CO ₂ | CO ₂ Removals | CH ₄ | N ₂ O | NO _x | CO | NMVOC |
| Total National Emissions and Removals | 593,422 | 18,672 | 3,712.0 | 189.0 | 2,052.0 | 4,641.0 | 2,028.0 |
| 1 Energy | 551,369 | - | 893.5 | 20.5 | 2,044.6 | 4,594.1 | 1,199.6 |
| A Fuel Combustion | 543,880 | - | 93.5 | 20.5 | 2,038.7 | 4,567.7 | 800.4 |
| 1 Energy Industries | 199,698 | - | 17.0 | 6.1 | 556.1 | 207.0 | 8.0 |
| 2 Manufacturing Industries and Construction | 91,742 | - | 13.2 | 2.6 | 223.7 | 656.1 | 44.4 |
| 3 Transport | 121,882 | - | 24.2 | 10.2 | 1,070.7 | 3,330.2 | 651.9 |
| 4 Other Sectors | 127,481 | - | 39.0 | 1.6 | 153.2 | 369.3 | 94.9 |
| 5 Other | 3,077 | - | 0.2 | 0.1 | 35.1 | 5.1 | 1.2 |
| B Fugitive Emissions from Fuels | 7,488 | - | 800.0 | NE | 5.9 | 26.4 | 399.2 |
| 1 Solid Fuels | 50 | - | 338.4 | NO | 0.4 | 0.2 | 2.7 |
| 2 Oil and Natural Gas | 7,438 | - | 461.6 | NE | 5.5 | 26.2 | 396.5 |
| 2 Industrial Processes | 11,703 | - | 0.7 | 70.3 | 4.4 | 45.2 | 207.8 |
| A Mineral Products | 7,036 | - | NO | NO | NO | NO | 8.5 |
| B Chemical Industry | 862 | - | NO | 70.3 | 1.6 | NE | 113.3 |
| C Metal Production | 3,805 | - | 0.7 | 0.0 | 2.8 | 45.2 | 5.1 |
| D Other Production | NO | - | NO | NO | NO | NO | 81.0 |
| E Production of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | NO | - | NO | NO | NO | NO | NO |
| G Other | NO | - | NO | NO | NO | NO | NO |
| 3 Solvent and Other Product Use | NO | - | NO | NO | NO | NO | 603.7 |
| 4 Agriculture | NO | - | 1,063.6 | 98.3 | 0.0 | 0.0 | 0.0 |
| A Enteric Fermentation | NO | - | 939.9 | NO | NO | NO | NO |
| B Manure Management | NO | - | 123.7 | 5.1 | NO | NO | NO |
| C Rice Cultivation | NO | - | NO | NO | NO | NO | NO |
| D Agricultural Soils | NO | - | NO | 93.2 | NO | NO | NO |
| E Prescribed Burning of Savannas | NO | - | NO | NO | NO | NO | NO |
| F Field Burning of Agricultural Residues | NO | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| G Other | NO | - | NO | NO | NO | NO | NO |
| 5 Land-Use Change & Forestry | 29,971 | 18,672 | NE | NO | NO | NO | NO |
| A Changes in Forest and Other Woody Biomass Stocks | - | 10,624 | NE | NO | NO | NO | NO |
| B Forest and Grassland Conversion | 24,789 | - | NE | NO | NO | NO | NO |
| C Abandonment of Managed Lands | - | 7,681 | NE | NO | NO | NO | NO |
| D CO ₂ Emissions and Removals from Soil | 1,515 | - | NO | NO | NO | NO | NO |
| E Other | 3,667 | 367 | NE | NO | NO | NO | NO |
| 6 Waste | 378 | - | 1,754.0 | 0.2 | 2.7 | 1.9 | 17.3 |
| A Solid Waste Disposal on Land | 0 | - | 1,720.0 | NO | NO | NO | 17.2 |
| B Wastewater Handling | 0 | - | 34.0 | NO | NO | NO | NO |
| C Waste Incineration | 378 | - | 0.0 | 0.2 | 2.7 | 1.9 | 0.1 |
| D Other | - | - | - | - | - | - | - |
| 7 Other | NO | - | NO | NO | NO | NO | 0.0 |
| Memo Items: | | | | | | | |
| International Bunkers | 28,163 | - | 4.2 | 1.1 | 235.8 | 95.8 | 52.9 |
| Aviation | 20,950 | - | 3.6 | 0.6 | 104.3 | 78.8 | 48.1 |
| Marine | 7,213 | - | 0.7 | 0.5 | 131.5 | 17.1 | 4.9 |
| CO ₂ Emissions from Biomass | 1,136 | - | - | - | - | - | - |

Ref.: "UK Greenhouse Gas Emission Inventory, 1990 to 1996", December 1998.

HFC/PFC/SF₆ emissions in the United Kingdom 1990, 1994-96

| United Kingdom 1990 | | HFC | | PFC | | SF ₆ | |
|---|--|--------------|--------------|--------------|--------------|-----------------|--------------|
| Estimates in Gg | | P | A | P | A | P | A |
| Total National Emissions and Removals | | 0.034 | 1.049 | 0.037 | 0.308 | 0.100 | 0.024 |
| 2 Industrial Processes | | 0.034 | 1.049 | 0.037 | 0.308 | 0.100 | 0.024 |
| A Mineral Products | | NO | NO | NO | NO | NO | NO |
| B Chemical Industry | | NO | NO | NO | NO | NO | NO |
| C Metal Production | | NO | NO | NO | 0.300 | 0.020 | 0.020 |
| D Other Production | | NO | NO | NO | NO | NO | NO |
| E Production of Halocarbons and Sulphur Hexafluoride | | NO | 1.040 | NO | 0.000 | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | | 0.034 | 0.009 | 0.037 | 0.008 | 0.080 | 0.004 |
| G Other | | NO | NO | NO | NO | NO | NO |
| United Kingdom 1994 | | HFC | | PFC | | SF ₆ | |
| Estimates in Gg | | P | A | P | A | P | A |
| Total National Emissions and Removals | | 1.299 | 1.577 | 0.062 | 0.069 | 0.100 | 0.026 |
| 2 Industrial Processes | | 1.299 | 1.577 | 0.062 | 0.069 | 0.100 | 0.026 |
| A Mineral Products | | NO | NO | NO | NO | NO | NO |
| B Chemical Industry | | NO | NO | NO | NO | NO | NO |
| C Metal Production | | NO | NO | NO | 0.060 | 0.020 | 0.020 |
| D Other Production | | NO | NO | NO | NO | NO | NO |
| E Production of Halocarbons and Sulphur Hexafluoride | | NO | 1.206 | NO | 0.000 | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | | 1.299 | 0.371 | 0.062 | 0.009 | 0.080 | 0.006 |
| G Other | | NO | NO | NO | NO | NO | NO |
| United Kingdom 1995 | | HFC | | PFC | | SF ₆ | |
| Estimates in Gg | | P | A | P | A | P | A |
| Total National Emissions and Removals | | 1.903 | 1.958 | 0.122 | 0.081 | 0.105 | 0.030 |
| 2 Industrial Processes | | 1.903 | 1.958 | 0.122 | 0.081 | 0.105 | 0.030 |
| A Mineral Products | | NO | NO | NO | NO | NO | NO |
| B Chemical Industry | | NO | NO | NO | NO | NO | NO |
| C Metal Production | | NO | NO | NO | 0.055 | 0.025 | 0.025 |
| D Other Production | | NO | NO | NO | NO | NO | NO |
| E Production of Halocarbons and Sulphur Hexafluoride | | NO | 1.168 | NO | 0.000 | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | | 1.903 | 0.791 | 0.122 | 0.026 | 0.080 | 0.005 |
| G Other | | NO | NO | NO | NO | NO | NO |
| United Kingdom 1996 | | HFC | | PFC | | SF ₆ | |
| Estimates in Gg | | P | A | P | A | P | A |
| Total National Emissions and Removals | | 2.509 | 2.150 | 0.128 | 0.079 | 0.110 | 0.035 |
| 2 Industrial Processes | | 2.509 | 2.150 | 0.128 | 0.079 | 0.110 | 0.035 |
| A Mineral Products | | NO | NO | NO | NO | NO | NO |
| B Chemical Industry | | NO | NO | NO | NO | NO | NO |
| C Metal Production | | NO | NO | NO | 0.050 | 0.030 | 0.030 |
| D Other Production | | NO | NO | NO | NO | NO | NO |
| E Production of Halocarbons and Sulphur Hexafluoride | | NO | 1.208 | NO | 0.000 | NO | NO |
| F Consumption of Halocarbons and Sulphur Hexafluoride | | 2.509 | 0.942 | 0.128 | 0.029 | 0.080 | 0.005 |
| G Other | | NO | NO | NO | NO | NO | NO |

Ref.: "UK Greenhouse Gas Emission Inventory, 1990 to 1996", December 1998