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COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 3.12.2009
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Partie 2b

COMMISSION STAFF WORKING DOCUMENT

Accompanying the

COMMUNICATION FROM THE COMMISSION

**FIFTH NATIONAL COMMUNICATION FROM THE EUROPEAN COMMUNITY
UNDER THE UN FRAMEWORK CONVENTION ON CLIMATE CHANGE
(UNFCCC)
(required under Article 12 of the United Nations Framework Convention on Climate
Change)**

Part 2b

[COM(2009) 667 final]

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Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | | Net CO ₂ | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|---|-----------------------------------|---------------------|------------------|------------------|---------------------|---------------------------------|---------------------|-----------------|-----------------|-------------|------------------|------------------|------------------|-----------------|
| | | emissions/removals | | | P | A | P | A | P | A | | | | |
| | | (Gg) | | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | |
| Total National Emissions and Removals | | 3,087,180.37 | 17,417.07 | 1,066.28 | 87,598.66 | 46,187.56 | 1,726.18 | 7,278.98 | 899.16 | 0.45 | 10,494.19 | 31,691.08 | 10,631.29 | 6,071.75 |
| I. Energy | | 3,129,049.23 | 3,067.67 | 110.15 | | | | | | | 10,146.76 | 27,322.85 | 4,839.31 | 5,779.36 |
| A. Fuel Combustion | Reference Approach ⁽²⁾ | 3,105,486.26 | | | | | | | | | | | | |
| | Sectoral Approach ⁽²⁾ | 3,110,794.28 | 608.20 | 109.75 | | | | | | | 10,127.90 | 27,243.88 | 4,028.73 | 5,568.77 |
| 1. Energy Industries | | 1,111,268.50 | 56.43 | 29.98 | | | | | | | 1,823.72 | 448.52 | 54.87 | 3,874.99 |
| 2. Manufacturing Industries and Construction | | 550,965.20 | 56.66 | 20.16 | | | | | | | 1,399.68 | 3,442.23 | 127.36 | 965.67 |
| 3. Transport | | 816,324.34 | 119.58 | 37.88 | | | | | | | 5,546.48 | 16,642.19 | 2,881.98 | 270.47 |
| 4. Other Sectors | | 623,555.84 | 374.80 | 20.32 | | | | | | | 1,302.25 | 6,608.88 | 955.84 | 448.65 |
| 5. Other | | 8,680.40 | 0.73 | 1.41 | | | | | | | 55.77 | 102.06 | 8.68 | 9.00 |
| B. Fugitive Emissions from Fuels | | 18,254.96 | 2,459.47 | 0.40 | | | | | | | 18.87 | 78.98 | 810.57 | 210.59 |
| 1. Solid Fuels | | 1,463.40 | 1,174.91 | 0.01 | | | | | | | 1.35 | 40.41 | 6.93 | 8.26 |
| 2. Oil and Natural Gas | | 16,791.56 | 1,284.57 | 0.39 | | | | | | | 17.51 | 38.57 | 803.65 | 202.33 |
| 2. Industrial Processes | | 213,790.97 | 28.59 | 164.44 | 87,598.66 | 46,187.56 | 1,726.18 | 7,278.98 | 899.16 | 0.45 | 175.25 | 2,601.33 | 605.98 | 282.33 |
| A. Mineral Products | | 113,070.83 | 0.66 | IE,NA,NE,NO | | | | | | | 65.88 | 14.51 | 116.20 | 63.63 |
| B. Chemical Industry | | 30,516.55 | 21.03 | 164.12 | NA,NO | C,NA,NO | NA,NO | C,NA,NO | C,NA,NO | C,NA,NO | 40.15 | 172.37 | 195.61 | 107.30 |
| C. Metal Production | | 69,816.70 | 4.72 | 0.03 | | | | 4,575.13 | | 0.12 | 51.24 | 2,397.75 | 24.99 | 84.19 |
| D. Other Production ⁽³⁾ | | 49.41 | 0.31 | 0.27 | | | | | | | 17.32 | 14.25 | 250.20 | 26.81 |
| E. Production of Halocarbons and SF ₆ | | | | | | 17,368.54 | | 678.41 | | 0.01 | | | | |
| F. Consumption of Halocarbons and SF ₆ | | | | | 87,598.66 | 28,819.03 | 1,726.18 | 2,025.44 | 899.16 | 0.30 | | | | |
| G. Other | | 337.47 | 1.86 | 0.02 | NA,NE,NO | NA,NO | NA,NO | NA,NO | NA,NO | 0.03 | 0.65 | 2.44 | 18.97 | 0.39 |

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.
P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

EU-15, 2000 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------|------------------|---------------------|-------|---------------------|-------|-----------------|-------|-----------------|----------|-------------|-----------------|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | P | A | P | A | P | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (Gg) | | | | | | | | | | | | | CO ₂ equivalent (Gg) | | | | | | | | | | | | | (Gg) | | | | | | | | | | | |
| 3. Solvent and Other Product Use | 7,987.16 | | 11.58 | | | | | | | NA,NO,NE | NA,NO,NE | 3,363.33 | NA,NO,NE | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Agriculture | | 8,351.37 | 734.26 | | | | | | | 128.45 | 454.21 | 499.61 | 4.14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. Enteric Fermentation | | 6,080.51 | | | | | | | | | | 265.69 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. Manure Management | | 2,177.69 | 76.04 | | | | | | | | | 0.10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. Rice Cultivation | | 101.52 | | | | | | | | | | 174.04 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. Agricultural Soils ⁽⁴⁾ | | -30.01 | 657.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E. Prescribed Burning of Savannas | | NA,NE,NO | NA,NE,NO | | | | | | | NO,NE | NO,NE | NO,NE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F. Field Burning of Agricultural Residues | | 21.65 | 0.39 | | | | | | | 13.96 | 454.21 | 58.89 | 4.14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. Other | | NA,NO | NA,NE,NO | | | | | | | 114.50 | NA,NO | 0.90 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. Land Use, Land-Use Change and Forestry | ⁽⁵⁾ -266,355.90 | 144.89 | 10.94 | | | | | | | 21.56 | 751.86 | 1,235.48 | 0.65 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. Forest Land | ⁽⁵⁾ -348,618.58 | 56.63 | 0.58 | | | | | | | 14.78 | 513.10 | 57.38 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. Cropland | ⁽⁵⁾ 64,788.61 | 10.20 | 9.97 | | | | | | | 2.53 | 89.26 | NA,NE,NO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. Grassland | ⁽⁵⁾ -4,256.59 | 11.05 | 0.08 | | | | | | | 2.74 | 96.60 | IE,NA,NE,NO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. Wetlands | ⁽⁵⁾ 4,096.86 | 6.26 | 0.25 | | | | | | | 0.07 | 2.53 | NA,NE,NO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E. Settlements | ⁽⁵⁾ 17,715.45 | 5.53 | 0.04 | | | | | | | 1.37 | 48.35 | NA,NE,NO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F. Other Land | ⁽⁵⁾ 1,146.23 | 0.23 | 0.00 | | | | | | | 0.06 | 2.01 | NA,NE,NO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. Other | ⁽⁵⁾ -1,227.88 | 55.00 | 0.02 | | | | | | | NA,NE,NO | NA,NE,NO | 1,178.10 | 0.65 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. Waste | 2,708.91 | 5,824.56 | 34.91 | | | | | | | 22.18 | 560.83 | 87.58 | 5.26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. Solid Waste Disposal on Land | ⁽⁶⁾ 26.55 | 5,228.00 | 0.01 | | | | | | | 0.12 | 9.94 | 37.43 | 0.10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. Waste-water Handling | | 510.46 | 32.04 | | | | | | | 0.00 | 0.00 | 3.36 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. Waste Incineration | ⁽⁶⁾ 2,682.36 | 21.67 | 0.94 | | | | | | | 22.01 | 550.85 | 29.42 | 5.14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. Other | | NA,NO | 1.92 | | | | | | | 0.05 | 0.04 | 17.37 | 0.02 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Other (please specify)⁽⁷⁾ | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other non-specified | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | | | | | | | | | | | | | | | | | | | | | | | | | |

EU-15, 2000 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ | CH ₄ | N ₂ O | HFCs | | PFCs | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|---------------------|-----------------|------------------|---------------------------------|---|------|---|-----------------|---|-----------------|---------------|--------------|-----------------|
| | emissions/removals | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | | |
| Memo Items: ⁽⁸⁾ | | | | | | | | | | | | | |
| International Bunkers | 237,551.68 | 6.18 | 8.64 | | | | | | | 1,964.18 | 261.79 | 92.37 | 1,181.52 |
| Aviation | 108,848.57 | 1.46 | 3.44 | | | | | | | 404.60 | 129.00 | 31.98 | 23.80 |
| Marine | 128,703.11 | 4.72 | 5.19 | | | | | | | 1,559.58 | 132.80 | 60.39 | 1,157.72 |
| Multilateral Operations | 0.32 | 0.00 | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| CO₂ Emissions from Biomass | 199,702.60 | | | | | | | | | | | | |

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

⁽⁷⁾ If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR.

⁽⁸⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

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Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|---|--|--|------------------|------------------|---------------------|---------------------------------|---------------------|-----------------|-----------------|-------------|------------------|------------------|------------------|-----------------|
| | | | | | P | A | P | A | P | A | | | | |
| | | (Gg) | | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | |
| Total National Emissions and Removals | | 3,135,270.69 | 16,835.46 | 1,043.36 | 106,381.24 | 44,388.87 | 1,918.05 | 6,491.02 | 920.03 | 0.43 | 10,278.89 | 29,885.13 | 10,152.94 | 5,806.68 |
| 1. Energy | | 3,202,851.52 | 2,897.68 | 112.33 | | | | | | | 9,954.04 | 25,798.52 | 4,528.47 | 5,528.76 |
| A. Fuel Combustion | | 3,178,630.37 | | | | | | | | | | | | |
| Reference Approach ⁽²⁾ | | | | | | | | | | | | | | |
| Sectoral Approach ⁽²⁾ | | 3,184,536.67 | 591.26 | 111.94 | | | | | | | 9,934.71 | 25,730.16 | 3,746.73 | 5,332.76 |
| 1. Energy Industries | | 1,135,487.56 | 58.52 | 30.94 | | | | | | | 1,804.81 | 451.19 | 53.46 | 3,645.01 |
| 2. Manufacturing Industries and Construction | | 548,362.93 | 56.10 | 20.35 | | | | | | | 1,386.95 | 3,293.43 | 127.47 | 960.00 |
| 3. Transport | | 825,736.87 | 111.55 | 38.28 | | | | | | | 5,358.21 | 15,311.95 | 2,637.12 | 264.81 |
| 4. Other Sectors | | 667,363.32 | 364.41 | 21.08 | | | | | | | 1,337.19 | 6,581.16 | 921.16 | 454.57 |
| 5. Other | | 7,586.00 | 0.68 | 1.28 | | | | | | | 47.54 | 92.43 | 7.52 | 8.36 |
| B. Fugitive Emissions from Fuels | | 18,314.85 | 2,306.42 | 0.39 | | | | | | | 19.33 | 68.36 | 781.74 | 196.01 |
| 1. Solid Fuels | | 1,393.76 | 1,013.37 | 0.01 | | | | | | | 1.29 | 27.65 | 6.77 | 8.97 |
| 2. Oil and Natural Gas | | 16,921.09 | 1,293.05 | 0.38 | | | | | | | 18.04 | 40.72 | 774.97 | 187.04 |
| 2. Industrial Processes | | 208,874.78 | 27.92 | 163.08 | 106,381.24 | 44,388.87 | 1,918.05 | 6,491.02 | 920.03 | 0.43 | 161.67 | 2,446.77 | 595.01 | 267.08 |
| A. Mineral Products | | 111,191.28 | 0.69 | IE,NA,NE,NO | | | | | | | 59.25 | 14.64 | 117.83 | 59.26 |
| B. Chemical Industry | | 29,897.05 | 20.69 | 162.76 | NA,NO | C,NA,NO | NA,NO | C,NA,NO | C,NA,NO | C,NA,NO | 35.96 | 173.30 | 185.14 | 101.96 |
| C. Metal Production | | 67,408.93 | 4.38 | 0.03 | | | | 3,920.84 | | 0.12 | 48.70 | 2,241.71 | 22.79 | 81.90 |
| D. Other Production ⁽³⁾ | | 43.25 | 0.31 | 0.27 | | | | | | | 17.28 | 14.82 | 254.66 | 23.83 |
| E. Production of Halocarbons and SF ₆ | | | | | | 10,908.44 | | 662.26 | | 0.00 | | | | |
| F. Consumption of Halocarbons and SF ₆ | | | | | 106,381.24 | 33,480.43 | 1,918.05 | 1,907.93 | 920.03 | 0.27 | | | | |
| G. Other | | 334.25 | 1.85 | 0.02 | NA,NE,NO | NA,NO | NA,NO | NA,NO | NA,NO | 0.03 | 0.48 | 2.30 | 14.59 | 0.13 |

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.
P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

EU-15, 2001 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|--|-----------------|------------------|---------------------|---------------------------------|---------------------|-------|-----------------|-------|-----------------|---------------|-----------------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | | (Gg) | | | CO ₂ equivalent (Gg) | | | | | | (Gg) | | |
| 3. Solvent and Other Product Use | 7,691.32 | | 10.73 | | | | | | | NA,NO,NE | NA,NO,NE | 3,235.80 | NA,NO,NE |
| 4. Agriculture | | 8,309.81 | 709.54 | | | | | | | 122.55 | 468.09 | 499.62 | 4.30 |
| A. Enteric Fermentation | | 6,028.10 | | | | | | | | | | 270.84 | |
| B. Manure Management | | 2,186.53 | 76.49 | | | | | | | | | | |
| C. Rice Cultivation | | 102.81 | | | | | | | | | | 0.10 | |
| D. Agricultural Soils ⁽⁴⁾ | | -29.95 | 632.70 | | | | | | | | | 166.76 | |
| E. Prescribed Burning of Savannas | | NA,NE,NO | NA,NE,NO | | | | | | | NO,NE | NO,NE | NO,NE | |
| F. Field Burning of Agricultural Residues | | 22.31 | 0.35 | | | | | | | 12.53 | 468.09 | 60.98 | 4.30 |
| G. Other | | NA,NO | NA,NE,NO | | | | | | | 110.02 | NA,NO | 0.93 | 0.00 |
| 5. Land Use, Land-Use Change and Forestry | ⁽⁵⁾ -286,834.77 | 122.62 | 12.45 | | | | | | | 17.02 | 594.04 | 1,207.47 | 0.43 |
| A. Forest Land | ⁽⁵⁾ -378,284.78 | 40.02 | 0.45 | | | | | | | 10.40 | 361.20 | 54.62 | |
| B. Cropland | ⁽⁵⁾ 70,477.78 | 9.86 | 11.43 | | | | | | | 2.45 | 86.31 | NA,NE,NO | |
| C. Grassland | ⁽⁵⁾ -4,843.30 | 10.69 | 0.07 | | | | | | | 2.66 | 93.49 | IE,NA,NE,NO | |
| D. Wetlands | ⁽⁵⁾ 5,407.65 | 6.29 | 0.25 | | | | | | | 0.08 | 2.70 | NA,NE,NO | |
| E. Settlements | ⁽⁵⁾ 18,649.72 | 5.55 | 0.04 | | | | | | | 1.38 | 48.59 | NA,NE,NO | |
| F. Other Land | ⁽⁵⁾ 1,601.90 | 0.20 | 0.00 | | | | | | | 0.05 | 1.75 | NA,NE,NO | |
| G. Other | ⁽⁵⁾ 156.26 | 50.00 | 0.21 | | | | | | | NA,NE,NO | NA,NE,NO | 1,152.85 | 0.43 |
| 6. Waste | 2,687.85 | 5,477.43 | 35.24 | | | | | | | 23.62 | 577.70 | 86.58 | 6.11 |
| A. Solid Waste Disposal on Land | ⁽⁶⁾ 26.49 | 4,906.40 | 0.01 | | | | | | | 0.12 | 9.63 | 35.50 | 0.10 |
| B. Waste-water Handling | | 483.26 | 32.24 | | | | | | | 0.00 | 0.00 | 3.25 | |
| C. Waste Incineration | ⁽⁶⁾ 2,661.36 | 21.76 | 0.95 | | | | | | | 23.08 | 567.93 | 29.59 | 5.95 |
| D. Other | NA,NO | 66.01 | 2.03 | | | | | | | 0.42 | 0.14 | 18.24 | 0.06 |
| 7. Other (please specify)⁽⁷⁾ | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |
| Other non-specified | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ | CH ₄ | N ₂ O | HFCs | | PFCs | | SF ₆ | | NO _x | CO | NM VOC | SO ₂ |
|--|---------------------|-----------------|------------------|---------------------------------|---|------|---|-----------------|---|-----------------|---------------|--------------|-----------------|
| | emissions/removals | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | | |
| Memo Items: ⁽⁸⁾ | | | | | | | | | | | | | |
| International Bunkers | 241,060.37 | 6.35 | 8.65 | | | | | | | 1,972.75 | 256.93 | 93.30 | 1,206.39 |
| Aviation | 107,415.87 | 1.41 | 3.41 | | | | | | | 396.56 | 126.11 | 31.38 | 24.35 |
| Marine | 133,644.50 | 4.94 | 5.24 | | | | | | | 1,576.19 | 130.81 | 61.92 | 1,182.03 |
| Multilateral Operations | 0.76 | 0.00 | 0.00 | | | | | | | 0.01 | 0.00 | 0.00 | 0.00 |
| CO₂ Emissions from Biomass | 206,856.07 | | | | | | | | | | | | |

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

⁽⁷⁾ If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR.

⁽⁸⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

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Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | | Net CO ₂ | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|---|--|---------------------|------------------|------------------|---------------------|---------------------------------|---------------------|-----------------|-----------------|-------------|------------------|------------------|------------------|-----------------|
| | | emissions/removals | | | P | A | P | A | P | A | | | | |
| | | (Gg) | | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | |
| Total National Emissions and Removals | | 3,135,270.69 | 16,835.46 | 1,043.36 | 106,381.24 | 44,388.87 | 1,918.05 | 6,491.02 | 920.03 | 0.43 | 10,278.89 | 29,885.13 | 10,152.94 | 5,806.68 |
| 1. Energy | | 3,202,851.52 | 2,897.68 | 112.33 | | | | | | | 9,954.04 | 25,798.52 | 4,528.47 | 5,528.76 |
| A. Fuel Combustion | | 3,178,630.37 | | | | | | | | | | | | |
| Reference Approach ⁽²⁾ | | | | | | | | | | | | | | |
| Sectoral Approach ⁽²⁾ | | 3,184,536.67 | 591.26 | 111.94 | | | | | | | 9,934.71 | 25,730.16 | 3,746.73 | 5,332.76 |
| 1. Energy Industries | | 1,135,487.56 | 58.52 | 30.94 | | | | | | | 1,804.81 | 451.19 | 53.46 | 3,645.01 |
| 2. Manufacturing Industries and Construction | | 548,362.93 | 56.10 | 20.35 | | | | | | | 1,386.95 | 3,293.43 | 127.47 | 960.00 |
| 3. Transport | | 825,736.87 | 111.55 | 38.28 | | | | | | | 5,358.21 | 15,311.95 | 2,637.12 | 264.81 |
| 4. Other Sectors | | 667,363.32 | 364.41 | 21.08 | | | | | | | 1,337.19 | 6,581.16 | 921.16 | 454.57 |
| 5. Other | | 7,586.00 | 0.68 | 1.28 | | | | | | | 47.54 | 92.43 | 7.52 | 8.36 |
| B. Fugitive Emissions from Fuels | | 18,314.85 | 2,306.42 | 0.39 | | | | | | | 19.33 | 68.36 | 781.74 | 196.01 |
| 1. Solid Fuels | | 1,393.76 | 1,013.37 | 0.01 | | | | | | | 1.29 | 27.65 | 6.77 | 8.97 |
| 2. Oil and Natural Gas | | 16,921.09 | 1,293.05 | 0.38 | | | | | | | 18.04 | 40.72 | 774.97 | 187.04 |
| 2. Industrial Processes | | 208,874.78 | 27.92 | 163.08 | 106,381.24 | 44,388.87 | 1,918.05 | 6,491.02 | 920.03 | 0.43 | 161.67 | 2,446.77 | 595.01 | 267.08 |
| A. Mineral Products | | 111,191.28 | 0.69 | IE,NA,NE,NO | | | | | | | 59.25 | 14.64 | 117.83 | 59.26 |
| B. Chemical Industry | | 29,897.05 | 20.69 | 162.76 | NA,NO | C,NA,NO | NA,NO | C,NA,NO | C,NA,NO | C,NA,NO | 35.96 | 173.30 | 185.14 | 101.96 |
| C. Metal Production | | 67,408.93 | 4.38 | 0.03 | | | | 3,920.84 | | 0.12 | 48.70 | 2,241.71 | 22.79 | 81.90 |
| D. Other Production ⁽³⁾ | | 43.25 | 0.31 | 0.27 | | | | | | | 17.28 | 14.82 | 254.66 | 23.83 |
| E. Production of Halocarbons and SF ₆ | | | | | | 10,908.44 | | 662.26 | | 0.00 | | | | |
| F. Consumption of Halocarbons and SF ₆ | | | | | 106,381.24 | 33,480.43 | 1,918.05 | 1,907.93 | 920.03 | 0.27 | | | | |
| G. Other | | 334.25 | 1.85 | 0.02 | NA,NE,NO | NA,NO | NA,NO | NA,NO | NA,NO | 0.03 | 0.48 | 2.30 | 14.59 | 0.13 |

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.
P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

EU-15, 2002 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|--|-----------------|------------------|---------------------------------|-------|---------------------|-------|-----------------|----------|-----------------|-------------|----------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | | | (Gg) | | | |
| 3. Solvent and Other Product Use | 7,691.32 | | 10.73 | | | | | | | NA,NO,NE | NA,NO,NE | 3,235.80 | NA,NO,NE |
| 4. Agriculture | | 8,309.81 | 709.54 | | | | | | 122.55 | 468.09 | 499.62 | 4.30 | |
| A. Enteric Fermentation | | 6,028.10 | | | | | | | | | | 270.84 | |
| B. Manure Management | | 2,186.53 | 76.49 | | | | | | | | | 0.10 | |
| C. Rice Cultivation | | 102.81 | | | | | | | | | | 166.76 | |
| D. Agricultural Soils ⁽⁴⁾ | | -29.95 | 632.70 | | | | | | | | | NO,NE | NO,NE |
| E. Prescribed Burning of Savannas | | NA,NE,NO | NA,NE,NO | | | | | | 12.53 | 468.09 | 60.98 | 4.30 | |
| F. Field Burning of Agricultural Residues | | 22.31 | 0.35 | | | | | | 110.02 | NA,NO | 0.93 | 0.00 | |
| G. Other | | NA,NO | NA,NE,NO | | | | | | | | | | |
| 5. Land Use, Land-Use Change and Forestry | ⁽⁵⁾ -286,834.77 | 122.62 | 12.45 | | | | | | 17.02 | 594.04 | 1,207.47 | 0.43 | |
| A. Forest Land | ⁽⁵⁾ -378,284.78 | 40.02 | 0.45 | | | | | | 10.40 | 361.20 | 54.62 | | |
| B. Cropland | ⁽⁵⁾ 70,477.78 | 9.86 | 11.43 | | | | | | 2.45 | 86.31 | NA,NE,NO | | |
| C. Grassland | ⁽⁵⁾ -4,843.30 | 10.69 | 0.07 | | | | | | 2.66 | 93.49 | IE,NA,NE,NO | | |
| D. Wetlands | ⁽⁵⁾ 5,407.65 | 6.29 | 0.25 | | | | | | 0.08 | 2.70 | NA,NE,NO | | |
| E. Settlements | ⁽⁵⁾ 18,649.72 | 5.55 | 0.04 | | | | | | 1.38 | 48.59 | NA,NE,NO | | |
| F. Other Land | ⁽⁵⁾ 1,601.90 | 0.20 | 0.00 | | | | | | 0.05 | 1.75 | NA,NE,NO | | |
| G. Other | ⁽⁵⁾ 156.26 | 50.00 | 0.21 | | | | | | NA,NE,NO | NA,NE,NO | 1,152.85 | 0.43 | |
| 6. Waste | 2,687.85 | 5,477.43 | 35.24 | | | | | | 23.62 | 577.70 | 86.58 | 6.11 | |
| A. Solid Waste Disposal on Land | ⁽⁶⁾ 26.49 | 4,906.40 | 0.01 | | | | | | 0.12 | 9.63 | 35.50 | 0.10 | |
| B. Waste-water Handling | | 483.26 | 32.24 | | | | | | 0.00 | 0.00 | 3.25 | | |
| C. Waste Incineration | ⁽⁶⁾ 2,661.36 | 21.76 | 0.95 | | | | | | 23.08 | 567.93 | 29.59 | 5.95 | |
| D. Other | NA,NO | 66.01 | 2.03 | | | | | | 0.42 | 0.14 | 18.24 | 0.06 | |
| 7. Other (please specify)⁽⁷⁾ | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |
| Other non-specified | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |

EU-15, 2002 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs | | PFCs | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|--|-----------------|------------------|---------------------------------|---|------|---|-----------------|---|-----------------|---------------|--------------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | | | (Gg) | | | |
| Memo Items: ⁽⁸⁾ | | | | | | | | | | | | | |
| International Bunkers | 241,060.37 | 6.35 | 8.65 | | | | | | | 1,972.75 | 256.93 | 93.30 | 1,206.39 |
| Aviation | 107,415.87 | 1.41 | 3.41 | | | | | | | 396.56 | 126.11 | 31.38 | 24.35 |
| Marine | 133,644.50 | 4.94 | 5.24 | | | | | | | 1,576.19 | 130.81 | 61.92 | 1,182.03 |
| Multilateral Operations | 0.76 | 0.00 | 0.00 | | | | | | | 0.01 | 0.00 | 0.00 | 0.00 |
| CO₂ Emissions from Biomass | 206,856.07 | | | | | | | | | | | | |

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

⁽⁷⁾ If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR.

⁽⁸⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

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Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|---|-----------------------------------|--|------------------|------------------|---------------------|---------------------------------|---------------------|-----------------|-----------------|-------------|-----------------|------------------|-----------------|-----------------|
| | | | | | P | A | P | A | P | A | | | | |
| | | (Gg) | | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | |
| Total National Emissions and Removals | | 3,155,688.35 | 15,784.81 | 1,010.69 | 137,071.05 | 49,780.89 | 2,028.09 | 6,642.60 | 1,005.26 | 0.37 | 9,915.98 | 27,186.18 | 9,734.93 | 5,096.01 |
| 1. Energy | | 3,254,129.32 | 2,570.33 | 113.14 | | | | | | | 9,597.68 | 22,887.12 | 3,901.37 | 4,826.56 |
| A. Fuel Combustion | Reference Approach ⁽²⁾ | 3,252,344.98 | | | | | | | | | | | | |
| | Sectoral Approach ⁽²⁾ | 3,235,665.63 | 550.23 | 112.78 | | | | | | | 9,574.74 | 22,830.19 | 3,218.26 | 4,655.60 |
| 1. Energy Industries | | 1,193,415.69 | 60.51 | 31.90 | | | | | | | 1,894.46 | 486.03 | 57.29 | 3,340.73 |
| 2. Manufacturing Industries and Construction | | 541,569.01 | 55.46 | 20.27 | | | | | | | 1,383.25 | 3,307.31 | 132.15 | 712.51 |
| 3. Transport | | 841,858.87 | 94.43 | 38.38 | | | | | | | 4,950.69 | 12,836.17 | 2,166.88 | 223.37 |
| 4. Other Sectors | | 650,998.65 | 339.18 | 20.84 | | | | | | | 1,303.58 | 6,113.52 | 854.68 | 372.93 |
| 5. Other | | 7,823.42 | 0.65 | 1.39 | | | | | | | 42.76 | 87.16 | 7.26 | 6.06 |
| B. Fugitive Emissions from Fuels | | 18,463.69 | 2,020.10 | 0.36 | | | | | | | 22.95 | 56.93 | 683.11 | 170.97 |
| 1. Solid Fuels | | 1,407.35 | 823.90 | 0.01 | | | | | | | 1.18 | 24.72 | 5.90 | 8.14 |
| 2. Oil and Natural Gas | | 17,056.34 | 1,196.20 | 0.35 | | | | | | | 21.77 | 32.21 | 677.21 | 162.83 |
| 2. Industrial Processes | | 212,554.98 | 29.49 | 149.78 | 137,071.05 | 49,780.89 | 2,028.09 | 6,642.60 | 1,005.26 | 0.37 | 150.46 | 2,364.59 | 561.28 | 259.31 |
| A. Mineral Products | | 113,039.21 | 0.69 | IE,NA,NE,NO | | | | | | | 55.13 | 14.00 | 110.37 | 60.79 |
| B. Chemical Industry | | 30,382.66 | 22.24 | 149.46 | NA,NO | C,NA,NO | NA,NO | C,NA,NO | C,NA,NO | C,NA,NO | 31.33 | 128.23 | 169.57 | 88.34 |
| C. Metal Production | | 68,758.80 | 4.38 | 0.03 | | | | 3,965.04 | | 0.11 | 46.12 | 2,204.00 | 21.50 | 82.28 |
| D. Other Production ⁽³⁾ | | 46.53 | 0.32 | 0.28 | | | | | | | 17.52 | 15.32 | 248.07 | 21.53 |
| E. Production of Halocarbons and SF ₆ | | | | | | 7,894.00 | | 747.99 | | 0.01 | | | | |
| F. Consumption of Halocarbons and SF ₆ | | | | | 137,071.05 | 41,886.60 | 2,028.09 | 1,929.57 | 1,005.26 | 0.23 | | | | |
| G. Other | | 327.78 | 1.85 | 0.02 | NA,NE,NO | NA,NO | NA,NO | NA,NO | NA,NO | 0.02 | 0.36 | 3.03 | 11.77 | 6.37 |

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.
P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

EU-15, 2003 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|--|---------------------------------|------------------|---------------------|--------------|---------------------|--------------|-----------------|--------------|-----------------|---------------|-----------------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | (Gg) | CO ₂ equivalent (Gg) | | | | | | (Gg) | | | | | |
| 3. Solvent and Other Product Use | 7,372.81 | | 10.25 | | | | | | | NA,NO,NE | NA,NO,NE | 3,101.19 | NA,NO,NE |
| 4. Agriculture | | 8,126.89 | 689.81 | | | | | | | 120.18 | 523.16 | 535.66 | 4.94 |
| A. Enteric Fermentation | | 5,875.20 | | | | | | | | | | | |
| B. Manure Management | | 2,147.55 | 73.06 | | | | | | | | | 264.46 | |
| C. Rice Cultivation | | 109.11 | | | | | | | | | | 0.10 | |
| D. Agricultural Soils ⁽⁴⁾ | | -29.90 | 616.37 | | | | | | | | | 200.71 | |
| E. Prescribed Burning of Savannas | | NA,NE,NO | NA,NE,NO | | | | | | | NO,NE | NO,NE | NO,NE | |
| F. Field Burning of Agricultural Residues | | 24.93 | 0.38 | | | | | | | 13.56 | 523.16 | 69.38 | 4.94 |
| G. Other | | NA,NO | NA,NE,NO | | | | | | | 106.62 | NA,NO | 1.01 | 0.00 |
| 5. Land Use, Land-Use Change and Forestry | ⁽⁵⁾ -321,062.42 | 143.90 | 12.27 | | | | | | | 25.28 | 870.85 | 1,550.61 | 0.96 |
| A. Forest Land | ⁽⁵⁾ -373,595.75 | 66.51 | 0.70 | | | | | | | 18.70 | 639.07 | 75.01 | |
| B. Cropland | ⁽⁵⁾ 66,726.06 | 9.93 | 11.01 | | | | | | | 2.47 | 86.84 | NA,NE,NO | |
| C. Grassland | ⁽⁵⁾ -40,545.26 | 10.45 | 0.07 | | | | | | | 2.59 | 91.28 | IE,NA,NE,NO | |
| D. Wetlands | ⁽⁵⁾ 5,426.84 | 6.19 | 0.25 | | | | | | | 0.08 | 2.72 | NA,NE,NO | |
| E. Settlements | ⁽⁵⁾ 18,812.79 | 5.55 | 0.04 | | | | | | | 1.38 | 48.56 | NA,NE,NO | |
| F. Other Land | ⁽⁵⁾ 1,709.59 | 0.27 | 0.00 | | | | | | | 0.07 | 2.37 | NA,NE,NO | |
| G. Other | ⁽⁵⁾ 403.32 | 45.00 | 0.21 | | | | | | | NA,NE,NO | NA,NE,NO | 1,475.60 | 0.96 |
| 6. Waste | 2,693.65 | 4,914.21 | 35.43 | | | | | | | 22.37 | 540.47 | 84.82 | 4.25 |
| A. Solid Waste Disposal on Land | ⁽⁶⁾ 15.88 | 4,339.13 | 0.01 | | | | | | | 0.08 | 8.98 | 31.67 | 0.06 |
| B. Waste-water Handling | | 483.67 | 32.23 | | | | | | | NA,NE,NO | NA,NE,NO | 3.35 | |
| C. Waste Incineration | ⁽⁶⁾ 2,677.77 | 21.23 | 0.95 | | | | | | | 22.24 | 531.45 | 29.13 | 4.16 |
| D. Other | NA,NO | 70.17 | 2.25 | | | | | | | 0.05 | 0.04 | 20.68 | 0.03 |
| 7. Other (please specify)⁽⁷⁾ | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |
| Other non-specified | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |

EU-15, 2003 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ | CH ₄ | N ₂ O | HFCs | | PFCs | | SF ₆ | | NO _x | CO | NMIVOC | SO ₂ |
|--|---------------------|-----------------|------------------|---------------------------------|---|------|---|-----------------|---|-----------------|---------------|--------------|-----------------|
| | emissions/removals | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | | |
| Memo Items: ⁽⁸⁾ | | | | | | | | | | | | | |
| International Bunkers | 248,503.28 | 6.50 | 9.90 | | | | | | | 2,029.40 | 260.38 | 94.96 | 1,280.95 |
| Aviation | 108,891.32 | 1.42 | 3.43 | | | | | | | 394.39 | 126.16 | 31.38 | 24.13 |
| Marine | 139,611.96 | 5.07 | 6.47 | | | | | | | 1,635.01 | 134.22 | 63.58 | 1,256.82 |
| Multilateral Operations | 0.76 | 0.00 | 0.00 | | | | | | | 0.01 | 0.00 | 0.00 | 0.00 |
| CO₂ Emissions from Biomass | 221,432.97 | | | | | | | | | | | | |

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

⁽⁷⁾ If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR.

⁽⁸⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

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Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NM VOC | SO ₂ |
|---|---------------------|------------------|------------------|---------------------------------|------------------|---------------------|-----------------|-----------------|-------------|------------------|------------------|------------------|-----------------|
| | emissions/removals | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | | |
| Total National Emissions and Removals | 3,135,270.69 | 16,835.46 | 1,043.36 | 106,381.24 | 44,388.87 | 1,918.05 | 6,491.02 | 920.03 | 0.43 | 10,278.89 | 29,885.13 | 10,152.94 | 5,806.68 |
| 1. Energy | 3,202,851.52 | 2,897.68 | 112.33 | | | | | | | 9,954.04 | 25,798.52 | 4,528.47 | 5,528.76 |
| A. Fuel Combustion | 3,178,630.37 | | | | | | | | | | | | |
| Reference Approach ⁽²⁾ | | | | | | | | | | | | | |
| Sectoral Approach ⁽²⁾ | 3,184,536.67 | 591.26 | 111.94 | | | | | | | 9,934.71 | 25,730.16 | 3,746.73 | 5,332.76 |
| 1. Energy Industries | 1,135,487.56 | 58.52 | 30.94 | | | | | | | 1,804.81 | 451.19 | 53.46 | 3,645.01 |
| 2. Manufacturing Industries and Construction | 548,362.93 | 56.10 | 20.35 | | | | | | | 1,386.95 | 3,293.43 | 127.47 | 960.00 |
| 3. Transport | 825,736.87 | 111.55 | 38.28 | | | | | | | 5,358.21 | 15,311.95 | 2,637.12 | 264.81 |
| 4. Other Sectors | 667,363.32 | 364.41 | 21.08 | | | | | | | 1,337.19 | 6,581.16 | 921.16 | 454.57 |
| 5. Other | 7,586.00 | 0.68 | 1.28 | | | | | | | 47.54 | 92.43 | 7.52 | 8.36 |
| B. Fugitive Emissions from Fuels | 18,314.85 | 2,306.42 | 0.39 | | | | | | | 19.33 | 68.36 | 781.74 | 196.01 |
| 1. Solid Fuels | 1,393.76 | 1,013.37 | 0.01 | | | | | | | 1.29 | 27.65 | 6.77 | 8.97 |
| 2. Oil and Natural Gas | 16,921.09 | 1,293.05 | 0.38 | | | | | | | 18.04 | 40.72 | 774.97 | 187.04 |
| 2. Industrial Processes | 208,874.78 | 27.92 | 163.08 | 106,381.24 | 44,388.87 | 1,918.05 | 6,491.02 | 920.03 | 0.43 | 161.67 | 2,446.77 | 595.01 | 267.08 |
| A. Mineral Products | 111,191.28 | 0.69 | IE,NA,NE,NO | | | | | | | 59.25 | 14.64 | 117.83 | 59.26 |
| B. Chemical Industry | 29,897.05 | 20.69 | 162.76 | NA,NO | C,NA,NO | NA,NO | C,NA,NO | C,NA,NO | C,NA,NO | 35.96 | 173.30 | 185.14 | 101.96 |
| C. Metal Production | 67,408.93 | 4.38 | 0.03 | | | | 3,920.84 | | 0.12 | 48.70 | 2,241.71 | 22.79 | 81.90 |
| D. Other Production ⁽³⁾ | 43.25 | 0.31 | 0.27 | | | | | | | 17.28 | 14.82 | 254.66 | 23.83 |
| E. Production of Halocarbons and SF ₆ | | | | | 10,908.44 | | 662.26 | | 0.00 | | | | |
| F. Consumption of Halocarbons and SF ₆ | | | | 106,381.24 | 33,480.43 | 1,918.05 | 1,907.93 | 920.03 | 0.27 | | | | |
| G. Other | 334.25 | 1.85 | 0.02 | NA,NE,NO | NA,NO | NA,NO | NA,NO | NA,NO | 0.03 | 0.48 | 2.30 | 14.59 | 0.13 |

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.
P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

EU-15, 2004 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|--|-----------------|------------------|---------------------|---------------------------------|---------------------|-------|-----------------|--------------|-----------------|-----------------|-----------------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | |
| 3. Solvent and Other Product Use | 7,691.32 | | 10.73 | | | | | | | NA,NO,NE | NA,NO,NE | 3,235.80 | NA,NO,NE |
| 4. Agriculture | | 8,309.81 | 709.54 | | | | | | | 122.55 | 468.09 | 499.62 | 4.30 |
| A. Enteric Fermentation | | 6,028.10 | | | | | | | | | | | |
| B. Manure Management | | 2,186.53 | 76.49 | | | | | | | | | 270.84 | |
| C. Rice Cultivation | | 102.81 | | | | | | | | | | 0.10 | |
| D. Agricultural Soils ⁽⁴⁾ | | -29.95 | 632.70 | | | | | | | | | 166.76 | |
| E. Prescribed Burning of Savannas | | NA,NE,NO | NA,NE,NO | | | | | | NO,NE | NO,NE | NO,NE | | |
| F. Field Burning of Agricultural Residues | | 22.31 | 0.35 | | | | | | 12.53 | 468.09 | 60.98 | | 4.30 |
| G. Other | | NA,NO | NA,NE,NO | | | | | | 110.02 | NA,NO | 0.93 | | 0.00 |
| 5. Land Use, Land-Use Change and Forestry | ⁽⁵⁾ -286,834.77 | 122.62 | 12.45 | | | | | | 17.02 | 594.04 | 1,207.47 | 0.43 | |
| A. Forest Land | ⁽⁵⁾ -378,284.78 | 40.02 | 0.45 | | | | | | 10.40 | 361.20 | 54.62 | | |
| B. Cropland | ⁽⁵⁾ 70,477.78 | 9.86 | 11.43 | | | | | | 2.45 | 86.31 | NA,NE,NO | | |
| C. Grassland | ⁽⁵⁾ -4,843.30 | 10.69 | 0.07 | | | | | | 2.66 | 93.49 | IE,NA,NE,NO | | |
| D. Wetlands | ⁽⁵⁾ 5,407.65 | 6.29 | 0.25 | | | | | | 0.08 | 2.70 | NA,NE,NO | | |
| E. Settlements | ⁽⁵⁾ 18,649.72 | 5.55 | 0.04 | | | | | | 1.38 | 48.59 | NA,NE,NO | | |
| F. Other Land | ⁽⁵⁾ 1,601.90 | 0.20 | 0.00 | | | | | | 0.05 | 1.75 | NA,NE,NO | | |
| G. Other | ⁽⁵⁾ 156.26 | 50.00 | 0.21 | | | | | | NA,NE,NO | NA,NE,NO | 1,152.85 | | 0.43 |
| 6. Waste | 2,687.85 | 5,477.43 | 35.24 | | | | | | 23.62 | 577.70 | 86.58 | 6.11 | |
| A. Solid Waste Disposal on Land | ⁽⁶⁾ 26.49 | 4,906.40 | 0.01 | | | | | | 0.12 | 9.63 | 35.50 | | 0.10 |
| B. Waste-water Handling | | 483.26 | 32.24 | | | | | | 0.00 | 0.00 | 3.25 | | |
| C. Waste Incineration | ⁽⁶⁾ 2,661.36 | 21.76 | 0.95 | | | | | | 23.08 | 567.93 | 29.59 | | 5.95 |
| D. Other | NA,NO | 66.01 | 2.03 | | | | | | 0.42 | 0.14 | 18.24 | | 0.06 |
| 7. Other (please specify)⁽⁷⁾ | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |
| Other non-specified | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |

EU-15, 2004 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ | CH ₄ | N ₂ O | HFCs | | PFCs | | SF ₆ | | NO _x | CO | NMVOG | SO ₂ |
|--|---------------------|-----------------|------------------|---------------------------------|---|------|---|-----------------|---|-----------------|--------|--------|-----------------|
| | emissions/removals | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | | | (Gg) | | | |
| Memo Items: ⁽⁸⁾ | | | | | | | | | | | | | |
| International Bunkers | 265,647.42 | 6.77 | 10.52 | | | | | | | 2,129.72 | 276.08 | 100.23 | 1,357.61 |
| Aviation | 117,398.72 | 1.51 | 3.71 | | | | | | | 422.99 | 136.26 | 33.76 | 26.38 |
| Marine | 148,248.70 | 5.26 | 6.81 | | | | | | | 1,706.73 | 139.82 | 66.47 | 1,331.23 |
| Multilateral Operations | 0.76 | 0.00 | 0.00 | | | | | | | 0.01 | 0.00 | 0.00 | 0.00 |
| CO₂ Emissions from Biomass | 236,871.17 | | | | | | | | | | | | |

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

⁽⁷⁾ If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR.

⁽⁸⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

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Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|---|--|--|------------------|------------------|---------------------|---------------------------------|---------------------|-----------------|-----------------|-------------|-----------------|------------------|-----------------|-----------------|
| | | | | | P | A | P | A | P | A | | | | |
| | | (Gg) | | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | |
| Total National Emissions and Removals | | 3,156,423.84 | 14,943.71 | 995.26 | 161,219.76 | 53,422.96 | 1,868.30 | 4,053.18 | 1,083.15 | 0.38 | 9,441.90 | 24,120.44 | 8,875.00 | 4,561.67 |
| 1. Energy | | 3,230,636.80 | 2,273.14 | 112.06 | | | | | | | 9,133.66 | 19,901.26 | 3,319.30 | 4,300.71 |
| A. Fuel Combustion | | | | | | | | | | | | | | |
| Reference Approach ⁽²⁾ | | 3,236,716.49 | | | | | | | | | | | | |
| Sectoral Approach ⁽²⁾ | | 3,212,299.21 | 521.02 | 111.68 | | | | | | | 9,108.31 | 19,847.91 | 2,698.01 | 4,113.24 |
| 1. Energy Industries | | 1,195,673.95 | 61.33 | 31.66 | | | | | | | 1,871.55 | 492.63 | 53.77 | 2,906.30 |
| 2. Manufacturing Industries and Construction | | 527,804.69 | 55.76 | 20.69 | | | | | | | 1,398.09 | 3,239.02 | 135.49 | 668.84 |
| 3. Transport | | 848,403.58 | 78.19 | 37.23 | | | | | | | 4,540.31 | 10,282.74 | 1,708.98 | 195.26 |
| 4. Other Sectors | | 632,512.40 | 325.04 | 20.77 | | | | | | | 1,242.74 | 5,725.94 | 790.59 | 336.11 |
| 5. Other | | 7,904.59 | 0.69 | 1.34 | | | | | | | 55.63 | 107.58 | 9.17 | 6.74 |
| B. Fugitive Emissions from Fuels | | 18,337.59 | 1,752.12 | 0.38 | | | | | | | 25.35 | 53.35 | 621.29 | 187.47 |
| 1. Solid Fuels | | 1,342.57 | 589.88 | 0.01 | | | | | | | 1.16 | 20.66 | 6.40 | 8.53 |
| 2. Oil and Natural Gas | | 16,995.02 | 1,162.24 | 0.37 | | | | | | | 24.19 | 32.69 | 614.89 | 178.94 |
| 2. Industrial Processes | | 218,175.44 | 30.66 | 151.37 | 161,219.76 | 53,422.96 | 1,868.30 | 4,053.18 | 1,083.15 | 0.38 | 149.66 | 2,554.76 | 534.12 | 253.16 |
| A. Mineral Products | | 115,801.70 | 0.62 | IE,NA,NE,NO | | | | | | | 51.75 | 16.00 | 98.20 | 59.99 |
| B. Chemical Industry | | 31,783.99 | 21.04 | 151.04 | NA,NO | C,NA,NO | NA,NO | C,NA,NO | C,NA,NO | C,NA,NO | 33.56 | 119.39 | 147.43 | 85.74 |
| C. Metal Production | | 70,170.87 | 6.92 | 0.03 | | | | 1,835.51 | | 0.12 | 44.99 | 2,398.99 | 22.07 | 84.08 |
| D. Other Production ⁽³⁾ | | 33.89 | 0.32 | 0.28 | | | | | | | 19.02 | 15.38 | 255.65 | 16.46 |
| E. Production of Halocarbons and SF ₆ | | | | | | 4,715.42 | | 475.50 | | 0.00 | | | | |
| F. Consumption of Halocarbons and SF ₆ | | | | | 161,219.76 | 48,704.06 | 1,868.30 | 1,742.17 | 1,083.15 | 0.23 | | | | |
| G. Other | | 384.99 | 1.76 | 0.02 | NA,NE,NO | NA,NO | NA,NO | NA,NO | NA,NO | 0.02 | 0.34 | 5.00 | 10.76 | 6.88 |

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.
P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

EU-15, 2005 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|--|-----------------|------------------|---------------------|-------|---------------------|-------|-----------------|----------|-----------------|-------------|----------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | | | | | | | | | | |
| CO ₂ equivalent (Gg) | | | | | | | | | | | | | |
| 3. Solvent and Other Product Use | 7,423.33 | | 9.71 | | | | | | | NA,NO,NE | NA,NO,NE | 3,122.01 | NA,NO,NE |
| 4. Agriculture | | 8,002.27 | 674.00 | | | | | | | 114.30 | 343.41 | 486.96 | 2.99 |
| A. Enteric Fermentation | | 5,761.02 | | | | | | | | | | | |
| B. Manure Management | | 2,146.49 | 72.24 | | | | | | | | | 263.33 | |
| C. Rice Cultivation | | 108.35 | | | | | | | | | | 0.09 | |
| D. Agricultural Soils ⁽⁴⁾ | | -29.96 | 601.49 | | | | | | | | | 178.90 | |
| E. Prescribed Burning of Savannas | | NA,NO | NA,NO | | | | | | NO,NE | NO,NE | NO,NE | | |
| F. Field Burning of Agricultural Residues | | 16.37 | 0.26 | | | | | | 9.54 | 343.41 | 43.69 | | 2.99 |
| G. Other | | NA,NO | NA,NE,NO | | | | | | 104.75 | NA,NO | 0.96 | | 0.00 |
| 5. Land Use, Land-Use Change and Forestry | ⁽⁵⁾ -302,467.83 | 126.13 | 11.90 | | | | | | | 20.65 | 720.30 | 1,327.42 | 0.39 |
| A. Forest Land | ⁽⁵⁾ -391,059.70 | 53.89 | 0.58 | | | | | | 14.19 | 492.80 | 58.68 | | |
| B. Cropland | ⁽⁵⁾ 65,588.78 | 10.00 | 10.74 | | | | | | 2.48 | 87.47 | NA,NE,NO | | |
| C. Grassland | ⁽⁵⁾ -2,994.57 | 10.30 | 0.07 | | | | | | 2.56 | 90.26 | IE,NA,NE,NO | | |
| D. Wetlands | ⁽⁵⁾ 5,453.55 | 6.54 | 0.27 | | | | | | 0.07 | 2.51 | NA,NE,NO | | |
| E. Settlements | ⁽⁵⁾ 18,432.72 | 5.22 | 0.03 | | | | | | 1.30 | 45.72 | NA,NE,NO | | |
| F. Other Land | ⁽⁵⁾ 1,480.97 | 0.18 | 0.00 | | | | | | 0.04 | 1.53 | NA,NE,NO | | |
| G. Other | ⁽⁵⁾ 630.42 | 40.00 | 0.21 | | | | | | NA,NE,NO | NA,NE,NO | 1,268.74 | | 0.39 |
| 6. Waste | 2,656.10 | 4,511.51 | 36.22 | | | | | | | 23.63 | 600.71 | 85.18 | 4.42 |
| A. Solid Waste Disposal on Land | ⁽⁶⁾ 13.59 | 3,936.51 | 0.01 | | | | | | | 0.08 | 8.07 | 29.67 | 0.05 |
| B. Waste-water Handling | | 481.05 | 32.59 | | | | | | NA,NE,NO | NA,NE,NO | 3.52 | | |
| C. Waste Incineration | ⁽⁶⁾ 2,642.51 | 23.71 | 0.98 | | | | | | 23.50 | 592.59 | 31.97 | | 4.35 |
| D. Other | NA,NO | 70.23 | 2.65 | | | | | | 0.05 | 0.04 | 20.02 | | 0.02 |
| 7. Other (please specify)⁽⁷⁾ | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |
| Other non-specified | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ | CH ₄ | N ₂ O | HFCs | | PFCs | | SF ₆ | | NO _x | CO | NM VOC | SO ₂ |
|--|---------------------|-----------------|------------------|---------------------------------|---|------|---|-----------------|---|-----------------|---------------|---------------|-----------------|
| | emissions/removals | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | | | (Gg) | | | |
| Memo Items: ⁽⁸⁾ | | | | | | | | | | | | | |
| International Bunkers | 278,696.92 | 6.95 | 10.88 | | | | | | | 2,136.92 | 278.28 | 103.43 | 1,368.51 |
| Aviation | 123,010.55 | 1.57 | 3.88 | | | | | | | 437.81 | 143.58 | 36.61 | 27.05 |
| Marine | 155,686.37 | 5.38 | 7.00 | | | | | | | 1,699.11 | 134.70 | 66.82 | 1,341.45 |
| Multilateral Operations | 1.78 | 0.00 | 0.00 | | | | | | | 0.01 | 0.00 | 0.00 | 0.00 |
| CO₂ Emissions from Biomass | 244,969.88 | | | | | | | | | | | | |

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

⁽⁷⁾ If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR.

⁽⁸⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

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Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|---|--|------------------|------------------|---------------------|---------------------------------|---------------------|-----------------|-----------------|-------------|-----------------|------------------|-----------------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | |
| Total National Emissions and Removals | 3,157,670.87 | 14,697.49 | 950.45 | 170,105.64 | 54,237.35 | 1,789.06 | 3,614.11 | 1,179.07 | 0.39 | 9,141.32 | 23,083.34 | 8,703.77 | 4,353.63 |
| I. Energy | 3,221,246.66 | 2,138.32 | 112.90 | | | | | | | 8,834.55 | 18,949.77 | 3,039.96 | 4,090.08 |
| A. Fuel Combustion | Reference Approach ⁽²⁾ | | | | | | | | | | | | |
| | Sectoral Approach ⁽²⁾ | 3,202,790.75 | 511.15 | 112.54 | | | | | | 8,807.27 | 18,889.46 | 2,443.23 | 3,908.62 |
| 1. Energy Industries | | 1,195,430.97 | 58.15 | 31.91 | | | | | | 1,813.02 | 494.38 | 54.31 | 2,710.84 |
| 2. Manufacturing Industries and Construction | | 529,660.58 | 55.03 | 21.14 | | | | | | 1,372.71 | 3,340.90 | 136.69 | 650.90 |
| 3. Transport | | 849,915.01 | 73.57 | 37.55 | | | | | | 4,371.22 | 9,269.30 | 1,483.56 | 210.46 |
| 4. Other Sectors | | 620,362.57 | 323.78 | 20.57 | | | | | | 1,201.18 | 5,690.93 | 760.88 | 329.61 |
| 5. Other | | 7,421.61 | 0.61 | 1.36 | | | | | | 49.14 | 93.95 | 7.79 | 6.81 |
| B. Fugitive Emissions from Fuels | | 18,455.91 | 1,627.17 | 0.36 | | | | | | 27.28 | 60.31 | 596.73 | 181.47 |
| 1. Solid Fuels | | 1,393.04 | 530.03 | 0.01 | | | | | | 1.20 | 24.48 | 6.34 | 8.58 |
| 2. Oil and Natural Gas | | 17,062.87 | 1,097.14 | 0.35 | | | | | | 26.08 | 35.83 | 590.39 | 172.88 |
| 2. Industrial Processes | 220,749.70 | 30.52 | 116.94 | 170,105.64 | 54,237.35 | 1,789.06 | 3,614.11 | 1,179.07 | 0.39 | 148.00 | 2,405.75 | 536.77 | 255.28 |
| A. Mineral Products | 117,464.55 | 0.92 | IE,NA,NE,NO | | | | | | | 52.82 | 16.41 | 106.73 | 61.18 |
| B. Chemical Industry | 30,997.19 | 20.05 | 116.61 | NA,NO | C,NA,NO | NA,NO | C,NA,NO | C,NA,NO | C,NA,NO | 28.12 | 128.58 | 134.61 | 88.61 |
| C. Metal Production | 71,898.14 | 7.45 | 0.03 | | | | 1,568.43 | | 0.14 | 46.56 | 2,240.69 | 21.73 | 82.51 |
| D. Other Production ⁽³⁾ | 20.13 | 0.32 | 0.28 | | | | | | | 20.15 | 15.65 | 263.24 | 15.98 |
| E. Production of Halocarbons and SF ₆ | | | | | 2,577.47 | | 345.13 | | 0.01 | | | | |
| F. Consumption of Halocarbons and SF ₆ | | | | 170,105.64 | 51,656.59 | 1,789.06 | 1,700.56 | 1,179.07 | 0.23 | | | | |
| G. Other | 369.70 | 1.79 | 0.02 | NA,NE,NO | NA,NO | NA,NE,NO | NA,NO | NA,NO | 0.02 | 0.35 | 4.41 | 10.45 | 7.00 |

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.
P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|--|-----------------|------------------|---------------------|-------|---------------------|-------|-----------------|-------|-----------------|----------|-------------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | | | | | | | | | | |
| CO ₂ equivalent (Gg) | | | | | | | | | | | | | |
| 3. Solvent and Other Product Use | 7,333.70 | | 9.89 | | | | | | | NA,NO,NE | NA,NO,NE | 3,100.32 | NA,NO,NE |
| 4. Agriculture | | 7,979.65 | 662.10 | | | | | | | 115.60 | 420.33 | 501.62 | 3.84 |
| A. Enteric Fermentation | | 5,716.49 | | | | | | | | | | | |
| B. Manure Management | | 2,163.58 | 71.13 | | | | | | | | | 258.89 | |
| C. Rice Cultivation | | 109.29 | | | | | | | | | | 0.10 | |
| D. Agricultural Soils ⁽⁴⁾ | | -29.75 | 590.67 | | | | | | | | | 186.72 | |
| E. Prescribed Burning of Savannas | | NA,NO | NA,NO | | | | | | | NO,NE | NO,NE | NO,NE | |
| F. Field Burning of Agricultural Residues | | 20.04 | 0.31 | | | | | | | 11.19 | 420.33 | 54.90 | 3.84 |
| G. Other | | NA,NO | NA,NE,NO | | | | | | | 104.41 | NA,NO | 1.02 | 0.00 |
| 5. Land Use, Land-Use Change and Forestry | ⁽⁵⁾ -294,337.65 | 129.37 | 12.29 | | | | | | | 21.03 | 738.23 | 1,440.28 | 0.22 |
| A. Forest Land | ⁽⁵⁾ -395,583.28 | 58.44 | 0.61 | | | | | | | 14.65 | 513.30 | 59.39 | |
| B. Cropland | ⁽⁵⁾ 66,429.01 | 9.88 | 11.10 | | | | | | | 2.45 | 86.44 | NA,NE,NO | |
| C. Grassland | ⁽⁵⁾ 1,480.34 | 10.09 | 0.07 | | | | | | | 2.50 | 88.20 | IE,NA,NE,NO | |
| D. Wetlands | ⁽⁵⁾ 4,672.66 | 6.52 | 0.26 | | | | | | | 0.07 | 2.61 | NA,NE,NO | |
| E. Settlements | ⁽⁵⁾ 27,062.66 | 5.28 | 0.04 | | | | | | | 1.31 | 46.16 | NA,NE,NO | |
| F. Other Land | ⁽⁵⁾ 1,378.61 | 0.17 | 0.00 | | | | | | | 0.04 | 1.52 | NA,NE,NO | |
| G. Other | ⁽⁵⁾ 222.35 | 39.00 | 0.20 | | | | | | | NA,NE,NO | NA,NE,NO | 1,380.89 | 0.22 |
| 6. Waste | 2,678.46 | 4,419.64 | 36.33 | | | | | | | 22.14 | 569.27 | 84.82 | 4.20 |
| A. Solid Waste Disposal on Land | ⁽⁶⁾ 13.29 | 3,840.05 | 0.00 | | | | | | | 0.07 | 7.60 | 28.76 | 0.05 |
| B. Waste-water Handling | | 484.99 | 32.79 | | | | | | | NA,NE,NO | NA,NE,NO | 3.54 | |
| C. Waste Incineration | ⁽⁶⁾ 2,665.17 | 22.47 | 0.96 | | | | | | | 22.02 | 561.62 | 30.83 | 4.13 |
| D. Other | NA,NO | 72.13 | 2.57 | | | | | | | 0.04 | 0.04 | 21.69 | 0.02 |
| 7. Other (please specify)⁽⁷⁾ | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |
| Other non-specified | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ | CH ₄ | N ₂ O | HFCs | | PFCs | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|---------------------|---------------------------------|------------------|------|---|------|---|-----------------|---|-----------------|---------------|---------------|-----------------|
| | emissions/removals | | | P | A | P | A | P | A | | | | |
| | (Gg) | CO ₂ equivalent (Gg) | | | | | | (Gg) | | | | | |
| Memo Items: ⁽⁸⁾ | | | | | | | | | | | | | |
| International Bunkers | 293,890.22 | 7.29 | 11.65 | | | | | | | 2,287.68 | 296.82 | 110.02 | 1,426.51 |
| Aviation | 128,201.05 | 1.60 | 4.04 | | | | | | | 456.89 | 150.34 | 38.30 | 30.01 |
| Marine | 165,689.17 | 5.69 | 7.61 | | | | | | | 1,830.80 | 146.48 | 71.72 | 1,396.50 |
| Multilateral Operations | 2.73 | 0.00 | 0.00 | | | | | | | 0.02 | 0.00 | 0.00 | 0.00 |
| CO₂ Emissions from Biomass | 260,415.03 | | | | | | | | | | | | |

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

⁽⁷⁾ If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR.

⁽⁸⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

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Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | | Net CO ₂ | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NM VOC | SO ₂ |
|---|--|---------------------|------------------|------------------|---------------------|---------------------------------|---------------------|-----------------|-----------------|-------------|-----------------|------------------|-----------------|-----------------|
| | | emissions/removals | | | P | A | P | A | P | A | | | | |
| | | (Gg) | | | | CO ₂ equivalent (Gg) | | | | (Gg) | | | | |
| Total National Emissions and Removals | | 3,125,915.64 | 14,521.00 | 943.54 | 178,931.66 | 56,635.24 | 1,725.10 | 3,349.11 | 1,214.56 | 0.39 | 8,812.29 | 22,082.63 | 8,205.16 | 4,163.46 |
| I. Energy | | 3,155,622.00 | 2,036.45 | 111.77 | | | | | | | 8,511.49 | 18,156.76 | 2,868.34 | 3,898.02 |
| A. Fuel Combustion | | 3,166,984.77 | | | | | | | | | | | | |
| Reference Approach ⁽²⁾ | | | | | | | | | | | | | | |
| Sectoral Approach ⁽²⁾ | | 3,137,251.89 | 514.49 | 111.43 | | | | | | | 8,487.79 | 18,095.64 | 2,289.91 | 3,723.16 |
| 1. Energy Industries | | 1,207,863.92 | 56.45 | 31.85 | | | | | | | 1,760.21 | 505.72 | 53.43 | 2,571.16 |
| 2. Manufacturing Industries and Construction | | 517,244.44 | 56.72 | 21.02 | | | | | | | 1,354.22 | 3,346.86 | 135.36 | 650.08 |
| 3. Transport | | 850,892.12 | 68.88 | 37.56 | | | | | | | 4,206.17 | 8,451.24 | 1,361.63 | 209.46 |
| 4. Other Sectors | | 553,577.21 | 331.89 | 19.70 | | | | | | | 1,118.38 | 5,704.99 | 732.18 | 285.96 |
| 5. Other | | 7,674.21 | 0.54 | 1.31 | | | | | | | 48.80 | 86.83 | 7.31 | 6.50 |
| B. Fugitive Emissions from Fuels | | 18,370.11 | 1,521.96 | 0.34 | | | | | | | 23.69 | 61.12 | 578.43 | 174.86 |
| 1. Solid Fuels | | 1,397.00 | 435.99 | 0.01 | | | | | | | 1.08 | 24.47 | 6.12 | 10.52 |
| 2. Oil and Natural Gas | | 16,973.11 | 1,085.97 | 0.33 | | | | | | | 22.62 | 36.65 | 572.32 | 164.34 |
| 2. Industrial Processes | | 225,787.47 | 31.63 | 118.34 | 178,931.66 | 56,635.24 | 1,725.10 | 3,349.11 | 1,214.56 | 0.39 | 150.19 | 2,325.02 | 523.10 | 256.52 |
| A. Mineral Products | | 119,297.86 | 0.97 | IE,NA,NE,NO | | | | | | | 54.56 | 15.29 | 100.27 | 60.51 |
| B. Chemical Industry | | 32,307.41 | 20.85 | 118.01 | NA,NO | C,NA,NO | NA,NO | C,NA,NO | C,NA,NO | C,NA,NO | 28.89 | 128.37 | 128.06 | 90.16 |
| C. Metal Production | | 73,837.02 | 7.73 | 0.03 | | | | 1,429.86 | | 0.13 | 46.05 | 2,161.39 | 20.56 | 84.63 |
| D. Other Production ⁽³⁾ | | 29.46 | 0.32 | 0.28 | | | | | | | 20.37 | 15.63 | 263.76 | 14.67 |
| E. Production of Halocarbons and SF ₆ | | | | | | 1,831.99 | | 322.40 | | C,NA,NO | | | | |
| F. Consumption of Halocarbons and SF ₆ | | | | | 178,931.66 | 54,792.90 | 1,725.10 | 1,596.85 | 1,214.56 | 0.25 | | | | |
| G. Other | | 315.72 | 1.76 | 0.02 | NA,NE,NO | NA,NO | NA,NE,NO | NA,NO | NA,NO | 0.01 | 0.32 | 4.34 | 10.45 | 6.54 |

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.
P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ emissions/removals | CH ₄ | N ₂ O | HFCs ⁽¹⁾ | | PFCs ⁽¹⁾ | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|--|-----------------|------------------|---------------------------------|-------|---------------------|-------|-----------------|-------|-----------------|----------|-------------|-----------------|
| | | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | | | (Gg) | | | |
| 3. Solvent and Other Product Use | 7,281.64 | | 10.28 | | | | | | | NA,NO,NE | NA,NO,NE | 3,078.07 | NA,NO,NE |
| 4. Agriculture | | 8,011.73 | 655.60 | | | | | | | 111.79 | 420.51 | 480.06 | 3.84 |
| A. Enteric Fermentation | | 5,738.05 | | | | | | | | | | | |
| B. Manure Management | | 2,170.11 | 71.80 | | | | | | | | | 263.30 | |
| C. Rice Cultivation | | 113.26 | | | | | | | | | | 0.11 | |
| D. Agricultural Soils ⁽⁴⁾ | | -29.74 | 583.49 | | | | | | | | | 160.72 | |
| E. Prescribed Burning of Savannas | | NA,NO | NA,NO | | | | | | | NO,NE | NO,NE | NO,NE | |
| F. Field Burning of Agricultural Residues | | 20.04 | 0.31 | | | | | | | 11.20 | 420.51 | 55.00 | 3.84 |
| G. Other | | NA,NO | NA,NE,NO | | | | | | | 100.59 | NA,NO | 0.93 | 0.00 |
| 5. Land Use, Land-Use Change and Forestry | ⁽⁵⁾ -265,232.53 | 115.89 | 10.91 | | | | | | | 18.04 | 632.45 | 1,170.57 | 1.02 |
| A. Forest Land | ⁽⁵⁾ -355,121.98 | 46.19 | 0.56 | | | | | | | 11.68 | 408.57 | 60.45 | |
| B. Cropland | ⁽⁵⁾ 62,838.72 | 9.69 | 9.79 | | | | | | | 2.41 | 84.83 | NA,NE,NO | |
| C. Grassland | ⁽⁵⁾ -4,999.68 | 10.12 | 0.07 | | | | | | | 2.51 | 88.52 | IE,NA,NE,NO | |
| D. Wetlands | ⁽⁵⁾ 4,776.69 | 6.41 | 0.26 | | | | | | | 0.07 | 2.62 | NA,NE,NO | |
| E. Settlements | ⁽⁵⁾ 27,286.11 | 5.31 | 0.04 | | | | | | | 1.32 | 46.43 | NA,NE,NO | |
| F. Other Land | ⁽⁵⁾ 1,368.76 | 0.17 | 0.00 | | | | | | | 0.04 | 1.49 | NA,NE,NO | |
| G. Other | ⁽⁵⁾ -1,381.14 | 38.00 | 0.20 | | | | | | | NA,NE,NO | NA,NE,NO | 1,110.12 | 1.02 |
| 6. Waste | 2,457.05 | 4,325.31 | 36.64 | | | | | | | 20.79 | 547.87 | 85.01 | 4.05 |
| A. Solid Waste Disposal on Land | ⁽⁶⁾ 12.53 | 3,744.15 | 0.00 | | | | | | | 0.07 | 7.10 | 28.28 | 0.05 |
| B. Waste-water Handling | | 485.56 | 33.02 | | | | | | | NA,NE,NO | NA,NE,NO | 4.37 | |
| C. Waste Incineration | ⁽⁶⁾ 2,444.52 | 21.59 | 0.94 | | | | | | | 20.69 | 540.73 | 29.96 | 3.98 |
| D. Other | NA,NO | 74.01 | 2.67 | | | | | | | 0.03 | 0.04 | 22.40 | 0.02 |
| 7. Other (please specify)⁽⁷⁾ | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |
| Other non-specified | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO | NA,NO |

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| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Net CO ₂ | CH ₄ | N ₂ O | HFCs | | PFCs | | SF ₆ | | NO _x | CO | NMVOC | SO ₂ |
|--|---------------------|-----------------|------------------|---------------------------------|---|------|---|-----------------|---|-----------------|---------------|---------------|-----------------|
| | emissions/removals | | | P | A | P | A | P | A | | | | |
| | (Gg) | | | CO ₂ equivalent (Gg) | | | | | | (Gg) | | | |
| Memo Items: ⁽⁸⁾ | | | | | | | | | | | | | |
| International Bunkers | 298,759.91 | 7.33 | 12.40 | | | | | | | 2,374.68 | 306.59 | 111.94 | 1,439.74 |
| Aviation | 131,574.31 | 1.57 | 4.19 | | | | | | | 468.78 | 152.79 | 37.65 | 29.95 |
| Marine | 167,185.60 | 5.76 | 8.21 | | | | | | | 1,905.90 | 153.80 | 74.29 | 1,409.79 |
| Multilateral Operations | 1.96 | 0.00 | 0.00 | | | | | | | 0.01 | 0.00 | 0.00 | 0.00 |
| CO₂ Emissions from Biomass | 272,338.63 | | | | | | | | | | | | |

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

⁽⁷⁾ If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR.

⁽⁸⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.