

## **Annex 1 – Key categories**

### **Description of methodology used**

The key category analysis has been performed according to the provisions in Chapter 7 of IPCC GPG 2000 and to those in Chapter 5 of IPCC GPG 2003.

Distinct key category analysis was conducted taking into account both the exclusion and inclusion of LULUCF and also level and trend criteria.

The key category analysis followed a Tier 1 approach.

### **Reference to the key categories tables in the CRF**

The same key categories analysis was done both for completing the CRF tables and the relevant section of National Inventory Report.

### **Information on level of disaggregation**

All IPCC sectors and categories, sources and sinks (as suggested in Table 7.1 of IPCC GPG 2000 and in Table 5.4.1 of IPCC GPG 2003), and gases were considered.

**Tables 7A1 – 7A3 of the IPCC GPG 2000**

**Tier 1 Analysis – Level Assessment, 1989, excluding LULUCF**

<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct</b> <b>GHG</b>	<b>C</b> <b>Base Year Estimate</b> <b>(Mt CO<sub>2</sub> Equivalent)</b>	<b>E</b> <b>Level</b> <b>Assessment</b>	<b>F</b> <b>Cumulative</b> <b>Total of Column</b> <b>E</b>
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO2	33.17	0.12	0.12
Road transport	CO2	23.89	0.08	0.20
CH4 from enteric fermentation	CH4	22.05	0.08	0.28
Fugitive emissions-oil and natural gas	CH4	18.40	0.06	0.34
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO2	16.46	0.06	0.40
Other Sectors - Residential - Gaseous Fuels	CO2	16.42	0.06	0.46
Direct N2O emissions from agricultural soils	N2O	14.21	0.05	0.51
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO2	13.56	0.05	0.56
CO2 emission from Iron and steel production	CO2	12.16	0.04	0.60
CH4 from solid waste disposal sites	CH4	9.99	0.04	0.63
CO2 emissions from Cement production	CO2	9.42	0.03	0.67
Energy Industries - Petroleum Refining - Liquid Fuels	CO2	9.23	0.03	0.70
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO2	7.16	0.03	0.72
CO2 emission from Ammonia production	CO2	5.61	0.02	0.74
Indirect N2O emissions from agricultural soils	N2O	5.57	0.02	0.76
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO2	5.46	0.02	0.78
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO2	5.03	0.02	0.80
CH4 from wastewater handling	CH4	5.03	0.02	0.82
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO2	4.78	0.02	0.83
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO2	4.57	0.02	0.85
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO2	4.40	0.02	0.87

CO2 emissions from Lime production	CO2	3.63	0.01	0.88
N2O emission from Nitric acid production	N2O	3.35	0.01	0.89
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO2	3.22	0.01	0.90
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO2	2.77	< 0.01	0.91
Other Sectors - Residential - Biomass	CH4	2.47	< 0.01	0.92
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	2.02	< 0.01	0.93
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO2	1.96	< 0.01	0.93
Agricultural soils : animal production	N2O	1.71	< 0.01	0.94
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO2	1.45	< 0.01	0.94
N2O from manure management	N2O	1.40	< 0.01	0.95
Fugitive emissions-solid fuels	CH4	1.36	< 0.01	0.95
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO2	1.23	< 0.01	0.96
Emission from Consumption of halocarbons	hfc, pfc, sf6	1.13	< 0.01	0.96
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO2	0.98	< 0.01	0.97
N2O from wastewater handling	N2O	0.95	< 0.01	0.97
Fugitive emissions-oil and natural gas	CO2	0.83	< 0.01	0.97
Other Sectors - Residential - Liquid Fuels	CO2	0.82	< 0.01	0.98
Road transport	N2O	0.82	< 0.01	0.98
CO2 emission from Limestone and dolomite use	CO2	0.78	< 0.01	0.98
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO2	0.68	< 0.01	0.98
Railways	CO2	0.65	< 0.01	0.99
CH4 from manure management	CH4	0.60	< 0.01	0.99
Civil Aviation	CO2	0.47	< 0.01	0.99
CO2 emission from Aluminium production	CO2	0.40	< 0.01	0.99
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO2	0.33	< 0.01	0.99
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO2	0.29	< 0.01	0.99
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO2	0.26	< 0.01	0.99
Other Sectors - Commercial/Institutional - Liquid Fuels	CO2	0.22	< 0.01	0.99

Other Sectors - Residential - Biomass	N2O	0.16	< 0.01	1.00
Navigation	CO2	0.16	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO2	0.15	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO2	0.14	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO2	0.12	< 0.01	1.00
Road transport	CH4	0.11	< 0.01	1.00
CO2 emission from Solvent and other product use	CO2	0.09	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO2	0.06	< 0.01	1.00
CH4 from field burning of agricultural residues	CH4	0.05	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N2O	0.04	< 0.01	1.00
CO2 emission from Soda ash production and use	CO2	0.04	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO2	0.04	< 0.01	1.00
CO2 emission from Ferroalloys production	CO2	0.03	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	CO2	0.03	< 0.01	1.00
N2O from field burning of agricultural residues	N2O	0.03	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO2	0.03	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH4	0.02	< 0.01	1.00
Other transports-pipeline	CO2	0.02	< 0.01	1.00
Navigation	N2O	0.02	< 0.01	1.00
CH4 from rice production	CH4	0.02	< 0.01	1.00
CO2 emission from Mineral products - other	CO2	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO2	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO2	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	N2O	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N2O	0.01	< 0.01	1.00
CH4 emission from Silicon Carbide production	CH4	0.01	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	CH4	0.01	< 0.01	1.00

Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N2O	0.01	< 0.01	1.00
CO2 from waste incineration	CO2	0.01	< 0.01	1.00
CH4 emission from Chemical industry-other	CH4	0.01	< 0.01	1.00
PFC emission from Aluminium production	PFC	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH4	0.01	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N2O	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH4	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO2	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH4	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N2O	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	N2O	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO2	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Civil Aviation	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	CH4	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction -	N2O	0.00	< 0.01	1.00

Food Processing, Beverages and Tobacco - Biomass				
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CO2	0.00	< 0.01	1.00
Fugitive emissions-oil and natural gas	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH4	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH4	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH4	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N2O	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH4	0.00	< 0.01	1.00
Navigation	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Railways	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction -	CH4	0.00	< 0.01	1.00

Chemicals - Solid Fuels				
Manufacturing Industries and Construction - Chemicals - Biomass	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N2O	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH4	0.00	< 0.01	1.00
Railways	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CH4	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N2O	0.00	< 0.01	1.00

Energy Industries - Petroleum Refining - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Civil Aviation	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH4	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00



Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CH4	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N2O	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH4	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH4	0.00	< 0.01	1.00
CO2 emission from Carbide production	CO2	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Biomass	CH4	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Biomass	N2O	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CH4	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CO2	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	N2O	0.00	< 0.01	1.00

Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00

Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N2O	0.00	< 0.01	1.00
N2O emission from Adipic acid production	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO2	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Biomass	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Biomass	N2O	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other	N2O	0.00	< 0.01	1.00

(Industrial Wastes)				
Other Sectors - Residential - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
<b>TOTAL</b>		<b>284.94</b>		

### Tier 1 Analysis – Level Assessment, 2010, excluding LULUCF

<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct GHG</b>	<b>C</b> <b>Base Year Estimate (Mt CO<sub>2</sub> Equivalent)</b>	<b>D</b> <b>Current Year Estimate (Mt CO<sub>2</sub> Equivalent)</b>	<b>E</b> <b>Level Assessment</b>	<b>F</b> <b>Cumulative Total of Column E</b>
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO2	33.17	20.75	0.17	0.17
Road transport	CO2	4.57	13.50	0.11	0.28
CH4 from enteric fermentation	CH4	16.46	7.53	0.06	0.35
Fugitive emissions-oil and natural gas	CH4	16.42	7.04	0.06	0.40
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO2	22.05	6.16	0.05	0.45
Other Sectors - Residential - Gaseous Fuels	CO2	5.03	5.12	0.04	0.50
Direct N2O emissions from agricultural soils	N2O	18.40	4.65	0.04	0.54
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO2	9.23	4.64	0.04	0.57
CO2 emission from Iron and steel production	CO2	13.56	3.04	0.03	0.60
CH4 from solid waste disposal sites	CH4	1.23	2.87	0.02	0.62
CO2 emissions from Cement production	CO2	5.61	2.78	0.02	0.65
Energy Industries - Petroleum Refining - Liquid Fuels	CO2	4.78	2.72	0.02	0.67
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO2	23.89	2.66	0.02	0.69
CO2 emission from Ammonia production	CO2	4.40	2.54	0.02	0.71
Indirect N2O emissions from agricultural soils	N2O	5.03	2.39	0.02	0.73
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO2	14.21	2.34	0.02	0.75
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO2	0.00	2.17	0.02	0.77
CH4 from wastewater handling	CH4	2.77	2.07	0.02	0.79
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO2	9.42	2.00	0.02	0.80
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO2	9.99	1.99	0.02	0.82
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO2	0.00	1.57	0.01	0.83

CO2 emissions from Lime production	CO2	3.22	1.27	0.01	0.84
N2O emission from Nitric acid production	N2O	5.46	1.15	< 0.01	0.85
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO2	7.16	1.10	< 0.01	0.86
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO2	12.16	1.01	< 0.01	0.87
Other Sectors - Residential - Biomass	CH4	0.16	0.93	< 0.01	0.88
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.00	0.91	< 0.01	0.88
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO2	0.00	0.85	< 0.01	0.89
Agricultural soils : animal production	N2O	2.02	0.82	< 0.01	0.90
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO2	0.95	0.82	< 0.01	0.90
N2O from manure management	N2O	1.45	0.78	< 0.01	0.91
Fugitive emissions-solid fuels	CH4	5.57	0.78	< 0.01	0.92
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO2	0.00	0.72	< 0.01	0.92
Emission from Consumption of halocarbons	hfc, pfc, sf6	0.00	0.70	< 0.01	0.93
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO2	3.63	0.68	< 0.01	0.93
N2O from wastewater handling	N2O	0.60	0.68	< 0.01	0.94
Fugitive emissions-oil and natural gas	CO2	1.40	0.65	< 0.01	0.95
Other Sectors - Residential - Liquid Fuels	CO2	0.78	0.62	< 0.01	0.95
Road transport	N2O	0.01	0.50	< 0.01	0.96
CO2 emission from Limestone and dolomite use	CO2	1.71	0.49	< 0.01	0.96
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO2	0.83	0.49	< 0.01	0.96
Railways	CO2	0.82	0.44	< 0.01	0.97
CH4 from manure management	CH4	1.13	0.36	< 0.01	0.97
Civil Aviation	CO2	0.03	0.33	< 0.01	0.97
CO2 emission from Aluminium production	CO2	0.40	0.31	< 0.01	0.98
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO2	1.36	0.27	< 0.01	0.98
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO2	0.00	0.25	< 0.01	0.98
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO2	0.00	0.23	< 0.01	0.98
Other Sectors - Commercial/Institutional - Liquid Fuels	CO2	0.00	0.21	< 0.01	0.98

Other Sectors - Residential - Biomass	N2O	0.03	0.18	< 0.01	0.98
Navigation	CO2	0.26	0.18	< 0.01	0.99
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO2	1.96	0.17	< 0.01	0.99
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO2	0.00	0.15	< 0.01	0.99
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO2	0.00	0.14	< 0.01	0.99
Road transport	CH4	0.01	0.13	< 0.01	0.99
CO2 emission from Solvent and other product use	CO2	0.65	0.12	< 0.01	0.99
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO2	0.00	0.11	< 0.01	0.99
CH4 from field burning of agricultural residues	CH4	0.12	0.10	< 0.01	0.99
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N2O	0.15	0.10	< 0.01	0.99
CO2 emission from Soda ash production and use	CO2	0.14	0.07	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO2	0.00	0.06	< 0.01	1.00
CO2 emission from Ferroalloys production	CO2	0.47	0.05	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	CO2	2.47	0.04	< 0.01	1.00
N2O from field burning of agricultural residues	N2O	0.04	0.04	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO2	0.09	0.04	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH4	0.00	0.03	< 0.01	1.00
Other transports-pipeline	CO2	0.01	0.02	< 0.01	1.00
Navigation	N2O	0.00	0.02	< 0.01	1.00
CH4 from rice production	CH4	0.06	0.02	< 0.01	1.00
CO2 emission from Mineral products - other	CO2	0.11	0.02	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO2	0.00	0.02	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO2	0.00	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	N2O	0.00	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N2O	0.02	0.01	< 0.01	1.00
CH4 emission from Silicon Carbide production	CH4	0.00	0.01	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	CH4	0.01	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N2O	0.04	0.01	< 0.01	1.00

CO2 from waste incineration	CO2	0.00	0.01	< 0.01	1.00
CH4 emission from Chemical industry-other	CH4	0.04	0.01	< 0.01	1.00
PFC emission from Aluminium production	PFC	3.35	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH4	0.00	0.01	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N2O	0.00	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH4	0.02	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO2	0.29	0.01	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH4	0.05	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH4	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH4	0.03	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH4	0.02	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N2O	0.02	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO2	0.98	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N2O	0.01	0.00	< 0.01	1.00
Civil Aviation	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	CH4	0.16	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH4	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH4	0.01	0.00	< 0.01	1.00



Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH4	0.01	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Fugitive emissions-oil and natural gas	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH4	0.01	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N2O	0.03	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N2O	0.01	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N2O	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH4	0.01	0.00	< 0.01	1.00
Navigation	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N2O	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Railways	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Biomass	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction -	N2O	0.00	0.00	< 0.01	1.00

Chemicals - Other (Industrial Wastes)					
Energy Industries - Public Electricity and Heat Production - Biomass	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH4	0.01	0.00	< 0.01	1.00
Railways	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and	CH4	0.00	0.00	< 0.01	1.00

Other Energy Industries - Gaseous Fuels					
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	N2O	0.01	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Civil Aviation	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00

Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH4	0.00	0.00	< 0.01	1.00
CO2 emission from Carbide production	CO2	0.33	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Biomass	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Biomass	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N2O	0.00	0.00	< 0.01	1.00

Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO2	0.22	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
N2O emission from Adipic acid production	N2O	0.68	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00

specify) - Gaseous Fuels					
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO2	0.82	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Biomass	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Biomass	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
<b>TOTAL</b>		<b>284.94</b>	<b>120.92</b>		

# **Tier 1 Analysis –Trend assessment, 2010, excluding LULUCF**

<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct GHG</b>	<b>C</b> <b>Base Year Estimate (Mt CO<sub>2</sub> Equivalent)</b>	<b>D</b> <b>Current Year Estimate (Mt CO<sub>2</sub> Equivalent)</b>	<b>E</b> <b>Trend Assessment</b>	<b>F</b> <b>% Contribution to trend</b>	<b>G</b> <b>Cumulative Total of Column F</b>
Road transport	CO2	4.57	13.50	0.23	14.46	0.14
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO2	23.89	2.66	0.15	9.36	0.24
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO2	33.17	20.75	0.13	8.35	0.32
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO2	12.16	1.01	0.08	5.19	0.37
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO2	14.21	2.34	0.07	4.61	0.42
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO2	22.05	6.16	0.06	4.00	0.46
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO2	18.40	4.65	0.06	3.96	0.50
Other Sectors - Residential - Gaseous Fuels	CO2	5.03	5.12	0.06	3.73	0.54
CO2 emission from Iron and steel production	CO2	13.56	3.04	0.05	3.40	0.57
CH4 from solid waste disposal sites	CH4	1.23	2.87	0.05	2.94	0.60
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO2	9.99	1.99	0.04	2.82	0.63
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO2	0.00	2.17	0.04	2.72	0.66
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO2	9.42	2.00	0.04	2.49	0.68
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO2	7.16	1.10	0.04	2.42	0.70
Fugitive emissions-solid fuels	CH4	5.57	0.78	0.03	1.98	0.72
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO2	0.00	1.57	0.03	1.96	0.74
PFC emission from Aluminium production	PFC	3.35	0.01	0.03	1.77	0.76
N2O emission from Nitric acid production	N2O	5.46	1.15	0.02	1.46	0.78
Other Sectors - Residential - Solid Fuels	CO2	2.47	0.04	0.02	1.27	0.79
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.00	0.91	0.02	1.14	0.80
CH4 from wastewater handling	CH4	2.77	2.07	0.02	1.11	0.81
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO2	3.63	0.68	0.02	1.08	0.82
Other Sectors - Residential - Biomass	CH4	0.16	0.93	0.02	1.08	0.83

Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO2	0.00	0.85	0.02	1.06	0.84
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO2	0.00	0.72	0.01	< 1	0.85
Emission from Consumption of halocarbons	hfc, pfc, sf6	9.23	4.64	0.01	< 1	0.86
Direct N2O emissions from agricultural soils	N2O	0.00	0.70	0.01	< 1	0.87
Energy Industries - Petroleum Refining - Liquid Fuels	CO2	4.78	2.72	0.01	< 1	0.88
CO2 emission from Ammonia production	CO2	4.40	2.54	0.01	< 1	0.89
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO2	1.96	0.17	0.01	< 1	0.90
CH4 from enteric fermentation	CH4	16.46	7.53	0.01	< 1	0.90
Road transport	N2O	0.01	0.50	< 0.01	< 1	0.91
N2O from wastewater handling	N2O	0.60	0.68	< 0.01	< 1	0.91
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO2	0.95	0.82	< 0.01	< 1	0.92
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO2	0.98	0.00	< 0.01	< 1	0.92
CO2 emissions from Cement production	CO2	5.61	2.78	< 0.01	< 1	0.93
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO2	0.82	0.00	< 0.01	< 1	0.93
Civil Aviation	CO2	0.03	0.33	< 0.01	< 1	0.94
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO2	1.36	0.27	< 0.01	< 1	0.94
N2O emission from Adipic acid production	N2O	0.68	0.00	< 0.01	< 1	0.95
Other Sectors - Residential - Liquid Fuels	CO2	0.78	0.62	< 0.01	< 1	0.95
Indirect N2O emissions from agricultural soils	N2O	5.03	2.39	< 0.01	< 1	0.95
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO2	0.00	0.25	< 0.01	< 1	0.96
CO2 emission from Limestone and dolomite use	CO2	1.71	0.49	< 0.01	< 1	0.96
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO2	0.00	0.23	< 0.01	< 1	0.96
Other Sectors - Commercial/Institutional - Liquid Fuels	CO2	0.00	0.21	< 0.01	< 1	0.96
N2O from manure management	N2O	1.45	0.78	< 0.01	< 1	0.97
Other Sectors - Residential - Biomass	N2O	0.03	0.18	< 0.01	< 1	0.97
CO2 emission from Ferroalloys production	CO2	0.47	0.05	< 0.01	< 1	0.97
CO2 emission from Solvent and other product	CO2	0.65	0.12	< 0.01	< 1	0.97



use						
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO2	0.00	0.15	< 0.01	< 1	0.97
CO2 emission from Aluminium production	CO2	0.40	0.31	< 0.01	< 1	0.98
CO2 emission from Carbide production	CO2	0.00	0.14	< 0.01	< 1	0.98
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO2	0.33	0.00	< 0.01	< 1	0.98
CH4 from manure management	CH4	0.83	0.49	< 0.01	< 1	0.98
Fugitive emissions-oil and natural gas	CH4	0.01	0.13	< 0.01	< 1	0.98
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO2	1.13	0.36	< 0.01	< 1	0.98
Road transport	CH4	0.29	0.01	< 0.01	< 1	0.98
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO2	0.00	0.11	< 0.01	< 1	0.99
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO2	0.22	0.00	< 0.01	< 1	0.99
CO2 emissions from Lime production	CO2	0.82	0.44	< 0.01	< 1	0.99
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO2	3.22	1.27	< 0.01	< 1	0.99
Railways	CO2	0.26	0.18	< 0.01	< 1	0.99
Navigation	CO2	16.42	7.04	< 0.01	< 1	0.99
Other Sectors - Residential - Solid Fuels	CH4	0.16	0.00	< 0.01	< 1	0.99
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO2	0.00	0.06	< 0.01	< 1	0.99
Fugitive emissions-oil and natural gas	CO2	1.40	0.65	< 0.01	< 1	0.99
CH4 from field burning of agricultural residues	CH4	0.12	0.10	< 0.01	< 1	0.99
Agricultural soils : animal production	N2O	0.00	0.03	< 0.01	< 1	0.99
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH4	0.15	0.10	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N2O	2.02	0.82	< 0.01	< 1	1.00
CO2 emission from Mineral products - other	CO2	0.11	0.02	< 0.01	< 1	1.00
Navigation	N2O	0.00	0.02	< 0.01	< 1	1.00
Other transports-pipeline	CO2	0.01	0.02	< 0.01	< 1	1.00
N2O from field burning of agricultural residues	N2O	0.04	0.04	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO2	0.00	0.02	< 0.01	< 1	1.00
Manufacturing Industries and Construction -	CO2	0.00	0.01	< 0.01	< 1	1.00

Pulp, Paper and Print - Liquid Fuels						
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH4	0.05	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	N2O	0.00	0.01	< 0.01	< 1	1.00
CO2 emission from Soda ash production and use	CO2	0.14	0.07	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N2O	0.03	0.00	< 0.01	< 1	1.00
CH4 emission from Silicon Carbide production	CH4	0.00	0.01	< 0.01	< 1	1.00
CH4 emission from Chemical industry-other	CH4	0.04	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N2O	0.04	0.01	< 0.01	< 1	1.00
CO2 from waste incineration	CO2	0.00	0.01	< 0.01	< 1	1.00
CH4 from rice production	CH4	0.06	0.02	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH4	0.00	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH4	0.03	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N2O	0.00	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N2O	0.02	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Gaseous Fuels	CH4	0.01	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N2O	0.02	0.01	< 0.01	< 1	1.00
Other Sectors - Residential - Solid Fuels	N2O	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N2O	0.01	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH4	0.02	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO2	0.09	0.04	< 0.01	< 1	1.00
Civil Aviation	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00

Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N2O	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N2O	0.01	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	N2O	0.01	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Navigation	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00

Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00

Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Railways	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Fugitive emissions-oil and natural gas	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N2O	0.02	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Railways	CH4	0.00	0.00	< 0.01	< 1	1.00

Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Civil Aviation	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Manufacture of Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00

and Other Energy Industries - Other (Industrial Wastes)						
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00

Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional -	N2O	0.00	0.00	< 0.01	< 1	1.00



Biomass						
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
<b>TOTAL</b>		<b>284.94</b>	<b>120.92</b>			

<b>Key Category Analysis Summary, 1989, excluding LULUCF (Table 7A3 of IPCC GPG 2000)</b>				
<b>Quantitative Method Used:</b> <input checked="" type="checkbox"/> Tier 1 <input type="checkbox"/> Tier 2				
<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct GHG</b>	<b>C</b> <b>Key Source Category Flag</b>	<b>D</b> <b>If Column C is Yes, Criteria for Identification</b>	<b>E</b> <b>Comments</b>
<b>Energy</b>				
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO <sub>2</sub>	Yes	Level	
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO <sub>2</sub>	Yes	Level	
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Energy Industries - Petroleum Refining - Liquid Fuels	CO <sub>2</sub>	Yes	Level	
Energy Industries - Petroleum Refining - Solid Fuels	CO <sub>2</sub>	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	CO <sub>2</sub>	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	CO <sub>2</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO <sub>2</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO <sub>2</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO <sub>2</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CO <sub>2</sub>	No		

Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Solid Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO <sub>2</sub>	No		

Other Sectors - Residential - Liquid Fuels	CO <sub>2</sub>	No		
Other Sectors - Residential - Solid Fuels	CO <sub>2</sub>	Yes	Level	
Other Sectors - Residential - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Other Sectors - Residential - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO <sub>2</sub>	Yes	Level	
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO <sub>2</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO <sub>2</sub>	Yes	Level	
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Biomass	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Biomass	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH <sub>4</sub>	No		

Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper	CH <sub>4</sub>	No		

and Print - Solid Fuels				
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Biomass	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Residential - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Gaseous Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Biomass	CH <sub>4</sub>	No		
Other Sectors - Residential - Other (Industrial Wastes)	CH <sub>4</sub>	No		

Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N <sub>2</sub> O	No		
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N <sub>2</sub> O	No		
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N <sub>2</sub> O	No		
Energy Industries - Public Electricity and Heat Production - Biomass	N <sub>2</sub> O	No		
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Liquid Fuels	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Solid Fuels	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Biomass	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N <sub>2</sub> O	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N <sub>2</sub> O	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N <sub>2</sub> O	No		

Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N <sub>2</sub> O	<b>No</b>		



Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Biomass	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Biomass	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N <sub>2</sub> O	<b>No</b>		

Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Fugitive emissions-solid fuels	CH <sub>4</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	CH <sub>4</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	CO <sub>2</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	N <sub>2</sub> O	No		
Civil Aviation	CH <sub>4</sub>	No		
Road transport	CH <sub>4</sub>	No		
Railways	CH <sub>4</sub>	No		
Navigation	CH <sub>4</sub>	No		
Civil Aviation	CO <sub>2</sub>	No		
Road transport	CO <sub>2</sub>	Yes	Level	
Railways	CO <sub>2</sub>	No		
Navigation	CO <sub>2</sub>	No		
Other transports-pipeline	CO <sub>2</sub>	No		
Civil Aviation	N <sub>2</sub> O	No		
Road transport	N <sub>2</sub> O	No		
Railways	N <sub>2</sub> O	No		
Navigation	N <sub>2</sub> O	No		
<b>Industrial Processes</b>				
CH <sub>4</sub> emissions from Chemical industry-other	CH <sub>4</sub>	No		
CO <sub>2</sub> emissions from Ammonia production	CO <sub>2</sub>	Yes	Level	

CO <sub>2</sub> emissions from Cement production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Lime production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Aluminium production	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Carbide production	CO <sub>2</sub>	No		
CH <sub>4</sub> emissions from Silicon Carbide production	CH <sub>4</sub>	No		
CO <sub>2</sub> emissions from Ferroalloys production	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Iron and steel production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Limestone and dolomite use	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Soda ash production and use	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Mineral products - other	CO <sub>2</sub>	No		
Emission from Consumption of halocarbons	HFC,	No		
N <sub>2</sub> O emissions from Adipic acid production	N <sub>2</sub> O	No		
N <sub>2</sub> O emissions from Nitric acid production	N <sub>2</sub> O	Yes	Level	
PFC emissions from Aluminium production	PFC	Yes	Level	
<b>Solvents and other product use</b>				
CO <sub>2</sub> emissions from Solvent and other product use	CO <sub>2</sub>	No		
<b>Agriculture</b>				
Agricultural soils : animal production	N <sub>2</sub> O	Yes	Level	
CH <sub>4</sub> from enteric fermentation	CH <sub>4</sub>	Yes	Level	
CH <sub>4</sub> from field burning of agricultural residues	CH <sub>4</sub>	No		
CH <sub>4</sub> from manure management	CH <sub>4</sub>	No		
CH <sub>4</sub> from rice production	CH <sub>4</sub>	No		
Direct N <sub>2</sub> O emissions from agricultural soils	N <sub>2</sub> O	Yes	Level	
Indirect N <sub>2</sub> O emissions from agricultural soils	N <sub>2</sub> O	Yes	Level	
N <sub>2</sub> O from field burning of agricultural residues	N <sub>2</sub> O	No		
N <sub>2</sub> O from manure management	N <sub>2</sub> O	Yes	Level	
<b>Waste</b>				
CH <sub>4</sub> from solid waste disposal sites	CH <sub>4</sub>	No		
CH <sub>4</sub> from wastewater handling	CH <sub>4</sub>	Yes	Level	
CO <sub>2</sub> from waste incineration	CO <sub>2</sub>	No		
N <sub>2</sub> O from wastewater handling	N <sub>2</sub> O	No		

<b>Key Category Analysis Summary, 2010, excluding LULUCF (Table 7A3 of IPCC GPG 2000)</b>				
<b>Quantitative Method Used:</b> <input checked="" type="checkbox"/> Tier 1 <input type="checkbox"/> Tier 2				
<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct GHG</b>	<b>C</b> <b>Key Source Category Flag</b>	<b>D</b> <b>If Column C is Yes, Criteria for Identification</b>	<b>E</b> <b>Comments</b>
<b>Energy</b>				
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Energy Industries - Petroleum Refining - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Petroleum Refining - Solid Fuels	CO <sub>2</sub>	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Petroleum Refining - Gaseous Fuels	CO <sub>2</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO <sub>2</sub>	Yes	Trend	
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous	CO <sub>2</sub>	No		

Metals - Gaseous Fuels				
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Solid Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	

Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Residential - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Other Sectors - Residential - Solid Fuels	CO <sub>2</sub>	Yes	Trend	
Other Sectors - Residential - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Other Sectors - Residential - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO <sub>2</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO <sub>2</sub>	Yes	Trend	
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO <sub>2</sub>	Yes	Trend	
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO <sub>2</sub>	Yes	Trend	
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Biomass	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Biomass	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH <sub>4</sub>	No		

Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper	CH <sub>4</sub>	No		

and Print - Liquid Fuels				
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Biomass	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Residential - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Gaseous Fuels	CH <sub>4</sub>	No		



Other Sectors - Residential - Biomass	CH <sub>4</sub>	<b>Yes</b>	<b>Level, Trend</b>	
Other Sectors - Residential - Other (Industrial Wastes)	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH <sub>4</sub>	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Biomass	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Biomass	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		

Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N <sub>2</sub> O	<b>No</b>		

Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Biomass	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Biomass	N <sub>2</sub> O	<b>No</b>		
Other Sectors - Residential - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		

Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Fugitive emissions-solid fuels	CH <sub>4</sub>	Yes	Level, Trend	
Fugitive emissions-oil and natural gas	CH <sub>4</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	CO <sub>2</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	N <sub>2</sub> O	No		
Civil Aviation	CH <sub>4</sub>	No		
Road transport	CH <sub>4</sub>	No		
Railways	CH <sub>4</sub>	No		
Navigation	CH <sub>4</sub>	No		
Civil Aviation	CO <sub>2</sub>	Yes	Trend	
Road transport	CO <sub>2</sub>	Yes	Level, Trend	
Railways	CO <sub>2</sub>	No		
Navigation	CO <sub>2</sub>	No		
Other transports-pipeline	CO <sub>2</sub>	No		
Civil Aviation	N <sub>2</sub> O	No		
Road transport	N <sub>2</sub> O	Yes	Trend	
Railways	N <sub>2</sub> O	No		
Navigation	N <sub>2</sub> O	No		

<b>Industrial Processes</b>				
CH <sub>4</sub> emissions from Chemical industry-other	CH <sub>4</sub>	No		
CO <sub>2</sub> emissions from Ammonia production	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> emissions from Cement production	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> emissions from Lime production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Aluminium production	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Carbide production	CO <sub>2</sub>	No		
CH <sub>4</sub> emissions from Silicon Carbide production	CH <sub>4</sub>	No		
CO <sub>2</sub> emissions from Ferroalloys production	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Iron and steel production	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> emissions from Limestone and dolomite use	CO <sub>2</sub>	Yes		
CO <sub>2</sub> emissions from Soda ash production and use	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Mineral products - other	CO <sub>2</sub>	No		
Emissions from Consumption of halocarbons	HFC, PFC, SF <sub>6</sub>	Yes	Level, Trend	
N <sub>2</sub> O emissions from Adipic acid production	N <sub>2</sub> O	Yes	Trend	
N <sub>2</sub> O emissions from Nitric acid production	N <sub>2</sub> O	Yes	Level, Trend	
PFC emissions from Aluminium production	PFC	Yes	Trend	
<b>Solvents and other product use</b>				
CO <sub>2</sub> emissions from Solvent and other product use	CO <sub>2</sub>	No		
<b>Agriculture</b>				
Agricultural soils : animal production	N <sub>2</sub> O	Yes	Level	
CH <sub>4</sub> from enteric fermentation	CH <sub>4</sub>	Yes	Level, Trend	
CH <sub>4</sub> from field burning of agricultural residues	CH <sub>4</sub>	No		
CH <sub>4</sub> from manure management	CH <sub>4</sub>	No		
CH <sub>4</sub> from rice production	CH <sub>4</sub>	No		
Direct N <sub>2</sub> O emissions from agricultural soils	N <sub>2</sub> O	Yes	Level, Trend	
Indirect N <sub>2</sub> O emissions from agricultural soils	N <sub>2</sub> O	Yes	Level, Trend	
N <sub>2</sub> O from field burning of agricultural residues	N <sub>2</sub> O	No		
N <sub>2</sub> O from manure management	N <sub>2</sub> O	Yes	Level	
<b>Waste</b>				

CH <sub>4</sub> from solid waste disposal sites	CH <sub>4</sub>	<b>Yes</b>	<b>Level, Trend</b>	
CH <sub>4</sub> from wastewater handling	CH <sub>4</sub>	<b>Yes</b>	<b>Level, Trend</b>	
CO <sub>2</sub> from waste incineration	CO <sub>2</sub>	<b>No</b>		
N <sub>2</sub> O from wastewater handling	N <sub>2</sub> O	<b>Yes</b>	<b>Level, Trend</b>	

**Tables 5.4.7, 5.4.8 and 5.4.5 of the IPCC GPG 2003**

**Tier 1 Analysis – Level Assessment, 1989, including LULUCF**

<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct GHG</b>	<b>C</b> <b>Base Year Estimate (Mt CO<sub>2</sub> Equivalent)</b>	<b>E</b> <b>Level Assessment</b>	<b>F</b> <b>Cumulative Total of Column E</b>
Agricultural soils : animal production	N <sub>2</sub> O	33.17	0.11	0.11
CH <sub>4</sub> emission from Chemical industry-other	CH <sub>4</sub>	23.89	0.08	0.18
CH <sub>4</sub> emission from Silicon Carbide production	CH <sub>4</sub>	22.05	0.07	0.25
CH <sub>4</sub> from Cropland remaining Cropland	CH <sub>4</sub>	18.86	0.06	0.31
CH <sub>4</sub> from enteric fermentation	CH <sub>4</sub>	18.40	0.06	0.37
CH <sub>4</sub> from field burning of agricultural residues	CH <sub>4</sub>	16.46	0.05	0.42
CH <sub>4</sub> from Forest Land remaining Forest Land	CH <sub>4</sub>	16.42	0.05	0.47
CH <sub>4</sub> from Grassland remaining Grassland	CH <sub>4</sub>	14.21	0.05	0.52
CH <sub>4</sub> from Land converted Other Land	CH <sub>4</sub>	13.56	0.04	0.56
CH <sub>4</sub> from Land converted to Cropland	CH <sub>4</sub>	12.16	0.04	0.60
CH <sub>4</sub> from Land converted to Forest Land	CH <sub>4</sub>	9.99	0.03	0.63
CH <sub>4</sub> from Land converted to Grassland	CH <sub>4</sub>	9.42	0.03	0.66
CH <sub>4</sub> from Land converted to Settlements	CH <sub>4</sub>	9.23	0.03	0.69
CH <sub>4</sub> from Land converted to Wetlands	CH <sub>4</sub>	7.16	0.02	0.72
CH <sub>4</sub> from manure management	CH <sub>4</sub>	5.67	0.02	0.73
CH <sub>4</sub> from rice production	CH <sub>4</sub>	5.61	0.02	0.75
CH <sub>4</sub> from Settlements remaining Settlements	CH <sub>4</sub>	5.57	0.02	0.77
CH <sub>4</sub> from solid waste disposal sites	CH <sub>4</sub>	5.46	0.02	0.79
CH <sub>4</sub> from wastewater handling	CH <sub>4</sub>	5.03	0.02	0.80
CH <sub>4</sub> from Wetlands remaining Wetlands	CH <sub>4</sub>	5.03	0.02	0.82
Civil Aviation	CH <sub>4</sub>	4.78	0.02	0.83
Civil Aviation	CO <sub>2</sub>	4.57	0.01	0.85
Civil Aviation	N <sub>2</sub> O	4.40	0.01	0.86
CO <sub>2</sub> emission from Aluminium production	CO <sub>2</sub>	4.13	0.01	0.87
CO <sub>2</sub> emission from Ammonia production	CO <sub>2</sub>	3.63	0.01	0.89
CO <sub>2</sub> emission from Carbide production	CO <sub>2</sub>	3.35	0.01	0.90
CO <sub>2</sub> emission from Ferroalloys production	CO <sub>2</sub>	3.22	0.01	0.91
CO <sub>2</sub> emission from Iron and steel production	CO <sub>2</sub>	2.77	< 0.01	0.92
CO <sub>2</sub> emission from Limestone and dolomite use	CO <sub>2</sub>	2.47	< 0.01	0.92
CO <sub>2</sub> emission from Mineral products - other	CO <sub>2</sub>	2.02	< 0.01	0.93
CO <sub>2</sub> emission from Soda ash production and use	CO <sub>2</sub>	1.96	< 0.01	0.94

CO2 emission from Solvent and other product use	CO2	1.71	< 0.01	0.94
CO2 emissions from Cement production	CO2	1.45	< 0.01	0.95
CO2 emissions from Lime production	CO2	1.40	< 0.01	0.95
CO2 from Cropland remaining Cropland	CO2	1.36	< 0.01	0.96
CO2 from Forest Land remaining Forest Land	CO2	1.23	< 0.01	0.96
CO2 from Grassland remaining Grassland	CO2	1.13	< 0.01	0.96
CO2 from Land converted Other Land	CO2	0.98	< 0.01	0.97
CO2 from Land converted to Cropland	CO2	0.95	< 0.01	0.97
CO2 from Land converted to Forest Land	CO2	0.83	< 0.01	0.97
CO2 from Land converted to Grassland	CO2	0.82	< 0.01	0.97
CO2 from Land converted to Settlements	CO2	0.82	< 0.01	0.98
CO2 from Land converted to Wetlands	CO2	0.78	< 0.01	0.98
CO2 from Settlements remaining Settlements	CO2	0.68	< 0.01	0.98
CO2 from waste incineration	CO2	0.65	< 0.01	0.98
CO2 from Wetlands remaining Wetlands	CO2	0.65	< 0.01	0.99
Direct N2O emissions from agricultural soils	N2O	0.60	< 0.01	0.99
Emission from Consumption of halocarbons	hfc, pfc, sf6	0.47	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH4	0.40	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N2O	0.33	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH4	0.29	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO2	0.26	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N2O	0.22	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH4	0.21	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO2	0.16	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N2O	0.16	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH4	0.15	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO2	0.14	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels	N2O	0.12	< 0.01	1.00



and Other Energy Industries - Other (Industrial Wastes)				
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH4	0.12	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO2	0.11	< 0.01	1.00
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N2O	0.09	< 0.01	1.00
Energy Industries - Petroleum Refining - Biomass	CH4	0.06	< 0.01	1.00
Energy Industries - Petroleum Refining - Biomass	N2O	0.05	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CH4	0.04	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.04	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.04	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	N2O	0.03	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	CH4	0.03	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	CO2	0.03	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	N2O	0.03	< 0.01	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH4	0.03	< 0.01	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N2O	0.02	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CH4	0.02	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CO2	0.02	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	N2O	0.02	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	CH4	0.02	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	N2O	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH4	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO2	0.01	< 0.01	1.00

Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N2O	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH4	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO2	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N2O	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH4	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO2	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N2O	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH4	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO2	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N2O	0.01	< 0.01	1.00
Fugitive emissions-oil and natural gas	CH4	0.01	< 0.01	1.00
Fugitive emissions-oil and natural gas	CO2	0.01	< 0.01	1.00
Fugitive emissions-oil and natural gas	N2O	0.01	< 0.01	1.00
Fugitive emissions-solid fuels	CH4	0.00	< 0.01	1.00
Indirect N2O emissions from agricultural soils	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Biomass	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction -	CH4	0.00	< 0.01	1.00

Chemicals - Liquid Fuels - Other (Industrial Wastes)				
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00

Food Processing, Beverages and Tobacco - Other (Industrial Wastes)				
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N2O	0.00	< 0.01	1.00

Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00

Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CH4	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO2	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N2O	0.00	< 0.01	1.00
N2O emission from Nitric acid production	N2O	0.00	< 0.01	1.00
N2O emission from Adipic acid production	N2O	0.00	< 0.01	1.00
N2O from Cropland remaining Cropland	N2O	0.00	< 0.01	1.00
N2O from field burning of agricultural residues	N2O	0.00	< 0.01	1.00

N2O from Forest Land remaining Forest Land	N2O	0.00	< 0.01	1.00
N2O from Grassland remaining Grassland	N2O	0.00	< 0.01	1.00
N2O from Land converted Other Land	N2O	0.00	< 0.01	1.00
N2O from Land converted to Cropland	N2O	0.00	< 0.01	1.00
N2O from Land converted to Forest Land	N2O	0.00	< 0.01	1.00
N2O from Land converted to Grassland	N2O	0.00	< 0.01	1.00
N2O from Land converted to Settlements	N2O	0.00	< 0.01	1.00
N2O from Land converted to Wetlands	N2O	0.00	< 0.01	1.00
N2O from manure management	N2O	0.00	< 0.01	1.00
N2O from Settlements remaining Settlements	N2O	0.00	< 0.01	1.00
N2O from wastewater handling	N2O	0.00	< 0.01	1.00
N2O from Wetlands remaining Wetlands	N2O	0.00	< 0.01	1.00
Navigation	CH4	0.00	< 0.01	1.00
Navigation	CO2	0.00	< 0.01	1.00
Navigation	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO2	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH4	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO2	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary	N2O	0.00	< 0.01	1.00

(please specify) - Solid Fuels				
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH4	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO2	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO2	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Biomass	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Biomass	N2O	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CO2	0.00	< 0.01	1.00



Fuels				
Other Sectors - Commercial/Institutional - Liquid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CO2	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Biomass	CH4	0.00	< 0.01	1.00
Other Sectors - Residential - Biomass	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	CO2	0.00	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	CO2	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CH4	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CO2	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	N2O	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	CH4	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	CO2	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	N2O	0.00	< 0.01	1.00
Other transports-pipeline	CO2	0.00	< 0.01	1.00
PFC emission from Aluminium production	PFC	0.00	< 0.01	1.00
Railways	CH4	0.00	< 0.01	1.00
Railways	CO2	0.00	< 0.01	1.00
Railways	N2O	0.00	< 0.01	1.00
Road transport	CH4	0.00	< 0.01	1.00
Road transport	CO2	0.00	< 0.01	1.00
Road transport	N2O	0.00	< 0.01	1.00
<b>TOTAL</b>		<b>315,74</b>		

### Tier 1 Analysis – Level Assessment, 2010, including LULUCF

A IPCC Source Categories	B Direct GHG	C Base Year Estimate (Mt CO <sub>2</sub> Equivalent)	D Current Year Estimate (Mt CO <sub>2</sub> Equivalent)	E Level Assessment	F Cumulative Total of Column E
Agricultural soils : animal production	N2O	18.86	22.16	0.15	0.15
CH4 emission from Chemical industry-other	CH4	33.17	20.75	0.14	0.29
CH4 emission from Silicon Carbide production	CH4	4.57	13.50	0.09	0.38
CH4 from Cropland remaining Cropland	CH4	16.46	7.53	0.05	0.43
CH4 from enteric fermentation	CH4	16.42	7.04	0.05	0.48
CH4 from field burning of agricultural residues	CH4	22.05	6.16	0.04	0.52
CH4 from Forest Land remaining Forest Land	CH4	5.03	5.12	0.03	0.55
CH4 from Grassland remaining Grassland	CH4	18.40	4.65	0.03	0.58
CH4 from Land converted Other Land	CH4	9.23	4.64	0.03	0.61
CH4 from Land converted to Cropland	CH4	13.56	3.04	0.02	0.63
CH4 from Land converted to Forest Land	CH4	1.23	2.87	0.02	0.65
CH4 from Land converted to Grassland	CH4	5.61	2.78	0.02	0.67
CH4 from Land converted to Settlements	CH4	4.78	2.72	0.02	0.69
CH4 from Land converted to Wetlands	CH4	23.89	2.66	0.02	0.71
CH4 from manure management	CH4	0.12	2.64	0.02	0.72
CH4 from rice production	CH4	4.40	2.54	0.02	0.74
CH4 from Settlements remaining Settlements	CH4	5.03	2.39	0.02	0.76
CH4 from solid waste disposal sites	CH4	14.21	2.34	0.02	0.77
CH4 from wastewater handling	CH4	5.67	2.21	0.01	0.79
CH4 from Wetlands remaining Wetlands	CH4	0.00	2.17	0.01	0.80
Civil Aviation	CH4	2.77	2.07	0.01	0.82
Civil Aviation	CO2	9.42	2.00	0.01	0.83
Civil Aviation	N2O	9.99	1.99	0.01	0.84
CO2 emission from Aluminium production	CO2	0.00	1.57	0.01	0.85
CO2 emission from Ammonia production	CO2	3.22	1.27	< 0.01	0.86
CO2 emission from Carbide production	CO2	5.46	1.15	< 0.01	0.87
CO2 emission from Ferroalloys production	CO2	7.16	1.10	< 0.01	0.88
CO2 emission from Iron and steel production	CO2	12.16	1.01	< 0.01	0.88
CO2 emission from Limestone and dolomite use	CO2	0.16	0.93	< 0.01	0.89
CO2 emission from Mineral products - other	CO2	0.00	0.91	< 0.01	0.90
CO2 emission from Soda ash production and use	CO2	0.00	0.85	< 0.01	0.90
CO2 emission from Solvent and other product use	CO2	2.02	0.82	< 0.01	0.91
CO2 emissions from Cement production	CO2	0.95	0.82	< 0.01	0.91
CO2 emissions from Lime production	CO2	1.45	0.78	< 0.01	0.92
CO2 from Cropland remaining Cropland	CO2	5.57	0.78	< 0.01	0.92

CO2 from Forest Land remaining Forest Land	CO2	0.03	0.78	< 0.01	0.93
CO2 from Grassland remaining Grassland	CO2	0.00	0.72	< 0.01	0.93
CO2 from Land converted Other Land	CO2	0.00	0.70	< 0.01	0.94
CO2 from Land converted to Cropland	CO2	3.63	0.68	< 0.01	0.94
CO2 from Land converted to Forest Land	CO2	0.60	0.68	< 0.01	0.95
CO2 from Land converted to Grassland	CO2	1.40	0.65	< 0.01	0.95
CO2 from Land converted to Settlements	CO2	0.78	0.62	< 0.01	0.96
CO2 from Land converted to Wetlands	CO2	0.01	0.50	< 0.01	0.96
CO2 from Settlements remaining Settlements	CO2	1.71	0.49	< 0.01	0.96
CO2 from waste incineration	CO2	0.83	0.49	< 0.01	0.97
CO2 from Wetlands remaining Wetlands	CO2	0.82	0.44	< 0.01	0.97
Direct N2O emissions from agricultural soils	N2O	4.13	0.42	< 0.01	0.97
Emission from Consumption of halocarbons	hfc, pfc, sf6	1.13	0.36	< 0.01	0.97
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH4	0.03	0.33	< 0.01	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N2O	0.40	0.31	< 0.01	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH4	1.36	0.27	< 0.01	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO2	0.00	0.25	< 0.01	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N2O	0.00	0.23	< 0.01	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH4	0.00	0.21	< 0.01	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO2	0.03	0.18	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N2O	0.26	0.18	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH4	1.96	0.17	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO2	0.00	0.15	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	N2O	0.00	0.14	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH4	0.65	0.13	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO2	0.01	0.13	< 0.01	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N2O	0.21	0.13	< 0.01	0.99

Energy Industries - Petroleum Refining - Biomass	CH4	0.65	0.12	< 0.01	0.99
Energy Industries - Petroleum Refining - Biomass	N2O	0.00	0.11	< 0.01	0.99
Energy Industries - Petroleum Refining - Gaseous Fuels	CH4	0.12	0.10	< 0.01	0.99
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.15	0.10	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.14	0.07	< 0.01	1.00
Energy Industries - Petroleum Refining - Gaseous Fuels	N2O	0.00	0.06	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	CH4	0.47	0.05	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	CO2	2.47	0.04	< 0.01	1.00
Energy Industries - Petroleum Refining - Liquid Fuels	N2O	0.04	0.04	< 0.01	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH4	0.09	0.04	< 0.01	1.00
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N2O	0.00	0.03	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CH4	0.01	0.02	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CO2	0.00	0.02	< 0.01	1.00
Energy Industries - Petroleum Refining - Solid Fuels	N2O	0.06	0.02	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	CH4	0.11	0.02	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	N2O	0.00	0.02	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH4	0.00	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO2	0.00	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N2O	0.02	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH4	0.02	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO2	0.00	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N2O	0.01	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH4	0.04	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat	CO2	0.00	0.01	< 0.01	1.00

Production - Other (Industrial Wastes)					
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N2O	0.04	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH4	3.35	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO2	0.00	0.01	< 0.01	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N2O	0.00	0.01	< 0.01	1.00
Fugitive emissions-oil and natural gas	CH4	0.02	0.01	< 0.01	1.00
Fugitive emissions-oil and natural gas	CO2	0.29	0.01	< 0.01	1.00
Fugitive emissions-oil and natural gas	N2O	0.05	0.01	< 0.01	1.00
Fugitive emissions-solid fuels	CH4	0.01	0.00	< 0.01	1.00
Indirect N2O emissions from agricultural soils	N2O	0.03	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Biomass	N2O	0.02	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO2	0.02	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH4	0.98	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO2	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO2	0.16	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N2O	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N2O	0.01	0.00	< 0.01	1.00

Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH4	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO2	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N2O	0.03	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO2	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH4	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N2O	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	N2O	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00

and Steel - Gaseous Fuels					
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO2	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00

Ferrous Metals - Solid Fuels					
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH4	0.01	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00



Paper and Print - Gaseous Fuels					
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
N2O emission from Nitric acid production	N2O	0.00	0.00	< 0.01	1.00
N2O emission from Adipic acid production	N2O	0.00	0.00	< 0.01	1.00
N2O from Cropland remaining Cropland	N2O	0.00	0.00	< 0.01	1.00
N2O from field burning of agricultural residues	N2O	0.00	0.00	< 0.01	1.00
N2O from Forest Land remaining Forest Land	N2O	0.00	0.00	< 0.01	1.00
N2O from Grassland remaining Grassland	N2O	0.00	0.00	< 0.01	1.00
N2O from Land converted Other Land	N2O	0.00	0.00	< 0.01	1.00
N2O from Land converted to Cropland	N2O	0.00	0.00	< 0.01	1.00
N2O from Land converted to Forest Land	N2O	0.00	0.00	< 0.01	1.00
N2O from Land converted to Grassland	N2O	0.00	0.00	< 0.01	1.00
N2O from Land converted to Settlements	N2O	0.00	0.00	< 0.01	1.00
N2O from Land converted to Wetlands	N2O	0.00	0.00	< 0.01	1.00
N2O from manure management	N2O	0.00	0.00	< 0.01	1.00
N2O from Settlements remaining Settlements	N2O	0.33	0.00	< 0.01	1.00
N2O from wastewater handling	N2O	0.00	0.00	< 0.01	1.00
N2O from Wetlands remaining Wetlands	N2O	0.00	0.00	< 0.01	1.00
Navigation	CH4	0.00	0.00	< 0.01	1.00
Navigation	CO2	0.00	0.00	< 0.01	1.00
Navigation	N2O	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N2O	0.00	0.00	< 0.01	1.00

Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00

Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO2	0.22	0.00	< 0.01	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Biomass	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Biomass	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CO2	0.68	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Biomass	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Biomass	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Gaseous Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	CH4	0.00	0.00	< 0.01	1.00

Other Sectors - Residential - Liquid Fuels	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Liquid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CO2	0.82	0.00	< 0.01	1.00
Other Sectors - Residential - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	CH4	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	CO2	0.00	0.00	< 0.01	1.00
Other Sectors - Residential - Solid Fuels	N2O	0.00	0.00	< 0.01	1.00
Other transports-pipeline	CO2	0.00	0.00	< 0.01	1.00
PFC emission from Aluminium production	PFC	0.00	0.00	< 0.01	1.00
Railways	CH4	0.00	0.00	< 0.01	1.00
Railways	CO2	0.00	0.00	< 0.01	1.00
Railways	N2O	0.00	0.00	< 0.01	1.00
Road transport	CH4	0.00	0.00	< 0.01	1.00
Road transport	CO2	0.00	0.00	< 0.01	1.00
Road transport	N2O	0.00	0.00	< 0.01	1.00
<b>TOTAL</b>		<b>314.63</b>	<b>149.40</b>		

# **Tier 1 Analysis –Trend assessment, 2010, including LULUCF**

<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct GHG</b>	<b>C</b> <b>Base Year Estimate (Mt CO<sub>2</sub> Equivalent)</b>	<b>D</b> <b>Current Year Estimate (Mt CO<sub>2</sub> Equivalent)</b>	<b>E</b> <b>Trend Assessment</b>	<b>F</b> <b>% Contribution to trend</b>	<b>G</b> <b>Cumulative Total of Column F</b>
Agricultural soils : animal production	N2O	18.86	22.16	0.19	12.76	0.13
CH4 emission from Chemical industry-other	CH4	4.57	13.50	0.16	10.95	0.24
CH4 emission from Silicon Carbide production	CH4	23.89	2.66	0.12	8.40	0.32
CH4 from Cropland remaining Cropland	CH4	33.17	20.75	0.07	4.84	0.37
CH4 from enteric fermentation	CH4	12.16	1.01	0.07	4.61	0.42
CH4 from field burning of agricultural residues	CH4	14.21	2.34	0.06	4.26	0.46
CH4 from Forest Land remaining Forest Land	CH4	22.05	6.16	0.06	4.17	0.50
CH4 from Grassland remaining Grassland	CH4	18.40	4.65	0.06	3.96	0.54
CH4 from Land converted Other Land	CH4	13.56	3.04	0.05	3.29	0.57
CH4 from Land converted to Cropland	CH4	9.99	1.99	0.04	2.66	0.60
CH4 from Land converted to Forest Land	CH4	5.03	5.12	0.04	2.64	0.63
CH4 from Land converted to Grassland	CH4	0.12	2.64	0.04	2.50	0.65
CH4 from Land converted to Settlements	CH4	9.42	2.00	0.03	2.39	0.67
CH4 from Land converted to Wetlands	CH4	7.16	1.10	0.03	2.22	0.70
CH4 from manure management	CH4	1.23	2.87	0.03	2.21	0.72
CH4 from rice production	CH4	0.00	2.17	0.03	2.10	0.74
CH4 from Settlements remaining Settlements	CH4	5.57	0.78	0.03	1.80	0.76
CH4 from solid waste disposal sites	CH4	3.35	0.01	0.02	1.53	0.77
CH4 from wastewater handling	CH4	0.00	1.57	0.02	1.52	0.79
CH4 from Wetlands remaining Wetlands	CH4	4.13	0.42	0.02	1.49	0.80
Civil Aviation	CH4	5.46	1.15	0.02	1.39	0.82
Civil Aviation	CO2	2.47	0.04	0.02	1.10	0.83
Civil Aviation	N2O	3.63	0.68	0.01	1.01	0.84
CO2 emission from Aluminium production	CO2	0.00	0.91	0.01	< 1	0.85
CO2 emission from Ammonia production	CO2	0.16	0.93	0.01	< 1	0.86
CO2 emission from Carbide production	CO2	0.00	0.85	0.01	< 1	0.86
CO2 emission from Ferroalloys production	CO2	0.03	0.78	0.01	< 1	0.87
CO2 emission from Iron and steel production	CO2	1.96	0.17	0.01	< 1	0.88
CO2 emission from Limestone and dolomite use	CO2	16.42	7.04	0.01	< 1	0.89
CO2 emission from Mineral products - other	CO2	2.77	2.07	0.01	< 1	0.89
CO2 emission from Soda ash production and use	CO2	0.00	0.72	0.01	< 1	0.90
CO2 emission from Solvent and other product	CO2	0.00	0.70	< 0.01	< 1	0.91

use						
CO2 emissions from Cement production	CO2	0.01	0.50	< 0.01	< 1	0.91
CO2 emissions from Lime production	CO2	5.67	2.21	< 0.01	< 1	0.92
CO2 from Cropland remaining Cropland	CO2	0.98	0.00	< 0.01	< 1	0.92
CO2 from Forest Land remaining Forest Land	CO2	4.40	2.54	< 0.01	< 1	0.92
CO2 from Grassland remaining Grassland	CO2	4.78	2.72	< 0.01	< 1	0.93
CO2 from Land converted Other Land	CO2	0.60	0.68	< 0.01	< 1	0.93
CO2 from Land converted to Cropland	CO2	0.82	0.00	< 0.01	< 1	0.94
CO2 from Land converted to Forest Land	CO2	1.36	0.27	< 0.01	< 1	0.94
CO2 from Land converted to Grassland	CO2	0.95	0.82	< 0.01	< 1	0.94
CO2 from Land converted to Settlements	CO2	0.68	0.00	< 0.01	< 1	0.95
CO2 from Land converted to Wetlands	CO2	1.71	0.49	< 0.01	< 1	0.95
CO2 from Settlements remaining Settlements	CO2	0.03	0.33	< 0.01	< 1	0.95
CO2 from waste incineration	CO2	16.46	7.53	< 0.01	< 1	0.96
CO2 from Wetlands remaining Wetlands	CO2	3.22	1.27	< 0.01	< 1	0.96
Direct N2O emissions from agricultural soils	N2O	9.23	4.64	< 0.01	< 1	0.96
Emission from Consumption of halocarbons	hfc, pfc, sf6	0.78	0.62	< 0.01	< 1	0.96
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH4	0.00	0.25	< 0.01	< 1	0.97
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N2O	0.00	0.23	< 0.01	< 1	0.97
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH4	0.00	0.21	< 0.01	< 1	0.97
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO2	0.65	0.12	< 0.01	< 1	0.97
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N2O	0.65	0.13	< 0.01	< 1	0.97
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH4	0.47	0.05	< 0.01	< 1	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO2	1.13	0.36	< 0.01	< 1	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N2O	0.03	0.18	< 0.01	< 1	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH4	0.33	0.00	< 0.01	< 1	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO2	0.00	0.15	< 0.01	< 1	0.98
Energy Industries - Manufacture of Solid Fuels	N2O	0.00	0.14	< 0.01	< 1	0.98

and Other Energy Industries - Other (Industrial Wastes)						
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH4	2.02	0.82	< 0.01	< 1	0.98
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO2	0.29	0.01	< 0.01	< 1	0.99
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N2O	0.40	0.31	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Biomass	CH4	0.01	0.13	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Biomass	N2O	5.61	2.78	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Gaseous Fuels	CH4	0.00	0.11	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	0.22	0.00	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Gaseous Fuels	CO2	1.45	0.78	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Gaseous Fuels	N2O	0.83	0.49	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Liquid Fuels	CH4	0.16	0.00	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Liquid Fuels	CO2	0.00	0.06	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Liquid Fuels	N2O	0.26	0.18	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH4	0.82	0.44	< 0.01	< 1	0.99
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N2O	0.12	0.10	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CH4	0.11	0.02	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Solid Fuels	CO2	0.00	0.03	< 0.01	< 1	1.00
Energy Industries - Petroleum Refining - Solid Fuels	N2O	0.15	0.10	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	CH4	0.21	0.13	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Biomass	N2O	0.00	0.02	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH4	0.01	0.02	< 0.01	< 1	1.00

Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO2	0.05	0.01	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N2O	0.04	0.04	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH4	0.00	0.02	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO2	0.00	0.01	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N2O	0.00	0.01	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH4	1.40	0.65	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO2	0.03	0.00	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N2O	0.04	0.01	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH4	0.06	0.02	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO2	0.04	0.01	< 0.01	< 1	1.00
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N2O	0.00	0.01	< 0.01	< 1	1.00
Fugitive emissions-oil and natural gas	CH4	0.03	0.00	< 0.01	< 1	1.00
Fugitive emissions-oil and natural gas	CO2	0.00	0.01	< 0.01	< 1	1.00
Fugitive emissions-oil and natural gas	N2O	0.09	0.04	< 0.01	< 1	1.00
Fugitive emissions-solid fuels	CH4	0.02	0.00	< 0.01	< 1	1.00
Indirect N2O emissions from agricultural soils	N2O	0.00	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Biomass	N2O	0.00	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH4	5.03	2.39	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO2	0.14	0.07	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N2O	0.01	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO2	0.02	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N2O	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction -	CH4	0.02	0.01	< 0.01	< 1	1.00



Chemicals - Liquid Fuels - Biomass						
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH4	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO2	0.02	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO2	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH4	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO2	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco -	CO2	0.00	0.00	< 0.01	< 1	1.00

Other (Industrial Wastes)						
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N2O	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH4	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00

Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N2O	0.01	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH4	0.02	0.01	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00

Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction -	CH4	0.00	0.00	< 0.01	< 1	1.00

Pulp, Paper and Print - Solid Fuels						
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O emission from Nitric acid production	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O emission from Adipic acid production	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Cropland remaining Cropland	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from field burning of agricultural residues	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Forest Land remaining Forest Land	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Grassland remaining Grassland	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Land converted Other Land	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Land converted to Cropland	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Land converted to Forest Land	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Land converted to Grassland	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Land converted to Settlements	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Land converted to Wetlands	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from manure management	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Settlements remaining Settlements	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from wastewater handling	N2O	0.00	0.00	< 0.01	< 1	1.00
N2O from Wetlands remaining Wetlands	N2O	0.00	0.00	< 0.01	< 1	1.00
Navigation	CH4	0.00	0.00	< 0.01	< 1	1.00
Navigation	CO2	0.00	0.00	< 0.01	< 1	1.00
Navigation	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00

Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00

Other Sectors - Commercial/Institutional - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Commercial/Institutional - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Biomass	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Biomass	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Gaseous Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Gaseous Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Gaseous Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Liquid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Liquid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Liquid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Other (Industrial Wastes)	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Other (Industrial Wastes)	N2O	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Solid Fuels	CH4	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Solid Fuels	CO2	0.00	0.00	< 0.01	< 1	1.00
Other Sectors - Residential - Solid Fuels	N2O	0.00	0.00	< 0.01	< 1	1.00
Other transports-pipeline	CO2	0.00	0.00	< 0.01	< 1	1.00

PFC emission from Aluminium production	PFC	0.00	0.00	< 0.01	< 1	1.00
Railways	CH4	0.00	0.00	< 0.01	< 1	1.00
Railways	CO2	0.00	0.00	< 0.01	< 1	1.00
Railways	N2O	0.00	0.00	< 0.01	< 1	1.00
Road transport	CH4	0.00	0.00	< 0.01	< 1	1.00
Road transport	CO2	0.00	0.00	< 0.01	< 1	1.00
Road transport	N2O	0.00	0.00	< 0.01	< 1	1.00
<b>TOTAL</b>		<b>314.63</b>	<b>149.40</b>			



<b>Key Category Analysis Summary, 1989, including LULUCF (Table 7A3 of IPCC GPG 2000)</b>				
<b>Quantitative Method Used:</b> <input checked="" type="checkbox"/> Tier 1 <input type="checkbox"/> Tier 2				
<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct GHG</b>	<b>C</b> <b>Key Source Category Flag</b>	<b>D</b> <b>If Column C is Yes, Criteria for Identification</b>	<b>E</b> <b>Comments</b>
<b>Energy</b>				
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO <sub>2</sub>	<b>Yes</b>	<b>Level</b>	
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO <sub>2</sub>	<b>Yes</b>	<b>Level</b>	
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO <sub>2</sub>	<b>Yes</b>	<b>Level</b>	
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO <sub>2</sub>	<b>No</b>		
Energy Industries - Petroleum Refining - Liquid Fuels	CO <sub>2</sub>	<b>Yes</b>	<b>Level</b>	
Energy Industries - Petroleum Refining - Solid Fuels	CO <sub>2</sub>	<b>No</b>		
Energy Industries - Petroleum Refining - Gaseous Fuels	CO <sub>2</sub>	<b>No</b>		
Energy Industries - Petroleum Refining - Gaseous Fuels	CO <sub>2</sub>	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO <sub>2</sub>	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO <sub>2</sub>	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO <sub>2</sub>	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO <sub>2</sub>	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO <sub>2</sub>	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO <sub>2</sub>	<b>Yes</b>	<b>Level</b>	
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO <sub>2</sub>	<b>Yes</b>	<b>Level</b>	
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO <sub>2</sub>	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO <sub>2</sub>	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO <sub>2</sub>	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous	CO <sub>2</sub>	<b>No</b>		

Metals - Gaseous Fuels				
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Solid Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO <sub>2</sub>	No		

Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Residential - Liquid Fuels	CO <sub>2</sub>	No		
Other Sectors - Residential - Solid Fuels	CO <sub>2</sub>	Yes	Level	
Other Sectors - Residential - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Other Sectors - Residential - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO <sub>2</sub>	Yes	Level	
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO <sub>2</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO <sub>2</sub>	Yes	Level	
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Biomass	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Biomass	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other	CH <sub>4</sub>	No		

Energy Industries - Liquid Fuels				
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CH <sub>4</sub>	No		

Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Biomass	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Residential - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Gaseous Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Biomass	CH <sub>4</sub>	No		

Other Sectors - Residential - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH <sub>4</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH <sub>4</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N <sub>2</sub> O	No		
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N <sub>2</sub> O	No		
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N <sub>2</sub> O	No		
Energy Industries - Public Electricity and Heat Production - Biomass	N <sub>2</sub> O	No		
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Liquid Fuels	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Solid Fuels	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Biomass	N <sub>2</sub> O	No		
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N <sub>2</sub> O	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N <sub>2</sub> O	No		
Energy Industries - Manufacture of Solid Fuels and Other	N <sub>2</sub> O	No		

Energy Industries - Gaseous Fuels				
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and	N <sub>2</sub> O	<b>No</b>		

Print - Biomass				
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Biomass	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Solid Fuels	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Biomass	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other Sectors - Residential - Liquid Fuels	N <sub>2</sub> O	No		
Other Sectors - Residential - Solid Fuels	N <sub>2</sub> O	No		
Other Sectors - Residential - Gaseous Fuels	N <sub>2</sub> O	No		
Other Sectors - Residential - Biomass	N <sub>2</sub> O	No		
Other Sectors - Residential - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N <sub>2</sub> O	No		



Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Fugitive emissions-solid fuels	CH <sub>4</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	CH <sub>4</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	CO <sub>2</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	N <sub>2</sub> O	No		
Civil Aviation	CH <sub>4</sub>	No		
Road transport	CH <sub>4</sub>	No		
Railways	CH <sub>4</sub>	No		
Navigation	CH <sub>4</sub>	No		
Civil Aviation	CO <sub>2</sub>	No		
Road transport	CO <sub>2</sub>	Yes	Level	
Railways	CO <sub>2</sub>	No		
Navigation	CO <sub>2</sub>	No		
Other transports-pipeline	CO <sub>2</sub>	No		
Civil Aviation	N <sub>2</sub> O	No		
Road transport	N <sub>2</sub> O	No		
Railways	N <sub>2</sub> O	No		
Navigation	N <sub>2</sub> O	No		
<b>Industrial Processes</b>				
CH <sub>4</sub> emissions from Chemical industry-other	CH <sub>4</sub>	No		
CO <sub>2</sub> emissions from Ammonia production	CO <sub>2</sub>	Yes	Level	

CO <sub>2</sub> emissions from Cement production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Lime production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Aluminium production	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Carbide production	CO <sub>2</sub>	No		
CH <sub>4</sub> emissions from Silicon Carbide production	CH <sub>4</sub>	No		
CO <sub>2</sub> emissions from Ferroalloys production	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Iron and steel production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Limestone and dolomite use	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Soda ash production and use	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Mineral products - other	CO <sub>2</sub>	No		
Emission from Consumption of halocarbons	HFC,	No		
N <sub>2</sub> O emissions from Adipic acid production	N <sub>2</sub> O	No		
N <sub>2</sub> O emissions from Nitric acid production	N <sub>2</sub> O	Yes	Level	
PFC emissions from Aluminium production	PFC	Yes	Level	
<b>Solvents and other product use</b>				
CO <sub>2</sub> emissions from Solvent and other product use	CO <sub>2</sub>	No		
<b>Agriculture</b>				
Agricultural soils : animal production	N <sub>2</sub> O	Yes	Level	
CH <sub>4</sub> from enteric fermentation	CH <sub>4</sub>	Yes	Level	
CH <sub>4</sub> from field burning of agricultural residues	CH <sub>4</sub>	No		
CH <sub>4</sub> from manure management	CH <sub>4</sub>	No		
CH <sub>4</sub> from rice production	CH <sub>4</sub>	No		
Direct N <sub>2</sub> O emissions from agricultural soils	N <sub>2</sub> O	Yes	Level	
Indirect N <sub>2</sub> O emissions from agricultural soils	N <sub>2</sub> O	Yes	Level	
N <sub>2</sub> O from field burning of agricultural residues	N <sub>2</sub> O	No		
N <sub>2</sub> O from manure management	N <sub>2</sub> O	Yes	Level	
<b>Land Use, Land Use Change and Forestry</b>				
CH <sub>4</sub> from Cropland remaining Cropland	CH <sub>4</sub>	No		
CH <sub>4</sub> from Forest Land remaining Forest Land	CH <sub>4</sub>	No		
CH <sub>4</sub> from Grassland remaining Grassland	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted Other Land	CH <sub>4</sub>	No		

CH <sub>4</sub> from Land converted to Cropland	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Forest Land	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Grassland	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Settlements	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Wetlands	CH <sub>4</sub>	No		
CH <sub>4</sub> from Settlements remaining Settlements	CH <sub>4</sub>	No		
CH <sub>4</sub> from Wetlands remaining Wetlands	CH <sub>4</sub>	No		
CO <sub>2</sub> from Cropland remaining Cropland	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> from Forest Land remaining Forest Land	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> from Grassland remaining Grassland	CO <sub>2</sub>	No		
CO <sub>2</sub> from Land converted Other Land	CO <sub>2</sub>	No		
CO <sub>2</sub> from Land converted to Cropland	CO <sub>2</sub>	No		
CO <sub>2</sub> from Land converted to Forest Land	CO <sub>2</sub>	No		
CO <sub>2</sub> from Land converted to Grassland	CO <sub>2</sub>	No		
CO <sub>2</sub> from Land converted to Settlements	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> from Land converted to Wetlands	CO <sub>2</sub>	No		
CO <sub>2</sub> from Settlements remaining Settlements	CO <sub>2</sub>	No		
CO <sub>2</sub> from Wetlands remaining Wetlands	CO <sub>2</sub>	No		
N <sub>2</sub> O from Cropland remaining Cropland	N <sub>2</sub> O	No		
N <sub>2</sub> O from Forest Land remaining Forest Land	N <sub>2</sub> O	No		
N <sub>2</sub> O from Grassland remaining Grassland	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted Other Land	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Cropland	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Forest Land	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Grassland	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Settlements	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Wetlands	N <sub>2</sub> O	No		
N <sub>2</sub> O from Settlements remaining Settlements	N <sub>2</sub> O	No		
N <sub>2</sub> O from Wetlands remaining Wetlands	N <sub>2</sub> O	No		
<b>Waste</b>				
CH <sub>4</sub> from solid waste disposal sites	CH <sub>4</sub>	No		

CH <sub>4</sub> from wastewater handling	CH <sub>4</sub>	<b>Yes</b>	<b>Level</b>	
CO <sub>2</sub> from waste incineration	CO <sub>2</sub>	<b>No</b>		
N <sub>2</sub> O from wastewater handling	N <sub>2</sub> O	<b>No</b>		

<b>Key Category Analysis Summary, 2010, including LULUCF (Table 7A3 of IPCC GPG 2000)</b>				
<b>Quantitative Method Used:</b> <input checked="" type="checkbox"/> Tier 1 <input type="checkbox"/> Tier 2				
<b>A</b> <b>IPCC Source Categories</b>	<b>B</b> <b>Direct GHG</b>	<b>C</b> <b>Key Source Category Flag</b>	<b>D</b> <b>If Column C is Yes, Criteria for Identification</b>	<b>E</b> <b>Comments</b>
<b>Energy</b>				
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Energy Industries - Petroleum Refining - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Petroleum Refining - Solid Fuels	CO <sub>2</sub>	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Petroleum Refining - Gaseous Fuels	CO <sub>2</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CO <sub>2</sub>	Yes	Trend	
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CO <sub>2</sub>	No		

Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Solid Fuels	CO <sub>2</sub>	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	

Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Residential - Liquid Fuels	CO <sub>2</sub>	No		
Other Sectors - Residential - Solid Fuels	CO <sub>2</sub>	Yes	Trend	
Other Sectors - Residential - Gaseous Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Other Sectors - Residential - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CO <sub>2</sub>	Yes	Level, Trend	
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CO <sub>2</sub>	No		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CO <sub>2</sub>	Yes	Trend	
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CO <sub>2</sub>	Yes	Trend	
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CO <sub>2</sub>	Yes	Trend	
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CO <sub>2</sub>	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CO <sub>2</sub>	No		
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Biomass	CH <sub>4</sub>	No		
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Biomass	CH <sub>4</sub>	No		
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	CH <sub>4</sub>	No		

Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	CH <sub>4</sub>	No		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper	CH <sub>4</sub>	No		



and Print - Liquid Fuels				
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Biomass	CH <sub>4</sub>	No		
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Biomass	CH <sub>4</sub>	No		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	CH <sub>4</sub>	No		
Other Sectors - Residential - Liquid Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Solid Fuels	CH <sub>4</sub>	No		
Other Sectors - Residential - Gaseous Fuels	CH <sub>4</sub>	No		

Other Sectors - Residential - Biomass	CH <sub>4</sub>	<b>Yes</b>	<b>Level, Trend</b>	
Other Sectors - Residential - Other (Industrial Wastes)	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	CH <sub>4</sub>	<b>No</b>		
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	CH <sub>4</sub>	<b>No</b>		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	CH <sub>4</sub>	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Biomass	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Public Electricity and Heat Production - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Biomass	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Petroleum Refining - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		

Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Biomass	N <sub>2</sub> O	<b>No</b>		
Energy Industries - Manufacture of Solid Fuels and Other Energy Industries - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Iron and Steel - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Non-Ferrous Metals - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Solid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Gaseous Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Biomass	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Chemicals - Other (Industrial Wastes)	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Liquid Fuels	N <sub>2</sub> O	<b>No</b>		
Manufacturing Industries and Construction - Pulp, Paper and Print - Solid Fuels	N <sub>2</sub> O	<b>No</b>		

Manufacturing Industries and Construction - Pulp, Paper and Print - Gaseous Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Biomass	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Pulp, Paper and Print - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Liquid Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Solid Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Gaseous Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Biomass	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Liquid Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Solid Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Gaseous Fuels	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Biomass	N <sub>2</sub> O	No		
Manufacturing Industries and Construction - Other (please specify) - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Liquid Fuels	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Solid Fuels	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Gaseous Fuels	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Biomass	N <sub>2</sub> O	No		
Other Sectors - Commercial/Institutional - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other Sectors - Residential - Liquid Fuels	N <sub>2</sub> O	No		
Other Sectors - Residential - Solid Fuels	N <sub>2</sub> O	No		
Other Sectors - Residential - Gaseous Fuels	N <sub>2</sub> O	No		
Other Sectors - Residential - Biomass	N <sub>2</sub> O	No		
Other Sectors - Residential - Other (Industrial Wastes)	N <sub>2</sub> O	No		

Other Sectors - Agriculture/Forestry/Fisheries - Liquid Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Solid Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Gaseous Fuels	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Biomass	N <sub>2</sub> O	No		
Other Sectors - Agriculture/Forestry/Fisheries - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Liquid Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Solid Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Gaseous Fuels	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Biomass	N <sub>2</sub> O	No		
Other (Not specified elsewhere) - Stationary (please specify) - Other (Industrial Wastes)	N <sub>2</sub> O	No		
Fugitive emissions-solid fuels	CH <sub>4</sub>	Yes	Level, Trend	
Fugitive emissions-oil and natural gas	CH <sub>4</sub>	Yes	Level, Trend	
Fugitive emissions-oil and natural gas	CO <sub>2</sub>	Yes	Level	
Fugitive emissions-oil and natural gas	N <sub>2</sub> O	No		
Civil Aviation	CH <sub>4</sub>	No		
Road transport	CH <sub>4</sub>	No		
Railways	CH <sub>4</sub>	No		
Navigation	CH <sub>4</sub>	No		
Civil Aviation	CO <sub>2</sub>	Yes	Trend	
Road transport	CO <sub>2</sub>	Yes	Level, Trend	
Railways	CO <sub>2</sub>	No		
Navigation	CO <sub>2</sub>	No		
Other transports-pipeline	CO <sub>2</sub>	No		
Civil Aviation	N <sub>2</sub> O	No		
Road transport	N <sub>2</sub> O	Yes	Trend	
Railways	N <sub>2</sub> O	No		
Navigation	N <sub>2</sub> O	No		

<b>Industrial Processes</b>				
CH <sub>4</sub> emissions from Chemical industry-other	CH <sub>4</sub>	No		
CO <sub>2</sub> emissions from Ammonia production	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> emissions from Cement production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Lime production	CO <sub>2</sub>	Yes	Level	
CO <sub>2</sub> emissions from Aluminium production	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Carbide production	CO <sub>2</sub>	No		
CH <sub>4</sub> emissions from Silicon Carbide production	CH <sub>4</sub>	No		
CO <sub>2</sub> emissions from Ferroalloys production	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Iron and steel production	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> emissions from Limestone and dolomite use	CO <sub>2</sub>	Yes	Trend	
CO <sub>2</sub> emissions from Soda ash production and use	CO <sub>2</sub>	No		
CO <sub>2</sub> emissions from Mineral products - other	CO <sub>2</sub>	No		
Emissions from Consumption of halocarbons	HFC, PFC, SF <sub>6</sub>	Yes	Level, Trend	
N <sub>2</sub> O emissions from Adipic acid production	N <sub>2</sub> O	Yes	Trend	
N <sub>2</sub> O emissions from Nitric acid production	N <sub>2</sub> O	Yes	Level, Trend	
PFC emissions from Aluminium production	PFC	Yes	Trend	
<b>Solvents and other product use</b>				
CO <sub>2</sub> emissions from Solvent and other product use	CO <sub>2</sub>	No		
<b>Agriculture</b>				
Agricultural soils : animal production	N <sub>2</sub> O	Yes	Level	
CH <sub>4</sub> from enteric fermentation	CH <sub>4</sub>	Yes	Level	
CH <sub>4</sub> from field burning of agricultural residues	CH <sub>4</sub>	No		
CH <sub>4</sub> from manure management	CH <sub>4</sub>	No		
CH <sub>4</sub> from rice production	CH <sub>4</sub>	No		
Direct N <sub>2</sub> O emissions from agricultural soils	N <sub>2</sub> O	Yes	Level	
Indirect N <sub>2</sub> O emissions from agricultural soils	N <sub>2</sub> O	Yes	Level	
N <sub>2</sub> O from field burning of agricultural residues	N <sub>2</sub> O	No		
N <sub>2</sub> O from manure management	N <sub>2</sub> O	Yes	Level	
<b>Land Use, Land Use Change and Forestry</b>				

CH <sub>4</sub> from Cropland remaining Cropland	CH <sub>4</sub>	No		
CH <sub>4</sub> from Forest Land remaining Forest Land	CH <sub>4</sub>	No		
CH <sub>4</sub> from Grassland remaining Grassland	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted Other Land	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Cropland	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Forest Land	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Grassland	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Settlements	CH <sub>4</sub>	No		
CH <sub>4</sub> from Land converted to Wetlands	CH <sub>4</sub>	No		
CH <sub>4</sub> from Settlements remaining Settlements	CH <sub>4</sub>	No		
CH <sub>4</sub> from Wetlands remaining Wetlands	CH <sub>4</sub>	No		
CO <sub>2</sub> from Cropland remaining Cropland	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> from Forest Land remaining Forest Land	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> from Grassland remaining Grassland	CO <sub>2</sub>	No		
CO <sub>2</sub> from Land converted Other Land	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> from Land converted to Cropland	CO <sub>2</sub>	No		
CO <sub>2</sub> from Land converted to Forest Land	CO <sub>2</sub>	Yes	Level, Trend	
CO <sub>2</sub> from Land converted to Grassland	CO <sub>2</sub>	No		
CO <sub>2</sub> from Land converted to Settlements	CO <sub>2</sub>	Yes	Trend	
CO <sub>2</sub> from Land converted to Wetlands	CO <sub>2</sub>	No		
CO <sub>2</sub> from Settlements remaining Settlements	CO <sub>2</sub>	No		
CO <sub>2</sub> from Wetlands remaining Wetlands	CO <sub>2</sub>	No		
N <sub>2</sub> O from Cropland remaining Cropland	N <sub>2</sub> O	No		
N <sub>2</sub> O from Forest Land remaining Forest Land	N <sub>2</sub> O	No		
N <sub>2</sub> O from Grassland remaining Grassland	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted Other Land	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Cropland	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Forest Land	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Grassland	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Settlements	N <sub>2</sub> O	No		
N <sub>2</sub> O from Land converted to Wetlands	N <sub>2</sub> O	No		

N <sub>2</sub> O from Settlements remaining Settlements	N <sub>2</sub> O	No		
N <sub>2</sub> O from Wetlands remaining Wetlands	N <sub>2</sub> O	No		
<b>Waste</b>				
CH <sub>4</sub> from solid waste disposal sites	CH <sub>4</sub>	Yes	Level, Trend	
CH <sub>4</sub> from wastewater handling	CH <sub>4</sub>	Yes	Level, Trend	
CO <sub>2</sub> from waste incineration	CO <sub>2</sub>	No		
N <sub>2</sub> O from wastewater handling	N <sub>2</sub> O	Yes	Level, Trend	



**Table NIR. 3, as contained in the Annex to Decision 6/CMP. 3 (and containing information associated KP - LULUCF 2010)**

<b>KEY CATEGORIES OF EMISSIONS AND REMOVALS</b>	<b>GAS</b>	<b>CRITERIA USED FOR KEY CATEGORY IDENTIFICATION</b>			<b>COMMENTS (3)</b>
		<b>Associated category in UNFCCC inventory (1) is key (indicate which category)</b>	<b>Category contribution is greater than the smallest category considered key in the UNFCCC inventory (1), (4) (including LULUCF)</b>	<b>Other (2)</b>	
<b>Specify key categories according to the national level of disaggregation used(1)</b>					
Forest Management	CO2	Forest land remaining forest land	Yes	No other criteria needed	Key category level assessment including LULUCF
Afforestation and Reforestation	CO2	Conversion to forest land	Yes	No other criteria needed	Key category level assessment including LULUCF
Revegetation	CO2	Cropland remaining cropland	No	No other criteria needed	Key category level assessment including LULUCF