

Annex 1. Key categories

This annex contains the detailed information on key categories.

The following tables are provided:

- Tier 2 level assessment year 1990 excluding LULUCF
- Tier 2 level assessment year 1990 including LULUCF
- Tier 2 level assessment year 2008 excluding LULUCF
- Tier 2 level assessment year 2008 including LULUCF
- Tier 2 trend assessment excluding LULUCF
- Tier 2 trend assessment including LULUCF

The tables follow the format and methodology (Tier 2) suggested in IPCC guidelines (2000, 2003). Uncertainty estimates used in the analysis can be found in Annex 7 of the present report.

Table 1. Tier 2 level assessment year 1990 excluding LULUCF

A	B	C	D	E	F	G
	IPCC Source Category	Greenhouse Gas	Emissions 1990	Tier 2 level assessment	Normalised Tier 2 level assessment	Cumulative total of column F
1.A.1	Energy Industries - Solid Fuels	CO ₂	21990,04	0,058	0,313	0,313
4.D.3.2	Indirect Emissions - Nitrogen Leaching and Run-off	N ₂ O	432,15	0,044	0,237	0,550
6.A	Solid Waste Disposal on Land	CH ₄	599,93	0,009	0,050	0,600
4.A	Enteric Fermentation - Dairy Cattle	CH ₄	587,25	0,007	0,039	0,640
4.D.1.1	Direct Soil Emissions - Synthetic Fertilizers	N ₂ O	353,65	0,007	0,037	0,677
1.A.3.B	Road Transport - Liquid Fuels	CO ₂	2268,00	0,006	0,032	0,710
4.A	Enteric Fermentation - Non-Dairy Cattle	CH ₄	472,67	0,006	0,032	0,741
4.B	Manure Management - Solis Storage and Dry Lot	N ₂ O	215,20	0,005	0,029	0,771
4.D.1.2	Direct Soil Emissions - Animal Manure Applied to Soils	N ₂ O	254,88	0,005	0,028	0,799
4.D.1.5	Direct Soil Emissions - Cultivation of Histosols	N ₂ O	166,39	0,003	0,018	0,817
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CO ₂	1202,96	0,003	0,017	0,834
4.D.1.4	Direct Soil Emissions - Crop Residue	N ₂ O	128,23	0,003	0,016	0,850
1.A.1	Energy Industries - Liquid Fuels	CO ₂	4825,04	0,003	0,016	0,865
1.B.2	Oil and Natural Gas	CH ₄	792,82	0,003	0,015	0,880
2.A.1.	Cement Production	CO ₂	483,04	0,002	0,013	0,893
4.D.3.1	Indirect Emissions - Atmospheric Deposition	N ₂ O	83,79	0,002	0,013	0,906
2.B.1.	Ammonia Production	CO ₂	420,05	0,002	0,011	0,917
4.B	Manure Management - Other AWMS	N ₂ O	80,87	0,002	0,011	0,928
4.D.2	Pasture, Range and Paddock Manure	N ₂ O	74,80	0,002	0,010	0,939
1.A.1	Energy Industries - Gaseous Fuels	CO ₂	1960,90	0,002	0,010	0,949
1.A.4.	Other Sectors - Solid Fuels	CO ₂	389,65	0,001	0,006	0,954
6.B.2.2	Domestic and Commercial Wastewater - human sewage	N ₂ O	40,21	0,001	0,005	0,959
6.C	Waste incineration	N ₂ O	30,46	0,001	0,004	0,964
1.A.4.	Other Sectors - Liquid Fuels	CO ₂	1045,80	0,001	0,003	0,967
1.A.4.	Other Sectors - Liquid Fuels	N ₂ O	48,74	0,001	0,003	0,970

1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CO2	776,12	0,000	0,003	0,973
2.A.2	Lime Production	CO2	131,30	0,000	0,002	0,975
4.B	Manure Management - Swine	CO2	56,34	0,000	0,002	0,977
1.A.4.	Other Sectors - Solid Fuels	CH4	27,02	0,000	0,002	0,979
1.A.3.B	Road Transport - Liquid Fuels	N2O	26,72	0,000	0,002	0,981
4.B	Manure Management - Dairy Cattle	CO2	45,61	0,000	0,002	0,982
1.A.5	Other	CO2	43,61	0,000	0,001	0,984
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CO2	279,23	0,000	0,001	0,985
1.A.3.B	Road Transport - Liquid Fuels	CH4	23,11	0,000	0,001	0,986
4.B	Manure Management -Non-Dairy Cattle	CO2	33,00	0,000	0,001	0,988
1.A.1	Energy Industries - Liquid Fuels	N2O	11,75	0,000	0,001	0,989
1.A.3.D.	Navigation - Liquid fuels	CO2	21,85	0,000	0,001	0,990
6.B	Domestic and Commercial Wastewater (anaerobic)	CH4	8,13	0,000	0,001	0,991
4.A	Enteric Fermentation - Swine	CH4	14,33	0,000	0,001	0,992
4.B	Manure Management - Liquid system	N2O	6,87	0,000	0,001	0,993
4.A	Enteric Fermentation - Sheep	CH4	23,49	0,000	0,001	0,994
1.A.4.	Other Sectors - Gaseous Fuels	CO2	137,89	0,000	0,001	0,994
1.A.3.C	Railways - Solid Fuels	CO2	11,46	0,000	0,001	0,995
1.A.4.	Other Sectors - Solid Fuels	N2O	8,99	0,000	0,001	0,996
1.A.3.C	Railway - Liquid Fuels	CO2	143,06	0,000	0,000	0,996
1.A.1	Energy Industries - Solid Fuels	N2O	4,18	0,000	0,000	0,997
1.A.4.	Other Sectors - Biomass	CH4	6,23	0,000	0,000	0,997
4.B	Manure Management - Poultry	CH4	10,71	0,000	0,000	0,997
1.A.1	Energy Industries - Biomass	N2O	3,03	0,000	0,000	0,998
4.F.1	Field Burning of Agricultural Residues - Cereals	CH4	4,98	0,000	0,000	0,998
1.A.4.	Other Sectors - Liquid Fuels	CH4	4,03	0,000	0,000	0,998
1.A.1	Energy Industries - Liquid Fuels	CH4	4,00	0,000	0,000	0,998
1.A.4.	Other Sectors - Biomass	N2O	3,68	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	N2O	1,94	0,000	0,000	0,999
4.A	Enteric Fermentation - Horses	CH4	3,25	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	N2O	1,15	0,000	0,000	0,999

1.A.1	Energy Industries - Gaseous Fuels	N2O	1,11	0,000	0,000	0,999
1.A.1	Energy Industries - Biomass	CH4	1,54	0,000	0,000	0,999
1.A.1	Energy Industries - Solid Fuels	CH4	1,38	0,000	0,000	0,999
6.D	Biological Treatment	N2O	0,66	0,000	0,000	0,999
6.D	Biological Treatment	CH4	0,60	0,000	0,000	0,999
4.B	Manure Management - Anaerobic Lagoon	N2O	0,57	0,000	0,000	0,999
1.A.4.	Other Sectors - Gaseous Fuels	N2O	0,78	0,000	0,000	0,999
4.F.1	Field Burning of Agricultural Residues - Cereals	N2O	1,02	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Biomass	N2O	0,31	0,000	0,000	0,999
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	CH4	0,51	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CH4	0,44	0,000	0,000	0,999
1.A.3.C	Railway - Liquid Fuels	N2O	0,36	0,000	0,000	0,999
4.D.1.6	Direct Soil Emissions - Sewage Sludge	N2O	0,20	0,000	0,000	0,999
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	5,69	0,000	0,000	1,000
4.B	Manure Management - Sheep	N2O	0,56	0,000	0,000	1,000
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	N2O	0,16	0,000	0,000	1,000
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	N2O	0,31	0,000	0,000	1,000
4.A	Enteric Fermentation - Fur farming	CH4	0,20	0,000	0,000	1,000
1.A.5	Other	N2O	0,77	0,000	0,000	1,000
1.A.3.C	Railway - Liquid Fuels	CH4	0,20	0,000	0,000	1,000
1.A.4.	Other Sectors - Gaseous Fuels	CH4	0,16	0,000	0,000	1,000
1.A.2	Manufacturing Industries and Constructions - Biomass	CH4	0,16	0,000	0,000	1,000
4.D.1.3	Direct Soil Emissions - N-fixing Crops	N2O	0,08	0,000	0,000	1,000
4.B	Manure Management - Fur farming	CH4	0,27	0,000	0,000	1,000
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CH4	0,12	0,000	0,000	1,000
4.B	Manure Management - Horses	N2O	0,25	0,000	0,000	1,000
1.A.1	Energy Industries - Gaseous Fuels	CH4	0,08	0,000	0,000	1,000
1.A.3.A	Civil Aviation -Liquid Fuels	CH4	0,06	0,000	0,000	1,000
1.A.3.D.	Navigation - Liquid fuels	N2O	0,06	0,000	0,000	1,000
1.A.3.C	Railways - Solid Fuels	N2O	0,05	0,000	0,000	1,000
4.A	Enteric Fermentation - Goats	CH4	0,09	0,000	0,000	1,000

1.A.3.D.	Navigation - Liquid fuels	CH4	0,03	0,000	0,000	1,000
1.A.3.C	Railways - Solid Fuels	CH4	0,02	0,000	0,000	1,000
1.A.5	Other	CH4	0,05	0,000	0,000	1,000
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CH4	0,01	0,000	0,000	1,000
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	0,01	0,000	0,000	1,000
4.F.2	Field Burning of Agricultural Residues - Pulse	CH4	0,00	0,000	0,000	1,000
4.B	Manure Management - Goats	CH4	0,00	0,000	0,000	1,000
4.F.2	Field Burning of Agricultural Residues - Pulse	N2O	0,00	0,000	0,000	1,000
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CO2		0,000	0,000	1,000
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CH4		0,000	0,000	1,000
1.A.2	Manufacturing Industries and Constructions - Other Fuels	N2O		0,000	0,000	1,000
2.A.7.1.	Glass Production	CO2	0,00	0,000	0,000	1,000
2.F.1.1	Domestic Refrigeration	HFCs	0,00	0,000	0,000	1,000
2.F.1.2	Commercial Refrigeration	HFCs	0,00	0,000	0,000	1,000
2.F.1.3	Transport Refrigeration - Refrigerated Vehicles	HFCs	0,00	0,000	0,000	1,000
2.F.1.3	Transport Refrigeration - Reefer Containers	HFCs	0,00	0,000	0,000	1,000
2.F.1.4	Industrial Refrigeration	HFCs	0,00	0,000	0,000	1,000
2.F.1.5	Stationary Air-Conditioning - Heat Pumps	HFCs	0,00	0,000	0,000	1,000
2.F.1.5	Stationary Air-Conditioning - Stationary and Room Air-Conditioning	HFCs	0,00	0,000	0,000	1,000
2.F.1.6	Mobile Air-Conditioning - Passenger Cars	HFCs	0,00	0,000	0,000	1,000
2.F.1.6	Mobile Air-Conditioning - Trucks	HFCs	0,00	0,000	0,000	1,000
2.F.1.6	Mobile Air-Conditioning - Buses	HFCs	0,00	0,000	0,000	1,000
2.F.1.6	Mobile Air-Conditioning - Ships	HFCs	0,00	0,000	0,000	1,000
2.F.1.6	Mobile Air-Conditioning - Railcars	HFCs	0,00	0,000	0,000	1,000
2.F.1.6	Mobile Air-Conditioning - Wheel Tractors and Mobile Machinery	HFCs	0,00	0,000	0,000	1,000
2.F.2	...PU Insulation Panels	HFCs	0,00	0,000	0,000	1,000
2.F.2	...Spray and Injection PU Foam	HFCs	0,00	0,000	0,000	1,000
2.F.2	...PU Integral Skin Foam	HFCs	0,00	0,000	0,000	1,000
2.F.2	...XPS Insulation Foam	HFCs	0,00	0,000	0,000	1,000
2.F.2	...One Component PU Foam	HFCs	0,00	0,000	0,000	1,000
2.F.3	Fire Extinguishers	HFCs	0,00	0,000	0,000	1,000

2.F.4	...	Metered Dose Inhalers	HFCs	0,00	0,000	0,000	1,000
2.F.4	...	General and Novelty Aerosols	HFCs	0,00	0,000	0,000	1,000
2.F.8		Electrical equipment	SF6	0,00	0,000	0,000	1,000
2.F.9		Sport Shoe soles	PFC	0,00	0,000	0,000	1,000
2.F.9		Other Electrical Equipment	SF6	0,00	0,000	0,000	1,000

Table 2. Tier 2 level assessment year 1990 including LULUCF

A	B	C	D	E	F	G
	IPCC Source Category	Greenhouse Gas	Emissions 1990	Tier 2 level assessment	Normalised Tier 2 level assessment	Cumulative total of column F
5.A	Carbon stock change (removals)	CO ₂	-12127,51	0,055	0,229	0,229
1.A.1	Energy Industries - Solid Fuels	CO ₂	21990,04	0,040	0,167	0,396
4.D.3.2	Indirect Emissions - Nitrogen Leaching and Run-off	N ₂ O	432,15	0,030	0,126	0,522
5.A	Carbon stock change (emissions)	CO ₂	3734,66	0,025	0,102	0,624
5.B	Cropland, Mineral soils	CO ₂	920,96	0,015	0,062	0,686
5.B	Cropland, Organic soils	CO ₂	763,10	0,012	0,048	0,734
6.A	Solid Waste Disposal on Land	CH ₄	599,93	0,006	0,027	0,761
4.A	Enteric Fermentation - Dairy Cattle	CH ₄	587,25	0,005	0,021	0,782
4.D.1.1	Direct Soil Emissions - Synthetic Fertilizers	N ₂ O	353,65	0,005	0,020	0,802
1.A.3.B	Road Transport - Liquid Fuels	CO ₂	2268,00	0,004	0,017	0,819
4.A	Enteric Fermentation - Non-Dairy Cattle	CH ₄	472,67	0,004	0,017	0,836
4.B	Manure Management - Solis Storage and Dry Lot	N ₂ O	215,20	0,004	0,016	0,852
4.D.1.2	Direct Soil Emissions - Animal Manure Applied to Soils	N ₂ O	254,88	0,004	0,015	0,867
5.A	Organic soils	CO ₂	303,36	0,003	0,011	0,877
4.D.1.5	Direct Soil Emissions - Cultivation of Histosols	N ₂ O	166,39	0,002	0,009	0,887
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CO ₂	1202,96	0,002	0,009	0,896
4.D.1.4	Direct Soil Emissions - Crop Residue	N ₂ O	128,23	0,002	0,008	0,904
1.A.1	Energy Industries - Liquid Fuels	CO ₂	4825,04	0,002	0,008	0,913
1.B.2	Oil and Natural Gas	CH ₄	792,82	0,002	0,008	0,921
2.A.1.	Cement Production	CO ₂	483,04	0,002	0,007	0,928
4.D.3.1	Indirect Emissions - Atmospheric Deposition	N ₂ O	83,79	0,002	0,007	0,934
2.B.1.	Ammonia Production	CO ₂	420,05	0,001	0,006	0,940
5.C	Grassland, Organic soils	CO ₂	93,48	0,001	0,006	0,946
4.B	Manure Management - Other AWMS	N ₂ O	80,87	0,001	0,006	0,952
4.D.2	Pasture, Range and Paddock Manure	N ₂ O	74,80	0,001	0,005	0,958

1.A.1	Energy Industries - Gaseous Fuels	CO ₂	1960,90	0,001	0,005	0,963
5.A	Biomass Burning	CO ₂	52,00	0,001	0,005	0,967
5.B	Cropland, Fruits	CO ₂	-78,22	0,001	0,004	0,972
1.A.4.	Other Sectors - Solid Fuels	CO ₂	389,65	0,001	0,003	0,975
6.B.2.2	Domestic and Commercial Wastewater - human sewage	CO ₂	40,21	0,001	0,003	0,977
6.C	Waste incineration	N ₂ O	30,46	0,001	0,002	0,979
1.A.4.	Other Sectors - Liquid Fuels	CO ₂	1045,80	0,000	0,002	0,981
1.A.4.	Other Sectors - Liquid Fuels	N ₂ O	48,74	0,000	0,002	0,983
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CO ₂	776,12	0,000	0,001	0,984
2.A.2	Lime Production	CO ₂	131,30	0,000	0,001	0,986
4.B	Manure Management - Swine	CO ₂	56,34	0,000	0,001	0,987
1.A.4.	Other Sectors - Solid Fuels	CH ₄	27,02	0,000	0,001	0,988
1.A.3.B	Road Transport - Liquid Fuels	N ₂ O	26,72	0,000	0,001	0,989
4.B	Manure Management - Dairy Cattle	CO ₂	45,61	0,000	0,001	0,989
1.A.5	Other	CO ₂	43,61	0,000	0,001	0,990
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CO ₂	279,23	0,000	0,001	0,991
1.A.3.B	Road Transport - Liquid Fuels	CH ₄	23,11	0,000	0,001	0,992
4.B	Manure Management -Non-Dairy Cattle	CO ₂	33,00	0,000	0,001	0,992
1.A.1	Energy Industries - Liquid Fuels	N ₂ O	11,75	0,000	0,001	0,993
5.D	Wetlands	CO ₂	-8,80	0,000	0,001	0,994
1.A.3.D.	Navigation - Liquid fuels	CO ₂	21,85	0,000	0,001	0,994
6.B	Domestic and Commercial Wastewater (anaerobic)	CH ₄	8,13	0,000	0,001	0,995
4.A	Enteric Fermentation - Swine	CH ₄	14,33	0,000	0,001	0,995
4.B	Manure Management - Liquid system	N ₂ O	6,87	0,000	0,000	0,996
4.A	Enteric Fermentation - Sheep	CH ₄	23,49	0,000	0,000	0,996
5.A	Biomass Burning	CH ₄	4,76	0,000	0,000	0,997
1.A.4.	Other Sectors - Gaseous Fuels	CO ₂	137,89	0,000	0,000	0,997
1.A.3.C	Railways - Solid Fuels	CO ₂	11,46	0,000	0,000	0,997
1.A.4.	Other Sectors - Solid Fuels	N ₂ O	8,99	0,000	0,000	0,998
1.A.3.C	Railway - Liquid Fuels	CO ₂	143,06	0,000	0,000	0,998
1.A.1	Energy Industries - Solid Fuels	N ₂ O	4,18	0,000	0,000	0,998

1.A.4.	Other Sectors - Biomass	CH4	6,23	0,000	0,000	0,998
4.B	Manure Management - Poultry	CH4	10,71	0,000	0,000	0,998
1.A.1	Energy Industries - Biomass	N2O	3,03	0,000	0,000	0,998
4.F.1	Field Burning of Agricultural Residues - Cereals	CH4	4,98	0,000	0,000	0,998
1.A.4.	Other Sectors - Liquid Fuels	CH4	4,03	0,000	0,000	0,998
1.A.1	Energy Industries - Liquid Fuels	CH4	4,00	0,000	0,000	0,998
1.A.4.	Other Sectors - Biomass	N2O	3,68	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	N2O	1,94	0,000	0,000	0,999
4.A	Enteric Fermentation - Horses	CH4	3,25	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	N2O	1,15	0,000	0,000	0,999
1.A.1	Energy Industries - Gaseous Fuels	N2O	1,11	0,000	0,000	0,999
1.A.1	Energy Industries - Biomass	CH4	1,54	0,000	0,000	0,999
1.A.1	Energy Industries - Solid Fuels	CH4	1,38	0,000	0,000	0,999
6.D	Biological Treatment	N2O	0,66	0,000	0,000	0,999
5.A	Biomass Burning	N2O	0,48	0,000	0,000	0,999
6.D	Biological Treatment	CH4	0,60	0,000	0,000	0,999
4.B	Manure Management - Anaerobic Lagoon	N2O	0,57	0,000	0,000	0,999
5.D	Wetlands	N2O	0,585	0,000	0,000	0,999
1.A.4.	Other Sectors - Gaseous Fuels	N2O	0,78	0,000	0,000	0,999
4.F.1	Field Burning of Agricultural Residues - Cereals	N2O	1,02	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Biomass	N2O	0,31	0,000	0,000	0,999
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	CH4	0,51	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CH4	0,44	0,000	0,000	0,999
1.A.3.C	Railway - Liquid Fuels	N2O	0,36	0,000	0,000	0,999
4.D.1.6	Direct Soil Emissions - Sewage Sludge	N2O	0,20	0,000	0,000	0,999
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	5,69	0,000	0,000	0,999
4.B	Manure Management - Sheep	N2O	0,56	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	N2O	0,16	0,000	0,000	0,999
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	N2O	0,31	0,000	0,000	0,999
4.A	Enteric Fermentation - Fur farming	CH4	0,20	0,000	0,000	0,999
1.A.5	Other	N2O	0,77	0,000	0,000	0,999

1.A.3.C	Railway - Liquid Fuels	CH4	0,20	0,000	0,000	0,999
1.A.4.	Other Sectors - Gaseous Fuels	CH4	0,16	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Biomass	CH4	0,16	0,000	0,000	0,999
4.D.1.3	Direct Soil Emissions - N-fixing Crops	N2O	0,08	0,000	0,000	0,999
4.B	Manure Management - Fur farming	CH4	0,27	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CH4	0,12	0,000	0,000	0,999
4.B	Manure Management - Horses	N2O	0,25	0,000	0,000	0,999
1.A.1	Energy Industries - Gaseous Fuels	CH4	0,08	0,000	0,000	0,999
1.A.3.A	Civil Aviation - Liquid Fuels	CH4	0,06	0,000	0,000	0,999
1.A.3.D.	Navigation - Liquid fuels	N2O	0,06	0,000	0,000	0,999
1.A.3.C	Railways - Solid Fuels	N2O	0,05	0,000	0,000	0,999
4.A	Enteric Fermentation - Goats	CH4	0,09	0,000	0,000	0,999
1.A.3.D.	Navigation - Liquid fuels	CH4	0,03	0,000	0,000	0,999
1.A.3.C	Railways - Solid Fuels	CH4	0,02	0,000	0,000	0,999
1.A.5	Other	CH4	0,05	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CH4	0,01	0,000	0,000	0,999
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	0,01	0,000	0,000	0,999
4.F.2	Field Burning of Agricultural Residues - Pulse	CH4	0,00	0,000	0,000	0,999
4.B	Manure Management - Goats	CH4	0,00	0,000	0,000	0,999
4.F.2	Field Burning of Agricultural Residues - Pulse	N2O	0,00	0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CO2		0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CH4		0,000	0,000	0,999
1.A.2	Manufacturing Industries and Constructions - Other Fuels	N2O		0,000	0,000	0,999
2.A.7.1.	Glass Production	CO2	0,00	0,000	0,000	0,999
2.F.1.1	Domestic Refrigeration	HFCs	0,00	0,000	0,000	0,999
2.F.1.2	Commercial Refrigeration	HFCs	0,00	0,000	0,000	0,999
2.F.1.3	Transport Refrigeration - Refrigerated Vehicles	HFCs	0,00	0,000	0,000	0,999
2.F.1.3	Transport Refrigeration - Reefer Containers	HFCs	0,00	0,000	0,000	0,999
2.F.1.4	Industrial Refrigeration	HFCs	0,00	0,000	0,000	0,999
2.F.1.5	Stationary Air-Conditioning - Heat Pumps	HFCs	0,00	0,000	0,000	0,999
2.F.1.5	Stationary Air-Conditioning - Stationary and Room Air-Conditioning	HFCs	0,00	0,000	0,000	0,999

2.F.1.6	Mobile Air-Conditioning - Passenger Cars	HFCs	0,00	0,000	0,000	0,999
2.F.1.6	Mobile Air-Conditioning - Trucks	HFCs	0,00	0,000	0,000	0,999
2.F.1.6	Mobile Air-Conditioning - Buses	HFCs	0,00	0,000	0,000	0,999
2.F.1.6	Mobile Air-Conditioning - Ships	HFCs	0,00	0,000	0,000	0,999
2.F.1.6	Mobile Air-Conditioning - Railcars	HFCs	0,00	0,000	0,000	0,999
2.F.1.6	Mobile Air-Conditioning - Wheel Tractors and Mobile Machinery	HFCs	0,00	0,000	0,000	0,999
2.F.2	...PU Insulation Panels	HFCs	0,00	0,000	0,000	0,999
2.F.2	...Spray and Injection PU Foam	HFCs	0,00	0,000	0,000	0,999
2.F.2	...PU Integral Skin Foam	HFCs	0,00	0,000	0,000	0,999
2.F.2	...XPS Insulation Foam	HFCs	0,00	0,000	0,000	0,999
2.F.2	...One Component PU Foam	HFCs	0,00	0,000	0,000	0,999
2.F.3	Fire Extinguishers	HFCs	0,00	0,000	0,000	0,999
2.F.4	...Metered Dose Inhalers	HFCs	0,00	0,000	0,000	0,999
2.F.4	...General and Novelty Aerosols	HFCs	0,00	0,000	0,000	0,999
2.F.8	Electrical equipment	SF6	0,00	0,000	0,000	0,999
2.F.9	Sport Shoe soles	PFC	0,00	0,000	0,000	0,999
2.F.9	Other Electrical Equipment	SF6	0,00	0,000	0,000	0,999
5.B	Cropland, Liming	CO2	59,84	0,000	0,000	0,999
5.C	Grassland, Mineral soils	CO2	0,00	0,000	0,000	0,999

Table 3. Tier 2 level assessment year 2008 excluding LULUCF

A	B	C	D	E	F	G
	IPCC Source Category	Gas	Emissions 2008	Tier 2 level assessment	Normalised Tier 2 level assessment	Cumulative total of column F
1.A.1	Energy Industries - Solid Fuels	CO ₂	11253,54	0,060	0,284	0,284
4.D.3.2	Indirect Emissions - Nitrogen Leaching and Run-off	N ₂ O	210,55	0,043	0,204	0,488
6.A	Solid Waste Disposal on Land	CH ₄	514,14	0,016	0,076	0,564
4.D.1.1	Direct Soil Emissions - Synthetic Fertilizers	N ₂ O	194,31	0,008	0,036	0,600
4.A	Enteric Fermentation - Dairy Cattle	CH ₄	279,39	0,007	0,033	0,634
4.D.1.5	Direct Soil Emissions - Cultivation of Histosols	N ₂ O	160,97	0,006	0,030	0,664
1.B.2	Oil and Natural Gas	CH ₄	497,86	0,006	0,030	0,693
1.A.4.	Other Sectors - Liquid Fuels	CO ₂	242,44	0,006	0,028	0,722
1.A.4.	Other Sectors - Gaseous Fuels	CO ₂	193,20	0,005	0,023	0,744
4.B	Manure Management - Solis Storage and Dry Lot	N ₂ O	88,27	0,005	0,021	0,766
4.D.1.2	Direct Soil Emissions - Animal Manure Applied to Soils	N ₂ O	103,15	0,004	0,020	0,786
2.A.1.	Cement Production	CO ₂	602,72	0,004	0,017	0,803
4.A	Enteric Fermentation - Non-Dairy Cattle	CH ₄	140,53	0,004	0,017	0,820
4.D.1.4	Direct Soil Emissions - Crop Residue	N ₂ O	71,83	0,003	0,016	0,836
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CO ₂	601,87	0,003	0,015	0,851
6.D	Biological Treatment	N ₂ O	63,77	0,003	0,015	0,866
6.D	Biological Treatment	CH ₄	57,60	0,003	0,014	0,879
2.B.1.	Ammonia Production	CO ₂	270,69	0,003	0,013	0,892
1.A.3.B	Road Transport - Liquid Fuels	CO ₂	2139,53	0,003	0,012	0,905
4.D.3.1	Indirect Emissions - Atmospheric Deposition	N ₂ O	38,65	0,002	0,010	0,915
1.A.1	Energy Industries - Gaseous Fuels	CO ₂	1082,69	0,002	0,010	0,925
6.B.2.2	Domestic and Commercial Wastewater - human sewage	CO ₂	38,54	0,002	0,009	0,934
4.D.2	Pasture, Range and Paddock Manure	N ₂ O	36,04	0,002	0,009	0,943
4.B	Manure Management - Other AWMS	N ₂ O	30,85	0,002	0,007	0,950
1.A.4.	Other Sectors - Solid Fuels	CO ₂	46,92	0,001	0,005	0,956

1.A.2	Manufacturing Industries and Constructions - Other Fuels	CO2	41,95	0,001	0,005	0,939
1.A.5	Other	CO2	36,14	0,001	0,004	0,943
1.A.3.B	Road Transport - Liquid Fuels	N2O	24,82	0,000	0,002	0,945
1.A.1	Energy Industries - Biomass	N2O	12,07	0,000	0,002	0,947
1.A.4.	Other Sectors - Liquid Fuels	N2O	17,57	0,000	0,002	0,950
1.A.1	Energy Industries - Liquid Fuels	CO2	355,29	0,000	0,002	0,952
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CO2	226,38	0,000	0,002	0,954
1.A.4.	Other Sectors - Biomass	CH4	17,19	0,000	0,002	0,956
2.F.1.2	Commercial Refrigeration	HFCs	34,80	0,000	0,002	0,957
1.A.1	Energy Industries - Solid Fuels	N2O	10,07	0,000	0,002	0,959
4.B	Manure Management - Swine	N2O	24,25	0,000	0,002	0,961
2.F.1.4	Industrial Refrigeration	HFCs	21,62	0,000	0,002	0,962
1.A.3.D.	Navigation - Liquid fuels	CO2	59,83	0,000	0,002	0,964
4.B	Manure Management - Dairy Cattle	CO2	21,70	0,000	0,001	0,965
1.A.4.	Other Sectors - Biomass	N2O	10,15	0,000	0,001	0,966
4.A	Enteric Fermentation - Sheep	CH4	13,14	0,000	0,001	0,967
1.A.3.C	Railway - Liquid Fuels	CO2	82,20	0,000	0,001	0,968
4.A	Enteric Fermentation - Swine	CH4	6,17	0,000	0,001	0,969
2.A.2	Lime Production	CO2	25,34	0,000	0,001	0,969
1.A.1	Energy Industries - Biomass	CH4	6,13	0,000	0,001	0,970
2.F.1.5	Stationary Air-Conditioning - Stationary and Room Air-Conditioning	HFCs	12,69	0,000	0,001	0,971
1.A.3.B	Road Transport - Liquid Fuels	CH4	7,18	0,000	0,001	0,971
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CO2	111,66	0,000	0,001	0,972
4.B	Manure Management - Liquid system	N2O	2,57	0,000	0,001	0,973
4.B	Manure Management -Non-Dairy Cattle	CH4	9,81	0,000	0,001	0,973
2.F.1.6	Mobile Air-Conditioning - Passenger Cars	HFCs	23,55	0,000	0,001	0,974
4.D.1.6	Direct Soil Emissions - Sewage Sludge	N2O	2,50	0,000	0,000	0,974
4.F.1	Field Burning of Agricultural Residues - Cereals	CH4	4,43	0,000	0,000	0,975
2.F.1.3	Transport Refrigeration - Refrigerated Vehicles	HFCs	14,23	0,000	0,000	0,975
2.A.7.1.	Glass Production	CO2	8,66	0,000	0,000	0,975
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	N2O	1,59	0,000	0,000	0,976

4.D.1.3	Direct Soil Emissions - N-fixing Crops	N2O	0,87	0,000	0,000	0,976
6.B	Domestic and Commercial Wastewater (anaerobic)	CH4	0,77	0,000	0,000	0,976
2.F.2	...One Component PU Foam	HFCs	5,03	0,000	0,000	0,976
2.F.1.6	Mobile Air-Conditioning - Wheel Tractors and Mobile Machinery	HFCs	4,13	0,000	0,000	0,976
1.A.1	Energy Industries - Solid Fuels	CH4	1,44	0,000	0,000	0,977
1.A.1	Energy Industries - Liquid Fuels	N2O	0,88	0,000	0,000	0,977
4.B	Manure Management - Poultry	N2O	2,88	0,000	0,000	0,977
1.A.4.	Other Sectors - Gaseous Fuels	N2O	1,09	0,000	0,000	0,977
4.A	Enteric Fermentation - Horses	CH4	1,97	0,000	0,000	0,977
1.A.1	Energy Industries - Gaseous Fuels	N2O	0,61	0,000	0,000	0,977
2.F.1.6	Mobile Air-Conditioning - Trucks	HFCs	4,34	0,000	0,000	0,977
1.A.2	Manufacturing Industries and Constructions - Biomass	N2O	0,50	0,000	0,000	0,977
1.A.4.	Other Sectors - Solid Fuels	N2O	0,60	0,000	0,000	0,977
1.A.5	Other	N2O	0,60	0,000	0,000	0,978
4.F.1	Field Burning of Agricultural Residues - Cereals	N2O	0,79	0,000	0,000	0,978
2.F.4	...Metered Dose Inhalers	HFCs	2,57	0,000	0,000	0,978
2.F.1.6	Mobile Air-Conditioning - Buses	HFCs	2,01	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	N2O	0,26	0,000	0,000	0,978
1.A.4.	Other Sectors - Solid Fuels	CH4	1,73	0,000	0,000	0,978
4.B	Manure Management - Anaerobic Lagoon	N2O	0,17	0,000	0,000	0,978
2.F.1.6	Mobile Air-Conditioning - Ships	HFCs	3,13	0,000	0,000	0,978
2.F.1.5	Stationary Air-Conditioning - Heat Pumps	HFCs	1,50	0,000	0,000	0,978
1.A.1	Energy Industries - Liquid Fuels	CH4	0,30	0,000	0,000	0,978
2.F.3	Fire Extinguishers	HFCs	0,99	0,000	0,000	0,978
2.F.8	Electrical equipment	SF6	1,30	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Biomass	CH4	0,25	0,000	0,000	0,978
1.A.3.C	Railway - Liquid Fuels	N2O	0,21	0,000	0,000	0,978
4.A	Enteric Fermentation - Goats	CH4	0,38	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	N2O	0,13	0,000	0,000	0,978
2.F.1.3	Transport Refrigeration - Reefer Containers	HFCs	0,82	0,000	0,000	0,978
1.A.3.D.	Navigation - Liquid fuels	N2O	0,15	0,000	0,000	0,978

4.B	Manure Management - Sheep	SF6	0,31	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CH4	0,13	0,000	0,000	0,978
4.A	Enteric Fermentation - Fur farming	CH4	0,11	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Other Fuels	N2O	0,10	0,000	0,000	0,978
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	2,01	0,000	0,000	0,978
1.A.3.C	Railway - Liquid Fuels	CH4	0,12	0,000	0,000	0,978
2.F.1.1	Domestic Refrigeration	HFCs	0,33	0,000	0,000	0,978
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	CH4	0,09	0,000	0,000	0,978
4.B	Manure Management - Fur farming	CH4	0,15	0,000	0,000	0,978
1.A.3.D.	Navigation - Liquid fuels	CH4	0,09	0,000	0,000	0,978
4.B	Manure Management - Horses	N2O	0,15	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CH4	0,06	0,000	0,000	0,978
1.A.4.	Other Sectors - Liquid Fuels	CH4	0,89	0,000	0,000	0,978
1.A.1	Energy Industries - Gaseous Fuels	CH4	0,04	0,000	0,000	0,978
1.A.5	Other	CH4	0,04	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CH4	0,04	0,000	0,000	0,978
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	N2O	0,05	0,000	0,000	0,978
2.F.2	...XPS Insulation Foam	HFCs	0,07	0,000	0,000	0,978
2.F.9	Other Electrical Equipment	SF6	0,05	0,000	0,000	0,978
2.F.2	...PU Insulation Panels	HFCs	0,10	0,000	0,000	0,978
4.F.2	Field Burning of Agricultural Residues - Pulse	CH4	0,02	0,000	0,000	0,978
2.F.2	...Spray and Injection PU Foam	HFCs	0,07	0,000	0,000	0,978
1.A.3.A	Civil Aviation -Liquid Fuels	CH4	0,02	0,000	0,000	0,978
1.A.4.	Other Sectors - Gaseous Fuels	CH4	0,22	0,000	0,000	0,978
2.F.4	...General and Novelty Aerosols	HFCs	0,06	0,000	0,000	0,978
4.F.2	Field Burning of Agricultural Residues - Pulse	N2O	0,01	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CH4	0,01	0,000	0,000	0,978
2.F.9	Sport Shoe soles	PFC	0,04	0,000	0,000	0,978
4.B	Manure Management - Goats	HFCs	0,01	0,000	0,000	0,978
2.F.2	...PU Integral Skin Foam	HFCs	0,03	0,000	0,000	0,978
2.F.1.6	Mobile Air-Conditioning - Railcars	HFCs	0,00	0,000	0,000	0,978

1.A.3.A	Civil Aviation -Liquid Fuels		CO2	0,01	0,000	0,000	0,978
1.A.3.C	Railways - Solid Fuels		CO2	0,00	0,000	0,000	0,978
1.A.3.C	Railways - Solid Fuels		CH4	0,00	0,000	0,000	0,978
1.A.3.C	Railways - Solid Fuels		N2O	0,00	0,000	0,000	0,978
6.C	Waste incineration		N2O	0,00	0,000	0,000	0,978

Table 4. Tier 2 level assessment year 2008 including LULUCF

A	B	C	D	E	F	G
	IPCC Source Category	Gas	Emissions 2008	Tier 2 level assessment	Normalised Tier 2 level assessment	Cumulative total of column F
5.A	Carbon stock change (removals)	CO2	-14111,64	0,090	0,306	0,306
5.A	Carbon stock change (emissions)	CO2	5117,46	0,047	0,161	0,467
5.C	Grassland, Mineral soils	CO2	-1670,32	0,038	0,128	0,595
1.A.1	Energy Industries - Solid Fuels	CO2	11253,54	0,029	0,098	0,693
4.D.3.2	Indirect Emissions - Nitrogen Leaching and Run-off	N2O	210,55	0,021	0,070	0,763
5.B	Cropland, Organic soils	CO2	489,77	0,010	0,035	0,799
6.A	Solid Waste Disposal on Land	CH4	514,14	0,008	0,026	0,825
4.D.1.1	Direct Soil Emissions - Synthetic Fertilizers	N2O	194,31	0,004	0,013	0,837
5.A	Organic soils	CO2	292,93	0,003	0,012	0,849
4.A	Enteric Fermentation - Dairy Cattle	CH4	279,39	0,003	0,011	0,860
4.D.1.5	Direct Soil Emissions - Cultivation of Histosols	N2O	160,97	0,003	0,010	0,871
1.B.2	Oil and Natural Gas	CH4	497,86	0,003	0,010	0,881
1.A.4.	Other Sectors - Liquid Fuels	CO2	242,44	0,003	0,010	0,891
5.C	Grassland, Organic soils	CO2	109,53	0,002	0,008	0,899
1.A.4.	Other Sectors - Gaseous Fuels	CO2	193,20	0,002	0,008	0,906
4.B	Manure Management - Solis Storage and Dry Lot	N2O	88,27	0,002	0,007	0,914
4.D.1.2	Direct Soil Emissions - Animal Manure Applied to Soils	N2O	103,15	0,002	0,007	0,921
2.A.1.	Cement Production	CO2	602,72	0,002	0,006	0,927
4.A	Enteric Fermentation - Non-Dairy Cattle	CH4	140,53	0,002	0,006	0,933
4.D.1.4	Direct Soil Emissions - Crop Residue	N2O	71,83	0,002	0,005	0,938
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CO2	601,87	0,002	0,005	0,943
6.D	Biological Treatment	N2O	63,77	0,002	0,005	0,948
6.D	Biological Treatment	CH4	57,60	0,001	0,005	0,953
2.B.1.	Ammonia Production	CO2	270,69	0,001	0,004	0,957
1.A.3.B	Road Transport - Liquid Fuels	CO2	2139,53	0,001	0,004	0,962

4.D.3.1	Indirect Emissions - Atmospheric Deposition	N2O	38,65	0,001	0,004	0,952
1.A.1	Energy Industries - Gaseous Fuels	CO ₂	1082,69	0,001	0,003	0,955
6.B.2.2	Domestic and Commercial Wastewater - human sewage	CO ₂	38,54	0,001	0,003	0,958
4.D.2	Pasture, Range and Paddock Manure	N2O	36,04	0,001	0,003	0,961
4.B	Manure Management - Other AWMS	N2O	30,85	0,001	0,003	0,964
5.B	Cropland, Fruits	CO ₂	35,90	0,001	0,002	0,966
1.A.4.	Other Sectors - Solid Fuels	CO ₂	46,92	0,001	0,002	0,968
5.A	Biomass Burning	CO ₂	17,90	0,001	0,002	0,970
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CO ₂	41,95	0,001	0,002	0,972
1.A.5	Other	CO ₂	36,14	0,000	0,001	0,973
5.D	Wetlands	CO ₂	-14,87	0,000	0,001	0,974
1.A.3.B	Road Transport - Liquid Fuels	N2O	24,82	0,000	0,001	0,975
1.A.1	Energy Industries - Biomass	N2O	12,07	0,000	0,001	0,976
1.A.4.	Other Sectors - Liquid Fuels	N2O	17,57	0,000	0,001	0,976
1.A.1	Energy Industries - Liquid Fuels	CO ₂	355,29	0,000	0,001	0,977
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CO ₂	226,38	0,000	0,001	0,978
1.A.4.	Other Sectors - Biomass	CH ₄	17,19	0,000	0,001	0,979
2.F.1.2	Commercial Refrigeration	HFCs	34,80	0,000	0,001	0,979
1.A.1	Energy Industries - Solid Fuels	N2O	10,07	0,000	0,001	0,980
4.B	Manure Management - Swine	N2O	24,25	0,000	0,001	0,980
2.F.1.4	Industrial Refrigeration	HFCs	21,62	0,000	0,001	0,981
1.A.3.D.	Navigation - Liquid fuels	CO ₂	59,83	0,000	0,001	0,981
4.B	Manure Management - Dairy Cattle	CO ₂	21,70	0,000	0,000	0,982
1.A.4.	Other Sectors - Biomass	N2O	10,15	0,000	0,000	0,982
4.A	Enteric Fermentation - Sheep	CH ₄	13,14	0,000	0,000	0,982
1.A.3.C	Railway - Liquid Fuels	CO ₂	82,20	0,000	0,000	0,983
4.A	Enteric Fermentation - Swine	CH ₄	6,17	0,000	0,000	0,983
2.A.2	Lime Production	CO ₂	25,34	0,000	0,000	0,983
1.A.1	Energy Industries - Biomass	CH ₄	6,13	0,000	0,000	0,983
2.F.1.5	Stationary Air-Conditioning - Stationary and Room Air-Conditioning	HFCs	12,69	0,000	0,000	0,984

1.A.3.B	Road Transport - Liquid Fuels	CH4	7,18	0,000	0,000	0,984
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CO2	111,66	0,000	0,000	0,984
4.B	Manure Management - Liquid system	N2O	2,57	0,000	0,000	0,984
4.B	Manure Management -Non-Dairy Cattle	CH4	9,81	0,000	0,000	0,985
2.F.1.6	Mobile Air-Conditioning - Passenger Cars	HFCs	23,55	0,000	0,000	0,985
5.A	Biomass Burning	CH4	1,64	0,000	0,000	0,985
4.D.1.6	Direct Soil Emissions - Sewage Sludge	N2O	2,50	0,000	0,000	0,985
4.F.1	Field Burning of Agricultural Residues - Cereals	CH4	4,43	0,000	0,000	0,985
2.F.1.3	Transport Refrigeration - Refrigerated Vehicles	HFCs	14,23	0,000	0,000	0,985
2.A.7.1.	Glass Production	CO2	8,66	0,000	0,000	0,985
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	N2O	1,59	0,000	0,000	0,986
5.D	Wetlands	N2O	0,988	0,000	0,000	0,986
4.D.1.3	Direct Soil Emissions - N-fixing Crops	N2O	0,87	0,000	0,000	0,986
6.B	Domestic and Commercial Wastewater (anaerobic)	CH4	0,77	0,000	0,000	0,986
2.F.2	...One Component PU Foam	HFCs	5,03	0,000	0,000	0,986
2.F.1.6	Mobile Air-Conditioning - Wheel Tractors and Mobile Machinery	HFCs	4,13	0,000	0,000	0,986
1.A.1	Energy Industries - Solid Fuels	CH4	1,44	0,000	0,000	0,986
1.A.1	Energy Industries - Liquid Fuels	N2O	0,88	0,000	0,000	0,986
4.B	Manure Management - Poultry	N2O	2,88	0,000	0,000	0,986
1.A.4.	Other Sectors - Gaseous Fuels	N2O	1,09	0,000	0,000	0,986
4.A	Enteric Fermentation - Horses	N2O	1,97	0,000	0,000	0,986
1.A.1	Energy Industries - Gaseous Fuels	N2O	0,61	0,000	0,000	0,986
2.F.1.6	Mobile Air-Conditioning - Trucks	HFCs	4,34	0,000	0,000	0,986
1.A.2	Manufacturing Industries and Constructions - Biomass	N2O	0,50	0,000	0,000	0,986
1.A.4.	Other Sectors - Solid Fuels	N2O	0,60	0,000	0,000	0,986
1.A.5	Other	N2O	0,60	0,000	0,000	0,986
4.F.1	Field Burning of Agricultural Residues - Cereals	N2O	0,79	0,000	0,000	0,986
2.F.4	...Metered Dose Inhalers	HFCs	2,57	0,000	0,000	0,986
5.A	Biomass Burning	N2O	0,17	0,000	0,000	0,986
2.F.1.6	Mobile Air-Conditioning - Buses	HFCs	2,01	0,000	0,000	0,986
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	N2O	0,26	0,000	0,000	0,986

1.A.4.	Other Sectors - Solid Fuels	CH4	1,73	0,000	0,000	0,986
4.B	Manure Management - Anaerobic Lagoon	N2O	0,17	0,000	0,000	0,986
2.F.1.6	Mobile Air-Conditioning - Ships	HFCs	3,13	0,000	0,000	0,986
2.F.1.5	Stationary Air-Conditioning - Heat Pumps	HFCs	1,50	0,000	0,000	0,986
1.A.1	Energy Industries - Liquid Fuels	CH4	0,30	0,000	0,000	0,986
2.F.3	Fire Extinguishers	HFCs	0,99	0,000	0,000	0,986
2.F.8	Electrical equipment	SF6	1,30	0,000	0,000	0,986
1.A.2	Manufacturing Industries and Constructions - Biomass	CH4	0,25	0,000	0,000	0,987
1.A.3.C	Railway - Liquid Fuels	N2O	0,21	0,000	0,000	0,987
4.A	Enteric Fermentation - Goats	CH4	0,38	0,000	0,000	0,987
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	N2O	0,13	0,000	0,000	0,987
2.F.1.3	Transport Refrigeration - Reefer Containers	HFCs	0,82	0,000	0,000	0,987
1.A.3.D.	Navigation - Liquid fuels	N2O	0,15	0,000	0,000	0,987
4.B	Manure Management - Sheep	SF6	0,31	0,000	0,000	0,987
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CH4	0,13	0,000	0,000	0,987
4.A	Enteric Fermentation - Fur farming	CH4	0,11	0,000	0,000	0,987
1.A.2	Manufacturing Industries and Constructions - Other Fuels	N2O	0,10	0,000	0,000	0,987
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	2,01	0,000	0,000	0,987
1.A.3.C	Railway - Liquid Fuels	CH4	0,12	0,000	0,000	0,987
2.F.1.1	Domestic Refrigeration	HFCs	0,33	0,000	0,000	0,987
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	CH4	0,09	0,000	0,000	0,987
4.B	Manure Management - Fur farming	CH4	0,15	0,000	0,000	0,987
1.A.3.D.	Navigation - Liquid fuels	CH4	0,09	0,000	0,000	0,987
4.B	Manure Management - Horses	N2O	0,15	0,000	0,000	0,987
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CH4	0,06	0,000	0,000	0,987
1.A.4.	Other Sectors - Liquid Fuels	CH4	0,89	0,000	0,000	0,987
1.A.1	Energy Industries - Gaseous Fuels	CH4	0,04	0,000	0,000	0,987
1.A.5	Other	CH4	0,04	0,000	0,000	0,987
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CH4	0,04	0,000	0,000	0,987
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	N2O	0,05	0,000	0,000	0,987
2.F.2	...XPS Insulation Foam	HFCs	0,07	0,000	0,000	0,987

2.F.9	Other Electrical Equipment	SF6	0,05	0,000	0,000	0,987
2.F.2	...PU Insulation Panels	HFCs	0,10	0,000	0,000	0,987
4.F.2	Field Burning of Agricultural Residues - Pulse	CH4	0,02	0,000	0,000	0,987
2.F.2	...Spray and Injection PU Foam	HFCs	0,07	0,000	0,000	0,987
1.A.3.A	Civil Aviation -Liquid Fuels	CH4	0,02	0,000	0,000	0,987
1.A.4.	Other Sectors - Gaseous Fuels	CH4	0,22	0,000	0,000	0,987
2.F.4	...General and Novelty Aerosols	HFCs	0,06	0,000	0,000	0,987
4.F.2	Field Burning of Agricultural Residues - Pulse	N2O	0,01	0,000	0,000	0,987
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CH4	0,01	0,000	0,000	0,987
2.F.9	Sport Shoe soles	PFC	0,04	0,000	0,000	0,987
4.B	Manure Management - Goats	HFCs	0,01	0,000	0,000	0,987
2.F.2	...PU Integral Skin Foam	HFCs	0,03	0,000	0,000	0,987
2.F.1.6	Mobile Air-Conditioning - Railcars	HFCs	0,00	0,000	0,000	0,987
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	0,01	0,000	0,000	0,987
1.A.3.C	Railways - Solid Fuels	CO2	0,00	0,000	0,000	0,987
1.A.3.C	Railways - Solid Fuels	CH4	0,00	0,000	0,000	0,987
1.A.3.C	Railways - Solid Fuels	N2O	0,00	0,000	0,000	0,987
6.C	Waste incineration	N2O	0,00	0,000	0,000	0,987
5.B	Cropland, Mineral soils	CO2	0,00	0,000	0,000	0,987
5.B	Cropland, Liming	CO2	0,73	0,000	0,000	0,987

Table 5. Tier 2 trend assessment excluding LULUCF

A	B	C	D	E	F	G	H
	IPCC Source Category	Gas	Emissions 1990	Emissions 2008	Tier 2 trend assessment	Normalised Tier 2 trend assessment	Cumulative total of column G
1.A.4.	Other Sectors - Liquid Fuels	CO2	1045,80	242,44	0,014	0,125	0,125
6.A	Solid Waste Disposal on Land	CH4	599,93	514,14	0,014	0,123	0,248
1.A.4.	Other Sectors - Solid Fuels	CO2	389,65	46,92	0,007	0,066	0,314
6.D	Biological Treatment	N2O	0,66	63,77	0,006	0,057	0,371
4.D.1.5	Direct Soil Emissions - Cultivation of Histosols	N2O	166,39	160,97	0,006	0,056	0,428
1.A.4.	Other Sectors - Gaseous Fuels	CO2	137,89	193,20	0,006	0,056	0,484
6.D	Biological Treatment	CH4	0,60	57,60	0,006	0,052	0,536
1.A.1	Energy Industries - Liquid Fuels	CO2	4825,04	355,29	0,005	0,045	0,581
4.A	Enteric Fermentation - Non-Dairy Cattle	CH4	472,67	140,53	0,005	0,043	0,624
2.A.1.	Cement Production	CO2	483,04	602,72	0,004	0,040	0,664
1.A.1	Energy Industries - Solid Fuels	CO2	21990,04	11253,54	0,004	0,034	0,698
1.B.2	Oil and Natural Gas	CH4	792,82	497,86	0,003	0,024	0,722
1.A.3.B	Road Transport - Liquid Fuels	CO2	2268,00	2139,53	0,003	0,023	0,744
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CO2		41,95	0,002	0,019	0,763
4.D.1.2	Direct Soil Emissions - Animal Manure Applied to Soils	N2O	254,88	103,15	0,002	0,018	0,781
4.B	Manure Management - Solis Storage and Dry Lot	N2O	215,20	88,27	0,002	0,017	0,798
6.B.2.2	Domestic and Commercial Wastewater - human sewage	CH4	40,21	38,54	0,002	0,017	0,815
4.D.3.2	Indirect Emissions - Nitrogen Leaching and Run-off	N2O	432,15	210,55	0,002	0,014	0,829
4.D.1.1	Direct Soil Emissions - Sunthetic Fertilizers	N2O	353,65	194,31	0,002	0,014	0,843
6.C	Waste incineration	N2O	30,46	0,00	0,002	0,014	0,856
2.B.1.	Ammonia Production	CO2	420,05	270,69	0,001	0,012	0,868
4.B	Manure Management - Other AWMS	N2O	80,87	30,85	0,001	0,009	0,876
1.A.1	Energy Industries - Biomass	N2O	3,03	12,07	0,001	0,007	0,883
2.F.1.2	Commercial Refrigeration	HFCs	0,00	34,80	0,001	0,007	0,890
4.D.1.4	Direct Soil Emissions - Crop Residue	N2O	128,23	71,83	0,001	0,007	0,897

1.A.5	Other	CO2	43,61	36,14	0,001	0,007	0,883
1.A.4.	Other Sectors - Biomass	CH4	6,23	17,19	0,001	0,006	0,889
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CO2	776,12	111,66	0,001	0,006	0,895
2.F.1.4	Industrial Refrigeration	HFCs	0,00	21,62	0,001	0,006	0,901
4.A	Enteric Fermentation - Dairy Cattle	CH4	587,25	279,39	0,001	0,005	0,907
1.A.1	Energy Industries - Solid Fuels	N2O	4,18	10,07	0,001	0,005	0,912
1.A.3.D.	Navigation - Liquid fuels	CO2	21,85	59,83	0,001	0,005	0,917
2.A.2	Lime Production	CO2	131,30	25,34	0,000	0,004	0,921
1.A.3.B	Road Transport - Liquid Fuels	N2O	26,72	24,82	0,000	0,004	0,925
1.A.1	Energy Industries - Gaseous Fuels	CO2	1960,90	1082,69	0,000	0,004	0,929
1.A.4.	Other Sectors - Biomass	N2O	3,68	10,15	0,000	0,004	0,933
1.A.1	Energy Industries - Liquid Fuels	N2O	11,75	0,88	0,000	0,003	0,936
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CO2	279,23	226,38	0,000	0,003	0,939
4.D.3.1	Indirect Emissions - Atmospheric Deposition	N2O	83,79	38,65	0,000	0,003	0,942
1.A.4.	Other Sectors - Liquid Fuels	N2O	48,74	17,57	0,000	0,003	0,945
6.B	Domestic and Commercial Wastewater (anaerobic)	CH4	8,13	0,77	0,000	0,003	0,948
2.F.1.5	Stationary Air-Conditioning - Stationary and Room Air-Conditioning	HFCs	0,00	12,69	0,000	0,003	0,951
1.A.1	Energy Industries - Biomass	CH4	1,54	6,13	0,000	0,002	0,953
2.F.1.6	Mobile Air-Conditioning - Passenger Cars	HFCs	0,00	23,55	0,000	0,002	0,955
4.D.1.6	Direct Soil Emissions - Sewage Sludge	N2O	0,20	2,50	0,000	0,002	0,957
1.A.4.	Other Sectors - Solid Fuels	N2O	8,99	0,60	0,000	0,002	0,959
4.B	Manure Management -Non-Dairy Cattle	N2O	33,00	9,81	0,000	0,002	0,960
1.A.3.B	Road Transport - Liquid Fuels	CH4	23,11	7,18	0,000	0,002	0,962
2.F.1.3	Transport Refrigeration - Refrigerated Vehicles	HFCs	0,00	14,23	0,000	0,001	0,963
1.A.4.	Other Sectors - Solid Fuels	CH4	27,02	1,73	0,000	0,001	0,964
2.A.7.1.	Glass Production	CO2	0,00	8,66	0,000	0,001	0,966
4.D.2	Pasture, Range and Paddock Manure	N2O	74,80	36,04	0,000	0,001	0,966
4.B	Manure Management - Swine	N2O	56,34	24,25	0,000	0,001	0,967
4.F.1	Field Burning of Agricultural Residues - Cereals	CH4	4,98	4,43	0,000	0,001	0,968
4.B	Manure Management - Liquid system	N2O	6,87	2,57	0,000	0,001	0,969
1.A.1	Energy Industries - Liquid Fuels	CH4	4,00	0,30	0,000	0,001	0,970

4.D.1.3	Direct Soil Emissions - N-fixing Crops	N2O	0,08	0,87	0,000	0,001	0,970
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	N2O	1,15	1,59	0,000	0,001	0,971
2.F.2	...One Component PU Foam	HFCs	0,00	5,03	0,000	0,001	0,972
2.F.1.6	Mobile Air-Conditioning - Wheel Tractors and Mobile Machinery	HFCs	0,00	4,13	0,000	0,001	0,972
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CO2	1202,96	601,87	0,000	0,001	0,973
4.B	Manure Management - Poultry	CO2	10,71	2,88	0,000	0,000	0,973
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	N2O	1,94	0,26	0,000	0,000	0,974
4.A	Enteric Fermentation - Swine	CH4	14,33	6,17	0,000	0,000	0,974
1.A.3.C	Railway - Liquid Fuels	CO2	143,06	82,20	0,000	0,000	0,975
2.F.1.6	Mobile Air-Conditioning - Trucks	HFCs	0,00	4,34	0,000	0,000	0,975
4.A	Enteric Fermentation - Sheep	CH4	23,49	13,14	0,000	0,000	0,975
1.A.1	Energy Industries - Solid Fuels	CH4	1,38	1,44	0,000	0,000	0,976
1.A.4.	Other Sectors - Gaseous Fuels	N2O	0,78	1,09	0,000	0,000	0,976
1.A.2	Manufacturing Industries and Constructions - Biomass	N2O	0,31	0,50	0,000	0,000	0,976
2.F.4	...Metered Dose Inhalers	HFCs	0,00	2,57	0,000	0,000	0,977
4.B	Manure Management - Dairy Cattle	CO2	45,61	21,70	0,000	0,000	0,977
2.F.1.6	Mobile Air-Conditioning - Buses	HFCs	0,00	2,01	0,000	0,000	0,977
2.F.1.6	Mobile Air-Conditioning - Ships	HFCs	0,00	3,13	0,000	0,000	0,977
2.F.1.5	Stationary Air-Conditioning - Heat Pumps	HFCs	0,00	1,50	0,000	0,000	0,977
1.A.3.C	Railways - Solid Fuels	CO2	11,46	0,00	0,000	0,000	0,977
2.F.3	Fire Extinguishers	HFCs	0,00	0,99	0,000	0,000	0,978
2.F.8	Electrical equipment	SF6	0,00	1,30	0,000	0,000	0,978
4.B	Manure Management - Anaerobic Lagoon	N2O	0,57	0,17	0,000	0,000	0,978
1.A.5	Other	N2O	0,77	0,60	0,000	0,000	0,978
4.F.1	Field Burning of Agricultural Residues - Cereals	N2O	1,02	0,79	0,000	0,000	0,978
4.A	Enteric Fermentation - Horses	CH4	3,25	1,97	0,000	0,000	0,978
4.A	Enteric Fermentation - Goats	CH4	0,09	0,38	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Biomass	CH4	0,16	0,25	0,000	0,000	0,978
2.F.1.3	Transport Refrigeration - Reefer Containers	HFCs	0,00	0,82	0,000	0,000	0,978
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CH4	0,44	0,06	0,000	0,000	0,978
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	CH4	0,51	0,09	0,000	0,000	0,978

1.A.2	Manufacturing Industries and Constructions - Other Fuels	N2O		0,10	0,000	0,000	0,000	0,978
1.A.1	Energy Industries - Gaseous Fuels	N2O	1,11	0,61	0,000	0,000	0,000	0,978
2.F.1.1	Domestic Refrigeration	HFCs	0,00	0,33	0,000	0,000	0,000	0,979
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	N2O	0,16	0,13	0,000	0,000	0,000	0,979
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CH4	0,12	0,13	0,000	0,000	0,000	0,979
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	N2O	0,31	0,05	0,000	0,000	0,000	0,979
1.A.3.D.	Navigation - Liquid fuels	CH4	0,03	0,09	0,000	0,000	0,000	0,979
1.A.4.	Other Sectors - Liquid Fuels	CH4	4,03	0,89	0,000	0,000	0,000	0,979
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	5,69	2,01	0,000	0,000	0,000	0,979
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CH4		0,04	0,000	0,000	0,000	0,979
2.F.2	...XPS Insulation Foam	HFCs	0,00	0,07	0,000	0,000	0,000	0,979
2.F.9	Other Electrical Equipment	SF6	0,00	0,05	0,000	0,000	0,000	0,979
1.A.3.C	Railway - Liquid Fuels	N2O	0,36	0,21	0,000	0,000	0,000	0,979
2.F.2	...PU Insulation Panels	HFCs	0,00	0,10	0,000	0,000	0,000	0,979
1.A.3.D.	Navigation - Liquid fuels	N2O	0,06	0,15	0,000	0,000	0,000	0,979
1.A.3.C	Railways - Solid Fuels	N2O	0,05	0,00	0,000	0,000	0,000	0,979
4.F.2	Field Burning of Agricultural Residues - Pulse	CH4	0,00	0,02	0,000	0,000	0,000	0,979
2.F.2	...Spray and Injection PU Foam	HFCs	0,00	0,07	0,000	0,000	0,000	0,979
1.A.5	Other	CH4	0,05	0,04	0,000	0,000	0,000	0,979
4.B	Manure Management - Sheep	N2O	0,56	0,31	0,000	0,000	0,000	0,979
4.A	Enteric Fermentation - Fur farming	CH4	0,20	0,11	0,000	0,000	0,000	0,979
1.A.3.C	Railway - Liquid Fuels	CH4	0,20	0,12	0,000	0,000	0,000	0,979
2.F.4	...General and Novelty Aerosols	HFCs	0,00	0,06	0,000	0,000	0,000	0,979
4.B	Manure Management - Horses	CH4	0,25	0,15	0,000	0,000	0,000	0,979
1.A.4.	Other Sectors - Gaseous Fuels	CH4	0,16	0,22	0,000	0,000	0,000	0,979
1.A.3.C	Railways - Solid Fuels	CH4	0,02	0,00	0,000	0,000	0,000	0,979
4.F.2	Field Burning of Agricultural Residues - Pulse	N2O	0,00	0,01	0,000	0,000	0,000	0,979
4.B	Manure Management - Fur farming	CH4	0,27	0,15	0,000	0,000	0,000	0,979
2.F.9	Sport Shoe soles	PFC	0,00	0,04	0,000	0,000	0,000	0,979
1.A.3.A	Civil Aviation -Liquid Fuels	CH4	0,06	0,02	0,000	0,000	0,000	0,979
1.A.1	Energy Industries - Gaseous Fuels	CH4	0,08	0,04	0,000	0,000	0,000	0,979

4.B	Manure Management - Goats	CH4	0,00	0,01	0,000	0,000	0,979
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CH4	0,01	0,01	0,000	0,000	0,979
2.F.2	...PU Integral Skin Foam	HFCs	0,00	0,03	0,000	0,000	0,979
2.F.1.6	Mobile Air-Conditioning - Railcars	HFCs	0,00	0,00	0,000	0,000	0,979
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	0,01	0,01	0,000	0,000	0,979

Table 6. Tier 2 trend assessment including LULUCF

A	B	C	D	E	F	G	H
	IPCC Source Category	Greenhouse Gas	Emissions 1990	Emissions 2008	Tier 2 trend assessment	Normalised Tier 2 trend assessment	Cumulative total of column G
5.A	Carbon stock change (removals)	CO ₂	-12127,51	-14111,64	0,878	0,321	0,321
5.C	Grassland, Mineral soils	CO ₂	0,00	-1670,32	0,497	0,182	0,504
5.A	Carbon stock change (emissions)	CO ₂	3734,66	5117,46	0,485	0,178	0,681
1.A.1	Energy Industries - Solid Fuels	CO ₂	21990,04	11253,54	0,154	0,056	0,738
4.D.3.2	Indirect Emissions - Nitrogen Leaching and Run-off	N ₂ O	432,15	210,55	0,103	0,038	0,775
5.B	Cropland, Mineral soils	CO ₂	920,96	0,00	0,084	0,031	0,806
5.B	Cropland, Organic soils	CO ₂	763,10	489,77	0,072	0,027	0,832
6.A	Solid Waste Disposal on Land	CH ₄	599,93	514,14	0,065	0,024	0,856
5.A	Organic soils	CO ₂	303,36	292,93	0,031	0,011	0,868
4.D.1.5	Direct Soil Emissions - Cultivation of Histosols	N ₂ O	166,39	160,97	0,028	0,010	0,878
1.A.4.	Other Sectors - Gaseous Fuels	CO ₂	137,89	193,20	0,024	0,009	0,887
5.C	Grassland, Organic soils	CO ₂	93,48	109,53	0,023	0,008	0,895
4.D.1.1	Direct Soil Emissions - Synthetic Fertilizers	N ₂ O	353,65	194,31	0,022	0,008	0,903
1.B.2	Oil and Natural Gas	CH ₄	792,82	497,86	0,020	0,007	0,910
6.D	Biological Treatment	N ₂ O	0,66	63,77	0,020	0,007	0,918
6.D	Biological Treatment	CH ₄	0,60	57,60	0,018	0,007	0,924
2.A.1.	Cement Production	CO ₂	483,04	602,72	0,017	0,006	0,931
4.A	Enteric Fermentation - Dairy Cattle	CH ₄	587,25	279,39	0,016	0,006	0,936
5.B	Cropland, Fruits	CO ₂	-78,22	35,90	0,014	0,005	0,942
1.A.4.	Other Sectors - Liquid Fuels	CO ₂	1045,80	242,44	0,012	0,004	0,946
1.A.4.	Other Sectors - Solid Fuels	CO ₂	389,65	46,92	0,011	0,004	0,950
1.A.3.B	Road Transport - Liquid Fuels	CO ₂	2268,00	2139,53	0,011	0,004	0,954
4.D.1.4	Direct Soil Emissions - Crop Residue	N ₂ O	128,23	71,83	0,010	0,004	0,958
2.B.1.	Ammonia Production	CO ₂	420,05	270,69	0,009	0,003	0,961
1.A.1	Energy Industries - Liquid Fuels	CO ₂	4825,04	355,29	0,009	0,003	0,964

6.B.2.2	Domestic and Commercial Wastewater - human sewage	CH4	40,21	38,54	0,008	0,003	0,957
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CO2	1202,96	601,87	0,008	0,003	0,960
4.B	Manure Management - Solis Storage and Dry Lot	N2O	215,20	88,27	0,007	0,003	0,963
4.D.1.2	Direct Soil Emissions - Animal Manure Applied to Soils	N2O	254,88	103,15	0,007	0,002	0,965
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CO2	41,95	41,95	0,007	0,002	0,968
1.A.1	Energy Industries - Gaseous Fuels	CO2	1960,90	1082,69	0,006	0,002	0,970
4.D.3.1	Indirect Emissions - Atmospheric Deposition	N2O	83,79	38,65	0,005	0,002	0,972
4.D.2	Pasture, Range and Paddock Manure	N2O	74,80	36,04	0,004	0,002	0,973
5.D	Wetlands	CO2	-8,80	-14,87	0,004	0,001	0,974
1.A.5	Other	CO2	43,61	36,14	0,004	0,001	0,976
6.C	Waste incineration	N2O	30,46	0,00	0,003	0,001	0,977
1.A.1	Energy Industries - Biomass	N2O	3,03	12,07	0,003	0,001	0,978
2.F.1.2	Commercial Refrigeration	HFCs	0,00	34,80	0,002	0,001	0,979
1.A.4.	Other Sectors - Biomass	CH4	6,23	17,19	0,002	0,001	0,980
1.A.3.B	Road Transport - Liquid Fuels	N2O	26,72	24,82	0,002	0,001	0,980
1.A.1	Energy Industries - Solid Fuels	N2O	4,18	10,07	0,002	0,001	0,981
2.F.1.4	Industrial Refrigeration	HFCs	0,00	21,62	0,002	0,001	0,982
4.B	Manure Management - Other AWMS	N2O	80,87	30,85	0,002	0,001	0,983
1.A.3.D.	Navigation - Liquid fuels	CO2	21,85	59,83	0,002	0,001	0,983
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CO2	279,23	226,38	0,002	0,001	0,984
1.A.4.	Other Sectors - Biomass	N2O	3,68	10,15	0,001	0,001	0,984
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CO2	776,12	111,66	0,001	0,000	0,985
2.F.1.5	Stationary Air-Conditioning - Stationary and Room Air-Conditioning	HFCs	0,00	12,69	0,001	0,000	0,985
1.A.1	Energy Industries - Biomass	CH4	1,54	6,13	0,001	0,000	0,985
5.A	Biomass Burning	CO2	52,00	17,90	0,001	0,000	0,986
2.F.1.6	Mobile Air-Conditioning - Passenger Cars	HFCs	0,00	23,55	0,001	0,000	0,986
4.B	Manure Management - Dairy Cattle	CO2	45,61	21,70	0,001	0,000	0,986
1.A.1	Energy Industries - Liquid Fuels	N2O	11,75	0,88	0,001	0,000	0,986
4.D.1.6	Direct Soil Emissions - Sewage Sludge	N2O	0,20	2,50	0,001	0,000	0,987
4.B	Manure Management - Swine	HFCs	56,34	24,25	0,001	0,000	0,987
2.A.2	Lime Production	CO2	131,30	25,34	0,001	0,000	0,987

4.A	Enteric Fermentation - Non-Dairy Cattle	CO2	472,67	140,53	0,001	0,000	0,987
6.B	Domestic and Commercial Wastewater (anaerobic)	CH4	8,13	0,77	0,001	0,000	0,987
4.A	Enteric Fermentation - Sheep	CH4	23,49	13,14	0,001	0,000	0,988
1.A.3.C	Railway - Liquid Fuels	CO2	143,06	82,20	0,000	0,000	0,988
2.F.1.3	Transport Refrigeration - Refrigerated Vehicles	HFCs	0,00	14,23	0,000	0,000	0,988
1.A.4.	Other Sectors - Liquid Fuels	N2O	48,74	17,57	0,000	0,000	0,988
4.F.1	Field Burning of Agricultural Residues - Cereals	CH4	4,98	4,43	0,000	0,000	0,988
2.A.7.1.	Glass Production	CO2	0,00	8,66	0,000	0,000	0,988
1.A.4.	Other Sectors - Solid Fuels	N2O	8,99	0,60	0,000	0,000	0,989
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	N2O	1,15	1,59	0,000	0,000	0,989
4.A	Enteric Fermentation - Swine	CH4	14,33	6,17	0,000	0,000	0,989
5.D	Wetlands	N2O	0,585	0,988	0,000	0,000	0,989
4.D.1.3	Direct Soil Emissions - N-fixing Crops	N2O	0,08	0,87	0,000	0,000	0,989
2.F.2	...One Component PU Foam	HFCs	0,00	5,03	0,000	0,000	0,989
2.F.1.6	Mobile Air-Conditioning - Wheel Tractors and Mobile Machinery	HFCs	0,00	4,13	0,000	0,000	0,989
1.A.4.	Other Sectors - Solid Fuels	CH4	27,02	1,73	0,000	0,000	0,989
1.A.1	Energy Industries - Solid Fuels	CH4	1,38	1,44	0,000	0,000	0,989
4.B	Manure Management - Liquid system	N2O	6,87	2,57	0,000	0,000	0,989
1.A.1	Energy Industries - Liquid Fuels	CH4	4,00	0,30	0,000	0,000	0,989
1.A.4.	Other Sectors - Gaseous Fuels	N2O	0,78	1,09	0,000	0,000	0,989
2.F.1.6	Mobile Air-Conditioning - Trucks	HFCs	0,00	4,34	0,000	0,000	0,989
1.A.2	Manufacturing Industries and Constructions - Biomass	N2O	0,31	0,50	0,000	0,000	0,990
4.A	Enteric Fermentation - Horses	CH4	3,25	1,97	0,000	0,000	0,990
2.F.4	...Metered Dose Inhalers	HFCs	0,00	2,57	0,000	0,000	0,990
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	N2O	1,94	0,26	0,000	0,000	0,990
5.A	Biomass Burning	CH4	4,76	1,64	0,000	0,000	0,990
1.A.1	Energy Industries - Gaseous Fuels	N2O	1,11	0,61	0,000	0,000	0,990
2.F.1.6	Mobile Air-Conditioning - Buses	HFCs	0,00	2,01	0,000	0,000	0,990
1.A.5	Other	N2O	0,77	0,60	0,000	0,000	0,990
4.F.1	Field Burning of Agricultural Residues - Cereals	N2O	1,02	0,79	0,000	0,000	0,990
2.F.1.6	Mobile Air-Conditioning - Ships	HFCs	0,00	3,13	0,000	0,000	0,990

2.F.1.5	Stationary Air-Conditioning - Heat Pumps	HFCs	0,00	1,50	0,000	0,000	0,990
2.F.3	Fire Extinguishers	HFCs	0,00	0,99	0,000	0,000	0,990
2.F.8	Electrical equipment	SF6	0,00	1,30	0,000	0,000	0,990
1.A.2	Manufacturing Industries and Constructions - Biomass	CH4	0,16	0,25	0,000	0,000	0,990
4.A	Enteric Fermentation - Goats	CH4	0,09	0,38	0,000	0,000	0,990
1.A.3.C	Railways - Solid Fuels	CO2	11,46	0,00	0,000	0,000	0,990
4.B	Manure Management - Poultry	CO2	10,71	2,88	0,000	0,000	0,990
2.F.1.3	Transport Refrigeration - Reefer Containers	HFCs	0,00	0,82	0,000	0,000	0,990
1.A.3.D.	Navigation - Liquid fuels	N2O	0,06	0,15	0,000	0,000	0,990
4.B	Manure Management -Non-Dairy Cattle	SF6	33,00	9,81	0,000	0,000	0,990
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	N2O	0,16	0,13	0,000	0,000	0,990
1.A.3.B	Road Transport - Liquid Fuels	CH4	23,11	7,18	0,000	0,000	0,990
1.A.2	Manufacturing Industries and Constructions - Other Fuels	N2O		0,10	0,000	0,000	0,990
1.A.3.C	Railway - Liquid Fuels	N2O	0,36	0,21	0,000	0,000	0,990
1.A.2	Manufacturing Industries and Constructions - Solid Fuels	CH4	0,12	0,13	0,000	0,000	0,990
2.F.1.1	Domestic Refrigeration	HFCs	0,00	0,33	0,000	0,000	0,990
1.A.2	Manufacturing Industries and Constructions - Liquid Fuels	CH4	0,44	0,06	0,000	0,000	0,990
4.B	Manure Management - Sheep	N2O	0,56	0,31	0,000	0,000	0,990
1.A.3.D.	Navigation - Liquid fuels	CH4	0,03	0,09	0,000	0,000	0,990
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	CH4	0,51	0,09	0,000	0,000	0,990
4.A	Enteric Fermentation - Fur farming	CH4	0,20	0,11	0,000	0,000	0,990
5.A	Biomass Burning	N2O	0,48	0,17	0,000	0,000	0,990
1.A.3.C	Railway - Liquid Fuels	CH4	0,20	0,12	0,000	0,000	0,990
4.B	Manure Management - Fur farming	CH4	0,27	0,15	0,000	0,000	0,990
1.A.2	Manufacturing Industries and Constructions - Other Fuels	CH4		0,04	0,000	0,000	0,990
4.B	Manure Management - Horses	CH4	0,25	0,15	0,000	0,000	0,990
2.F.2	...XPS Insulation Foam	HFCs	0,00	0,07	0,000	0,000	0,990
4.F.3	Field Burning of Agricultural Residues - Tuber and Root	N2O	0,31	0,05	0,000	0,000	0,990
2.F.9	Other Electrical Equipment	SF6	0,00	0,05	0,000	0,000	0,990
2.F.2	...PU Insulation Panels	HFCs	0,00	0,10	0,000	0,000	0,990
1.A.5	Other	CH4	0,05	0,04	0,000	0,000	0,990

4.F.2	Field Burning of Agricultural Residues - Pulse	CH4	0,00	0,02	0,000	0,000	0,990
2.F.2	...Spray and Injection PU Foam	HFCs	0,00	0,07	0,000	0,000	0,990
1.A.1	Energy Industries - Gaseous Fuels	CH4	0,08	0,04	0,000	0,000	0,990
1.A.4.	Other Sectors - Liquid Fuels	CH4	4,03	0,89	0,000	0,000	0,990
1.A.3.C	Railways - Solid Fuels	N2O	0,05	0,00	0,000	0,000	0,990
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	5,69	2,01	0,000	0,000	0,990
1.A.4.	Other Sectors - Gaseous Fuels	CH4	0,16	0,22	0,000	0,000	0,990
2.F.4	...General and Novelty Aerosols	HFCs	0,00	0,06	0,000	0,000	0,990
4.F.2	Field Burning of Agricultural Residues - Pulse	N2O	0,00	0,01	0,000	0,000	0,990
2.F.9	Sport Shoe soles	PFC	0,00	0,04	0,000	0,000	0,990
1.A.3.C	Railways - Solid Fuels	CH4	0,02	0,00	0,000	0,000	0,990
1.A.2	Manufacturing Industries and Constructions - Gaseous Fuels	CH4	0,01	0,01	0,000	0,000	0,990
4.B	Manure Management - Anaerobic Lagoon	N2O	0,57	0,17	0,000	0,000	0,990
4.B	Manure Management - Goats	CH4	0,00	0,01	0,000	0,000	0,990
1.A.3.A	Civil Aviation -Liquid Fuels	CH4	0,06	0,02	0,000	0,000	0,990
2.F.2	...PU Integral Skin Foam	HFCs	0,00	0,03	0,000	0,000	0,990
2.F.1.6	Mobile Air-Conditioning - Railcars	HFCs	0,00	0,00	0,000	0,000	0,990
1.A.3.A	Civil Aviation -Liquid Fuels	CO2	0,01	0,01	0,000	0,000	0,990
5.B	Cropland, Liming	CO2	59,84	0,73	0,000	0,000	0,990