

ANNEX 1

Key categories

Annex 1: Key categories

For determination of key source categories the IPCC methodology has been used as described in the 2006 IPCC Guidelines for National GHG Inventories, Chapter 4, following Approach 1 and using disaggregation as presented in the Table 4.1.

Level Assessment – TIER 1

The contribution of each source category to the total national inventory level is calculated according to the Equation 4.1

$$\text{Source Category Level Assessment} = |\text{Source Category Estimate}| / \text{Total Estimate} \\ L_{x,t} = |E_{x,t}| / E_t$$

Where:

L_{x,t} is the Level Assessment for source x in year t

Source Category Estimate ($E_{x,t}$) is the emission estimate of source category x in year t

Total Estimate (E_t) is the total contribution, which is the sum of the absolute values of emissions and removals in year t

Trend Assessment - TIER 1

The contribution of each source category's trend to the trend in the total inventory can be assessed if more than one year of inventory data are available, according to Equation 4.2:

$$T_{x,t} = L_{x,0} * \{ [(E_{x,t} - E_{x,0}) / E_{x,0}] - [(E_t - E_0) / E_0] \} /$$

Where:

T_{x,t} is the contribution of the source category trend to the overall inventory trend, called the Trend Assessment.

L_{x,0} is the Level Assessment for source x in the base year (year 0), derived with the Equation 4.1

E_{x,t} and **E_{x,0}** are the emissions estimates of category x in years t and 0, respectively

E_t and **E₀** are the total inventory estimates in years t and 0, respectively

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Table 1: Key categories - level assessment (with LULUCF)

KC 2016	IPCC Category	Gas	abs. E in 1986 (Gg CO2 eq)	abs. E in 2016 (Gg CO2 eq)	L2016	Cumulative total 2016
1	4.A.1 LULUCF, Forest Land remaining Forest Land	CO2	4197.017	4914.286	0.208	0.208
2	1.A.1 Energy Industries, Solid Fuels	CO2	6318.267	4666.793	0.198	0.406
3	1.A.3.b Road Transportation, Diesel Oil	CO2	632.950	4296.649	0.182	0.589
4	1.A.3.b Road Transportation, Gasoline	CO2	1272.478	1282.969	0.054	0.643
5	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CO2	1243.984	988.205	0.042	0.685
6	1.A.4 Other Sectors, Liquid Fuels	CO2	822.812	961.195	0.041	0.726
7	3.A Agriculture, Enteric Fermentation	CH4	980.785	951.216	0.040	0.766
8	1.A.4 Other Sectors, Gaseous Fuels	CO2	34.106	413.996	0.018	0.784
9	5.A.1 Waste, Managed waste disposal sites	CH4	371.889	355.428	0.015	0.799
10	2.F.1 Industrial processes, Refrigeration and AC Equipment	HFC	NO	345.982	0.015	0.813
11	2.A.1 Industrial processes, Cement Production	CO2	502.219	343.720	0.015	0.828
12	3.D.1 Agriculture, Direct Soil Emissions	N2O	352.939	336.593	0.014	0.842
13	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CO2	1689.284	298.785	0.013	0.855
14	3.B Agriculture, Manure Management	CH4	342.443	258.350	0.011	0.866
15	4.E LULUCF, Settlements	CO2	346.458	256.348	0.011	0.877
16	1.B.1.a Fugitive Emissions, Coal Mining and Handling	CH4	427.458	229.567	0.010	0.886
17	4.A.2 LULUCF, Land converted to Forest Land	CO2	95.370	228.067	0.010	0.896
18	1.A.1 Energy Industries, Gaseous Fuels	CO2	197.526	208.045	0.009	0.905
19	1.A.2 Manufacturing Industries and Construction, Solid Fuels	CO2	1467.570	184.017	0.008	0.913
20	4.B.1 LULUCF, Cropland remaining Cropland	CO2	239.681	180.222	0.008	0.920
21	1.A.4 Other Sectors, Biomass	CH4	118.410	151.832	0.006	0.927
22	5.D.1 Waste, Domestic and Commercial Waste Water	CH4	186.697	135.832	0.006	0.933
23	2.C.3 Industrial processes, Aluminium Production	CO2	88.822	122.072	0.005	0.938
24	3.D.2 Agriculture, Indirect Emissions	N2O	117.644	108.616	0.005	0.942
25	4.G LULUCF, Harvested wood products	CO2	457.001	101.842	0.004	0.947

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26	3.B Agriculture, Manure Management	N2O	166.984	101.703	0.004	0.951
27	1.A.2 Manufacturing Industries and Construction, Other Fuels	CO2	7.494	99.641	0.004	0.955
28	1.B.1.a Fugitive Emissions, Other	CO2	NO	64.772	0.003	0.958
29	1.B.1.a Fugitive Emissions, Coal Mining and Handling	CO2	120.441	63.520	0.003	0.961
30	2.A.2 Industrial processes, Lime Production	CO2	214.363	60.591	0.003	0.963
31	2.C.1 Industrial processes, Iron and Steel Production	CO2	36.645	55.841	0.002	0.966
32	1.A.3.b Road Transportation, Diesel Oil	N2O	6.409	54.520	0.002	0.968
33	4.B.2 LULUCF, Land converted to Cropland	CO2	270.807	53.110	0.002	0.970
34	2.B.6 Industrial processes, Titanium dioxide production	CO2	17.403	49.446	0.002	0.972
35	4.B.2 LULUCF, Land converted to Grassland	CO2	423.608	42.900	0.002	0.974
36	1.A.3.b Road Transportation, LPG	CO2	NO	41.903	0.002	0.976
37	2.G.3 Industrial processes, N2O from product use	N2O	78.733	37.995	0.002	0.978
38	5.D.1 Waste, Domestic and Commercial Waste Water	N2O	38.898	37.362	0.002	0.979
39	1.B.2.b Fugitive Emissions, Natural Gas	CH4	35.094	32.194	0.001	0.980
40	1.A.3.c Railways, Liquid Fuels	CO2	68.926	30.620	0.001	0.982
41	4.E LULUCF, Settlements	N2O	41.208	26.027	0.001	0.983
42	4.D LULUCF, Wetlands	CO2	2.926	25.995	0.001	0.984
43	1.A.4 Other Sectors, Liquid Fuels	N2O	46.089	25.112	0.001	0.985
44	1.A.4 Other Sectors, Biomass	N2O	18.819	24.133	0.001	0.986
45	5.C.1 Waste, Waste Incineration	CO2	1.995	23.513	0.001	0.987
46	4.F LULUCF, Other Land	CO2	13.237	20.981	0.001	0.988
47	1.A.1 Energy Industries, Liquid Fuels	CO2	296.067	20.876	0.001	0.989
48	1.A.1 Energy Industries, Solid Fuels	N2O	26.191	20.369	0.001	0.990
49	2.C.3 Industrial processes, Aluminium Production	PFC	233.193	19.781	0.001	0.991
50	2.G.1 Industrial processes, Electrical Equipment	SF6	9.770	17.436	0.001	0.991
51	2.D.1 Industrial processes, Lubricant use	CO2	3.840	17.086	0.001	0.992
52	2.A.4 Industrial processes, Other process uses of carbonates	CO2	22.130	16.774	0.001	0.993
53	1.A.1 Energy Industries, Other Fuels	CO2	NO	13.808	0.001	0.993

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54	2.C.7 Industrial processes, Other - Anode burned off	CO2		11.269	0.000	0.994
55	3.G Agriculture, Liming	CO2	44.000	11.140	0.000	0.994
56	2.A.3 Industrial processes, Limestone and Dolomite Use	CO2	4.483	10.835	0.000	0.995
57	3.H Urea application	CO2	9.087	9.457	0.000	0.995
58	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	N2O	26.305	9.092	0.000	0.995
59	5.B.1 Waste, Composting	CH4	NO	7.436	0.000	0.996
60	1.A.3.b Road Transportation, CNG	CO2	NO	6.482	0.000	0.996
61	2.C.5 Industrial processes, Lead production	CO2	11.124	6.405	0.000	0.996
62	4. LULUCF, N2O emissions from managed soils	N2O	9.472	6.068	0.000	0.997
63	1.B.2.c Fugitive Emissions, Venting and Flaring	CH4	6.720	5.479	0.000	0.997
64	5.B.1 Waste, Composting	N2O	NO	5.318	0.000	0.997
65	2.F.4 Industrial processes, Aerosols	HFC	NO	5.243	0.000	0.997
66	1.A.3.b Road Transportation, Gasoline	CH4	17.176	4.537	0.000	0.997
67	1.A.3.b Road Transportation, Gasoline	N2O	14.059	4.453	0.000	0.998
68	1.A.2 Manufacturing Industries and Construction, Biomass	N2O	6.006	4.405	0.000	0.998
69	2.D.2 Industrial processes, Paraffin wax use	CO2	4.267	3.705	0.000	0.998
70	2.D.3 Industrial processes, Other	CO2	NO	3.666	0.000	0.998
71	1.A.5 Other Mobile, Liquid Fuels	CO2	41.093	3.607	0.000	0.998
72	1.A.3.c Railways, Liquid Fuels	N2O	7.928	3.522	0.000	0.998
73	1.A.4 Other Sectors, Liquid Fuels	CH4	2.958	3.006	0.000	0.999
74	1.A.2 Manufacturing Industries and Construction, Biomass	CH4	3.779	2.772	0.000	0.999
75	1.A.3.b Other Transportation, Gaseous Fuels	CO2	NO	2.765	0.000	0.999
76	2.C.6 Industrial processes, Zinc production	CO2	6.307	2.488	0.000	0.999
77	1.A.1 Energy Industries, Biomass	N2O	0.189	2.232	0.000	0.999
78	1.A.3.a Domestic Aviation, Liquid fuels	CO2	0.609	2.010	0.000	0.999
79	1.A.3.b Road Transportation, Biomass	N2O	NO	1.763	0.000	0.999
80	2.F.2 Industrial processes, Foam Blowing agents	HFC	NO	1.697	0.000	0.999
81	1.A.2 Manufacturing Industries and Construction, Other Fuels	N2O	0.154	1.587	0.000	0.999

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82	1.A.1 Energy Industries, Biomass	CH4	0.119	1.410	0.000	0.999
83	4.A.1 LULUCF, Forest Land remaining Forest Land	CH4	1.196	1.208	0.000	0.999
84	1.A.1 Energy Industries, Solid Fuels	CH4	1.465	1.139	0.000	1.000
85	1.A.2 Manufacturing Industries and Construction, Other Fuels	CH4	0.097	0.998	0.000	1.000
86	5.D.2 Waste, Industrial Wastewater	CH4	14.454	0.971	0.000	1.000
87	1.A.4 Other Sectors, Gaseous Fuels	CH4	0.077	0.936	0.000	1.000
88	1.A.3.b Road Transportation, Diesel Oil	CH4	1.517	0.861	0.000	1.000
89	1.A.2 Manufacturing Industries and Construction, Solid Fuels	N2O	6.262	0.808	0.000	1.000
90	4.A.1 LULUCF, Forest Land remaining Forest Land	N2O	0.789	0.796	0.000	1.000
91	2.F.3 Industrial processes, Fire Protection	HFC	NO	0.680	0.000	1.000
93	4.C.2 LULUCF, Land converted to Grassland	N2O	0.298	0.596	0.000	1.000
92	4.F LULUCF, Other Land	N2O	0.596	0.596	0.000	1.000
94	1.A.4 Other Sectors, Solid Fuels	CO2	1316.380	0.577	0.000	1.000
95	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	N2O	0.670	0.533	0.000	1.000
96	1.A.2 Manufacturing Industries and Construction, Solid Fuels	CH4	3.502	0.452	0.000	1.000
97	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CH4	0.562	0.447	0.000	1.000
98	1.A.3.c Railways, Solid Fuels	CO2	0.036	0.410	0.000	1.000
99	1.A.3.b Road Transportation, LPG	N2O	NO	0.293	0.000	1.000
100	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CH4	2.825	0.286	0.000	1.000
101	1.A.1 Energy Industries, Other Fuels	N2O	NO	0.225	0.000	1.000
102	1.A.4 Other Sectors, Gaseous Fuels	N2O	0.018	0.223	0.000	1.000
103	1.A.3.b Road Transportation, CNG	CH4	NO	0.176	0.000	1.000
104	1.A.3.b Road Transportation, LPG	CH4	NO	0.146	0.000	1.000
105	1.A.1 Energy Industries, Gaseous Fuels	N2O	0.106	0.112	0.000	1.000
106	1.A.1 Energy Industries, Gaseous Fuels	CH4	0.089	0.094	0.000	1.000
107	1.A.3.b Road Transportation, Biomass	CH4	NO	0.085	0.000	1.000
108	5.C.1 Waste, Waste Incineration	N2O	0.007	0.073	0.000	1.000
109	1.A.3.b Road Transportation, Lubricants	CO2	0.245	0.063	0.000	1.000

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110	1.A.1 Energy Industries, Other Fuels	CH4		0.047	0.000	1.000
111	1.A.1 Energy Industries, Liquid Fuels	N2O	0.681	0.046	0.000	1.000
112	1.B.2.b Fugitive Emissions, Natural Gas	CO2	0.044	0.045	0.000	1.000
113	1.A.4 Other Sectors, Solid Fuels	CH4	58.662	0.045	0.000	1.000
114	1.A.3.c Railways, Liquid Fuels	CH4	0.097	0.043	0.000	1.000
115	1.A.5 Other Mobile, Liquid Fuels	N2O	0.343	0.030	0.000	1.000
116	1.B.2.a Fugitive Emissions, Oil	CO2	0.011	0.020	0.000	1.000
117	1.A.1 Energy Industries, Liquid Fuels	CH4	0.286	0.020	0.000	1.000
118	1.A.3.a Civil Aviation	N2O	0.005	0.017	0.000	1.000
119	1.B.2.c Fugitive Emissions, Venting and Flaring	CO2	0.160	0.008	0.000	1.000
120	1.A.4 Other Sectors, Solid Fuels	N2O	5.569	0.003	0.000	1.000
121	1.A.3.c Railways, Solid Fuels	N2O	0.000	0.002	0.000	1.000
122	1.A.3.b Other Transportation, Gaseous Fuels	N2O	NO	0.001	0.000	1.000
123	5.C.1 Waste, Waste Incineration	CH4	0.000	0.001	0.000	1.000
124	1.A.3.b Road Transportation, CNG	N2O	NO	0.001	0.000	1.000
125	1.A.3.b Other Transportation, Gaseous Fuels	CH4	NO	0.001	0.000	1.000
126	1.A.5 Other Mobile, Liquid Fuels	CH4	0.007	0.001	0.000	1.000
127	1.A.3.a Civil Aviation	CH4	0.000	0.000	0.000	1.000
128	1.A.3.c Railways, Solid Fuels	CH4	0.000	0.000	0.000	1.000
129	1.B.2.c Fugitive Emissions, Venting and Flaring	N2O	0.001	0.000	0.000	1.000

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Table 2: Key categories - level assessment (w/o LULUCF)

KC 2016	IPCC Category	Gas	abs. E in 1986 (Gg CO ₂ eq)	abs. E in 2016 (Gg CO ₂ eq)	L2016	Cumulative total 2016
1	1.A.1 Energy Industries, Solid Fuels	CO₂	6318.267	4666.793	0.263	0.263
2	1.A.3.b Road Transportation, Diesel Oil	CO₂	632.950	4296.649	0.243	0.506
3	1.A.3.b Road Transportation, Gasoline	CO₂	1272.478	1282.969	0.072	0.578
4	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CO₂	1243.984	988.205	0.056	0.634
5	1.A.4 Other Sectors, Liquid Fuels	CO₂	822.812	961.195	0.054	0.688
6	3.A Agriculture, Enteric Fermentation	CH₄	980.785	951.216	0.054	0.742
7	1.A.4 Other Sectors, Gaseous Fuels	CO₂	34.106	413.996	0.023	0.765
8	5.A.1 Waste, Managed waste disposal sites	CH₄	371.889	355.428	0.020	0.785
9	2.F.1 Industrial processes, Refrigeration and Air Conditioning Equipment	HFC	NO	345.982	0.020	0.805
10	2.A.1 Industrial processes, Cement Production	CO₂	502.219	343.720	0.019	0.824
11	3.D.1 Agriculture, Direct Soil Emissions	N₂O	352.939	336.593	0.019	0.843
12	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CO₂	1689.284	298.785	0.017	0.860
13	3.B Agriculture, Manure Management	CH₄	342.443	258.350	0.015	0.875
14	1.B.1.a Fugitive Emissions, Coal Mining and Handling	CH₄	427.458	229.567	0.013	0.888
15	1.A.1 Energy Industries, Gaseous Fuels	CO₂	197.526	208.045	0.012	0.900
16	1.A.2 Manufacturing Industries and Construction, Solid Fuels	CO₂	1467.570	184.017	0.010	0.910
17	1.A.4 Other Sectors, Biomass	CH₄	118.410	151.832	0.009	0.918
18	5.D.1 Waste, Domestic and Commercial Waste Water	CH₄	186.697	135.832	0.008	0.926
19	2.C.3 Industrial processes, Aluminium Production	CO₂	88.822	122.072	0.007	0.933
20	3.D.2 Agriculture, Indirect Emissions	N₂O	117.644	108.616	0.006	0.939
21	3.B Agriculture, Manure Management	N₂O	166.984	101.703	0.006	0.945
22	1.A.2 Manufacturing Industries and Construction, Other Fuels	CO₂	7.494	99.641	0.006	0.951
23	1.B.1.a Fugitive Emissions, Other	CO₂	NO	64.772	0.004	0.954
24	1.B.1.a Fugitive Emissions, Coal Mining and Handling	CO₂	120.441	63.520	0.004	0.958
25	2.A.2 Industrial processes, Lime Production	CO₂	214.363	60.591	0.003	0.961

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26	2.C.1 Industrial processes, Iron and Steel Production	CO2	36.645	55.841	0.003	0.964
27	1.A.3.b Road Transportation, Diesel Oil	N2O	6.409	54.520	0.003	0.967
28	2.B.6 Industrial processes, Titanium dioxide production	CO2	17.403	49.446	0.003	0.970
29	1.A.3.b Road Transportation, LPG	CO2	NO	41.903	0.002	0.973
30	2.G.3 Industrial processes, N2O from product use	N2O	78.733	37.995	0.002	0.975
31	5.D.1 Waste, Domestic and Commercial Waste Water	N2O	38.898	37.362	0.002	0.977
32	1.B.2.b Fugitive Emissions, Natural Gas	CH4	35.094	32.194	0.002	0.979
33	1.A.3.c Railways, Liquid Fuels	CO2	68.926	30.620	0.002	0.980
34	1.A.4 Other Sectors, Liquid Fuels	N2O	46.089	25.112	0.001	0.982
35	1.A.4 Other Sectors, Biomass	N2O	18.819	24.133	0.001	0.983
36	5.C.1 Waste, Waste Incineration	CO2	1.995	23.513	0.001	0.984
37	1.A.1 Energy Industries, Liquid Fuels	CO2	296.067	20.876	0.001	0.986
38	1.A.1 Energy Industries, Solid Fuels	N2O	26.191	20.369	0.001	0.987
39	2.C.3 Industrial processes, Aluminium Production	PFC	233.193	19.781	0.001	0.988
40	2.G.1 Industrial processes, Electrical Equipment	SF6	9.770	17.436	0.001	0.989
41	2.D.1 Industrial processes, Lubricant use	CO2	3.840	17.086	0.001	0.990
42	2.A.4 Industrial processes, Other process uses of carbonates	CO2	22.130	16.774	0.001	0.991
43	1.A.1 Energy Industries, Other Fuels	CO2	NO	13.808	0.001	0.992
44	2.C.7 Industrial processes, Other - Anode burned off	CO2	NO	11.269	0.001	0.992
45	3.G Agriculture, Liming	CO2	44.000	11.140	0.001	0.993
46	2.A.3 Industrial processes, Limestone and Dolomite Use	CO2	4.483	10.835	0.001	0.993
47	3.H Urea application	CO2	9.087	9.457	0.001	0.994
48	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	N2O	26.305	9.092	0.001	0.995
49	5.B.1 Waste, Composting	CH4	NO	7.436	0.000	0.995
50	1.A.3.b Road Transportation, CNG	CO2	NO	6.482	0.000	0.995
51	2.C.5 Industrial processes, Lead production	CO2	11.124	6.405	0.000	0.996
52	1.B.2.c Fugitive Emissions, Venting and Flaring	CH4	6.720	5.479	0.000	0.996
53	5.B.1 Waste, Composting	N2O	NO	5.318	0.000	0.996

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54	2.F.4 Industrial processes, Aerosols	HFC	NO	5.243	0.000	0.997
55	1.A.3.b Road Transportation, Gasoline	CH4	17.176	4.537	0.000	0.997
56	1.A.3.b Road Transportation, Gasoline	N2O	14.059	4.453	0.000	0.997
57	1.A.2 Manufacturing Industries and Construction, Biomass	N2O	6.006	4.405	0.000	0.997
58	2.D.2 Industrial processes, Paraffin wax use	CO2	4.267	3.705	0.000	0.998
59	2.D.3 Industrial processes, Other	CO2	NO	3.666	0.000	0.998
60	1.A.5 Other Mobile, Liquid Fuels	CO2	41.093	3.607	0.000	0.998
61	1.A.3.c Railways, Liquid Fuels	N2O	7.928	3.522	0.000	0.998
62	1.A.4 Other Sectors, Liquid Fuels	CH4	2.958	3.006	0.000	0.998
63	1.A.2 Manufacturing Industries and Construction, Biomass	CH4	3.779	2.772	0.000	0.998
64	1.A.3.b Other Transportation, Gaseous Fuels	CO2	NO	2.765	0.000	0.999
65	2.C.6 Industrial processes, Zinc production	CO2	6.307	2.488	0.000	0.999
66	1.A.1 Energy Industries, Biomass	N2O	0.189	2.232	0.000	0.999
67	1.A.3.a Domestic Aviation, Liquid fuels	CO2	0.609	2.010	0.000	0.999
68	1.A.3.b Road Transportation, Biomass	N2O	NO	1.763	0.000	0.999
69	2.F.2 Industrial processes, Foam Blowing agents	HFC	NO	1.697	0.000	0.999
70	1.A.2 Manufacturing Industries and Construction, Other Fuels	N2O	0.154	1.587	0.000	0.999
71	1.A.1 Energy Industries, Biomass	CH4	0.119	1.410	0.000	0.999
72	1.A.1 Energy Industries, Solid Fuels	CH4	1.465	1.139	0.000	0.999
73	1.A.2 Manufacturing Industries and Construction, Other Fuels	CH4	0.097	0.998	0.000	1.000
74	5.D.2 Waste, Industrial Wastewater	CH4	14.454	0.971	0.000	1.000
75	1.A.4 Other Sectors, Gaseous Fuels	CH4	0.077	0.936	0.000	1.000
76	1.A.3.b Road Transportation, Diesel Oil	CH4	1.517	0.861	0.000	1.000
77	1.A.2 Manufacturing Industries and Construction, Solid Fuels	N2O	6.262	0.808	0.000	1.000
78	2.F.3 Industrial processes, Fire Protection	HFC	NO	0.680	0.000	1.000
79	1.A.4 Other Sectors, Solid Fuels	CO2	1316.380	0.577	0.000	1.000
80	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	N2O	0.670	0.533	0.000	1.000
81	1.A.2 Manufacturing Industries and Construction, Solid Fuels	CH4	3.502	0.452	0.000	1.000

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82	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CH4	0.562	0.447	0.000	1.000
83	1.A.3.c Railways, Solid Fuels	CO2	0.036	0.410	0.000	1.000
84	1.A.3.b Road Transportation, LPG	N2O	NO	0.293	0.000	1.000
85	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CH4	2.825	0.286	0.000	1.000
86	1.A.1 Energy Industries, Other Fuels	N2O	NO	0.225	0.000	1.000
87	1.A.4 Other Sectors, Gaseous Fuels	N2O	0.018	0.223	0.000	1.000
88	1.A.3.b Road Transportation, CNG	CH4	NO	0.176	0.000	1.000
89	1.A.3.b Road Transportation, LPG	CH4	NO	0.146	0.000	1.000
90	1.A.1 Energy Industries, Gaseous Fuels	N2O	0.106	0.112	0.000	1.000
91	1.A.1 Energy Industries, Gaseous Fuels	CH4	0.089	0.094	0.000	1.000
92	1.A.3.b Road Transportation, Biomass	CH4	NO	0.085	0.000	1.000
93	5.C.1 Waste, Waste Incineration	N2O	0.007	0.073	0.000	1.000
94	1.A.3.b Road Transportation, Lubricants	CO2	0.245	0.063	0.000	1.000
95	1.A.1 Energy Industries, Other Fuels	CH4	NO	0.047	0.000	1.000
96	1.A.1 Energy Industries, Liquid Fuels	N2O	0.681	0.046	0.000	1.000
97	1.B.2.b Fugitive Emissions, Natural Gas	CO2	0.044	0.045	0.000	1.000
98	1.A.4 Other Sectors, Solid Fuels	CH4	58.662	0.045	0.000	1.000
99	1.A.3.c Railways, Liquid Fuels	CH4	0.097	0.043	0.000	1.000
100	1.A.5 Other Mobile, Liquid Fuels	N2O	0.343	0.030	0.000	1.000
101	1.B.2.a Fugitive Emissions, Oil	CO2	0.011	0.020	0.000	1.000
102	1.A.1 Energy Industries, Liquid Fuels	CH4	0.286	0.020	0.000	1.000
103	1.A.3.a Civil Aviation	N2O	0.005	0.017	0.000	1.000
104	1.B.2.c Fugitive Emissions, Venting and Flaring	CO2	0.160	0.008	0.000	1.000
105	1.A.4 Other Sectors, Solid Fuels	N2O	5.569	0.003	0.000	1.000
106	1.A.3.c Railways, Solid Fuels	N2O	0.000	0.002	0.000	1.000
107	1.A.3.b Other Transportation, Gaseous Fuels	N2O	NO	0.001	0.000	1.000
108	5.C.1 Waste, Waste Incineration	CH4	0.000	0.001	0.000	1.000
109	1.A.3.b Road Transportation, CNG	N2O	NO	0.001	0.000	1.000

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110	1.A.3.b Other Transportation, Gaseous Fuels	CH4	NO	0.001	0.000	1.000
111	1.A.5 Other Mobile, Liquid Fuels	CH4	0.007	0.001	0.000	1.000
112	1.A.3.a Civil Aviation	CH4	0.000	0.000	0.000	1.000
113	1.A.3.c Railways, Solid Fuels	CH4	0.000	0.000	0.000	1.000
114	1.B.2.c Fugitive Emissions, Venting and Flaring	N2O	0.001	0.000	0.000	1.000

Table 3: Key categories - trend assessment (with LULUCF)

IPCC Category	Gas	abs. E in 1986 (Gg CO2 eq)	abs. E in 2015 (Gg CO2 eq)	Trend Assessment	Contribution to the trend	Cumulative total
1.A.3.b Road Transportation, Diesel Oil	CO2	632.950	4296.649	0.141	0.271	0.271
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CO2	1689.284	298.785	0.045	0.087	0.358
4.A.1 LULUCF, Forest Land remaining Forest Land	CO2	4197.017	4914.286	0.045	0.086	0.444
1.A.4 Other Sectors, Solid Fuels	CO2	1316.380	0.577	0.044	0.085	0.529
1.A.2 Manufacturing Industries and Construction, Solid Fuels	CO2	1467.570	184.017	0.042	0.081	0.610
1.A.1 Energy Industries, Solid Fuels	CO2	6318.267	4666.793	0.036	0.069	0.680
1.A.4 Other Sectors, Gaseous Fuels	CO2	34.106	413.996	0.014	0.028	0.708
2.F.1 Industrial processes, Refrigeration and Air Conditioning Equipment	HFC		345.982	0.013	0.025	0.733
4.B.2 LULUCF, Land converted to Grassland	CO2	423.608	42.900	0.013	0.024	0.757
4.G LULUCF, Harvested wood products	CO2	457.001	101.842	0.012	0.022	0.779
1.A.1 Energy Industries, Liquid Fuels	CO2	296.067	20.876	0.009	0.018	0.797
1.A.4 Other Sectors, Liquid Fuels	CO2	822.812	961.195	0.009	0.017	0.813
4.B.2 LULUCF, Land converted to Cropland	CO2	270.807	53.110	0.007	0.014	0.827
2.C.3 Industrial processes, Aluminium Production	PFC	233.193	19.781	0.007	0.014	0.840
1.B.1.a Fugitive Emissions, Coal Mining and Handling	CH4	427.458	229.567	0.006	0.011	0.851
1.A.3.b Road Transportation, Gasoline	CO2	1272.478	1282.969	0.006	0.011	0.862
4.A.2 LULUCF, Land converted to Forest Land	CO2	95.370	228.067	0.005	0.010	0.873
2.A.2 Industrial processes, Lime Production	CO2	214.363	60.591	0.005	0.009	0.882
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CO2	1243.984	988.205	0.004	0.009	0.891
2.A.1 Industrial processes, Cement Production	CO2	502.219	343.720	0.004	0.007	0.898
1.A.2 Manufacturing Industries and Construction, Other Fuels	CO2	7.494	99.641	0.004	0.007	0.905
2.C.2 Industrial processes, Ferroalloys Production	CO2	93.998		0.003	0.006	0.911
3.A Agriculture, Enteric Fermentation	CH4	980.785	951.216	0.003	0.006	0.917
1.B.1.a Fugitive Emissions, Other	CO2		64.772	0.002	0.005	0.921

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1.A.4 Other Sectors, Solid Fuels	CH4	58.662	0.045	0.002	0.004	0.925
4.E LULUCF, Settlements	CO2	346.458	256.348	0.002	0.004	0.929
1.A.3.b Road Transportation, Diesel Oil	N2O	6.409	54.520	0.002	0.004	0.933
3.B Agriculture, Manure Management	N2O	166.984	101.703	0.002	0.003	0.936
1.A.4 Other Sectors, Biomass	CH4	118.410	151.832	0.002	0.003	0.939
3.B Agriculture, Manure Management	CH4	342.443	258.350	0.002	0.003	0.943
1.B.1.a Fugitive Emissions, Coal Mining and Handling	CO2	120.441	63.520	0.002	0.003	0.946
2.C.3 Industrial processes, Aluminium Production	CO2	88.822	122.072	0.002	0.003	0.949
1.A.3.b Road Transportation, LPG	CO2		41.903	0.002	0.003	0.952
2.B.5 Industrial processes, Carbide Production	CO2	39.801		0.001	0.003	0.955
2.B.6 Industrial processes, Titanium dioxide production	CO2	17.403	49.446	0.001	0.002	0.957
4.B.1 LULUCF, Cropland remaining Cropland	CO2	239.681	180.222	0.001	0.002	0.959
1.A.5 Other Mobile, Liquid Fuels	CO2	41.093	3.607	0.001	0.002	0.962
1.A.1 Energy Industries, Gaseous Fuels	CO2	197.526	208.045	0.001	0.002	0.964
2.G.3 Industrial processes, N2O from product use	N2O	78.733	37.995	0.001	0.002	0.967
1.A.3.c Railways, Liquid Fuels	CO2	68.926	30.620	0.001	0.002	0.969
5.D.1 Waste, Domestic and Commercial Waste Water	CH4	186.697	135.832	0.001	0.002	0.971
3.G Agriculture, Liming	CO2	44.000	11.140	0.001	0.002	0.973
5.A.1 Waste, Managed waste disposal sites	CH4	371.889	355.428	0.001	0.002	0.975
4.D LULUCF, Wetlands	CO2	2.926	25.995	0.001	0.002	0.976
2.C.1 Industrial processes, Iron and Steel Production	CO2	36.645	55.841	0.001	0.002	0.978
3.D.1 Agriculture, Direct Soil Emissions	N2O	352.939	336.593	0.001	0.002	0.980
5.C.1 Waste, Waste Incineration	CO2	1.995	23.513	0.001	0.002	0.981
2.B.8 Industrial processes, Petrochemical and carbon black production	CO2	18.621		0.001	0.001	0.983
1.A.4 Other Sectors, Liquid Fuels	N2O	46.089	25.112	0.001	0.001	0.984
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	N2O	26.305	9.092	0.001	0.001	0.985
1.A.1 Energy Industries, Other Fuels	CO2		13.808	0.001	0.001	0.986
2.D.1 Industrial processes, Lubricant use	CO2	3.840	17.086	0.001	0.001	0.987

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5.D.2 Waste, Industrial Wastewater	CH4	14.454	0.971	0.000	0.001	0.988
2.C.7 Industrial processes, Other - Anode burned off	CO2		11.269	0.000	0.001	0.988
1.A.3.b Road Transportation, Gasoline	CH4	17.176	4.537	0.000	0.001	0.989
4.E LULUCF, Settlements	N2O	41.208	26.027	0.000	0.001	0.990
4.F LULUCF, Other Land	CO2	13.237	20.981	0.000	0.001	0.991
2.G.1 Industrial processes, Electrical Equipment	SF6	9.770	17.436	0.000	0.001	0.991
1.A.3.b Road Transportation, Gasoline	N2O	14.059	4.453	0.000	0.001	0.992
5.B.1 Waste, Composting	CH4		7.436	0.000	0.001	0.992
1.A.4 Other Sectors, Biomass	N2O	18.819	24.133	0.000	0.001	0.993
2.A.3 Industrial processes, Limestone and Dolomite Use	CO2	4.483	10.835	0.000	0.000	0.993
1.A.3.b Road Transportation, CNG	CO2		6.482	0.000	0.000	0.994
5.B.1 Waste, Composting	N2O		5.318	0.000	0.000	0.994
2.F.4 Industrial processes, Aerosols	HFC		5.243	0.000	0.000	0.995
1.A.4 Other Sectors, Solid Fuels	N2O	5.569	0.003	0.000	0.000	0.995
1.A.2 Manufacturing Industries and Construction, Solid Fuels	N2O	6.262	0.808	0.000	0.000	0.995
3.D.2 Agriculture, Indirect Emissions	N2O	117.644	108.616	0.000	0.000	0.996
2.D.3 Industrial processes, Other	CO2		3.666	0.000	0.000	0.996
2.B.8 Industrial processes, Petrochemical and carbon black production	CH4	4.010		0.000	0.000	0.996
1.A.3.c Railways, Liquid Fuels	N2O	7.928	3.522	0.000	0.000	0.996
2.C.5 Industrial processes, Lead production	CO2	11.124	6.405	0.000	0.000	0.997
2.C.6 Industrial processes, Zinc production	CO2	6.307	2.488	0.000	0.000	0.997
1.A.1 Energy Industries, Solid Fuels	N2O	26.191	20.369	0.000	0.000	0.997
2.A.4 Industrial processes, Other process uses of carbonates	CO2	22.130	16.774	0.000	0.000	0.997
1.A.3.b Other Transportation, Gaseous Fuels	CO2		2.765	0.000	0.000	0.998
5.D.1 Waste, Domestic and Commercial Waste Water	N2O	38.898	37.362	0.000	0.000	0.998
1.A.2 Manufacturing Industries and Construction, Solid Fuels	CH4	3.502	0.452	0.000	0.000	0.998
4. LULUCF, N2O emissions from managed soils	N2O	9.472	6.068	0.000	0.000	0.998
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CH4	2.825	0.286	0.000	0.000	0.998

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1.A.1 Energy Industries, Biomass	N2O	0.189	2.232	0.000	0.000	0.998
1.A.3.b Road Transportation, Biomass	N2O		1.763	0.000	0.000	0.999
2.F.2 Industrial processes, Foam Blowing agents	HFC		1.697	0.000	0.000	0.999
1.A.3.a Domestic Aviation, Liquid fuels	CO2	0.609	2.010	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Other Fuels	N2O	0.154	1.587	0.000	0.000	0.999
3.H Urea application	CO2	9.087	9.457	0.000	0.000	0.999
1.A.1 Energy Industries, Biomass	CH4	0.119	1.410	0.000	0.000	0.999
1.B.2.b Fugitive Emissions, Natural Gas	CH4	35.094	32.194	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Biomass	N2O	6.006	4.405	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Other Fuels	CH4	0.097	0.998	0.000	0.000	0.999
1.A.4 Other Sectors, Gaseous Fuels	CH4	0.077	0.936	0.000	0.000	0.999
2.B.5 Industrial processes, Carbide Production	CH4	0.932		0.000	0.000	0.999
2.F.3 Industrial processes, Fire Protection	HFC		0.680	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Biomass	CH4	3.779	2.772	0.000	0.000	1.000
1.A.1 Energy Industries, Liquid Fuels	N2O	0.681	0.046	0.000	0.000	1.000
2.C.2 Industrial processes, Ferroalloys Production	CH4	0.590		0.000	0.000	1.000
1.B.2.c Fugitive Emissions, Venting and Flaring	CH4	6.720	5.479	0.000	0.000	1.000
1.A.3.b Road Transportation, Diesel Oil	CH4	1.517	0.861	0.000	0.000	1.000
1.A.3.c Railways, Solid Fuels	CO2	0.036	0.410	0.000	0.000	1.000
1.A.4 Other Sectors, Liquid Fuels	CH4	2.958	3.006	0.000	0.000	1.000
4.C.2 LULUCF, Land converted to Grassland	N2O	0.298	0.596	0.000	0.000	1.000
1.B.2.a Fugitive Emissions, Oil	CH4	0.341		0.000	0.000	1.000
1.A.3.b Road Transportation, LPG	N2O		0.293	0.000	0.000	1.000
1.A.5 Other Mobile, Liquid Fuels	N2O	0.343	0.030	0.000	0.000	1.000
1.A.1 Energy Industries, Liquid Fuels	CH4	0.286	0.020	0.000	0.000	1.000
1.A.1 Energy Industries, Other Fuels	N2O		0.225	0.000	0.000	1.000
1.A.4 Other Sectors, Gaseous Fuels	N2O	0.018	0.223	0.000	0.000	1.000
1.A.3.b Road Transportation, CNG	CH4		0.176	0.000	0.000	1.000

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1.A.1 Energy Industries, Solid Fuels	CH4	1.465	1.139	0.000	0.000	1.000
1.A.3.b Road Transportation, Lubricants	CO2	0.245	0.063	0.000	0.000	1.000
1.A.3.b Road Transportation, LPG	CH4		0.146	0.000	0.000	1.000
4.A.1 LULUCF, Forest Land remaining Forest Land	CH4	1.196	1.208	0.000	0.000	1.000
1.B.2.c Fugitive Emissions, Venting and Flaring	CO2	0.160	0.008	0.000	0.000	1.000
4.A.1 LULUCF, Forest Land remaining Forest Land	N2O	0.789	0.796	0.000	0.000	1.000
2.D.2 Industrial processes, Paraffin wax use	CO2	4.267	3.705	0.000	0.000	1.000
1.A.3.b Road Transportation, Biomass	CH4		0.085	0.000	0.000	1.000
5.C.1 Waste, Waste Incineration	N2O	0.007	0.073	0.000	0.000	1.000
4.F LULUCF, Other Land	N2O	0.596	0.596	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	N2O	0.670	0.533	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CH4	0.562	0.447	0.000	0.000	1.000
1.A.1 Energy Industries, Other Fuels	CH4		0.047	0.000	0.000	1.000
1.A.3.c Railways, Liquid Fuels	CH4	0.097	0.043	0.000	0.000	1.000
1.A.1 Energy Industries, Gaseous Fuels	N2O	0.106	0.112	0.000	0.000	1.000
1.A.1 Energy Industries, Gaseous Fuels	CH4	0.089	0.094	0.000	0.000	1.000
1.A.3.a Civil Aviation	N2O	0.005	0.017	0.000	0.000	1.000
1.B.2.a Fugitive Emissions, Oil	CO2	0.011	0.020	0.000	0.000	1.000
1.B.2.b Fugitive Emissions, Natural Gas	CO2	0.044	0.045	0.000	0.000	1.000
1.A.5 Other Mobile, Liquid Fuels	CH4	0.007	0.001	0.000	0.000	1.000
1.A.3.c Railways, Solid Fuels	N2O	0.000	0.002	0.000	0.000	1.000
1.A.3.b Other Transportation, Gaseous Fuels	N2O		0.001	0.000	0.000	1.000
1.A.3.b Road Transportation, CNG	N2O		0.001	0.000	0.000	1.000
5.C.1 Waste, Waste Incineration	CH4	0.000	0.001	0.000	0.000	1.000
1.A.3.b Other Transportation, Gaseous Fuels	CH4		0.001	0.000	0.000	1.000
1.B.2.c Fugitive Emissions, Venting and Flaring	N2O	0.001	0.000	0.000	0.000	1.000
1.A.3.a Civil Aviation	CH4	0.000	0.000	0.000	0.000	1.000
1.A.3.c Railways, Solid Fuels	CH4	0.000	0.000	0.000	0.000	1.000

Table 4: Key categories - trend assessment (w/o LULUCF)

IPCC Category	Gas	abs. E in 1986 (Gg CO ₂ eq)	abs. E in 2015 (Gg CO ₂ eq)	Trend Assessment	Contribution to the trend	Cumulative total
1.A.3.b Road Transportation, Diesel Oil	CO ₂	632.950	4296.649	0.184	0.332	0.332
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CO ₂	1689.284	298.785	0.057	0.104	0.436
1.A.4 Other Sectors, Solid Fuels	CO ₂	1316.380	0.577	0.056	0.101	0.537
1.A.2 Manufacturing Industries and Construction, Solid Fuels	CO ₂	1467.570	184.017	0.053	0.097	0.633
1.A.1 Energy Industries, Solid Fuels	CO ₂	6318.267	4666.793	0.040	0.073	0.706
1.A.4 Other Sectors, Gaseous Fuels	CO ₂	34.106	413.996	0.019	0.034	0.740
2.F.1 Industrial processes, Refrigeration and AC Equipment	HFC		345.982	0.017	0.031	0.771
1.A.4 Other Sectors, Liquid Fuels	CO ₂	822.812	961.195	0.012	0.022	0.793
1.A.1 Energy Industries, Liquid Fuels	CO ₂	296.067	20.876	0.012	0.021	0.814
2.C.3 Industrial processes, Aluminium Production	PFC	233.193	19.781	0.009	0.016	0.830
1.A.3.b Road Transportation, Gasoline	CO ₂	1272.478	1282.969	0.009	0.016	0.846
1.B.1.a Fugitive Emissions, Coal Mining and Handling	CH ₄	427.458	229.567	0.007	0.013	0.858
2.A.2 Industrial processes, Lime Production	CO ₂	214.363	60.591	0.006	0.011	0.869
3.A Agriculture, Enteric Fermentation	CH ₄	980.785	951.216	0.005	0.009	0.878
1.A.2 Manufacturing Industries and Construction, Other Fuels	CO ₂	7.494	99.641	0.005	0.008	0.886
2.A.1 Industrial processes, Cement Production	CO ₂	502.219	343.720	0.005	0.008	0.895
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CO ₂	1243.984	988.205	0.005	0.008	0.903
2.C.2 Industrial processes, Ferroalloys Production	CO ₂	93.998		0.004	0.007	0.910
1.B.1.a Fugitive Emissions, Other	CO ₂		64.772	0.003	0.006	0.916
1.A.4 Other Sectors, Solid Fuels	CH ₄	58.662	0.045	0.002	0.005	0.920
1.A.4 Other Sectors, Biomass	CH ₄	118.410	151.832	0.002	0.004	0.925
1.A.3.b Road Transportation, Diesel Oil	N ₂ O	6.409	54.520	0.002	0.004	0.929
2.C.3 Industrial processes, Aluminium Production	CO ₂	88.822	122.072	0.002	0.004	0.933

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3.B Agriculture, Manure Management	N2O	166.984	101.703	0.002	0.004	0.937
1.A.3.b Road Transportation, LPG	CO2		41.903	0.002	0.004	0.940
1.B.1.a Fugitive Emissions, Coal Mining and Handling	CO2	120.441	63.520	0.002	0.004	0.944
3.B Agriculture, Manure Management	CH4	342.443	258.350	0.002	0.003	0.948
1.A.1 Energy Industries, Gaseous Fuels	CO2	197.526	208.045	0.002	0.003	0.951
2.B.5 Industrial processes, Carbide Production	CO2	39.801		0.002	0.003	0.954
2.B.6 Industrial processes, Titanium dioxide production	CO2	17.403	49.446	0.002	0.003	0.957
5.A.1 Waste, Managed waste disposal sites	CH4	371.889	355.428	0.002	0.003	0.960
1.A.5 Other Mobile, Liquid Fuels	CO2	41.093	3.607	0.002	0.003	0.963
2.G.3 Industrial processes, N2O from product use	N2O	78.733	37.995	0.001	0.003	0.965
3.D.1 Agriculture, Direct Soil Emissions	N2O	352.939	336.593	0.001	0.003	0.968
1.A.3.c Railways, Liquid Fuels	CO2	68.926	30.620	0.001	0.003	0.971
3.G Agriculture, Liming	CO2	44.000	11.140	0.001	0.002	0.973
5.D.1 Waste, Domestic and Commercial Waste Water	CH4	186.697	135.832	0.001	0.002	0.975
2.C.1 Industrial processes, Iron and Steel Production	CO2	36.645	55.841	0.001	0.002	0.977
5.C.1 Waste, Waste Incineration	CO2	1.995	23.513	0.001	0.002	0.979
2.B.8 Industrial processes, Petrochemical and carbon black production	CO2	18.621		0.001	0.001	0.981
1.A.4 Other Sectors, Liquid Fuels	N2O	46.089	25.112	0.001	0.001	0.982
1.A.1 Energy Industries, Other Fuels	CO2		13.808	0.001	0.001	0.983
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	N2O	26.305	9.092	0.001	0.001	0.985
2.D.1 Industrial processes, Lubricant use	CO2	3.840	17.086	0.001	0.001	0.986
5.D.2 Waste, Industrial Wastewater	CH4	14.454	0.971	0.001	0.001	0.987
2.C.7 Industrial processes, Other - Anode burned off	CO2		11.269	0.001	0.001	0.988
1.A.3.b Road Transportation, Gasoline	CH4	17.176	4.537	0.001	0.001	0.989
2.G.1 Industrial processes, Electrical Equipment	SF6	9.770	17.436	0.000	0.001	0.989
1.A.4 Other Sectors, Biomass	N2O	18.819	24.133	0.000	0.001	0.990
1.A.3.b Road Transportation, Gasoline	N2O	14.059	4.453	0.000	0.001	0.991
5.B.1 Waste, Composting	CH4		7.436	0.000	0.001	0.992

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2.A.3 Industrial processes, Limestone and Dolomite Use	CO2	4.483	10.835	0.000	0.001	0.992
1.A.3.b Road Transportation, CNG	CO2		6.482	0.000	0.001	0.993
3.D.2 Agriculture, Indirect Emissions	N2O	117.644	108.616	0.000	0.001	0.993
5.B.1 Waste, Composting	N2O		5.318	0.000	0.000	0.994
2.F.4 Industrial processes, Aerosols	HFC		5.243	0.000	0.000	0.994
1.A.4 Other Sectors, Solid Fuels	N2O	5.569	0.003	0.000	0.000	0.995
1.A.2 Manufacturing Industries and Construction, Solid Fuels	N2O	6.262	0.808	0.000	0.000	0.995
2.D.3 Industrial processes, Other	CO2		3.666	0.000	0.000	0.995
5.D.1 Waste, Domestic and Commercial Waste Water	N2O	38.898	37.362	0.000	0.000	0.996
2.B.8 Industrial processes, Petrochemical and carbon black production	CH4	4.010		0.000	0.000	0.996
1.A.3.c Railways, Liquid Fuels	N2O	7.928	3.522	0.000	0.000	0.996
2.C.5 Industrial processes, Lead production	CO2	11.124	6.405	0.000	0.000	0.997
2.C.6 Industrial processes, Zinc production	CO2	6.307	2.488	0.000	0.000	0.997
1.A.3.b Other Transportation, Gaseous Fuels	CO2		2.765	0.000	0.000	0.997
1.A.2 Manufacturing Industries and Construction, Solid Fuels	CH4	3.502	0.452	0.000	0.000	0.997
2.A.4 Industrial processes, Other process uses of carbonates	CO2	22.130	16.774	0.000	0.000	0.998
1.A.1 Energy Industries, Solid Fuels	N2O	26.191	20.369	0.000	0.000	0.998
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CH4	2.825	0.286	0.000	0.000	0.998
1.A.1 Energy Industries, Biomass	N2O	0.189	2.232	0.000	0.000	0.998
1.A.3.b Road Transportation, Biomass	N2O		1.763	0.000	0.000	0.998
1.B.2.b Fugitive Emissions, Natural Gas	CH4	35.094	32.194	0.000	0.000	0.998
2.F.2 Industrial processes, Foam Blowing agents	HFC		1.697	0.000	0.000	0.999
3.H Urea application	CO2	9.087	9.457	0.000	0.000	0.999
1.A.3.a Domestic Aviation, Liquid fuels	CO2	0.609	2.010	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Other Fuels	N2O	0.154	1.587	0.000	0.000	0.999
1.A.1 Energy Industries, Biomass	CH4	0.119	1.410	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Other Fuels	CH4	0.097	0.998	0.000	0.000	0.999
1.A.4 Other Sectors, Gaseous Fuels	CH4	0.077	0.936	0.000	0.000	0.999

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1.A.2 Manufacturing Industries and Construction, Biomass	N2O	6.006	4.405	0.000	0.000	0.999
2.B.5 Industrial processes, Carbide Production	CH4	0.932		0.000	0.000	0.999
2.F.3 Industrial processes, Fire Protection	HFC		0.680	0.000	0.000	0.999
1.A.1 Energy Industries, Liquid Fuels	N2O	0.681	0.046	0.000	0.000	1.000
2.C.2 Industrial processes, Ferroalloys Production	CH4	0.590		0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Biomass	CH4	3.779	2.772	0.000	0.000	1.000
1.A.3.b Road Transportation, Diesel Oil	CH4	1.517	0.861	0.000	0.000	1.000
1.A.4 Other Sectors, Liquid Fuels	CH4	2.958	3.006	0.000	0.000	1.000
1.A.3.c Railways, Solid Fuels	CO2	0.036	0.410	0.000	0.000	1.000
1.B.2.c Fugitive Emissions, Venting and Flaring	CH4	6.720	5.479	0.000	0.000	1.000
1.B.2.a Fugitive Emissions, Oil	CH4	0.341		0.000	0.000	1.000
1.A.3.b Road Transportation, LPG	N2O		0.293	0.000	0.000	1.000
1.A.5 Other Mobile, Liquid Fuels	N2O	0.343	0.030	0.000	0.000	1.000
1.A.1 Energy Industries, Liquid Fuels	CH4	0.286	0.020	0.000	0.000	1.000
1.A.1 Energy Industries, Other Fuels	N2O		0.225	0.000	0.000	1.000
1.A.4 Other Sectors, Gaseous Fuels	N2O	0.018	0.223	0.000	0.000	1.000
1.A.3.b Road Transportation, CNG	CH4		0.176	0.000	0.000	1.000
1.A.3.b Road Transportation, Lubricants	CO2	0.245	0.063	0.000	0.000	1.000
1.A.3.b Road Transportation, LPG	CH4		0.146	0.000	0.000	1.000
1.A.1 Energy Industries, Solid Fuels	CH4	1.465	1.139	0.000	0.000	1.000
1.B.2.c Fugitive Emissions, Venting and Flaring	CO2	0.160	0.008	0.000	0.000	1.000
1.A.3.b Road Transportation, Biomass	CH4		0.085	0.000	0.000	1.000
5.C.1 Waste, Waste Incineration	N2O	0.007	0.073	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	N2O	0.670	0.533	0.000	0.000	1.000
1.A.1 Energy Industries, Other Fuels	CH4		0.047	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CH4	0.562	0.447	0.000	0.000	1.000
1.A.3.c Railways, Liquid Fuels	CH4	0.097	0.043	0.000	0.000	1.000
1.A.1 Energy Industries, Gaseous Fuels	N2O	0.106	0.112	0.000	0.000	1.000

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1.A.1 Energy Industries, Gaseous Fuels	CH4	0.089	0.094	0.000	0.000	1.000
1.A.3.a Civil Aviation	N2O	0.005	0.017	0.000	0.000	1.000
1.B.2.a Fugitive Emissions, Oil	CO2	0.011	0.020	0.000	0.000	1.000