

# ***NIR 2017, ANNEX 1***

**Key categories for 2015**

For determination of key 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<sub>x,t</sub>** is the Level Assessment for source x in year t

**Source Category Estimate** (*E<sub>x,t</sub>*) is the emission estimate of source category x in year t

**Total Estimate** (*E<sub>t</sub>*) 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<sub>x,t</sub>** is the contribution of the source category trend to the overall inventory trend, called the Trend Assessment.

**L<sub>x,0</sub>** is the Level Assessment for source x in the base year (year 0), derived with the Equation 4.1

**E<sub>x,t</sub>** and **E<sub>x,0</sub>** are the emissions estimates of category x in years t and 0, respectively

**E<sub>t</sub>** and **E<sub>0</sub>** are the total inventory estimates in years t and 0, respectively

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

KC 2015	IPCC Category	Gas	abs. E in 1986 (Gg CO2 eq)	abs. E in 2015 (Gg CO2 eq)	L2015	Cumulative total 2015
1	4.A.1 LULUCF, Forest Land remaining Forest Land	CO2	4212.989	4634.555	0.196	0.196
2	1.A.1 Energy Industries, Solid Fuels	CO2	6318.267	4302.718	0.182	0.378
3	1.A.3.b Road Transportation, Diesel Oil	CO2	632.950	3912.941	0.166	0.544
4	1.A.3.b Road Transportation, Gasoline	CO2	1272.478	1295.655	0.055	0.599
5	4.A.2 LULUCF, Land converted to Forest Land	CO2	236.643	1269.172	0.054	0.652
6	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CO2	1243.984	965.610	0.041	0.693
7	1.A.4 Other Sectors, Liquid Fuels	CO2	822.812	958.974	0.041	0.734
8	3.A Agriculture, Enteric Fermentation	CH4	981.810	932.513	0.039	0.773
9	2.A.1 Industrial processes, Cement Production	CO2	502.219	367.208	0.016	0.789
10	4.E LULUCF, Settlements	CO2	388.810	354.978	0.015	0.804
11	1.A.4 Other Sectors, Gaseous Fuels	CO2	34.106	352.671	0.015	0.819
12	5.A.1 Waste, Managed waste disposal sites	CH4	371.889	340.400	0.014	0.833
13	2.F.1 Industrial processes, Refrigeration and AC Equipment	HFC	NO	338.057	0.014	0.847
14	3.D.1 Agriculture, Direct Soil Emissions	N2O	344.916	334.443	0.014	0.862
15	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CO2	1689.284	306.375	0.013	0.875
16	3.B Agriculture, Manure Management	CH4	342.142	248.392	0.011	0.885
17	1.B.1.a Fugitive Emissions, Coal Mining and Handling	CH4	427.458	218.078	0.009	0.894
18	1.A.2 Manufacturing Industries and Construction, Solid Fuels	CO2	1467.570	202.771	0.009	0.903
19	1.A.1 Energy Industries, Gaseous Fuels	CO2	197.526	200.132	0.008	0.911
20	4.B.1 LULUCF, Cropland remaining Cropland	CO2	240.404	180.591	0.008	0.919
21	1.A.4 Other Sectors, Biomass	CH4	118.410	145.501	0.006	0.925
22	4.G LULUCF, Harvested wood products	CO2	457.001	129.041	0.005	0.931
23	4.C.1 LULUCF, Land converted to Grassland	CO2	270.364	124.488	0.005	0.936

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<b>24</b>	<b>2.C.3 Industrial processes, Aluminium Production</b>	<b>CO2</b>	<b>88.822</b>	<b>118.597</b>	<b>0.005</b>	<b>0.941</b>
<b>25</b>	<b>3.D.2 Agriculture, Indirect Emissions</b>	<b>N2O</b>	<b>119.760</b>	<b>111.344</b>	<b>0.005</b>	<b>0.946</b>
<b>26</b>	<b>3.B Agriculture, Manure Management</b>	<b>N2O</b>	<b>162.747</b>	<b>97.296</b>	<b>0.004</b>	<b>0.950</b>
<b>27</b>	<b>1.A.2 Manufacturing Industries and Construction, Other Fuels</b>	<b>CO2</b>	<b>7.494</b>	<b>94.787</b>	<b>0.004</b>	<b>0.954</b>
<b>28</b>	<b>5.D.1 Waste, Domestic and Commercial Waste Water</b>	<b>CH4</b>	<b>161.853</b>	<b>89.621</b>	<b>0.004</b>	<b>0.958</b>
<b>29</b>	<b>2.G.3 Industrial processes, N2O from product use</b>	<b>N2O</b>	<b>78.733</b>	<b>78.672</b>	<b>0.003</b>	<b>0.961</b>
<b>30</b>	<b>1.B.1.a Fugitive Emissions, Coal Mining and Handling</b>	<b>CO2</b>	<b>120.441</b>	<b>60.089</b>	<b>0.003</b>	<b>0.963</b>
<b>31</b>	<b>2.A.2 Industrial processes, Lime Production</b>	<b>CO2</b>	<b>214.363</b>	<b>60.001</b>	<b>0.003</b>	<b>0.966</b>
<b>32</b>	<b>1.B.1.a Fugitive Emissions, Other</b>	<b>CO2</b>	<b>NO</b>	<b>55.334</b>	<b>0.002</b>	<b>0.968</b>
<b>33</b>	<b>2.C.1 Industrial processes, Iron and Steel Production</b>	<b>CO2</b>	<b>36.645</b>	<b>53.282</b>	<b>0.002</b>	<b>0.971</b>
34	5.D.1 Waste, Domestic and Commercial Waste Water	N2O	49.507	48.901	0.002	0.973
35	2.B.6 Industrial processes, Titanium dioxide production	CO2	17.403	48.229	0.002	0.975
36	1.A.3.b Road Transportation, Diesel Oil	N2O	7.655	44.658	0.002	0.977
37	1.A.3.b Road Transportation, LPG	CO2	NO	40.431	0.002	0.978
38	1.A.3.c Railways, Liquid Fuels	CO2	68.926	36.617	0.002	0.980
39	4. LULUCF, N2O emissions from managed soils	N2O	51.374	35.300	0.001	0.981
40	1.B.2.b Fugitive Emissions, Natural Gas	CH4	35.094	30.286	0.001	0.983
41	5.C.1 Waste, Waste Incineration	CO2	1.995	27.264	0.001	0.984
42	4.D LULUCF, Wetlands	CO2	0.407	25.551	0.001	0.985
43	1.A.4 Other Sectors, Liquid Fuels	N2O	46.089	25.160	0.001	0.986
44	4.B.2 LULUCF, Land converted to Cropland	CO2	164.474	23.836	0.001	0.987
45	1.A.4 Other Sectors, Biomass	N2O	18.819	23.128	0.001	0.988
46	1.A.1 Energy Industries, Liquid Fuels	CO2	296.067	22.086	0.001	0.989
47	4.F LULUCF, Other Land	CO2	13.237	20.114	0.001	0.990
48	1.A.1 Energy Industries, Solid Fuels	N2O	26.191	18.897	0.001	0.991
49	2.D.1 Industrial processes, Lubricant use	CO2	3.826	15.856	0.001	0.991
50	2.C.3 Industrial processes, Aluminium Production	PFC	233.193	15.740	0.001	0.992
51	2.A.4 Industrial processes, Other process uses of carbonates	CO2	22.130	15.555	0.001	0.992

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52	2.G.1 Industrial processes, Electrical Equipment	SF6	9.770	14.744	0.001	0.993
53	1.A.1 Energy Industries, Other Fuels	CO2	NO	12.554	0.001	0.994
54	2.C.7 Industrial processes, Other - Anode burned off	CO2	NO	11.384	0.000	0.994
55	3.G Agriculture, Liming	CO2	44.000	10.780	0.000	0.995
56	2.A.3 Industrial processes, Limestone and Dolomite Use	CO2	4.483	10.138	0.000	0.995
57	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	N2O	26.305	9.051	0.000	0.995
58	3.H Urea application	CO2	9.087	8.744	0.000	0.996
59	5.B.1 Waste, Composting	CH4	NO	7.237	0.000	0.996
60	2.C.5 Industrial processes, Lead production	CO2	11.124	6.774	0.000	0.996
61	5.B.1 Waste, Composting	N2O	NO	5.176	0.000	0.997
62	1.B.2.c Fugitive Emissions, Venting and Flaring	CH4	6.720	5.164	0.000	0.997
63	2.D.2 Industrial processes, Paraffin wax use	CO2	4.267	4.946	0.000	0.997
64	2.F.4 Industrial processes, Aerosols	HFC	NO	4.897	0.000	0.997
65	1.A.3.b Road Transportation, Lubricants	CO2	0.323	4.849	0.000	0.997
66	1.A.3.b Road Transportation, Gasoline	CH4	20.628	4.837	0.000	0.998
67	1.A.2 Manufacturing Industries and Construction, Biomass	N2O	6.006	4.553	0.000	0.998
68	1.A.3.b Road Transportation, Gasoline	N2O	15.131	4.470	0.000	0.998
69	1.A.3.c Railways, Liquid Fuels	N2O	7.928	4.212	0.000	0.998
70	1.A.5 Other Mobile, Liquid Fuels	CO2	41.093	3.670	0.000	0.998
71	1.A.4 Other Sectors, Liquid Fuels	CH4	2.958	2.995	0.000	0.998
72	1.A.3.b Other Transportation, Gaseous Fuels	CO2	NO	2.934	0.000	0.999
73	1.A.2 Manufacturing Industries and Construction, Biomass	CH4	3.779	2.865	0.000	0.999
74	1.A.3.b Road Transportation, Biomass	N2O	NO	2.816	0.000	0.999
75	2.C.6 Industrial processes, Zinc production	CO2	6.307	2.657	0.000	0.999
76	2.D.3 Industrial processes, Other	CO2	NO	2.266	0.000	0.999
77	1.A.1 Energy Industries, Biomass	N2O	0.189	2.194	0.000	0.999
78	5.D.2 Waste, Industrial Wastewater	CH4	7.771	2.103	0.000	0.999
79	1.A.3.a Civil Aviation	CO2	0.609	1.964	0.000	0.999

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80	2.F.2 Industrial processes, Foam Blowing agents	HFC	NO	1.777	0.000	0.999
81	1.A.2 Manufacturing Industries and Construction, Other Fuels	N2O	0.154	1.521	0.000	0.999
82	2.F.3 Industrial processes, Fire Protection	HFC	NO	1.483	0.000	1.000
83	1.A.1 Energy Industries, Biomass	CH4	0.119	1.385	0.000	1.000
84	1.A.3.b Road Transportation, Diesel Oil	CH4	1.695	1.378	0.000	1.000
85	1.A.1 Energy Industries, Solid Fuels	CH4	1.465	1.057	0.000	1.000
86	1.A.2 Manufacturing Industries and Construction, Other Fuels	CH4	0.097	0.957	0.000	1.000
87	1.A.2 Manufacturing Industries and Construction, Solid Fuels	N2O	6.262	0.886	0.000	1.000
88	1.A.4 Other Sectors, Gaseous Fuels	CH4	0.077	0.797	0.000	1.000
89	1.A.4 Other Sectors, Solid Fuels	CO2	1316.380	0.769	0.000	1.000
90	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	N2O	0.670	0.520	0.000	1.000
91	1.A.2 Manufacturing Industries and Construction, Solid Fuels	CH4	3.502	0.495	0.000	1.000
92	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CH4	0.562	0.437	0.000	1.000
93	1.A.3.b Road Transportation, LPG	N2O	NO	0.364	0.000	1.000
94	1.A.3.b Road Transportation, CNG	CO2	NO	0.335	0.000	1.000
95	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CH4	2.825	0.294	0.000	1.000
96	4.A.1 LULUCF, Forest Land remaining Forest Land	CH4	NO	0.243	0.000	1.000
97	1.A.1 Energy Industries, Other Fuels	N2O	NO	0.204	0.000	1.000
98	1.A.4 Other Sectors, Gaseous Fuels	N2O	0.018	0.190	0.000	1.000
99	4.A.1 LULUCF, Forest Land remaining Forest Land	N2O	NO	0.160	0.000	1.000
100	1.A.3.b Road Transportation, LPG	CH4	NO	0.149	0.000	1.000
101	1.A.3.b Road Transportation, Biomass	CH4	NO	0.135	0.000	1.000
102	1.A.3.b Road Transportation, CNG	CH4	NO	0.128	0.000	1.000
103	1.A.1 Energy Industries, Gaseous Fuels	N2O	0.106	0.108	0.000	1.000
104	5.C.1 Waste, Waste Incineration	N2O	0.007	0.107	0.000	1.000
105	1.A.1 Energy Industries, Gaseous Fuels	CH4	0.089	0.090	0.000	1.000
106	1.A.4 Other Sectors, Solid Fuels	CH4	58.662	0.060	0.000	1.000
107	1.A.1 Energy Industries, Liquid Fuels	N2O	0.681	0.053	0.000	1.000

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108	1.A.3.c Railways, Liquid Fuels	CH4	0.097	0.051	0.000	1.000
109	1.A.1 Energy Industries, Other Fuels	CH4	NO	0.043	0.000	1.000
110	1.B.2.b Fugitive Emissions, Natural Gas	CO2	0.044	0.042	0.000	1.000
111	1.A.5 Other Mobile, Liquid Fuels	N2O	0.343	0.031	0.000	1.000
112	1.A.1 Energy Industries, Liquid Fuels	CH4	0.286	0.022	0.000	1.000
113	1.B.2.a Fugitive Emissions, Oil	CO2	0.011	0.020	0.000	1.000
114	1.A.3.a Civil Aviation	N2O	0.005	0.017	0.000	1.000
115	1.B.2.c Fugitive Emissions, Venting and Flaring	CO2	0.160	0.006	0.000	1.000
116	1.A.4 Other Sectors, Solid Fuels	N2O	5.569	0.004	0.000	1.000
117	5.C.1 Waste, Waste Incineration	CH4	0.000	0.002	0.000	1.000
118	1.A.3.b Other Transportation, Gaseous Fuels	N2O	NO	0.002	0.000	1.000
119	1.A.3.b Other Transportation, Gaseous Fuels	CH4	NO	0.001	0.000	1.000
120	1.A.5 Other Mobile, Liquid Fuels	CH4	0.007	0.001	0.000	1.000
121	1.A.3.a Civil Aviation	CH4	0.000	0.000	0.000	1.000
122	1.B.2.c Fugitive Emissions, Venting and Flaring	N2O	0.001	0.000	0.000	1.000

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

KC 2015	IPCC Category	Gas	abs. E in 1986 (Gg CO2 eq)	abs. E in 2015 (Gg CO2 eq)	Level 2015	Cumulative total 2015
1	1.A.1 Energy Industries, Solid Fuels	CO2	6318.267	4302.718	0.256	0.256
2	1.A.3.b Road Transportation, Diesel Oil	CO2	632.950	3912.941	0.232	0.488
3	1.A.3.b Road Transportation, Gasoline	CO2	1272.478	1295.655	0.077	0.565
4	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CO2	1243.984	965.610	0.057	0.622
5	1.A.4 Other Sectors, Liquid Fuels	CO2	822.812	958.974	0.057	0.679
6	3.A Agriculture, Enteric Fermentation	CH4	981.810	932.513	0.055	0.735
7	2.A.1 Industrial processes, Cement Production	CO2	502.219	367.208	0.022	0.757
8	1.A.4 Other Sectors, Gaseous Fuels	CO2	34.106	352.671	0.021	0.778
9	5.A.1 Waste, Managed waste disposal sites	CH4	371.889	340.400	0.020	0.798
10	2.F.1 Industrial processes, Refrigeration and AC Equipment	HFC		338.057	0.020	0.818
11	3.D.1 Agriculture, Direct Soil Emissions	N2O	344.916	334.443	0.020	0.838
12	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CO2	1689.284	306.375	0.018	0.856
13	3.B Agriculture, Manure Management	CH4	342.142	248.392	0.015	0.871
14	1.B.1.a Fugitive Emissions, Coal Mining and Handling	CH4	427.458	218.078	0.013	0.884
15	1.A.2 Manufacturing Industries and Construction, Solid Fuels	CO2	1467.570	202.771	0.012	0.896
16	1.A.1 Energy Industries, Gaseous Fuels	CO2	197.526	200.132	0.012	0.908
17	1.A.4 Other Sectors, Biomass	CH4	118.410	145.501	0.009	0.916
18	2.C.3 Industrial processes, Aluminium Production	CO2	88.822	118.597	0.007	0.923
19	3.D.2 Agriculture, Indirect Emissions	N2O	119.760	111.344	0.007	0.930
20	3.B Agriculture, Manure Management	N2O	162.747	97.296	0.006	0.936
21	1.A.2 Manufacturing Industries and Construction, Other Fuels	CO2	7.494	94.787	0.006	0.941
22	5.D.1 Waste, Domestic and Commercial Waste Water	CH4	161.853	89.621	0.005	0.947
23	2.G.3 Industrial processes, N2O from product use	N2O	78.733	78.672	0.005	0.951



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24	1.B.1.a Fugitive Emissions, Coal Mining and Handling	CO2	120.441	60.089	0.004	0.955
25	2.A.2 Industrial processes, Lime Production	CO2	214.363	60.001	0.004	0.959
26	1.B.1.a Fugitive Emissions, Other	CO2		55.334	0.003	0.962
27	2.C.1 Industrial processes, Iron and Steel Production	CO2	36.645	53.282	0.003	0.965
28	5.D.1 Waste, Domestic and Commercial Waste Water	N2O	49.507	48.901	0.003	0.968
29	2.B.6 Industrial processes, Titanium dioxide production	CO2	17.403	48.229	0.003	0.971
30	1.A.3.b Road Transportation, Diesel Oil	N2O	7.655	44.658	0.003	0.973
31	1.A.3.b Road Transportation, LPG	CO2		40.431	0.002	0.976
32	1.A.3.c Railways, Liquid Fuels	CO2	68.926	36.617	0.002	0.978
33	1.B.2.b Fugitive Emissions, Natural Gas	CH4	35.094	30.286	0.002	0.980
34	5.C.1 Waste, Waste Incineration	CO2	1.995	27.264	0.002	0.981
35	1.A.4 Other Sectors, Liquid Fuels	N2O	46.089	25.160	0.001	0.983
36	1.A.4 Other Sectors, Biomass	N2O	18.819	23.128	0.001	0.984
37	1.A.1 Energy Industries, Liquid Fuels	CO2	296.067	22.086	0.001	0.986
38	1.A.1 Energy Industries, Solid Fuels	N2O	26.191	18.897	0.001	0.987
39	2.D.1 Industrial processes, Lubricant use	CO2	3.826	15.856	0.001	0.988
40	2.C.3 Industrial processes, Aluminium Production	PFC	233.193	15.740	0.001	0.989
41	2.A.4 Industrial processes, Other process uses of carbonates	CO2	22.130	15.555	0.001	0.989
42	2.G.1 Industrial processes, Electrical Equipment	SF6	9.770	14.744	0.001	0.990
43	1.A.1 Energy Industries, Other Fuels	CO2		12.554	0.001	0.991
44	2.C.7 Industrial processes, Other - Anode burned off	CO2		11.384	0.001	0.992
45	3.G Agriculture, Liming	CO2	44.000	10.780	0.001	0.992
46	2.A.3 Industrial processes, Limestone and Dolomite Use	CO2	4.483	10.138	0.001	0.993
47	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	N2O	26.305	9.051	0.001	0.994
48	3.H Urea application	CO2	9.087	8.744	0.001	0.994
49	5.B.1 Waste, Composting	CH4		7.237	0.000	0.995
50	2.C.5 Industrial processes, Lead production	CO2	11.124	6.774	0.000	0.995
51	5.B.1 Waste, Composting	N2O		5.176	0.000	0.995

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52	1.B.2.c Fugitive Emissions, Venting and Flaring	CH4	6.720	5.164	0.000	0.996
53	2.D.2 Industrial processes, Paraffin wax use	CO2	4.267	4.946	0.000	0.996
54	2.F.4 Industrial processes, Aerosols	HFC		4.897	0.000	0.996
55	1.A.3.b Road Transportation, Lubricants	CO2	0.323	4.849	0.000	0.996
56	1.A.3.b Road Transportation, Gasoline	CH4	20.628	4.837	0.000	0.997
57	1.A.2 Manufacturing Industries and Construction, Biomass	N2O	6.006	4.553	0.000	0.997
58	1.A.3.b Road Transportation, Gasoline	N2O	15.131	4.470	0.000	0.997
59	1.A.3.c Railways, Liquid Fuels	N2O	7.928	4.212	0.000	0.997
60	1.A.5 Other Mobile, Liquid Fuels	CO2	41.093	3.670	0.000	0.998
61	1.A.4 Other Sectors, Liquid Fuels	CH4	2.958	2.995	0.000	0.998
62	1.A.3.b Other Transportation, Gaseous Fuels	CO2		2.934	0.000	0.998
63	1.A.2 Manufacturing Industries and Construction, Biomass	CH4	3.779	2.865	0.000	0.998
64	1.A.3.b Road Transportation, Biomass	N2O		2.816	0.000	0.998
65	2.C.6 Industrial processes, Zinc production	CO2	6.307	2.657	0.000	0.999
66	2.D.3 Industrial processes, Other	CO2		2.266	0.000	0.999
67	1.A.1 Energy Industries, Biomass	N2O	0.189	2.194	0.000	0.999
68	5.D.2 Waste, Industrial Wastewater	CH4	7.771	2.103	0.000	0.999
69	1.A.3.a Civil Aviation	CO2	0.609	1.964	0.000	0.999
70	2.F.2 Industrial processes, Foam Blowing agents	HFC		1.777	0.000	0.999
71	1.A.2 Manufacturing Industries and Construction, Other Fuels	N2O	0.154	1.521	0.000	0.999
72	2.F.3 Industrial processes, Fire Protection	HFC		1.483	0.000	0.999
73	1.A.1 Energy Industries, Biomass	CH4	0.119	1.385	0.000	0.999
74	1.A.3.b Road Transportation, Diesel Oil	CH4	1.695	1.378	0.000	1.000
75	1.A.1 Energy Industries, Solid Fuels	CH4	1.465	1.057	0.000	1.000
76	1.A.2 Manufacturing Industries and Construction, Other Fuels	CH4	0.097	0.957	0.000	1.000
77	1.A.2 Manufacturing Industries and Construction, Solid Fuels	N2O	6.262	0.886	0.000	1.000
78	1.A.4 Other Sectors, Gaseous Fuels	CH4	0.077	0.797	0.000	1.000
79	1.A.4 Other Sectors, Solid Fuels	CO2	1316.380	0.769	0.000	1.000

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80	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	N2O	0.670	0.520	0.000	1.000
81	1.A.2 Manufacturing Industries and Construction, Solid Fuels	CH4	3.502	0.495	0.000	1.000
82	1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CH4	0.562	0.437	0.000	1.000
83	1.A.3.b Road Transportation, LPG	N2O		0.364	0.000	1.000
84	1.A.3.b Road Transportation, CNG	CO2		0.335	0.000	1.000
85	1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CH4	2.825	0.294	0.000	1.000
86	1.A.1 Energy Industries, Other Fuels	N2O		0.204	0.000	1.000
87	1.A.4 Other Sectors, Gaseous Fuels	N2O	0.018	0.190	0.000	1.000
88	1.A.3.b Road Transportation, LPG	CH4		0.149	0.000	1.000
89	1.A.3.b Road Transportation, Biomass	CH4		0.135	0.000	1.000
90	1.A.3.b Road Transportation, CNG	CH4		0.128	0.000	1.000
91	1.A.1 Energy Industries, Gaseous Fuels	N2O	0.106	0.108	0.000	1.000
92	5.C.1 Waste, Waste Incineration	N2O	0.007	0.107	0.000	1.000
93	1.A.1 Energy Industries, Gaseous Fuels	CH4	0.089	0.090	0.000	1.000
94	1.A.4 Other Sectors, Solid Fuels	CH4	58.662	0.060	0.000	1.000
95	1.A.1 Energy Industries, Liquid Fuels	N2O	0.681	0.053	0.000	1.000
96	1.A.3.c Railways, Liquid Fuels	CH4	0.097	0.051	0.000	1.000
97	1.A.1 Energy Industries, Other Fuels	CH4		0.043	0.000	1.000
98	1.B.2.b Fugitive Emissions, Natural Gas	CO2	0.044	0.042	0.000	1.000
99	1.A.5 Other Mobile, Liquid Fuels	N2O	0.343	0.031	0.000	1.000
100	1.A.1 Energy Industries, Liquid Fuels	CH4	0.286	0.022	0.000	1.000
101	1.B.2.a Fugitive Emissions, Oil	CO2	0.011	0.020	0.000	1.000
102	1.A.3.a Civil Aviation	N2O	0.005	0.017	0.000	1.000
103	1.B.2.c Fugitive Emissions, Venting and Flaring	CO2	0.160	0.006	0.000	1.000
104	1.A.4 Other Sectors, Solid Fuels	N2O	5.569	0.004	0.000	1.000
105	5.C.1 Waste, Waste Incineration	CH4	0.000	0.002	0.000	1.000
106	1.A.3.b Other Transportation, Gaseous Fuels	N2O		0.002	0.000	1.000
107	1.A.3.b Other Transportation, Gaseous Fuels	CH4		0.001	0.000	1.000

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108	1.A.5 Other Mobile, Liquid Fuels	CH4	0.007	0.001	0.000	1.000
109	1.A.3.a Civil Aviation	CH4	0.000	0.000	0.000	1.000
110	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 CO <sub>2</sub> eq)	abs. E in 2015 (Gg CO <sub>2</sub> eq)	Trend Assessment	Contribution to the trend	Cumulative total
1.A.3.b Road Transportation, Diesel Oil	CO <sub>2</sub>	632.950	3912.941	0.128	0.241	0.241
1.A.1 Energy Industries, Solid Fuels	CO <sub>2</sub>	6318.267	4302.718	0.056	0.104	0.345
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CO <sub>2</sub>	1689.284	306.375	0.047	0.089	0.434
1.A.4 Other Sectors, Solid Fuels	CO <sub>2</sub>	1316.380	0.769	0.046	0.086	0.520
1.A.2 Manufacturing Industries and Construction, Solid Fuels	CO <sub>2</sub>	1467.570	202.771	0.044	0.082	0.602
4.A.2 LULUCF, Land converted to Forest Land	CO <sub>2</sub>	236.643	1269.172	0.041	0.076	0.678
4.A.1 LULUCF, Forest Land remaining Forest Land	CO <sub>2</sub>	4212.989	4634.555	0.031	0.058	0.736
2.F.1 Industrial processes, Refrigeration and AC Equipment	HFC		338.057	0.013	0.024	0.760
1.A.4 Other Sectors, Gaseous Fuels	CO <sub>2</sub>	34.106	352.671	0.012	0.023	0.783
4.G LULUCF, Harvested wood products	CO <sub>2</sub>	457.001	129.041	0.011	0.021	0.804
1.A.1 Energy Industries, Liquid Fuels	CO <sub>2</sub>	296.067	22.086	0.010	0.018	0.822
1.A.4 Other Sectors, Liquid Fuels	CO <sub>2</sub>	822.812	958.974	0.008	0.015	0.837
2.C.3 Industrial processes, Aluminium Production	PFC	233.193	15.740	0.008	0.014	0.851
1.B.1.a Fugitive Emissions, Coal Mining and Handling	CH <sub>4</sub>	427.458	218.078	0.007	0.012	0.863
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CO <sub>2</sub>	1243.984	965.610	0.006	0.012	0.875
1.A.3.b Road Transportation, Gasoline	CO <sub>2</sub>	1272.478	1295.655	0.005	0.010	0.885
2.A.2 Industrial processes, Lime Production	CO <sub>2</sub>	214.363	60.001	0.005	0.010	0.895
4.B.2 LULUCF, Land converted to Cropland	CO <sub>2</sub>	164.474	23.836	0.005	0.009	0.904
4.C.1 LULUCF, Land converted to Grassland	CO <sub>2</sub>	270.364	124.488	0.005	0.009	0.913
2.A.1 Industrial processes, Cement Production	CO <sub>2</sub>	502.219	367.208	0.003	0.006	0.919

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<b>1.A.2 Manufacturing Industries and Construction, Other Fuels</b>	<b>CO2</b>	<b>7.494</b>	<b>94.787</b>	<b>0.003</b>	<b>0.006</b>	<b>0.926</b>
<b>3.B Agriculture, Manure Management</b>	<b>CH4</b>	<b>342.142</b>	<b>248.392</b>	<b>0.002</b>	<b>0.005</b>	<b>0.930</b>
<b>5.D.1 Waste, Domestic and Commercial Waste Water</b>	<b>CH4</b>	<b>161.853</b>	<b>89.621</b>	<b>0.002</b>	<b>0.004</b>	<b>0.934</b>
<b>1.B.1.a Fugitive Emissions, Other</b>	<b>CO2</b>		<b>55.334</b>	<b>0.002</b>	<b>0.004</b>	<b>0.938</b>
<b>1.A.4 Other Sectors, Solid Fuels</b>	<b>CH4</b>	<b>58.662</b>	<b>0.060</b>	<b>0.002</b>	<b>0.004</b>	<b>0.942</b>
<b>3.B Agriculture, Manure Management</b>	<b>N2O</b>	<b>162.747</b>	<b>97.296</b>	<b>0.002</b>	<b>0.004</b>	<b>0.946</b>
<b>1.B.1.a Fugitive Emissions, Coal Mining and Handling</b>	<b>CO2</b>	<b>120.441</b>	<b>60.089</b>	<b>0.002</b>	<b>0.004</b>	<b>0.950</b>
1.A.3.b Road Transportation, LPG	CO2		40.431	0.002	0.003	0.952
3.A Agriculture, Enteric Fermentation	CH4	981.810	932.513	0.002	0.003	0.955
4.B.1 LULUCF, Cropland remaining Cropland	CO2	240.404	180.591	0.001	0.003	0.958
2.C.3 Industrial processes, Aluminium Production	CO2	88.822	118.597	0.001	0.003	0.961
1.A.4 Other Sectors, Biomass	CH4	118.410	145.501	0.001	0.003	0.964
1.A.3.b Road Transportation, Diesel Oil	N2O	7.655	44.658	0.001	0.003	0.966
1.A.5 Other Mobile, Liquid Fuels	CO2	41.093	3.670	0.001	0.002	0.969
2.B.6 Industrial processes, Titanium dioxide production	CO2	17.403	48.229	0.001	0.002	0.971
3.G Agriculture, Liming	CO2	44.000	10.780	0.001	0.002	0.973
1.A.3.c Railways, Liquid Fuels	CO2	68.926	36.617	0.001	0.002	0.975
5.C.1 Waste, Waste Incineration	CO2	1.995	27.264	0.001	0.002	0.977
4.D LULUCF, Wetlands	CO2	0.407	25.551	0.001	0.002	0.979
3.D.1 Agriculture, Direct Soil Emissions	N2O	344.916	334.443	0.001	0.001	0.980
1.A.1 Energy Industries, Gaseous Fuels	CO2	197.526	200.132	0.001	0.001	0.982
2.C.1 Industrial processes, Iron and Steel Production	CO2	36.645	53.282	0.001	0.001	0.983
1.A.4 Other Sectors, Liquid Fuels	N2O	46.089	25.160	0.001	0.001	0.984
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	N2O	26.305	9.051	0.001	0.001	0.985
1.A.3.b Road Transportation, Gasoline	CH4	20.628	4.837	0.001	0.001	0.986
1.A.1 Energy Industries, Other Fuels	CO2		12.554	0.000	0.001	0.987
2.D.1 Industrial processes, Lubricant use	CO2	3.826	15.856	0.000	0.001	0.988
4. LULUCF, N2O emissions from managed soils	N2O	51.374	35.300	0.000	0.001	0.989

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2.C.7 Industrial processes, Other - Anode burned off	CO2		11.384	0.000	0.001	0.990
1.A.3.b Road Transportation, Gasoline	N2O	15.131	4.470	0.000	0.001	0.990
4.F LULUCF, Other Land	CO2	13.237	20.114	0.000	0.001	0.991
5.B.1 Waste, Composting	CH4		7.237	0.000	0.001	0.992
2.G.3 Industrial processes, N2O from product use	N2O	78.733	78.672	0.000	0.001	0.992
2.A.3 Industrial processes, Limestone and Dolomite Use	CO2	4.483	10.138	0.000	0.000	0.993
1.A.4 Other Sectors, Biomass	N2O	18.819	23.128	0.000	0.000	0.993
2.G.1 Industrial processes, Electrical Equipment	SF6	9.770	14.744	0.000	0.000	0.993
5.B.1 Waste, Composting	N2O		5.176	0.000	0.000	0.994
1.A.4 Other Sectors, Solid Fuels	N2O	5.569	0.004	0.000	0.000	0.994
5.D.2 Waste, Industrial Wastewater	CH4	7.771	2.103	0.000	0.000	0.994
1.A.1 Energy Industries, Solid Fuels	N2O	26.191	18.897	0.000	0.000	0.995
2.F.4 Industrial processes, Aerosols	HFC		4.897	0.000	0.000	0.995
1.A.2 Manufacturing Industries and Construction, Solid Fuels	N2O	6.262	0.886	0.000	0.000	0.996
2.A.4 Industrial processes, Other process uses of carbonates	CO2	22.130	15.555	0.000	0.000	0.996
1.A.3.b Road Transportation, Lubricants	CO2	0.323	4.849	0.000	0.000	0.996
5.D.1 Waste, Domestic and Commercial Waste Water	N2O	49.507	48.901	0.000	0.000	0.996
2.C.5 Industrial processes, Lead production	CO2	11.124	6.774	0.000	0.000	0.997
2.C.6 Industrial processes, Zinc production	CO2	6.307	2.657	0.000	0.000	0.997
1.A.3.c Railways, Liquid Fuels	N2O	7.928	4.212	0.000	0.000	0.997
1.A.3.b Other Transportation, Gaseous Fuels	CO2		2.934	0.000	0.000	0.997
1.A.3.b Road Transportation, Biomass	N2O		2.816	0.000	0.000	0.998
1.A.2 Manufacturing Industries and Construction, Solid Fuels	CH4	3.502	0.495	0.000	0.000	0.998
3.D.2 Agriculture, Indirect Emissions	N2O	119.760	111.344	0.000	0.000	0.998
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CH4	2.825	0.294	0.000	0.000	0.998
2.D.3 Industrial processes, Other	CO2		2.266	0.000	0.000	0.998
5.A.1 Waste, Managed waste disposal sites	CH4	371.889	340.400	0.000	0.000	0.998
1.A.1 Energy Industries, Biomass	N2O	0.189	2.194	0.000	0.000	0.999

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2.F.2 Industrial processes, Foam Blowing agents	HFC		1.777	0.000	0.000	0.999
1.B.2.b Fugitive Emissions, Natural Gas	CH4	35.094	30.286	0.000	0.000	0.999
2.F.3 Industrial processes, Fire Protection	HFC		1.483	0.000	0.000	0.999
1.A.3.a Civil Aviation	CO2	0.609	1.964	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Other Fuels	N2O	0.154	1.521	0.000	0.000	0.999
4.E LULUCF, Settlements	CO2	388.810	354.978	0.000	0.000	0.999
1.A.1 Energy Industries, Biomass	CH4	0.119	1.385	0.000	0.000	0.999
2.D.2 Industrial processes, Paraffin wax use	CO2	4.267	4.946	0.000	0.000	0.999
1.B.2.c Fugitive Emissions, Venting and Flaring	CH4	6.720	5.164	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Biomass	N2O	6.006	4.553	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Other Fuels	CH4	0.097	0.957	0.000	0.000	1.000
1.A.4 Other Sectors, Gaseous Fuels	CH4	0.077	0.797	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Biomass	CH4	3.779	2.865	0.000	0.000	1.000
1.A.1 Energy Industries, Liquid Fuels	N2O	0.681	0.053	0.000	0.000	1.000
3.H Urea application	CO2	9.087	8.744	0.000	0.000	1.000
1.A.3.b Road Transportation, LPG	N2O		0.364	0.000	0.000	1.000
1.A.3.b Road Transportation, CNG	CO2		0.335	0.000	0.000	1.000
1.A.4 Other Sectors, Liquid Fuels	CH4	2.958	2.995	0.000	0.000	1.000
1.A.5 Other Mobile, Liquid Fuels	N2O	0.343	0.031	0.000	0.000	1.000
1.A.1 Energy Industries, Solid Fuels	CH4	1.465	1.057	0.000	0.000	1.000
4.A.1 LULUCF, Forest Land remaining Forest Land	CH4		0.243	0.000	0.000	1.000
1.A.1 Energy Industries, Liquid Fuels	CH4	0.286	0.022	0.000	0.000	1.000
1.A.1 Energy Industries, Other Fuels	N2O		0.204	0.000	0.000	1.000
1.A.4 Other Sectors, Gaseous Fuels	N2O	0.018	0.190	0.000	0.000	1.000
1.A.3.b Road Transportation, Diesel Oil	CH4	1.695	1.378	0.000	0.000	1.000
4.A.1 LULUCF, Forest Land remaining Forest Land	N2O		0.160	0.000	0.000	1.000
1.A.3.b Road Transportation, LPG	CH4		0.149	0.000	0.000	1.000
1.B.2.c Fugitive Emissions, Venting and Flaring	CO2	0.160	0.006	0.000	0.000	1.000



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1.A.3.b Road Transportation, Biomass	CH4		0.135	0.000	0.000	1.000
1.A.3.b Road Transportation, CNG	CH4		0.128	0.000	0.000	1.000
5.C.1 Waste, Waste Incineration	N2O	0.007	0.107	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	N2O	0.670	0.520	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CH4	0.562	0.437	0.000	0.000	1.000
1.A.1 Energy Industries, Other Fuels	CH4		0.043	0.000	0.000	1.000
1.A.3.c Railways, Liquid Fuels	CH4	0.097	0.051	0.000	0.000	1.000
1.A.3.a Civil Aviation	N2O	0.005	0.017	0.000	0.000	1.000
1.A.1 Energy Industries, Gaseous Fuels	N2O	0.106	0.108	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.A.1 Energy Industries, Gaseous Fuels	CH4	0.089	0.090	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.B.2.b Fugitive Emissions, Natural Gas	CO2	0.044	0.042	0.000	0.000	1.000
5.C.1 Waste, Waste Incineration	CH4	0.000	0.002	0.000	0.000	1.000
1.A.3.b Other Transportation, Gaseous Fuels	N2O		0.002	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

Table 4: Key categories - trend assessment (w/o 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	3912.941	0.168	0.318	0.318
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CO2	1689.284	306.375	0.054	0.103	0.422
1.A.4 Other Sectors, Solid Fuels	CO2	1316.380	0.769	0.054	0.103	0.525
1.A.2 Manufacturing Industries and Construction, Solid Fuels	CO2	1467.570	202.771	0.050	0.096	0.620
1.A.1 Energy Industries, Solid Fuels	CO2	6318.267	4302.718	0.047	0.090	0.710
2.F.1 Industrial processes, Refrigeration and AC Equipment	HFC		338.057	0.017	0.032	0.742
1.A.4 Other Sectors, Gaseous Fuels	CO2	34.106	352.671	0.016	0.030	0.773
1.A.4 Other Sectors, Liquid Fuels	CO2	822.812	958.974	0.014	0.026	0.798
1.A.3.b Road Transportation, Gasoline	CO2	1272.478	1295.655	0.012	0.022	0.821
1.A.1 Energy Industries, Liquid Fuels	CO2	296.067	22.086	0.011	0.021	0.842
2.C.3 Industrial processes, Aluminium Production	PFC	233.193	15.740	0.009	0.017	0.859
1.B.1.a Fugitive Emissions, Coal Mining and Handling	CH4	427.458	218.078	0.007	0.013	0.872
2.A.2 Industrial processes, Lime Production	CO2	214.363	60.001	0.006	0.011	0.883
3.A Agriculture, Enteric Fermentation	CH4	981.810	932.513	0.006	0.011	0.893
1.A.2 Manufacturing Industries and Construction, Other Fuels	CO2	7.494	94.787	0.004	0.008	0.902
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CO2	1243.984	965.610	0.003	0.007	0.908
1.B.1.a Fugitive Emissions, Other	CO2		55.334	0.003	0.005	0.914
2.A.1 Industrial processes, Cement Production	CO2	502.219	367.208	0.003	0.005	0.918
1.A.4 Other Sectors, Solid Fuels	CH4	58.662	0.060	0.002	0.005	0.923
3.D.1 Agriculture, Direct Soil Emissions	N2O	344.916	334.443	0.002	0.004	0.927
1.A.4 Other Sectors, Biomass	CH4	118.410	145.501	0.002	0.004	0.932

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<b>5.D.1 Waste, Domestic and Commercial Waste Water</b>	<b>CH4</b>	<b>161.853</b>	<b>89.621</b>	<b>0.002</b>	<b>0.004</b>	<b>0.936</b>
<b>2.C.3 Industrial processes, Aluminium Production</b>	<b>CO2</b>	<b>88.822</b>	<b>118.597</b>	<b>0.002</b>	<b>0.004</b>	<b>0.940</b>
<b>1.A.3.b Road Transportation, LPG</b>	<b>CO2</b>		<b>40.431</b>	<b>0.002</b>	<b>0.004</b>	<b>0.944</b>
<b>1.B.1.a Fugitive Emissions, Coal Mining and Handling</b>	<b>CO2</b>	<b>120.441</b>	<b>60.089</b>	<b>0.002</b>	<b>0.004</b>	<b>0.948</b>
<b>1.A.3.b Road Transportation, Diesel Oil</b>	<b>N2O</b>	<b>7.655</b>	<b>44.658</b>	<b>0.002</b>	<b>0.004</b>	<b>0.951</b>
3.B Agriculture, Manure Management	N2O	162.747	97.296	0.002	0.004	0.955
3.B Agriculture, Manure Management	CH4	342.142	248.392	0.002	0.003	0.958
1.A.1 Energy Industries, Gaseous Fuels	CO2	197.526	200.132	0.002	0.003	0.962
2.B.6 Industrial processes, Titanium dioxide production	CO2	17.403	48.229	0.002	0.003	0.965
5.A.1 Waste, Managed waste disposal sites	CH4	371.889	340.400	0.002	0.003	0.968
1.A.5 Other Mobile, Liquid Fuels	CO2	41.093	3.670	0.002	0.003	0.971
3.G Agriculture, Liming	CO2	44.000	10.780	0.001	0.002	0.973
5.C.1 Waste, Waste Incineration	CO2	1.995	27.264	0.001	0.002	0.976
2.C.1 Industrial processes, Iron and Steel Production	CO2	36.645	53.282	0.001	0.002	0.978
1.A.3.c Railways, Liquid Fuels	CO2	68.926	36.617	0.001	0.002	0.980
1.A.4 Other Sectors, Liquid Fuels	N2O	46.089	25.160	0.001	0.001	0.981
2.G.3 Industrial processes, N2O from product use	N2O	78.733	78.672	0.001	0.001	0.982
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	N2O	26.305	9.051	0.001	0.001	0.983
2.D.1 Industrial processes, Lubricant use	CO2	3.826	15.856	0.001	0.001	0.985
1.A.1 Energy Industries, Other Fuels	CO2		12.554	0.001	0.001	0.986
1.A.3.b Road Transportation, Gasoline	CH4	20.628	4.837	0.001	0.001	0.987
3.D.2 Agriculture, Indirect Emissions	N2O	119.760	111.344	0.001	0.001	0.988
2.C.7 Industrial processes, Other - Anode burned off	CO2		11.384	0.001	0.001	0.989
1.A.3.b Road Transportation, Gasoline	N2O	15.131	4.470	0.000	0.001	0.990
5.D.1 Waste, Domestic and Commercial Waste Water	N2O	49.507	48.901	0.000	0.001	0.991
1.A.4 Other Sectors, Biomass	N2O	18.819	23.128	0.000	0.001	0.991
5.B.1 Waste, Composting	CH4		7.237	0.000	0.001	0.992
2.G.1 Industrial processes, Electrical Equipment	SF6	9.770	14.744	0.000	0.001	0.993

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2.A.3 Industrial processes, Limestone and Dolomite Use	CO2	4.483	10.138	0.000	0.001	0.993
5.B.1 Waste, Composting	N2O		5.176	0.000	0.000	0.994
2.F.4 Industrial processes, Aerosols	HFC		4.897	0.000	0.000	0.994
1.A.4 Other Sectors, Solid Fuels	N2O	5.569	0.004	0.000	0.000	0.995
1.A.3.b Road Transportation, Lubricants	CO2	0.323	4.849	0.000	0.000	0.995
5.D.2 Waste, Industrial Wastewater	CH4	7.771	2.103	0.000	0.000	0.995
1.A.2 Manufacturing Industries and Construction, Solid Fuels	N2O	6.262	0.886	0.000	0.000	0.996
1.A.3.b Other Transportation, Gaseous Fuels	CO2		2.934	0.000	0.000	0.996
1.A.1 Energy Industries, Solid Fuels	N2O	26.191	18.897	0.000	0.000	0.996
2.A.4 Industrial processes, Other process uses of carbonates	CO2	22.130	15.555	0.000	0.000	0.997
1.A.3.b Road Transportation, Biomass	N2O		2.816	0.000	0.000	0.997
2.C.6 Industrial processes, Zinc production	CO2	6.307	2.657	0.000	0.000	0.997
2.C.5 Industrial processes, Lead production	CO2	11.124	6.774	0.000	0.000	0.997
1.A.2 Manufacturing Industries and Construction, Solid Fuels	CH4	3.502	0.495	0.000	0.000	0.998
1.A.3.c Railways, Liquid Fuels	N2O	7.928	4.212	0.000	0.000	0.998
2.D.3 Industrial processes, Other	CO2		2.266	0.000	0.000	0.998
1.A.2 Manufacturing Industries and Construction, Liquid Fuels	CH4	2.825	0.294	0.000	0.000	0.998
1.A.1 Energy Industries, Biomass	N2O	0.189	2.194	0.000	0.000	0.998
2.F.2 Industrial processes, Foam Blowing agents	HFC		1.777	0.000	0.000	0.999
2.F.3 Industrial processes, Fire Protection	HFC		1.483	0.000	0.000	0.999
1.A.3.a Civil Aviation	CO2	0.609	1.964	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Other Fuels	N2O	0.154	1.521	0.000	0.000	0.999
2.D.2 Industrial processes, Paraffin wax use	CO2	4.267	4.946	0.000	0.000	0.999
1.A.1 Energy Industries, Biomass	CH4	0.119	1.385	0.000	0.000	0.999
3.H Urea application	CO2	9.087	8.744	0.000	0.000	0.999
1.B.2.b Fugitive Emissions, Natural Gas	CH4	35.094	30.286	0.000	0.000	0.999
1.A.2 Manufacturing Industries and Construction, Other Fuels	CH4	0.097	0.957	0.000	0.000	0.999
1.A.4 Other Sectors, Gaseous Fuels	CH4	0.077	0.797	0.000	0.000	1.000

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1.A.4 Other Sectors, Liquid Fuels	CH4	2.958	2.995	0.000	0.000	1.000
1.A.1 Energy Industries, Liquid Fuels	N2O	0.681	0.053	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Biomass	N2O	6.006	4.553	0.000	0.000	1.000
1.B.2.c Fugitive Emissions, Venting and Flaring	CH4	6.720	5.164	0.000	0.000	1.000
1.A.3.b Road Transportation, LPG	N2O		0.364	0.000	0.000	1.000
1.A.3.b Road Transportation, CNG	CO2		0.335	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Biomass	CH4	3.779	2.865	0.000	0.000	1.000
1.A.5 Other Mobile, Liquid Fuels	N2O	0.343	0.031	0.000	0.000	1.000
1.A.1 Energy Industries, Liquid Fuels	CH4	0.286	0.022	0.000	0.000	1.000
1.A.1 Energy Industries, Other Fuels	N2O		0.204	0.000	0.000	1.000
1.A.4 Other Sectors, Gaseous Fuels	N2O	0.018	0.190	0.000	0.000	1.000
1.A.1 Energy Industries, Solid Fuels	CH4	1.465	1.057	0.000	0.000	1.000
1.A.3.b Road Transportation, LPG	CH4		0.149	0.000	0.000	1.000
1.A.3.b Road Transportation, Biomass	CH4		0.135	0.000	0.000	1.000
1.A.3.b Road Transportation, CNG	CH4		0.128	0.000	0.000	1.000
1.B.2.c Fugitive Emissions, Venting and Flaring	CO2	0.160	0.006	0.000	0.000	1.000
5.C.1 Waste, Waste Incineration	N2O	0.007	0.107	0.000	0.000	1.000
1.A.1 Energy Industries, Other Fuels	CH4		0.043	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	N2O	0.670	0.520	0.000	0.000	1.000
1.A.3.b Road Transportation, Diesel Oil	CH4	1.695	1.378	0.000	0.000	1.000
1.A.2 Manufacturing Industries and Construction, Gaseous Fuels	CH4	0.562	0.437	0.000	0.000	1.000
1.A.3.c Railways, Liquid Fuels	CH4	0.097	0.051	0.000	0.000	1.000
1.A.1 Energy Industries, Gaseous Fuels	N2O	0.106	0.108	0.000	0.000	1.000
1.A.1 Energy Industries, Gaseous Fuels	CH4	0.089	0.090	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	0.042	0.000	0.000	1.000
1.A.5 Other Mobile, Liquid Fuels	CH4	0.007	0.001	0.000	0.000	1.000

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5.C.1 Waste, Waste Incineration	CH4	0.000	0.002	0.000	0.000	1.000
1.A.3.b Other Transportation, Gaseous Fuels	N2O		0.002	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