

ANNEX 1

Annex 1: Key sources

Methodology

IPCC Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, Chapter 7 Methodological Choice and Recalculation

The Tier 1 method to identify *key source categories* assesses the impacts of various source categories on the level and, if possible, the trend, of the national emissions inventory. When the national inventory estimates are available for several years, it is *good practice* to assess the contribution of each source category to both the level and trend of the national inventory. If only a single year's inventory is available, only a Level Assessment can be performed.

The Tier 1 method to identify *key source categories* can be readily completed using a spreadsheet analysis.

Level Assessment – TIER 1

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

Equation 7.1

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

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 inventory estimate 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 7.2:

$$\text{Source Category Trend Assessment} = (\text{Source Category Level Assessment}) \square / \\ (\text{Source Category Trend} - \text{Total Trend}) \mid \\ T_{x,t} = L_{x,t} * \square \mid \{[(E_{x,t} - E_{x,0}) / E_{x,t}] - [(E_t - E_0) / E_t]\} \mid$$

Where:

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

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absolute value, i.e. a negative value is always recorded as the equivalent positive value.

L_{x,t} is the Level Assessment for source x in year t (derived in Equation 7.1)

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

E_t and E_0 are the total inventory estimates in years t and 0, respectively

The Source Category Trend is the change in the source category emissions over time, computed by subtracting the base year (year 0) estimate for source category x from the current year (year t) estimate and dividing by the current year estimate.

The Total Trend is the change in the total inventory emissions over time, computed by subtracting the base year (year 0) estimate for the total inventory from the current year (year t) estimate and dividing by the current year estimate.

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Table 1: GPG Table 7.A1 (Tier 1 approach) – KC analyze with LULUCF

rank	CRF				GHG emissions Gg CO2 eq		contribution to level		contribution	key category	
2011	#	Sector	Category	gas	1986	2011	1986	2011	to trend	2011	1986
1	5	LULUCF/ A. Forest land	1. Forest Land remaining Forest Land	CO2	10343.796	11577.808	31.703	34.077	32.845	L,T	L
2	1A	1. Energy Industries	a. Public Electricity and Heat Prod.	CO2	6533.755	6223.550	20.025	18.318	15.067	L,T	L
3	1A	3. Transport	b. Road Transportation	CO2	1905.428	5592.846	5.840	16.461	24.086	L,T	L
4	1A	4. Other Sectors	b. Residential	CO2	1100.185	1020.357	3.372	3.003	2.393	L,T	L
5	1A	2. Manufacturing Ind. and Constr.	f. Other	CO2	1774.835	869.932	5.440	2.560	0.185	L	L
6	5	LULUCF/ E. Settlements	2. Land converted to Settlements	CO2	624.727	744.520	1.915	2.191	2.220	L,T	L
7	5	LULUCF/ C Grasland	2. Land converted to Grassland	CO2	197.072	633.397	0.604	1.864	2.778	L,T	L
8	1A	4. Other Sectors	a. Commercial/Institutional	CO2	612.110	569.808	1.876	1.677	1.343	L,T	L
9	5	LULUCF/ A. Forest land	2. Land converted to Forest Land	CO2	464.736	464.736	1.424	1.368	1.187	L,T	L
10	5	LULUCF/ F. Other Land	2. Land converted to Other Land	CO2	278.392	453.185	0.853	1.334	1.622	L,T	L
11	4	A. Enteric Fermentation	1. Non-Dairy Cattle	CH4	263.057	376.045	0.806	1.107	1.261	L,T	L
12	4	D. Agricultural Soils	1. Direct Soil Emissions	N2O	435.343	373.619	1.334	1.100	0.790	L,T	L
13	5	LULUCF/ B. Cropland	2. Land converted to Cropland	CO2	316.021	372.358	0.969	1.096	1.101	L,T	L
14	6	A. Solid Waste Disposal on Land	1. Managed Waste Disposal on Land	CH4	298.801	366.372	0.916	1.078	1.115	L,T	L
15	1A	2. Manufacturing Ind. and Constr.	d. Pulp, Paper and Print	CO2	649.556	348.448	1.991	1.026	0.089	L	
16	2	Industrial Processes	1. Cement Production	CO2	514.615	316.063	1.577	0.930	0.279	L	L
17	4	D. Agricultural Soils	3. Indirect Emissions	N2O	334.663	284.738	1.026	0.838	0.594	L,T	L
18	1B	Fugitive Emissions from fuels	a. Coal Mining and Handling	CH4	358.906	253.343	1.100	0.746	0.366	L,T	L
19	4	A. Enteric Fermentation	1. Dairy Cattle	CH4	383.587	235.601	1.176	0.693	0.208	L	L
20	2	Industrial Processes	1. Refrigeration and AC Equipment	HFC		209.756	0.000	0.617	1.093	L,T	L
21	1A	4. Other Sectors	c. Agriculture/Forestry/Fisheries	CO2	428.364	200.726	1.313	0.591	0.093	L	L
22	1A	2. Manufacturing Ind. and Constr.	a. Iron and Steel	CO2	1141.586	194.458	3.499	0.572	2.022	L,T	
23	2	Industrial Processes	3. Limestone and Dolomite Use	CO2	47.390	165.300	0.145	0.487	0.736	L,T	
24	4	B. Manure Management	1. Non-Dairy Cattle	CH4	66.046	164.390	0.202	0.484	0.681	L,T	L
25	5	LULUCF/ D. Wetlands	2. Land converted to Wetlands	CO2	137.966	157.932	0.423	0.465	0.456	L,T	
26	4	B. Manure Management	1. Dairy Cattle	CH4	152.449	131.767	0.467	0.388	0.281	L	L
27	4	B. Manure Management	13. Solid Storage and Dry Lot	N2O	267.309	123.028	0.819	0.362	0.069		L
28	6	B. Waste Water Handling	2. Domestic and Commercial WW	CH4	113.217	117.522	0.347	0.346	0.312		
29	1A	4. Other Sectors	b. Residential	CH4	134.558	112.155	0.412	0.330	0.227		L
30	2	Industrial Processes	3. Aluminium Production	CO2	89.402	107.969	0.274	0.318	0.325		
31	4	B. Manure Management	8. Swine	CH4	228.267	100.800	0.700	0.297	0.082		L
32	1A	2. Manufacturing Ind. and Constr.	e. Food Processing, Bev. and Tobacco	CO2	247.754	99.212	0.759	0.292	0.142		L

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33	2	Industrial Processes	2. Lime Production	CO2	220.206	90.735	0.675	0.267	0.113		L
34	1A	2. Manufacturing Ind. and Constr.	b. Non-Ferrous Metals	CO2	440.325	86.328	1.350	0.254	0.721	T	L
35	1A	2. Manufacturing Ind. and Constr.	c. Chemicals	CO2	98.052	84.269	0.301	0.248	0.179		
36	1B	Fugitive Emissions from fuels	a. Coal Mining and Handling	CO2	120.238	81.847	0.369	0.241	0.107		
37	5	LULUCF/ B. Cropland	1. Cropland remaining Cropland	CO2	61.035	61.035	0.187	0.180	0.156		
38	6	B. Waste Water Handling	2. Domestic and Commercial WW	N2O	58.858	60.348	0.180	0.178	0.158		
39	1A	3. Transport	b. Road Transportation	N2O	23.704	52.699	0.073	0.155	0.212		
40	4	D. Agricultural Soils	2. Pasture, Range and Pad. Manure	N2O	23.871	51.112	0.073	0.150	0.203		
41	3	Solvent and Other Product Use	D. 1. Use of N ₂ O for Anaesthesia	N2O	81.903	49.290	0.251	0.145	0.039		
42	2	Industrial Processes	1. Iron and Steel Production	CO2	40.149	47.473	0.123	0.140	0.141		
43	1A	3. Transport	c. Railways	CO2	68.182	37.471	0.209	0.110	0.014		
44	1B	Fugitive Emissions from fuels	b. Natural Gas	CH4	56.205	28.902	0.172	0.085	0.001		
45	2	Industrial Processes	3. Aluminium Production	PFC	276.291	28.611	0.847	0.084	0.586	T	L
46	1A	1. Energy Industries	a. Public Electricity and Heat Prod.	N2O	26.201	27.454	0.080	0.081	0.073		
47	1A	4. Other Sectors	c. Agriculture/Forestry/Fisheries	N2O	49.388	24.032	0.151	0.071	0.006		
48	1A	4. Other Sectors	b. Residential	N2O	20.760	23.417	0.064	0.069	0.067		
49	4	A. Enteric Fermentation	3. Sheep	CH4	4.242	20.156	0.013	0.059	0.094		
50	2	Industrial Processes	8. Electrical Equipment	SF6	10.241	16.542	0.031	0.049	0.059		
51	1A	2. Manufacturing Ind. and Constr.	f. Other	N2O	35.046	13.510	0.107	0.040	0.023		
52	6	B. Waste Water Handling	1. Industrial Wastewater	CH4	19.916	12.781	0.061	0.038	0.014		
53	4	A. Enteric Fermentation	8. Swine	CH4	18.788	10.940	0.058	0.032	0.007		
54	2	Industrial Processes	7. Other (Glass Production)	CO2	4.528	10.548	0.014	0.031	0.043		
55	2	Industrial Processes	5. Aluminium anode burn-off	CO2		10.205	0.000	0.030	0.053		
56	4	B. Manure Management	12. Liquid Systems	N2O	6.191	8.816	0.019	0.026	0.029		
57	1A	3. Transport	b. Road Transportation	CH4	18.751	8.084	0.057	0.024	0.008		
58	4	A. Enteric Fermentation	6. Horses	CH4	5.498	7.417	0.017	0.022	0.024		
59	4	B. Manure Management	9. Poultry	CH4	16.446	6.563	0.050	0.019	0.010		
60	6	C. Waste Incineration	a. and b. waste incineration	CO2		5.253	0.000	0.015	0.027		
61	1A	3. Transport	c. Railways	N2O	8.651	4.754	0.027	0.014	0.002		
62	1A	1. Energy Industries	b. Petroleum Refining	CO2	62.225	4.239	0.191	0.012	0.143		
63	2	Industrial Processes	4. Aerosols and MDI	HFC		4.176	0.000	0.012	0.022		
64	1A	5. Other	b. Mobile - Military use	CO2	41.093	3.343	0.126	0.010	0.092		
65	1A	2. Manufacturing Ind. and Constr.	f. Other	CH4	6.291	2.912	0.019	0.009	0.002		
66	4	A. Enteric Fermentation	4. Goats	CH4	1.050	2.798	0.003	0.008	0.012		
67	2	Industrial Processes	4. Soda Ash Production and Use	CO2	7.827	2.579	0.024	0.008	0.007		
68	1A	1. Energy Industries	a. Public Electricity and Heat Prod.	CH4	1.595	2.432	0.005	0.007	0.008		
69	1A	3. Transport	a. Civil Aviation	CO2	0.622	1.947	0.002	0.006	0.008		
70	2	Industrial Processes	2. Foam Blowing	HFC		1.942	0.000	0.006	0.010		
71	4	B. Manure Management	14. Other AWMS	N2O	2.644	1.815	0.008	0.005	0.002		

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72	1A	4. Other Sectors	a. Commercial/Institutional	CH4	15.279	1.506	0.047	0.004	0.033		
73	1A	2. Manufacturing Ind. and Constr.	d. Pulp, Paper and Print	N2O	1.383	1.404	0.004	0.004	0.004		
74	2	Industrial Processes	3. Fire Extinguishers	HFC		1.277	0.000	0.004	0.007		
75	1A	4. Other Sectors	a. Commercial/Institutional	N2O	5.087	1.197	0.016	0.004	0.007		
76	2	Industrial Processes	4. Carbide Production	CO2	44.985	1.178	0.138	0.003	0.113		
77	5	LULUCF	A. Forest Land	CH4	0.000	1.169	0.000	0.003	0.006		
78	1A	2. Manufacturing Ind. and Constr.	d. Pulp, Paper and Print	CH4	1.060	0.932	0.003	0.003	0.002		
79	1A	2. Manufacturing Ind. and Constr.	c. Chemicals	N2O	0.248	0.839	0.001	0.002	0.004		
80	1A	3. Transport	e. Other Transportation	CO2	0.000	0.826	0.000	0.002	0.004		
81	1A	1. Energy Industries	c. Manufacture of Solid F. and Oth. EI.	CO2	104.728	0.771	0.321	0.002	0.274		
82	4	B. Manure Management	6. Horses	CH4	0.428	0.577	0.001	0.002	0.002		
83	1A	4. Other Sectors	c. Agriculture/Forestry/Fisheries	CH4	1.436	0.504	0.004	0.001	0.001		
84	4	B. Manure Management	3. Sheep	CH4	0.101	0.479	0.000	0.001	0.002		
85	1A	2. Manufacturing Ind. and Constr.	c. Chemicals	CH4	0.107	0.468	0.000	0.001	0.002		
86	1A	2. Manufacturing Ind. and Constr.	a. Iron and Steel	CH4	2.057	0.363	0.006	0.001	0.004		
87	1A	2. Manufacturing Ind. and Constr.	a. Iron and Steel	N2O	3.270	0.341	0.010	0.001	0.007		
88	1A	2. Manufacturing Ind. and Constr.	e. Food Processing, Bev. and Tobacco	N2O	0.615	0.340	0.002	0.001	0.000		
89	5	LULUCF	A. Forest Land	N2O	0.000	0.211	0.000	0.001	0.001		
90	1A	2. Manufacturing Ind. and Constr.	b. Non-Ferrous Metals	N2O	1.252	0.162	0.004	0.000	0.002		
91	1A	2. Manufacturing Ind. and Constr.	e. Food Processing, Bev. and Tobacco	CH4	0.178	0.149	0.001	0.000	0.000		
92	1A	2. Manufacturing Ind. and Constr.	b. Non-Ferrous Metals	CH4	0.691	0.133	0.002	0.000	0.001		
93	1A	1. Energy Industries	c. Manufacture of Solid F. and Oth. EI.	N2O	0.226	0.098	0.001	0.000	0.000		
94	4	B. Manure Management	4. Goats	CH4	0.025	0.067	0.000	0.000	0.000		
95	1A	3. Transport	c. Railways	CH4	0.078	0.043	0.000	0.000	0.000		
96	6	C. Waste Incineration	a. and b. waste incineration	N2O		0.031	0.000	0.000	0.000		
97	1A	5. Other	b. Mobile - Military use	N2O	0.356	0.029	0.001	0.000	0.001		
98	1A	3. Transport	a. Civil Aviation	N2O	0.005	0.017	0.000	0.000	0.000		
99	1A	1. Energy Industries	b. Petroleum Refining	N2O	0.069	0.016	0.000	0.000	0.000		
100	1A	1. Energy Industries	b. Petroleum Refining	CH4	0.094	0.008	0.000	0.000	0.000		
101	1B	Fugitive Emissions from fuels	b. Natural Gas	CO2	0.007	0.003	0.000	0.000	0.000		
102	1A	3. Transport	e. Other Transportation	CH4		0.002	0.000	0.000	0.000		
103	1A	5. Other	b. Mobile - Military use	CH4	0.012	0.001	0.000	0.000	0.000		
104	1A	1. Energy Industries	c. Manufacture of Solid F. and Oth. EI	CH4	0.201	0.001	0.001	0.000	0.001		
105	1A	3. Transport	a. Civil Aviation	CH4	0.000	0.001	0.000	0.000	0.000		
106	1A	3. Transport	e. Other Transportation	N2O		0.000	0.000	0.000	0.000		
	2	Industrial Processes	5. Other (Methanol)	CH4	2.929	0.000	0.009	0.000	0.000		
	4	B. Manure Management	11. Anaerobic Lagoons	N2O	0.948	0.000	0.003	0.000	0.000		
	2	Industrial Processes	4. Carbide Production	CH4	0.783	0.000	0.002	0.000	0.000		
	1B	Fugitive Emissions from fuels	a. Oil	CH4	0.422	0.000	0.001	0.000	0.000		
	2	Industrial Processes	2. Ferroalloys Production	CO2	57.635		0.177	0.000	0.000		

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Table 2: GPG Table 7.A1 (Tier 1 approach) – KC analyze w/o LULUCF

rank	CRF				GHG emissions Gg CO2 eq		contribution to level		contribution	key category	
2011	#	Sector	Category	gas	1986	2011	1986	2011	to trend	2011	1986
1	1A	1. Energy Industries	a. Public Electricity and Heat Prod.	CO2	6533.755	6223.550	32.339	31.900	0.947	L,T	L
2	1A	3. Transport	b. Road Transportation	CO2	1905.428	5592.846	9.431	28.668	41.505	L,T	L
3	1A	4. Other Sectors	b. Residential	CO2	1100.185	1020.357	5.445	5.230	0.465	L,T	L
4	1A	2. Manufacturing Ind. and Constr.	f. Other	CO2	1774.835	869.932	8.785	4.459	9.333	L,T	L
5	1A	4. Other Sectors	a. Commercial/Institutional	CO2	612.110	569.808	3.030	2.921	0.235	L	L
6	4	A. Enteric Fermentation	1. Non-Dairy Cattle	CH4	263.057	376.045	1.302	1.928	1.350	L,T	L
7	4	D. Agricultural Soils	1. Direct Soil Emissions	N2O	435.343	373.619	2.155	1.915	0.517	L,T	L
8	6	A. Solid Waste Disposal on Land	1. Managed Waste Disposal on Land	CH4	298.801	366.372	1.479	1.878	0.861	L,T	L
9	1A	2. Manufacturing Ind. and Constr.	d. Pulp, Paper and Print	CO2	649.556	348.448	3.215	1.786	3.083	L,T	L
10	2	Industrial Processes	1. Cement Production	CO2	514.615	316.063	2.547	1.620	2.000	L,T	L
11	4	D. Agricultural Soils	3. Indirect Emissions	N2O	334.663	284.738	1.656	1.459	0.425	L,T	L
12	1B	Fugitive Emissions from fuels	a. Coal Mining and Handling	CH4	358.906	253.343	1.776	1.299	1.031	L,T	L
13	4	A. Enteric Fermentation	1. Dairy Cattle	CH4	383.587	235.601	1.899	1.208	1.491	L,T	L
14	2	Industrial Processes	1. Refrigeration and AC Equipment	HFC		209.756	0.000	1.075	2.320	L,T	
15	1A	4. Other Sectors	c. Agriculture/Forestry/Fisheries	CO2	428.364	200.726	2.120	1.029	2.355	L,T	L
16	1A	2. Manufacturing Ind. and Constr.	a. Iron and Steel	CO2	1141.586	194.458	5.650	0.997	10.041	L,T	L
17	2	Industrial Processes	3. Limestone and Dolomite Use	CO2	47.390	165.300	0.235	0.847	1.322	L,T	
18	4	B. Manure Management	1. Non-Dairy Cattle	CH4	66.046	164.390	0.327	0.843	1.113	L,T	
19	4	B. Manure Management	1. Dairy Cattle	CH4	152.449	131.767	0.755	0.675	0.171	L	L
20	4	B. Manure Management	13. Solid Storage and Dry Lot	N2O	267.309	123.028	1.323	0.631	1.494	L,T	L
21	6	B. Waste Water Handling	2. Domestic and Commercial WW	CH4	113.217	117.522	0.560	0.602	0.091	L	L
22	1A	4. Other Sectors	b. Residential	CH4	134.558	112.155	0.666	0.575	0.197	L	L
23	2	Industrial Processes	3. Aluminium Production	CO2	89.402	107.969	0.443	0.553	0.239	L	L
24	4	B. Manure Management	8. Swine	CH4	228.267	100.800	1.130	0.517	1.323	L,T	L
25	1A	2. Manufacturing Ind. and Constr.	e. Food Processing, Bev. and Tobacco	CO2	247.754	99.212	1.226	0.509	1.549	L,T	L
26	2	Industrial Processes	2. Lime Production	CO2	220.206	90.735	1.090	0.465	1.348	T	L
27	1A	2. Manufacturing Ind. and Constr.	b. Non-Ferrous Metals	CO2	440.325	86.328	2.179	0.442	3.748	T	L
28	1A	2. Manufacturing Ind. and Constr.	c. Chemicals	CO2	98.052	84.269	0.485	0.432	0.115		L
29	1B	Fugitive Emissions from fuels	a. Coal Mining and Handling	CO2	120.238	81.847	0.595	0.420	0.379	T	L
30	6	B. Waste Water Handling	2. Domestic and Commercial WW	N2O	58.858	60.348	0.291	0.309	0.039		
31	1A	3. Transport	b. Road Transportation	N2O	23.704	52.699	0.117	0.270	0.330		
32	4	D. Agricultural Soils	2. Pasture, Range and Pad. Manure	N2O	23.871	51.112	0.118	0.262	0.310		

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33	3	Solvent and Other Product Use	D. 1. Use of N ₂ O for Anaesthesia	N ₂ O	81.903	49.290	0.405	0.253	0.330		
34	2	Industrial Processes	1. Iron and Steel Production	CO ₂	40.149	47.473	0.199	0.243	0.096		
35	1A	3. Transport	c. Railways	CO ₂	68.182	37.471	0.337	0.192	0.314		
36	1B	Fugitive Emissions from fuels	b. Natural Gas	CH ₄	56.205	28.902	0.278	0.148	0.281		
37	2	Industrial Processes	3. Aluminium Production	PFC	276.291	28.611	1.368	0.147	2.634	T	L
38	1A	1. Energy Industries	a. Public Electricity and Heat Prod.	N ₂ O	26.201	27.454	0.130	0.141	0.024		
39	1A	4. Other Sectors	c. Agriculture/Forestry/Fisheries	N ₂ O	49.388	24.032	0.244	0.123	0.262		
40	1A	4. Other Sectors	b. Residential	N ₂ O	20.760	23.417	0.103	0.120	0.037		
41	4	A. Enteric Fermentation	3. Sheep	CH ₄	4.242	20.156	0.021	0.103	0.178		
42	2	Industrial Processes	8. Electrical Equipment	SF ₆	10.241	16.542	0.051	0.085	0.074		
43	1A	2. Manufacturing Ind. and Constr.	f. Other	N ₂ O	35.046	13.510	0.173	0.069	0.225		
44	6	B. Waste Water Handling	1. Industrial Wastewater	CH ₄	19.916	12.781	0.099	0.066	0.071		
45	4	A. Enteric Fermentation	8. Swine	CH ₄	18.788	10.940	0.093	0.056	0.080		
46	2	Industrial Processes	7. Other (Glass Production)	CO ₂	4.528	10.548	0.022	0.054	0.068		
47	2	Industrial Processes	5. Aluminium anode burn-off	CO ₂		10.205	0.000	0.052	0.113		
48	4	B. Manure Management	12. Liquid Systems	N ₂ O	6.191	8.816	0.031	0.045	0.031		
49	1A	3. Transport	b. Road Transportation	CH ₄	18.751	8.084	0.093	0.041	0.111		
50	4	A. Enteric Fermentation	6. Horses	CH ₄	5.498	7.417	0.027	0.038	0.023		
51	4	B. Manure Management	9. Poultry	CH ₄	16.446	6.563	0.081	0.034	0.103		
52	6	C. Waste Incineration	a. and b. waste incineration	CO ₂		5.253	0.000	0.027	0.058		
53	1A	3. Transport	c. Railways	N ₂ O	8.651	4.754	0.043	0.024	0.040		
54	1A	1. Energy Industries	b. Petroleum Refining	CO ₂	62.225	4.239	0.308	0.022	0.618	T	
55	2	Industrial Processes	4. Aerosols and MDI	HFC		4.176	0.000	0.021	0.046		
56	1A	5. Other	b. Mobile - Military use	CO ₂	41.093	3.343	0.203	0.017	0.402	T	
57	1A	2. Manufacturing Ind. and Constr.	f. Other	CH ₄	6.291	2.912	0.031	0.015	0.035		
58	4	A. Enteric Fermentation	4. Goats	CH ₄	1.050	2.798	0.005	0.014	0.020		
59	2	Industrial Processes	4. Soda Ash Production and Use	CO ₂	7.827	2.579	0.039	0.013	0.055		
60	1A	1. Energy Industries	a. Public Electricity and Heat Prod.	CH ₄	1.595	2.432	0.008	0.012	0.010		
61	1A	3. Transport	a. Civil Aviation	CO ₂	0.622	1.947	0.003	0.010	0.015		
62	2	Industrial Processes	2. Foam Blowing	HFC		1.942	0.000	0.010	0.021		
63	4	B. Manure Management	14. Other AWMS	N ₂ O	2.644	1.815	0.013	0.009	0.008		
64	1A	4. Other Sectors	a. Commercial/Institutional	CH ₄	15.279	1.506	0.076	0.008	0.147		
65	1A	2. Manufacturing Ind. and Constr.	d. Pulp, Paper and Print	N ₂ O	1.383	1.404	0.007	0.007	0.001		
66	2	Industrial Processes	3. Fire Extinguishers	HFC		1.277	0.000	0.007	0.014		
67	1A	4. Other Sectors	a. Commercial/Institutional	N ₂ O	5.087	1.197	0.025	0.006	0.041		
68	2	Industrial Processes	4. Carbide Production	CO ₂	44.985	1.178	0.223	0.006	0.467	T	
69	1A	2. Manufacturing Ind. and Constr.	d. Pulp, Paper and Print	CH ₄	1.060	0.932	0.005	0.005	0.001		
70	1A	2. Manufacturing Ind. and Constr.	c. Chemicals	N ₂ O	0.248	0.839	0.001	0.004	0.007		
71	1A	3. Transport	e. Other Transportation	CO ₂	0.000	0.826	0.000	0.004	0.009		
72	1A	1. Energy Industries	c. Manufacture of Solid F. and Oth. EI.	CO ₂	104.728	0.771	0.518	0.004	1.110	T	L

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73	4	B. Manure Management	6. Horses	CH4	0.428	0.577	0.002	0.003	0.002		
74	1A	4. Other Sectors	c. Agriculture/Forestry/Fisheries	CH4	1.436	0.504	0.007	0.003	0.010		
75	4	B. Manure Management	3. Sheep	CH4	0.101	0.479	0.000	0.002	0.004		
76	1A	2. Manufacturing Ind. and Constr.	c. Chemicals	CH4	0.107	0.468	0.001	0.002	0.004		
77	1A	2. Manufacturing Ind. and Constr.	a. Iron and Steel	CH4	2.057	0.363	0.010	0.002	0.018		
78	1A	2. Manufacturing Ind. and Constr.	a. Iron and Steel	N2O	3.270	0.341	0.016	0.002	0.031		
79	1A	2. Manufacturing Ind. and Constr.	e. Food Processing, Bev. and Tobacco	N2O	0.615	0.340	0.003	0.002	0.003		
80	1A	2. Manufacturing Ind. and Constr.	b. Non-Ferrous Metals	N2O	1.252	0.162	0.006	0.001	0.012		
81	1A	2. Manufacturing Ind. and Constr.	e. Food Processing, Bev. and Tobacco	CH4	0.178	0.149	0.001	0.001	0.000		
82	1A	2. Manufacturing Ind. and Constr.	b. Non-Ferrous Metals	CH4	0.691	0.133	0.003	0.001	0.006		
83	1A	1. Energy Industries	c. Manufacture of Solid F. and Oth. EI.	N2O	0.226	0.098	0.001	0.001	0.001		
84	4	B. Manure Management	4. Goats	CH4	0.025	0.067	0.000	0.000	0.000		
85	1A	3. Transport	c. Railways	CH4	0.078	0.043	0.000	0.000	0.000		
86	6	C. Waste Incineration	a. and b. waste incineration	N2O		0.031	0.000	0.000	0.000		
87	1A	5. Other	b. Mobile - Military use	N2O	0.356	0.029	0.002	0.000	0.003		
88	1A	3. Transport	a. Civil Aviation	N2O	0.005	0.017	0.000	0.000	0.000		
89	1A	1. Energy Industries	b. Petroleum Refining	N2O	0.069	0.016	0.000	0.000	0.001		
90	1A	1. Energy Industries	b. Petroleum Refining	CH4	0.094	0.008	0.000	0.000	0.001		
91	1B	Fugitive Emissions from fuels	b. Natural Gas	CO2	0.007	0.003	0.000	0.000	0.000		
92	1A	3. Transport	e. Other Transportation	CH4		0.002	0.000	0.000	0.000		
93	1A	5. Other	b. Mobile - Military use	CH4	0.012	0.001	0.000	0.000	0.000		
94	1A	1. Energy Industries	c. Manufacture of Solid F. and Oth. EI.	CH4	0.201	0.001	0.001	0.000	0.002		
95	1A	3. Transport	a. Civil Aviation	CH4	0.000	0.001	0.000	0.000	0.000		
96	1A	3. Transport	e. Other Transportation	N2O		0.000	0.000	0.000			
	2	Industrial Processes	5. Other (Methanol)	CH4	2.929	0.000	0.014	0.000			
	4	B. Manure Management	11. Anaerobic Lagoons	N2O	0.948	0.000	0.005	0.000			
	2	Industrial Processes	4. Carbide Production	CH4	0.783	0.000	0.004	0.000			
	1B	Fugitive Emissions from fuels	a. Oil	CH4	0.422	0.000	0.002	0.000			
	2	Industrial Processes	2. Ferroalloys Production	CO2	57.635		0.286	0.000	0.000		