Bijlage 5 Projecties van broeikasgasemissies

Annex XXV - Table 1a: Greenhouse gas projections by gases and categories [1]

Version 10 July 2023

Instructions (click the '+' in the left):

Inventory used for base year (6) (year of submission YYYY): 2022

t-5 (see footnote 7)

Category (2)	Scenario (WEM, WAM, WOM)	CO_2 (kt)	CO_2 (kt)	CO_2 (kt)	CO_2 (kt)	CO_2 (kt)	CO_2 (kt)	CO_2 (kt)	CH_4 (kt)	CH_4 (kt)	CH_4 (kt)	CH_4 (kt)	CH_4 (kt)	CH_4 (kt)
		2020	2025	2030	2035	2040	2045	2050	2020	2020	2025	2030	2035	2040
Total excluding LULUCF	WEM	138268.84	133189.82	96917.77	89999.83	83473.02	69938.18	66821.95	678.70		629.63	599.42	581.40	570.25
Total including LULUCF	WEM	142423.24	137042.60	100490.35	93002.76	86312.57	72655.18	69402.81	678.72		629.63	599.42	581.40	570.25
1. Energy	WEM	132037.21	125856.81	92225.49	85169.64	79153.51	62958.99	59824.09	85.70		78.99	72.28	69.63	70.23
1.A. Fuel combustion	WEM	131105.75	122269.89	87816.69	81076.04	75387.53	61116.00	58276.06	68.77		64.02	58.53	57.07	58.25
1.A.1. Energy industries	WEM	47438.14	41214.33	16602.09	13366.56	13810.80	NK	NK	5.49		9.52	9.52	5.80	5.80
1.A.1.a. Public electricity and heat production	WEM	35415.07	29741.03	10383.30	7839.69	9183.93	NK	NK	4.47		8.62	8.62	4.90	4.90
1.A.1.b. Petroleum refining	WEM	9373.22	8070.93	3559.68	3388.55	3013.21	NK	NK	0.62		0.90	0.90	0.90	0.90
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM	2649.85	3402.37	2659.10	2138.32	1613.65	NK	NK	0.40		0.00	0.00	0.00	0.00
1.A.2. Manufacturing industries and construction	WEM	27158.35	26827.56	22128.17	22082.89	21128.79	NK	NK	2.61		0.13	0.12	0.11	0.11
1.A.3. Transport	WEM	26040.23	27402.81	24848.66	23330.12	20477.27	NK	NK	2.39		2.60	2.44	2.18	1.84
1.A.3.a. Domestic aviation	WEM	23.96	32.44	31.48	31.15	30.89	NK	NK	0.00		0.00	0.00	0.00	0.00
1.A.3.b. Road transportation	WEM	25175.30	26378.50	23797.51	22281.59	19432.03	NK	NK	2.28		2.47	2.30	2.04	1.70
1.A.3.c. Railways	WEM	60.60	53.22	58.74	62.47	63.98	NK	NK	0.00		0.00	0.00	0.00	0.00
1.A.3.d. Domestic navigation	WEM	691.37	938.65	960.93	954.89	950.37	NK	NK	0.11		0.13	0.13	0.13	0.13
1.A.3.e. Other transportation	WEM	89.00	IE	IE	IE	IE	NK	NK	NK		IE	IE	IE	IE
1.A.4. Other sectors	WEM	30308.31	26668.61	24081.19	22139.88	19814.09	NK	NK	58.26		51.75	46.44	48.96	50.49
1.A.4.a. Commercial/Institutional	WEM	6375.20	5176.10	4607.92	4158.83	3520.99	NK	NK	1.79		3.37	3.36	3.36	3.36
1.A.4.b. Residential	WEM	15033.52	14347.55	13279.51	12200.86	10602.71	NK	NK	13.11		12.83	12.24	11.66	11.16
1.A.4.c. Agriculture/Forestry/Fishing	WEM	8899.58	7144.96	6193.75	5780.19	5690.39	NK	NK	43.36		35.56	30.83	33.94	35.96
1.A.5. Other	WEM	160.71	156.59	156.59	156.59	156.59	NK	NK	0.01		0.01	0.01	0.01	0.01
1.B. Fugitive emissions from fuels	WEM	931.46	3586.92	4408.80	4093.61	3765.97	1843.00	1548.03	16.93		14.97	13.74	12.56	11.98
1.B.1. Solid fuels	WEM	71.89	61.44	188.32	149.31	139.31	NK	NK	0.19		NE	NE	NE	NE
1.B.2. Oil and natural gas and other emissions from energy production	WEM	859.57	3525.48	4220.48	3944.30	3626.67	NK	NK	16.75		14.97	13.74	12.56	11.98
1.C. CO_2 transport and storage	WEM	NO	NO	NO	NO	NO	NK	NK						
2. Industrial processes	WEM	5734.10	6828.43	4172.34	4303.15	3784.60	6437.59	6437.59	14.99		15.05	15.05	15.05	15.05
2.A. Mineral industry	WEM	1069.62	1179.01	1156.12	1167.18	1180.69	NK	NK						
2.A.1. Cement production	WEM	NO	NO	NO	NO	NO	NK	NK						
2.B. Chemical industry	WEM	4180.05	5177.25	2538.92	2657.34	2123.92	NK	NK	13.12		13.22	13.22	13.22	13.22
2.C. Metal industry	WEM	131.73	134.82	134.82	134.82	134.82	NK	NK	NK		NK	NK	NK	NK
2.C.1. Iron and steel production	WEM	17.13	NE	NE	NE	NE	NK	NK	NO		NO	NO	NO	NO
2.D. Non-energy products from fuels and solvent use	WEM	334.68	324.47	329.14	330.13	331.09	NK	NK	0.01		NE	NE	NE	NE
2.E. Electronics industry	WEM													
2.F. Product uses as substitutes for ODS (8)	WEM													
2.G. Other product manufacture and use	WEM	0.90	0.90	0.90	0.90	0.90	NK	NK	1.85		1.83	1.83	1.83	1.83
2.H. Other	WEM	17.12	11.98	12.44	12.78	13.18	NK	NK	NO		NO	NO	NO	NO
3. Agriculture	WEM	78.21	76.96	75.61	74.26	72.91	71.60	70.27	475.41		459.95	454.38	452.71	450.78
3.A. Enteric fermentation	WEM								327.85		323.14	323.14	322.36	321.28
3.B. Manure management	WEM								147.57		136.82	131.24	130.35	129.51
3.C. Rice cultivation	WEM								NO		NO	NO	NO	NO
3.D. Agricultural soils	WEM								NO		NO	NO	NO	NO
3.E. Prescribed burning of savannahs	WEM								NO		NO	NO	NO	NO
3.F. Field burning of agricultural residues	WEM								NO		NO	NO	NO	NO
3.G. Liming	WEM	31.03	30.54	30.00	29.47	28.93	NK	NK						
3.H. Urea application	WEM	47.17	46.42	45.60	44.79	43.98	NK	NK						
3.I. Other carbon-containing fertilizers	WEM	NO	NO	NO	NO	NO	NK	NK						
3.J. Other (please specify)	WEM	NO	NO	NO	NO	NO	NK	NK	NA		NA	NA	NA	NA
4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)	WEM	4129.88	3859.87	3579.85	3010.43	2847.32	2717.00	2580.86	0.02		0.02	0.02	0.02	0.02
4.A. Forest land	WEM	**-2270.75**	**-2086.93**	**-2131.47**	**-2343.87**	**-2517.84**			**0.02**		0.02	0.02	**0.02**	**0.02**
4.B. Cropland	WEM	**1659.46**	**1608.63**	**1727.38**	**1747.76**	**1807.83**			**NK**		NK	NK	**NK**	**NK**
4.C. Grassland	WEM	**3351.27**	**3160.89**	**2783.71**	**2464.37**	**2401.65**			**0.00**		0.00	0.00	**0.00**	**0.00**
4.D. Wetlands	WEM	**-57.25**	**-67.91**	**-37.29**	**-39.31**	**-2.32**			**NK**		NK	NK	**NK**	**NK**
4.E. Settlements	WEM	**1154.61**	**1031.24**	**1043.24**	**1022.15**	**1063.81**			**NK**		NK	NK	**NK**	**NK**
4.F. Other Land	WEM	**171.08**	**111.43**	**94.07**	**62.01**	**0.00**			**NK**		NK	NK	**NK**	**NK**
4.G. Harvested wood products	WEM	**121.46**	**102.52**	**100.22**	**97.33**	**94.19**								
4.H. Other	WEM	**NA**	**NA**	**NA**	**NA**	**NA**								
5. Waste	WEM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.60		75.64	57.71	44.01	34.19
5.A. Solid Waste Disposal	WEM								88.48		67.46	49.53	35.83	26.01
5.B. Biological treatment of solid waste	WEM								4.66		NE	NE	NE	NE
5.C. Incineration and open burning of waste	WEM	NK	NK	NK	NK	NK	NK	NK	0.00		NE	NE	NE	NE
5.D. Wastewater treatment and discharge	WEM								9.45		8.18	8.18	8.18	8.18
5.E. Other (please specify)	WEM	NO	NO	NO	NO	NO	NK	NK	NO		NO	NO	NO	NO
Memo items	WEM													
International bunkers	WEM	43910.36	48132.09	47399.86	47337.22	47182.35	46554.85	47348.79	6.44		11.95	22.29	33.02	33.18
IB.Aviation	WEM	6631.41	10901.60	11815.58	12143.50	12041.10	11947.91	11947.40	0.05		0.08	0.08	0.09	0.09
IB.Navigation	WEM	37278.95	37230.49	35584.28	35193.72	35141.25	34606.93	35401.40	6.39		11.88	22.21	32.93	33.10
CO_2 emissions from biomass	WEM	19265.00	22615.00	15804.54	13628.04	22443.63	23317.45	24500.28						
CO_2 captured	WEM	0.00	66.40	9014.75	8869.56	9050.09	9100.00	9098.54						
Indirect CO_2 (if available) (10)	WEM	419.32	427.62	444.33	452.78	462.01	470.00	490.00						
Total excluding LULUCF	WAM	138268.84	133155.38	96625.46	88931.36	80875.00			678.70		629.80	599.52	581.33	569.99
Total including LULUCF	WAM	142423.24	137008.16	100198.03	91934.28	83714.54			678.72		629.80	599.52	581.33	569.99
1. Energy	WAM	132037.21	125820.66	92061.36	84213.08	76659.14			85.70		79.17	72.37	69.56	69.96
1.A. Fuel combustion	WAM	131105.75	122233.74	87652.44	80135.28	72892.78			68.77		64.19	58.63	57.00	57.98
1.A.1. Energy industries	WAM	47438.14	41264.93	17255.62	14564.05	15532.72			5.49		9.52	9.52	5.80	5.80
1.A.1.a. Public electricity and heat production	WAM	35415.07	29827.12	11037.15	9037.20	10981.84			4.47		8.62	8.62	4.90	4.90
1.A.1.b. Petroleum refining	WAM	9373.22	8035.44	3559.65	3388.55	2936.68			0.62		0.90	0.90	0.90	0.90
1.A.1.c. Manufacture of solid fuels and other energy industries	WAM	2649.85	3402.37	2658.82	2138.30	1614.20			0.40		0.00	0.00	0.00	0.00
1.A.2. Manufacturing industries and construction	WAM	27158.35	26827.01	22241.84	22160.69	21418.94			2.61		0.13	0.12	0.11	0.10
1.A.3. Transport	WAM	26040.23	27376.34	24146.27	21181.06	15937.35			2.39		2.78	2.54	2.11	1.57
1.A.3.a. Domestic aviation	WAM	23.96	32.44	31.48	31.15	30.89			0.00		0.00	0.00	0.00	0.00
1.A.3.b. Road transportation	WAM	25175.30	26351.90	23083.57	20115.10	14879.80			2.28		2.64	2.40	1.97	1.44
1.A.3.c. Railways	WAM	60.60	53.22	58.71	64.11	64.16			0.00		0.00	0.00	0.00	0.00
1.A.3.d. Domestic navigation	WAM	691.37	938.79	972.51	970.69	962.50			0.11		0.13	0.13	0.13	0.13
1.A.3.e. Other transportation	WAM	89.00	IE	IE	IE	IE			NK		IE	IE	IE	IE
1.A.4. Other sectors	WAM	30308.31	26608.87	23852.11	22072.89	19847.18			58.26		51.75	46.44	48.96	50.49
1.A.4.a. Commercial/Institutional	WAM	6375.20	5144.22	4550.27	4133.16	3509.71			1.79		3.37	3.36	3.36	3.36
1.A.4.b. Residential	WAM	15033.52	14302.39	13182.44	12094.98	10511.81			13.11		12.83	12.24	11.66	11.16
1.A.4.c. Agriculture/Forestry/Fishing	WAM	8899.58	7162.26	6119.39	5844.75	5825.67			43.36		35.56	30.83	33.94	35.96
1.A.5. Other	WAM	160.71	156.59	156.59	156.59	156.59			0.01		0.01	0.01	0.01	0.01
1.B. Fugitive emissions from fuels	WAM	931.46	3586.93	4408.92	4077.80	3766.36			16.93		14.97	13.74	12.56	11.98
1.B.1. Solid fuels	WAM	71.89	61.44	188.50	149.31	139.36			0.19		NE	NE	NE	NE
1.B.2. Oil and natural gas and other emissions from energy production	WAM	859.57	3525.48	4220.42	3928.49	3627.00			16.75		14.97	13.74	12.56	11.98
1.C. CO_2 transport and storage	WAM	NO	NO	NO	NO	NO								
2. Industrial processes	WAM	5734.10	6830.14	4044.16	4191.25	3680.95			14.99		15.05	15.05	15.05	15.05
2.A. Mineral industry	WAM	1069.62	1179.06	1156.12	1167.18	1180.69								
2.A.1. Cement production	WAM	NO	NO	NO	NO	NO								
2.B. Chemical industry	WAM	4180.05	5178.43	2410.46	2545.30	2020.16			13.12		13.22	13.22	13.22	13.22
2.C. Metal industry	WAM	131.73	134.82	134.82	134.82	134.82			NK		NK	NK	NK	NK
2.C.1. Iron and steel production	WAM	17.13	NE	NE	NE	NE			NO		NO	NO	NO	NO
2.D. Non-energy products from fuels and solvent use	WAM	334.68	324.95	329.42	330.27	331.20			0.01		NE	NE	NE	NE
2.E. Electronics industry	WAM													
2.F. Product uses as substitutes for ODS (8)	WAM													
2.G. Other product manufacture and use	WAM	0.90	0.90	0.90	0.90	0.90			1.85		1.83	1.83	1.83	1.83
2.H. Other	WAM	17.12	11.98	12.44	12.78	13.18			NO		NO	NO	NO	NO
3. Agriculture	WAM	78.21	76.96	75.61	74.26	72.91			475.41		459.95	454.38	452.71	450.78
3.A. Enteric fermentation	WAM								327.85		323.14	323.14	322.36	321.28
3.B. Manure management	WAM								147.57		136.82	131.24	130.35	129.51
3.C. Rice cultivation	WAM								NO		NO	NO	NO	NO
3.D. Agricultural soils	WAM								NO		NO	NO	NO	NO
3.E. Prescribed burning of savannahs	WAM								NO		NO	NO	NO	NO
3.F. Field burning of agricultural residues	WAM								NO		NO	NO	NO	NO
3.G. Liming	WAM	31.03	30.54	30.00	29.47	28.93								
3.H. Urea application	WAM	47.17	46.42	45.60	44.79	43.98								
3.I. Other carbon-containing fertilizers	WAM	NO	NO	NO	NO	NO								
3.J. Other (please specify)	WAM	NO	NO	NO	NO	NO			NA		NA	NA	NA	NA
4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)	WAM	**4129.88**	**3852.78**	**3572.58**	**3002.93**	**2839.54**			**0.02**	NE	NE	NE	NE	NE
4.A. Forest land	WAM	**-2270.75**	**-2093.62**	**-2138.37**	**-2351.01**	**-2525.25**			**0.02**	NE	NE	NE	NE	NE
4.B. Cropland	WAM	**1659.46**	**1608.64**	**1727.37**	**1747.77**	**1807.83**			**NK**	NE	NE	NE	NE	NE
4.C. Grassland	WAM	**3351.27**	**3160.51**	**2783.33**	**2463.99**	**2401.26**			**0.00**	NE	NE	NE	NE	NE
4.D. Wetlands	WAM	**-57.25**	**-67.92**	**-37.29**	**-39.30**	**-2.31**			**NK**	NE	NE	NE	NE	NE
4.E. Settlements	WAM	**1154.61**	**1031.23**	**1043.23**	**1022.15**	**1063.82**			**NK**	NE	NE	NE	NE	NE
4.F. Other Land	WAM	**171.08**	**111.43**	**94.08**	**62.01**	**0.00**			**NK**	NE	NE	NE	NE	NE
4.G. Harvested wood products	WAM	**121.46**	**102.52**	**100.22**	**97.33**	**94.19**								
4.H. Other	WAM	**NA**	**NA**	**NA**	**NA**	**NA**								
5. Waste	WAM	0.00	0.00	0.00	0.00	0.00			102.60		75.64	57.71	44.01	34.19
5.A. Solid Waste Disposal	WAM								88.48		67.46	49.53	35.83	26.01
5.B. Biological treatment of solid waste	WAM								4.66		NE	NE	NE	NE
5.C. Incineration and open burning of waste	WAM	NK	NK	NK	NK	NK			0.00		NE	NE	NE	NE
5.D. Wastewater treatment and discharge	WAM								9.45		8.18	8.18	8.18	8.18
5.E. Other (please specify)	WAM	NO	NO	NO	NO	NO			NO		NO	NO	NO	NO
Memo items	WAM													
International bunkers	WAM	43910.36	47495.55	46390.41	44858.45	43808.01			6.44		11.95	22.29	33.02	33.19
IB.Aviation	WAM	6631.41	10265.10	10819.12	9656.15	8671.29			0.05		0.07	0.08	0.08	0.09
IB.Navigation	WAM	37278.95	37230.46	35571.29	35202.31	35136.72			6.39		11.88	22.21	32.94	33.10
CO_2 emissions from biomass	WAM	19265.00	22675.42	15724.62	14582.27	25078.74								
CO_2 captured	WAM	0.00	94.18	8791.54	8809.05	8903.28								
Indirect CO_2 (if available) (10)	WAM	419.32	427.62	444.33	452.77	462.00								

Notes

Notation: t signifies the first future year ending with 0 or 5 immediately following the reporting year

(1) Consistency with the data reported under Article 8 of this Regulation is encouraged.

(2) Use of notation keys: as regards the terms of use defined in the 2006 IPCC Guidelines for National Greenhouse Gas Inventories (chapter 8: reporting guidance and Tables), the notation keys of IE (included elsewhere), NO (not occurring), C (confidential) and NA (not applicable) may be used, as appropriate when projections do not yield data on a specific reporting level (see 2006 IPCC Guidelines). The use of the notation key NE (Not Estimated) shall be restricted to the situation where a disproportionate amount of effort would be required to collect data for a category or a gas from a specific category that would be insignificant in terms of the overall level and trend in national emissions. In these circumstances a Member State shall list all categories and gases from categories excluded on these grounds, together with a justification in the report for exclusion in terms of the likely level of emissions or removals and identify the category as 'not estimated' using the notation key 'NE' in the re

(3) Unspecified mix of HFCs and PFCs is to be reported only if emissions are projected, for which it is not possible to report them under HFCs or under PFCs.

(4) Emissions in the scope of Directive 2003/87/EC

(5) Emissions in the scope of Regulation (EU) 2018/842.

(6) It shall be reported to which inventory submission the base year was calibrated.

(7) Values for t-5 shall only be provided when t-5 is after the projection base year.

(8) ODS – ozone depleting substances.

(9) For the purposes of reporting, the signs for removal shall always be negative (-) and the signs for emissions shall be positive (+). If the information requested in Table 1b is provided in full, this section does not need to be reported.

(10) Projected indirect CO_2 emissions reported in this Table are part of the projected Total greenhouse gas emissions (excluding and including LULUCF) and shall be reported as such if available and projected separately from the other reported emissions.

Annex XXV - Table 1a: Greenhouse gas projections by gases and categories (1)

Version 10 July 2023

Instructions (click the '+' in the left):

Inventory used for base year (6) (year of submission YYYY): 2022

Category (2)	Scenario (WEM, WAM, WOM)	CH_4 (kt) 2041	CH_4 (kt) 2042	CH_4 (kt) 2043	CH_4 (kt) 2044	CH_4 (kt) 2045	CH_4 (kt) 2046	CH_4 (kt) 2047	CH_4 (kt) 2048	CH_4 (kt) 2049	CH_4 (kt) 2050	N_2O (kt) 2020
Total excluding LULUCF	WEM					560.17					560.14	26.02
Total including LULUCF	WEM					560.17					560.14	26.33
1. Energy	WEM					71.21					80.54	1.96
1.A. Fuel combustion	WEM					63.01					68.22	1.96
1.A.1. Energy industries	WEM					NK					NK	0.86
1.A.1.a. Public electricity and heat production	WEM					NK					NK	0.78
1.A.1.b. Petroleum refining	WEM					NK					NK	0.03
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM					NK					NK	0.06
1.A.2. Manufacturing industries and construction	WEM					NK					NK	0.14
1.A.3. Transport	WEM					NK					NK	0.77
1.A.3.a. Domestic aviation	WEM					NK					NK	0.00
1.A.3.b. Road transportation	WEM					NK					NK	0.75
1.A.3.c. Railways	WEM					NK					NK	0.00
1.A.3.d. Domestic navigation	WEM					NK					NK	0.02
1.A.3.e. Other transportation	WEM					NK					NK	0.00
1.A.4. Other sectors	WEM					NK					NK	0.17
1.A.4.a. Commercial/Institutional	WEM					NK					NK	0.02
1.A.4.b. Residential	WEM					NK					NK	0.09
1.A.4.c. Agriculture/Forestry/Fishing	WEM					NK					NK	0.06
1.A.5. Other	WEM					NK					NK	0.01
1.B. Fugitive emissions from fuels	WEM					8.20					12.32	0.00
1.B.1. Solid fuels	WEM					NK					NK	NO
1.B.2. Oil and natural gas and other emissions from energy production	WEM					NK					NK	0.00
1.C. CO_2 transport and storage	WEM											
2. Industrial processes	WEM					15.05					15.05	4.41
2.A. Mineral industry	WEM											
2.A.1. Cement production	WEM											
2.B. Chemical industry	WEM					NK					NK	4.11
2.C. Metal industry	WEM					NK					NK	NO
2.C.1. Iron and steel production	WEM					NK					NK	NO
2.D. Non-energy products from fuels and solvent use	WEM					NK					NK	NK
2.E. Electronics industry	WEM											
2.F. Product uses as substitutes for ODS (8)	WEM											
2.G. Other product manufacture and use	WEM					NK					NK	0.30
2.H. Other	WEM					NK					NK	NO
3. Agriculture	WEM					445.91					443.56	19.10
3.A. Enteric fermentation	WEM					NK					NK	
3.B. Manure management	WEM					NK					NK	2.64
3.C. Rice cultivation	WEM					NK					NK	
3.D. Agricultural soils	WEM					NK					NK	16.46
3.E. Prescribed burning of savannahs	WEM					NK					NK	NO
3.F. Field burning of agricultural residues	WEM					NK					NK	NO
3.G. Liming	WEM											
3.H. Urea application	WEM											
3.I. Other carbon-containing fertilizers	WEM											
3.J. Other (please specify)	WEM					NK					NK	NA
4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)	WEM					0.00					0.00	0.31
4.A. Forest land	WEM											0.02
4.B. Cropland	WEM											0.15
4.C. Grassland	WEM											0.02
4.D. Wetlands	WEM											0.01
4.E. Settlements	WEM											0.08
4.F. Other Land	WEM											0.03
4.G. Harvested wood products	WEM											
4.H. Other	WEM											
5. Waste	WEM					28.01					21.00	0.56
5.A. Solid Waste Disposal	WEM					NK					NK	
5.B. Biological treatment of solid waste	WEM					NK					NK	0.30
5.C. Incineration and open burning of waste	WEM					NK					NK	0.00
5.D. Wastewater treatment and discharge	WEM					NK					NK	0.26
5.E. Other (please specify)	WEM					NK					NK	NO
Memo items	WEM											
International bunkers	WEM					32.68					33.43	1.18
IB.Aviation	WEM					0.09					0.09	0.19
IB.Navigation	WEM					32.59					33.34	0.99
CO_2 emissions from biomass	WEM											
CO_2 captured	WEM											
Indirect CO_2 (if available) (10)	WEM											
Total excluding LULUCF	WAM											26.02
Total including LULUCF	WAM											26.33
1. Energy	WAM											1.96
1.A. Fuel combustion	WAM											1.96
1.A.1. Energy industries	WAM											0.86
1.A.1.a. Public electricity and heat production	WAM											0.78
1.A.1.b. Petroleum refining	WAM											0.03
1.A.1.c. Manufacture of solid fuels and other energy industries	WAM											0.06
1.A.2. Manufacturing industries and construction	WAM											0.14
1.A.3. Transport	WAM											0.77
1.A.3.a. Domestic aviation	WAM											0.00
1.A.3.b. Road transportation	WAM											0.75
1.A.3.c. Railways	WAM											0.00
1.A.3.d. Domestic navigation	WAM											0.02
1.A.3.e. Other transportation	WAM											0.00
1.A.4. Other sectors	WAM											0.17
1.A.4.a. Commercial/Institutional	WAM											0.02
1.A.4.b. Residential	WAM											0.09
1.A.4.c. Agriculture/Forestry/Fishing	WAM											0.06
1.A.5. Other	WAM											0.01
1.B. Fugitive emissions from fuels	WAM											0.00
1.B.1. Solid fuels	WAM											NO
1.B.2. Oil and natural gas and other emissions from energy production	WAM											0.00
1.C. CO_2 transport and storage	WAM											
2. Industrial processes	WAM											4.41
2.A. Mineral industry	WAM											
2.A.1. Cement production	WAM											
2.B. Chemical industry	WAM											4.11
2.C. Metal industry	WAM											NO
2.C.1. Iron and steel production	WAM											NO
2.D. Non-energy products from fuels and solvent use	WAM											NK
2.E. Electronics industry	WAM											
2.F. Product uses as substitutes for ODS (8)	WAM											
2.G. Other product manufacture and use	WAM											0.30
2.H. Other	WAM											NO
3. Agriculture	WAM											19.10
3.A. Enteric fermentation	WAM											
3.B. Manure management	WAM											2.64
3.C. Rice cultivation	WAM											
3.D. Agricultural soils	WAM											16.46
3.E. Prescribed burning of savannahs	WAM											NO
3.F. Field burning of agricultural residues	WAM											NO
3.G. Liming	WAM											
3.H. Urea application	WAM											
3.I. Other carbon-containing fertilizers	WAM											
3.J. Other (please specify)	WAM											NA
4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)	WAM											0.31
4.A. Forest land	WAM											0.02
4.B. Cropland	WAM											0.15
4.C. Grassland	WAM											0.02
4.D. Wetlands	WAM											0.01
4.E. Settlements	WAM											0.08
4.F. Other Land	WAM											0.03
4.G. Harvested wood products	WAM											
4.H. Other	WAM											
5. Waste	WAM											0.56
5.A. Solid Waste Disposal	WAM											
5.B. Biological treatment of solid waste	WAM											0.30
5.C. Incineration and open burning of waste	WAM											0.00
5.D. Wastewater treatment and discharge	WAM											0.26
5.E. Other (please specify)	WAM											NO
Memo items	WAM											
International bunkers	WAM											1.18
IB.Aviation	WAM											0.19
IB.Navigation	WAM											0.99
CO_2 emissions from biomass	WAM											
CO_2 captured	WAM											
Indirect CO_2 (if available) (10)	WAM											

Category (2)	Scenario	N_2O (kt) 2018	N_2O (kt) 2019	N_2O (kt) 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Total excluding LULUCF	WEM								22.50					22.17					21.50					21.27					24.08					24.08
Total including LULUCF	WEM								22.80					22.49					21.80					21.57					24.38					24.38
1. Energy	WEM								1.82					1.77					1.30					1.27					4.43					4.70
1.A. Fuel combustion	WEM								1.78					1.73					1.27					1.23					4.39					4.66
1.A.1. Energy industries	WEM								0.45					0.45					0.03					0.03					NK					NK
1.A.1.a. Public electricity and heat production	WEM								0.42					0.42					0.00					0.00					NK					NK
1.A.1.b. Petroleum refining	WEM								0.03					0.03					0.03					0.03					NK					NK
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM								0.00					0.00					0.00					0.00					NK					NK
1.A.2. Manufacturing industries and construction	WEM								0.02					0.02					0.02					0.02					NK					NK
1.A.3. Transport	WEM								0.86					0.81					0.77					0.74					NK					NK
1.A.3.a. Domestic aviation	WEM								0.00					0.00					0.00					0.00					NK					NK
1.A.3.b. Road transportation	WEM								0.83					0.78					0.74					0.71					NK					NK
1.A.3.c. Railways	WEM								0.00					0.00					0.00					0.00					NK					NK
1.A.3.d. Domestic navigation	WEM								0.03					0.03					0.03					0.03					NK					NK
1.A.3.e. Other transportation	WEM								IE					IE					IE					IE					NK					NK
1.A.4. Other sectors	WEM								0.44					0.44					0.44					0.44					NK					NK
1.A.4.a. Commercial/Institutional	WEM								0.05					0.05					0.05					0.05					NK					NK
1.A.4.b. Residential	WEM								0.36					0.36					0.36					0.36					NK					NK
1.A.4.c. Agriculture/Forestry/Fishing	WEM								0.02					0.02					0.02					0.02					NK					NK
1.A.5. Other	WEM								0.01					0.01					0.01					0.01					NK					NK
1.B. Fugitive emissions from fuels	WEM								0.04					0.04					0.04					0.04					0.04					0.04
1.B.1. Solid fuels	WEM								NO					NO					NO					NO					NK					NK
1.B.2. Oil and natural gas and other emissions from energy production	WEM								0.04					0.04					0.04					0.04					NK					NK
1.C. CO_2 transport and storage	WEM																																	
2. Industrial processes	WEM								1.80					1.84					1.88					1.93					1.86					1.86
2.A. Mineral industry	WEM																																	
2.A.1. Cement production	WEM																																	
2.B. Chemical industry	WEM								1.69					1.73					1.77					1.83					NK					NK
2.C. Metal industry	WEM								NO					NO					NO					NO					NK					NK
2.C.1. Iron and steel production	WEM								NO					NO					NO					NO					NK					NK
2.D. Non-energy products from fuels and solvent use	WEM								NK					NK					NK					NK					NK					NK
2.E. Electronics industry	WEM																																	
2.F. Product uses as substitutes for ODS (8)	WEM																																	
2.G. Other product manufacture and use	WEM								0.11					0.11					0.11					0.11					NK					NK
2.H. Other	WEM								NO					NO					NO					NO					NK					NK
3. Agriculture	WEM								17.90					17.58					17.34					17.09					16.81					16.54
3.A. Enteric fermentation	WEM																																	
3.B. Manure management	WEM								IE					IE					IE					IE					NK					NK
3.C. Rice cultivation	WEM																																	
3.D. Agricultural soils	WEM								IE					IE					IE					IE					NK					NK
3.E. Prescribed burning of savannahs	WEM								NO					NO					NO					NO					NK					NK
3.F. Field burning of agricultural residues	WEM								NO					NO					NO					NO					NK					NK
3.G. Liming	WEM																																	
3.H. Urea application	WEM																																	
3.I. Other carbon-containing fertilizers	WEM																																	
3.J. Other (please specify)	WEM								NA					NA					NA					NA					NK					NK
4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)	WEM								0.31					0.32					0.31					0.30					0.30					0.30
4.A. Forest land	WEM								0.02					0.02					0.02					0.02										
4.B. Cropland	WEM								0.16					0.19					0.20					0.21										
4.C. Grassland	WEM								0.02					0.02					0.02					0.02										
4.D. Wetlands	WEM								0.01					0.01					0.00					0.00										
4.E. Settlements	WEM								0.07					0.06					0.05					0.05										
4.F. Other Land	WEM								0.03					0.02					0.02					0.00										
4.G. Harvested wood products	WEM																																	
4.H. Other	WEM																																	
5. Waste	WEM								0.98					0.98					0.98					0.98					0.98					0.98
5.A. Solid Waste Disposal	WEM																																	
5.B. Biological treatment of solid waste	WEM								0.72					0.72					0.72					0.72					NK					NK
5.C. Incineration and open burning of waste	WEM								NE					NE					NE					NE					NK					NK
5.D. Wastewater treatment and discharge	WEM								0.26					0.26					0.26					0.26					NK					NK
5.E. Other (please specify)	WEM								NO					NO					NO					NO					NK					NK
Memo items	WEM																																	
International bunkers	WEM								1.30					1.31					1.34					1.34					1.32					1.34
IB.Aviation	WEM								0.31					0.34					0.35					0.34					0.34					0.34
IB.Navigation	WEM								0.99					0.97					0.99					0.99					0.98					1.00
CO_2 emissions from biomass	WEM																																	
CO_2 captured	WEM																																	
Indirect CO_2 (if available) (10)	WEM																																	
Total excluding LULUCF	WAM								22.49					22.12					21.43					21.18										
Total including LULUCF	WAM								22.80					22.45					21.74					21.48										
1. Energy	WAM								1.82					1.73					1.23					1.17										
1.A. Fuel combustion	WAM								1.78					1.69					1.19					1.14										
1.A.1. Energy industries	WAM								0.45					0.45					0.03					0.03										
1.A.1.a. Public electricity and heat production	WAM								0.42					0.42					0.00					0.00										
1.A.1.b. Petroleum refining	WAM								0.03					0.03					0.03					0.03										
1.A.1.c. Manufacture of solid fuels and other energy industries	WAM								0.00					0.00					0.00					0.00										
1.A.2. Manufacturing industries and construction	WAM								0.02					0.02					0.02					0.02										
1.A.3. Transport	WAM								0.86					0.77					0.70					0.64										
1.A.3.a. Domestic aviation	WAM								0.00					0.00					0.00					0.00										
1.A.3.b. Road transportation	WAM								0.83					0.74					0.67					0.61										
1.A.3.c. Railways	WAM								0.00					0.00					0.00					0.00										
1.A.3.d. Domestic navigation	WAM								0.03					0.03					0.03					0.03										
1.A.3.e. Other transportation	WAM								IE					IE					IE					IE										
1.A.4. Other sectors	WAM								0.44					0.44					0.44					0.44										
1.A.4.a. Commercial/Institutional	WAM								0.05					0.05					0.05					0.05										
1.A.4.b. Residential	WAM								0.36					0.36					0.36					0.36										
1.A.4.c. Agriculture/Forestry/Fishing	WAM								0.02					0.02					0.02					0.02										
1.A.5. Other	WAM								0.01					0.01					0.01					0.01										
1.B. Fugitive emissions from fuels	WAM								0.04					0.04					0.04					0.04										
1.B.1. Solid fuels	WAM								NO					NO					NO					NO										
1.B.2. Oil and natural gas and other emissions from energy production	WAM								0.04					0.04					0.04					0.04										
1.C. CO_2 transport and storage	WAM																																	
2. Industrial processes	WAM								1.80					1.84					1.88					1.93										
2.A. Mineral industry	WAM																																	
2.A.1. Cement production	WAM																																	
2.B. Chemical industry	WAM								1.69					1.73					1.77					1.83										
2.C. Metal industry	WAM								NO					NO					NO					NO										
2.C.1. Iron and steel production	WAM								NO					NO					NO					NO										
2.D. Non-energy products from fuels and solvent use	WAM								NK					NK					NK					NK										
2.E. Electronics industry	WAM																																	
2.F. Product uses as substitutes for ODS (8)	WAM																																	
2.G. Other product manufacture and use	WAM								0.11					0.11					0.11					0.11										
2.H. Other	WAM								NO					NO					NO					NO										
3. Agriculture	WAM								17.90					17.59					17.35					17.10										
3.A. Enteric fermentation	WAM																																	
3.B. Manure management	WAM								IE					IE					IE					IE										
3.C. Rice cultivation	WAM																																	
3.D. Agricultural soils	WAM								IE					IE					IE					IE										
3.E. Prescribed burning of savannahs	WAM								NO					NO					NO					NO										
3.F. Field burning of agricultural residues	WAM								NO					NO					NO					NO										
3.G. Liming	WAM																																	
3.H. Urea application	WAM																																	
3.I. Other carbon-containing fertilizers	WAM																																	
3.J. Other (please specify)	WAM								NA					NA					NA					NA										
4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)	WAM								0.31					0.32					0.31					0.30										
4.A. Forest land	WAM								0.02					0.02					0.02					0.02										
4.B. Cropland	WAM								0.16					0.19					0.20					0.21										
4.C. Grassland	WAM								0.02					0.02					0.02					0.02										
4.D. Wetlands	WAM								0.01					0.01					0.00					0.00										
4.E. Settlements	WAM								0.07					0.06					0.05					0.05										
4.F. Other Land	WAM								0.03					0.02					0.02					0.00										
4.G. Harvested wood products	WAM																																	
4.H. Other	WAM																																	
5. Waste	WAM								0.98					0.98					0.98					0.98										
5.A. Solid Waste Disposal	WAM																																	
5.B. Biological treatment of solid waste	WAM								0.72					0.72					0.72					0.72										
5.C. Incineration and open burning of waste	WAM								NE					NE					NE					NE										
5.D. Wastewater treatment and discharge	WAM								0.26					0.26					0.26					0.26										
5.E. Other (please specify)	WAM								NO					NO					NO					NO										
Memo items	WAM																																	
International bunkers	WAM								1.28					1.29					1.33					1.35										
IB.Aviation	WAM								0.29					0.32					0.34					0.36										
IB.Navigation	WAM								0.99					0.97					0.99					0.99										
CO_2 emissions from biomass	WAM																																	
CO_2 captured	WAM																																	
Indirect CO_2 (if available) (10)	WAM																																	

Category (2)	Scenario	SF_6 (kt) 2020	SF_6 (kt) 2018	SF_6 (kt) 2019	SF_6 (kt) 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total excluding LULUCF	WEM	0.01								0.01					0.00
Total including LULUCF	WEM	0.01								0.01					0.00
1. Energy	WEM														
1.A. Fuel combustion	WEM														
1.A.1. Energy industries	WEM														
1.A.1.a. Public electricity and heat production	WEM														
1.A.1.b. Petroleum refining	WEM														
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM														
1.A.2. Manufacturing industries and construction	WEM														
1.A.3. Transport	WEM														
1.A.3.a. Domestic aviation	WEM														
1.A.3.b. Road transportation	WEM														
1.A.3.c. Railways	WEM														
1.A.3.d. Domestic navigation	WEM														
1.A.3.e. Other transportation	WEM														
1.A.4. Other sectors	WEM														
1.A.4.a. Commercial/Institutional	WEM														
1.A.4.b. Residential	WEM														
1.A.4.c. Agriculture/Forestry/Fishing	WEM														
1.A.5. Other	WEM														
1.B. Fugitive emissions from fuels	WEM														
1.B.1. Solid fuels	WEM														
1.B.2. Oil and natural gas and other emissions from energy production	WEM														
1.C. CO_2 transport and storage	WEM														
2. Industrial processes	WEM	0.01								0.01					0.00
2.A. Mineral industry	WEM														
2.A.1. Cement production	WEM														
2.B. Chemical industry	WEM	NO								NO					NO
2.C. Metal industry	WEM	NO								NO					NO
2.C.1. Iron and steel production	WEM	NO								NO					NO
2.D. Non-energy products from fuels and solvent use	WEM														
2.E. Electronics industry	WEM	NO								NO					NO
2.F. Product uses as substitutes for ODS (8)	WEM	NO								NO					NO
2.G. Other product manufacture and use	WEM	0.01								0.01					0.00
2.H. Other	WEM	NO								NO					NO
3. Agriculture – Memo items (all categories 3 to Indirect CO_2)	WEM														
Total excluding LULUCF	WAM	0.01								0.01					0.00
Total including LULUCF	WAM	0.01								0.01					0.00
1. Energy – 1.C. CO_2 transport and storage	WAM														
2. Industrial processes	WAM	0.01								0.01					0.00
2.A. Mineral industry	WAM														
2.A.1. Cement production	WAM														
2.B. Chemical industry	WAM	NO								NO					NO
2.C. Metal industry	WAM	NO								NO					NO
2.C.1. Iron and steel production	WAM														
2.D. Non-energy products from fuels and solvent use	WAM														
2.E. Electronics industry	WAM	NO								NO					NO
2.F. Product uses as substitutes for ODS (8)	WAM	NO								NO					NO
2.G. Other product manufacture and use	WAM	0.01								0.01					0.00
2.H. Other	WAM	NO								NO					NO
3. Agriculture – Memo items (all categories 3 to Indirect CO_2)	WAM														

Notes

Notation: t signifies the first future year ending with 0 or 5 immediately following the repor

(1) Consistency with the data reported under Article 8 of this Regulation is encouraged.

(2) Use of notation keys: as regards the terms of use defined in the 2006 IPCC Guidelines for reporting Tab

(3) Unspecified mix of HFCs and PFCs is to be reported only if emissions are projected, for w

(4) Emissions in the scope of Directive 2003/87/EC

(5) Emissions in the scope of Regulation (EU) 2018/842.

(6) It shall be reported to which inventory submission the base year was calibrated.

(7) Values for t-5 shall only be provided when t-5 is after the projection base year.

(8) ODS – ozone depleting substances.

(9) For the purposes of reporting, the signs for removal shall always be negative (-) and the s

(10) Projected indirect CO_2 emissions reported in this Table are part of the projected Total g

Annex XXV - Table 1a: Greenhouse gas projections by gases and categories [1]

Version 10 July 2023

Instructions (click the '+' in the left):

Inventory used for base year (6)	2020
Year of submission (YYYY)	

| Category (2) | Source or GWP(4) Partly AGGR | 1990 (4) | 1991 (4) | 1992 (4) | 1993 (4) | 1994 (4) | 1995 (4) | 1996 (4) | 1997 (4) | 1998 (4) | 1999 (4) | 2000 (4) | 2001 (4) | 2002 (4) | 2003 (4) | 2004 (4) | 2005 (4) | 2006 (4) | 2007 (4) | 2008 (4) | 2009 (4) | 2010 (4) | 2011 (4) | 2012 (4) | 2013 (4) | 2014 (4) | 2015 (4) | 2016 (4) | 2017 (4) | 2018 (4) | 2019 (4) | 2020 (4) | 2021 (4) | 2022 (4) | 2023 (4) | 2024 (4) | 2025 (4) | 2026 (4) | 2027 (4) | 2028 (4) | 2029 (4) | 2030 (4) | 2031 (4) | 2032 (4) | 2033 (4) | 2034 (4) | 2035 (4) | 2036 (4) | 2037 (4) | 2038 (4) | 2039 (4) | 2040 (4) | 2041 (4) | 2042 (4) | 2043 (4) | 2044 (4) | 2045 (4) | 2046 (4) | 2047 (4) | 2048 (4) | 2049 (4) | 2050 (4) | 2050 (4+10%) | 2050 (4-10%) | 2040 (4+10%) | 2040 (4-10%) | 2030 (4+10%) | 2030 (4-10%) |
|---|---|---

Annex XXV - Table 1a: Greenhouse gas projections by gases and categories [1]

Version 10 July 2023

Instructions (click the '+' in the left):

Inventory used for base year (6)	2020
Level of submission (YYYY)	

| Category (2) | Gases or GHG Verify GHG | MS (kt CO2e) | MS (kt CO2e) | MS (kt CO2e)

Annex XXV - Table 1a: Greenhouse gas projections by gases and categories [1]

Version 10 July 2023

Instructions (click the '+' in the left):

Inventory used for base year (6)	2020
Latest inventory (YYYY)	

| Category (2) | Source or GWP Ref. (4,5,6) | HFC (kt CO2e) | PFC (kt CO2e) | HFC (kt CO2e) | PFC (kt CO2e) | HFC (kt CO2e) | PFC (kt CO2e) | Unspecified mix of HFCs and PFCs (kt CO2e) | Unspecified mix of HFCs and PFCs (kt CO2e) | Unspecified mix of HFCs and PFCs

Annex XXV - Table 1a: Greenhouse gas projections by gases and categories [1]

Version 10 July 2023

Instructions (click the '+' in the left):

Inventory used for base year (6) (year of submission YYYY)	2022

Category (2)	Scenario (WEM, WAM, WOM)	Total GHG emissions (ktCO2e) 2035	Total GHG emissions (ktCO2e) 2040	Total GHG emissions (ktCO2e) 2045	Total GHG emissions (ktCO2e) 2050	ETS emissions (ktCO2e) (4) 2020	ETS emissions (ktCO2e) (4) 2025	ETS emissions (ktCO2e) (4) 2030	ETS emissions (ktCO2e) (4) 2035	ETS emissions (ktCO2e) (4) 2040	ETS emissions (ktCO2e) (4) 2045	ETS emissions (ktCO2e) (4) 2050	ESR emissions (ktCO2e) (5) 2020
Total excluding LULUCF	WEM	112808.90	105861.88	92661.23	89468.95	74089.44	70362.74	41122.63	37977.05	36857.60	33995.67	32559.65	91374.43
Total including LULUCF	WEM	115893.18	108781.84	95458.63	92130.21	74089.44	70362.74	41122.63	37977.05	36857.60	33995.67	32559.65	91398.58
1. Energy	WEM	87464.80	81456.94	66127.23	63324.24	68796.63	63319.94	36702.60	33430.95	32930.40	27425.62	25991.32	66135.26
1.A. Fuel combustion	WEM	83009.23	77345.12	64043.90	61420.90	67898.29	59749.74	32305.27	29344.40	29170.02	25458.99	24275.87	65628.06
1.A.1. Energy industries	WEM	13537.83	13982.07	NK	NK	46087.26	38080.82	14741.58	11762.20	12335.18	NK	NK	1733.58
1.A.1.a. Public electricity and heat production	WEM	7976.93	9321.17	NK	NK	34462.24	27186.07	9074.73	6707.54	8053.01	NK	NK	1283.82
1.A.1.b. Petroleum refining	WEM	3422.57	3047.24	NK	NK	9310.45	8016.81	3511.28	3343.39	2970.51	NK	NK	87.71
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM	2138.32	1613.66	NK	NK	2314.56	2877.94	2155.57	1711.27	1311.66	NK	NK	362.06
1.A.2. Manufacturing industries and construction	WEM	22090.39	21135.90	NK	NK	21291.11	21271.42	17219.40	17273.23	16559.39	NK	NK	5978.66
1.A.3. Transport	WEM	23594.22	20723.65	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	26286.59
1.A.3.a. Domestic aviation	WEM	31.39	31.13	NK	NK								0.18
1.A.3.b. Road transportation	WEM	22534.55	19667.37	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	25437.38
1.A.3.c. Railways	WEM	62.72	64.22	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	60.84
1.A.3.d. Domestic navigation	WEM	965.55	960.93	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	699.15
1.A.3.e. Other transportation	WEM	IE	IE	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	IE
1.A.4. Other sectors	WEM	23627.65	21344.36	NK	NK	519.92	397.49	344.29	308.96	275.45	NK	NK	31465.85
1.A.4.a. Commercial/Institutional	WEM	4267.22	3629.34	NK	NK	313.08	235.91	208.33	185.32	153.72	NK	NK	6118.12
1.A.4.b. Residential	WEM	12624.14	11011.96	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	15424.84
1.A.4.c. Agriculture/Forestry/Fishing	WEM	6736.29	6703.06	NK	NK	206.84	161.58	135.97	123.65	121.73	NK	NK	9922.89
1.A.5. Other	WEM	159.14	159.14	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	163.38
1.B. Fugitive emissions from fuels	WEM	4455.57	4111.83	2083.33	1903.34	898.34	3570.20	4397.33	4086.55	3760.38	1966.63	1715.45	507.20
1.B.1. Solid fuels	WEM	149.31	139.31	NK	NK	77.10	61.44	188.32	149.31	139.31	NK	NK	0.00
1.B.2. Oil and natural gas and other emissions from energy production	WEM	4306.26	3972.52	NK	NK	821.24	3508.76	4209.01	3937.25	3621.08	NK	NK	507.20
1.C. CO2 transport and storage	WEM	NO	NO	NK	NK	NO	NO	NO	NO	NO	NK	NK	NO
2. Industrial processes	WEM	6055.12	5502.53	8008.97	7934.10	5292.26	7042.80	4420.03	4546.10	3927.20	6570.05	6568.33	3348.66
2.A. Mineral industry	WEM	1167.18	1180.69	NK	NK	584.47	660.53	645.32	655.49	667.40	NK	NK	485.15
2.A.1. Cement production	WEM	NO	NO	NK	NK	NO					NK	NK	NO
2.B. Chemical industry	WEM	3778.54	3259.10	NK	NK	4541.79	6232.04	3623.61	3738.72	3107.00	NK	NK	1205.67
2.C. Metal industry	WEM	151.89	152.80	NK	NK	155.35	150.23	151.10	151.89	152.80	NK	NK	0.00
2.C.1. Iron and steel production	WEM	NE	NE	NK	NK	17.13	NE	NE	NE	NE	NK	NK	0.00
2.D. Non-energy products from fuels and solvent use	WEM	330.13	331.09	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	335.04
2.E. Electronics industry	WEM	36.01	37.08	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	38.77
2.F. Product uses as substitutes for ODS (8)	WEM	465.64	415.64	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	1017.14
2.G. Other product manufacture and use	WEM	112.95	112.95	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	260.42
2.H. Other	WEM	12.78	13.18	NK	NK	0.00	0.00	0.00	0.00	0.00	NK	NK	17.12
3. Agriculture	WEM	17345.10	17224.23	17012.10	16873.84								18450.27
3.A. Enteric fermentation	WEM	9025.97	8995.71	NK	NK								9179.74
3.B. Manure management	WEM	3649.87	3626.17	NK	NK								4830.77
3.C. Rice cultivation	WEM	NO	NO	NK	NK								NO
3.D. Agricultural soils	WEM	IE	IE	NK	NK								4361.55
3.E. Prescribed burning of savannahs	WEM	NO	NO	NK	NK								NO
3.F. Field burning of agricultural residues	WEM	NO	NO	NK	NK								NO
3.G. Liming	WEM	29.47	28.93	NK	NK								31.03
3.H. Urea application	WEM	44.79	43.98	NK	NK								47.17
3.I. Other carbon-containing fertilizers	WEM	NO	NO	NK	NK								NO
3.J. Other (please specify)	WEM	NO	NO	NK	NK								NO
4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)	WEM	3092.73	2928.71	2797.40	2661.26								
4.A. Forest land	WEM	-2338.42	-2512.47										
4.B. Cropland	WEM	1800.38	1864.66										
4.C. Grassland	WEM	2469.07	2406.62										
4.D. Wetlands	WEM	-38.51	-1.99										
4.E. Settlements	WEM	1036.56	1077.69										
4.F. Other Land	WEM	66.33	0.00										
4.G. Harvested wood products	WEM	97.33	94.19										
4.H. Other	WEM	NA	NA										
5. Waste	WEM	1491.09	1216.18	1042.93	846.77								3021.48
5.A. Solid Waste Disposal	WEM	1003.32	728.41	NK	NK								2477.53
5.B. Biological treatment of solid waste	WEM	190.39	190.39	NK	NK								210.84
5.C. Incineration and open burning of waste	WEM	NE	NE	NK	NK								0.21
5.D. Wastewater treatment and discharge	WEM	297.38	297.38	NK	NK								332.90
5.E. Other (please specify)	WEM	NE	NE	NK	NK								0.00
Memo items	WEM												
International bunkers	WEM	48616.00	48465.95	47819.63	48640.48								
IB.Aviation	WEM	12237.69	12134.50	12040.60	12040.08								
IB.Navigation	WEM	36378.32	36331.45	35779.03	36600.40								
CO2 emissions from biomass	WEM	13628.04	22443.63	23317.45	24500.28								
CO2 captured	WEM	8869.56	9050.09	9100.00	9098.54		11.71	7686.80	7380.66	7561.18			
Indirect CO2 (if available) (10)	WEM	452.78	462.01	470.00	490.00								419.32
Total excluding LULUCF	WAM	111721.69	103232.57			74089.44	70404.90	41688.02	39105.86	38734.06			91374.43
Total including LULUCF	WAM	114805.97	106152.53			74089.44	70404.90	41688.02	39105.86	38734.06			91398.58
1. Energy	WAM	86487.48	78929.25			68796.63	63360.89	37396.53	34671.81	34910.14			66135.26
1.A. Fuel combustion	WAM	82047.72	74817.04			67898.29	59790.69	32999.07	30601.06	31149.37			65628.06
1.A.1. Energy industries	WAM	14735.32	15703.99			46087.26	38123.69	15303.99	12951.69	14049.37			1733.58
1.A.1.a. Public electricity and heat production	WAM	9174.44	11119.08			34462.24	27264.44	9637.43	7897.04	9842.81			1283.82
1.A.1.b. Petroleum refining	WAM	3422.57	2970.70			9310.45	7981.31	3511.25	3343.39	2894.49			87.71
1.A.1.c. Manufacture of solid fuels and other energy industries	WAM	2138.31	1614.20			2314.56	2877.94	2155.31	1711.26	1312.07			362.06
1.A.2. Manufacturing industries and construction	WAM	22168.09	21425.95			21291.11	21270.57	17355.74	17341.01	16821.38			5978.66
1.A.3. Transport	WAM	21424.50	16150.50			0.00	0.00	0.00	0.00	0.00			26286.59
1.A.3.a. Domestic aviation	WAM	31.39	31.13										0.18
1.A.3.b. Road transportation	WAM	20347.29	15081.80			0.00	0.00	0.00	0.00	0.00			25437.38
1.A.3.c. Railways	WAM	64.36	64.41			0.00	0.00	0.00	0.00	0.00			60.84
1.A.3.d. Domestic navigation	WAM	981.46	973.16			0.00	0.00	0.00	0.00	0.00			699.15
1.A.3.e. Other transportation	WAM	IE	IE			0.00	0.00	0.00	0.00	0.00			IE
1.A.4. Other sectors	WAM	23560.67	21377.46			519.92	396.42	339.34	308.36	278.62			31465.85
1.A.4.a. Commercial/Institutional	WAM	4241.55	3618.06			313.08	234.34	205.48	183.61	153.12			6118.12
1.A.4.b. Residential	WAM	12518.26	10921.06			0.00	0.00	0.00	0.00	0.00			15424.84
1.A.4.c. Agriculture/Forestry/Fishing	WAM	6800.86	6838.34			206.84	162.08	133.86	124.76	125.50			9922.89
1.A.5. Other	WAM	159.14	159.14			0.00	0.00	0.00	0.00	0.00			163.38
1.B. Fugitive emissions from fuels	WAM	4439.76	4112.21			898.34	3570.20	4397.46	4070.75	3760.77			507.20
1.B.1. Solid fuels	WAM	149.31	139.36			77.10	61.44	188.50	149.31	139.36			0.00
1.B.2. Oil and natural gas and other emissions from energy production	WAM	4290.46	3972.85			821.24	3508.76	4208.96	3921.44	3621.41			507.20
1.C. CO2 transport and storage	WAM	NO	NO			NO	NO	NO	NO	NO			NO
2. Industrial processes	WAM	5943.22	5398.88			5292.26	7044.01	4291.49	4434.05	3823.92			3348.66
2.A. Mineral industry	WAM	1167.18	1180.69			584.47	660.56	645.32	655.49	667.40			485.15
2.A.1. Cement production	WAM	NO	NO			NO	NO	NO	NO	NO			NO
2.B. Chemical industry	WAM	3666.50	3155.34			4541.79	6233.22	3495.07	3626.68	3003.72			1205.67
2.C. Metal industry	WAM	151.89	152.80			155.35	150.23	151.10	151.89	152.80			0.00
2.C.1. Iron and steel production	WAM	NE	NE			17.13	NE	NE	NE	NE			0.00
2.D. Non-energy products from fuels and solvent use	WAM	330.27	331.20			0.00	0.00	0.00	0.00	0.00			335.04
2.E. Electronics industry	WAM	36.01	37.08			0.00	0.00	0.00	0.00	0.00			38.77
2.F. Product uses as substitutes for ODS (8)	WAM	465.64	415.64			0.00	0.00	0.00	0.00	0.00			1017.14
2.G. Other product manufacture and use	WAM	112.95	112.95			0.00	0.00	0.00	0.00	0.00			260.42
2.H. Other	WAM	12.78	13.18			0.00	0.00	0.00	0.00	0.00			17.12
3. Agriculture	WAM	17347.12	17226.26										18450.27
3.A. Enteric fermentation	WAM	9025.97	8995.71										9179.74
3.B. Manure management	WAM	3649.87	3626.17										4830.77
3.C. Rice cultivation	WAM	NO	NO										0.00
3.D. Agricultural soils	WAM	IE	IE										4361.55
3.E. Prescribed burning of savannahs	WAM	NO	NO										0.00
3.F. Field burning of agricultural residues	WAM	NO	NO										0.00
3.G. Liming	WAM	29.47	28.93										31.03
3.H. Urea application	WAM	44.79	43.98										47.17
3.I. Other carbon-containing fertilizers	WAM	NO	NO										0.00
3.J. Other (please specify)	WAM	NO	NO										0.00
4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)	WAM	3084.29	2919.96										
4.A. Forest land	WAM	-2346.47	-2520.83										
4.B. Cropland	WAM	1800.39	1864.66										
4.C. Grassland	WAM	2468.66	2406.21										
4.D. Wetlands	WAM	-38.49	-1.98										
4.E. Settlements	WAM	1036.56	1077.70										
4.F. Other Land	WAM	66.32	0.00										
4.G. Harvested wood products	WAM	97.33	94.19										
4.H. Other	WAM	NA	NA										
5. Waste	WAM	1491.09	1216.18										3021.48
5.A. Solid Waste Disposal	WAM	1003.32	728.41										2477.53
5.B. Biological treatment of solid waste	WAM	190.39	190.39										210.84
5.C. Incineration and open burning of waste	WAM	NE	NE										0.21
5.D. Wastewater treatment and discharge	WAM	297.38	297.38										332.90
5.E. Other (please specify)	WAM	NE	NE										0.00
Memo items	WAM												
International bunkers	WAM	46134.91	45095.29										
IB.Aviation	WAM	9747.98	8768.31										
IB.Navigation	WAM	36386.93	36326.98										
CO2 emissions from biomass	WAM	14582.27	25078.74										
CO2 captured	WAM	8809.05	8903.28				47.21	7554.75	7328.16	7422.41			
Indirect CO2 (if available) (10)	WAM	452.77	462.00										419.32

Notes

Notation: t signifies the first future year ending with 0 or 5 immediately following the repor

(1) Consistency with the data reported under Article 8 of this Regulation is encouraged.

(2) Use of notation keys: as regards the terms of use defined in the 2006 IPCC Guidelines for

(3) Unspecified mix of HFCs and PFCs is to be reported only if emissions are projected, for w

(4) Emissions in the scope of Directive 2003/87/EC

(5) Emissions in the scope of Regulation (EU) 2018/842.

(6) It shall be reported to which inventory submission the base year was calibrated.

(7) Values for t-5 shall only be provided when t-5 is after the projection base year.

(8) ODS – ozone depleting substances.

(9) For the purposes of reporting, the signs for removal shall always be negative (-) and the s

(10) Projected indirect CO2 emissions reported in this Table are part of the projected Total g

Annex XXV - Table 1a: Greenhouse gas projections by gases and categories [1]

Version 10 July 2023

Instructions (click the '+' in the left):

Inventory used for base year (6)	2020
Year of submission (YYYY)	

Category (2)	Source (GHG Inv.Yr.-NCAR)	5.Gas.a.1.WM(Inv.Yr.)	5.Gas.a.2.WM(Inv.Yr.)	5.Gas.a.3.WM(Inv.Yr.)	5.Gas.a.4.WM(Inv.Yr.)	5.Gas.a.5.WM(Inv.Yr.)	5.Gas.a.6.WM(Inv.Yr.)	5.Gas.a.7.WM(Inv.Yr.)	5.Gas.a.8.WM(Inv.Yr.)	5.Gas.a.9.WM(Inv.Yr.)	5.Gas.a.10.WM(Inv.Yr.)	5.Gas.a.11.WM(Inv.Yr.)	5.Gas.a.12.WM(Inv.Yr.)	5.Gas.a.13.WM(Inv.Yr.)	5.Gas.a.14.WM(Inv.Yr.)	5.Gas.a.15.WM(Inv.Yr.)	5.Gas.a.16.WM(Inv.Yr.)	5.Gas.a.17.WM(Inv.Yr.)	5.Gas.a.18.WM(Inv.Yr.)	5.Gas.a.19.WM(Inv.Yr.)	5.Gas.a.20.WM(Inv.Yr.)	5.Gas.a.21.WM(Inv.Yr.)	5.Gas.a.22.WM(Inv.Yr.)	5.Gas.a.23.WM(Inv.Yr.)	5.Gas.a.24.WM(Inv.Yr.)	5.Gas.a.25.WM(Inv.Yr.)	5.Gas.a.26.WM(Inv.Yr.)
		2020	2025	2027	2028	2030	2040	2050	2060	2070	2080	2025	2030	2040	2050	2060	2070	2080	2025	2030	2040	2050	2060	2070	2080	2025	2030
Total including LULUCF	kt CO2	47436.14					7448.14					7448.14					6877.14						5853.14					5353.14
Total excluding LULUCF	kt CO2	49436.14					7448.14					7448.14					6877.14						5853.14					5353.14
1. Energy	kt CO2	43436.14					5236.14					5236.14					4859.14						3859.14					3359.14
1.A. Fuel combustion	kt CO2	43436.14					5236.14					5236.14					4859.14						3859.14					3359.14
1.A.1. Energy industries	kt CO2	4160.14					1147.14					1147.14					910.14						42					42
1.A.1.a. Public electricity and heat production	kt CO2	2967.14					1147.14					1147.14					910.14						42					42
1.A.1.b. Petroleum refining	kt CO2	37.14					37.14					37.14					37.14						42					42
1.A.1.c. Manufacture of solid fuels and other energy industries	kt CO2	1156.14					1156.14					1156.14					1156.14						42					42
1.A.2. Manufacturing industries and construction	kt CO2	4.14					4.14					4.14					4.14						42					42
1.A.3. Transport	kt CO2	24.14					24.14					24.14					24.14						42					42
1.A.3.a. Domestic aviation	kt CO2	0.14					0.14					0.14					0.14						42					42
1.A.3.b. Road transportation	kt CO2	24.14					24.14					24.14					24.14						42					42
1.A.3.c. Railways	kt CO2	0.14					0.14					0.14					0.14						42					42
1.A.3.d. Domestic navigation	kt CO2	0.14					0.14					0.14					0.14						42					42
1.A.3.e. Other transportation	kt CO2	0					0					0					0						42					42
1.A.4. Other sectors	kt CO2	2327.14					2327.14					2327.14					2327.14						42					42
1.A.4.a. Commercial/Institutional	kt CO2	398.14					398.14					398.14					398.14						42					42
1.A.4.b. Residential	kt CO2	1929.14					1929.14					1929.14					1929.14						42					42
1.A.4.c. Agriculture/Forestry/Fishing	kt CO2	2.14					2.14					2.14					2.14						42					42
1.A.5. Other	kt CO2	0.14					0.14					0.14					0.14						42					42
1.B. Fugitive emissions from fuels	kt CO2	0.14					0.14					0.14					0.14						42					42
1.B.1. Solid fuels	kt CO2	0.14					0.14					0.14					0.14						42					42
1.B.2. Oil and natural gas and other emissions from energy production	kt CO2	0.14					0.14					0.14					0.14						42					42
1.C. CO2 transport and storage	kt CO2	0					0					0					0						42					42
2. Industrial processes	kt CO2	2000.14					2000.14					2000.14					2000.14						2000.14					2000.14
2.A. Mineral industry	kt CO2	0.14					0.14					0.14					0.14						42					42
2.A.1. Cement production	kt CO2	0					0					0					0						42					42
2.B. Chemical industry	kt CO2	0.14					0.14					0.14					0.14						42					42
2.C. Metal industry	kt CO2	0.14					0.14					0.14					0.14						42					42
2.C.1. Iron and steel production	kt CO2	0					0					0					0						42					42
2.D. Non-energy products from fuels and solvent use	kt CO2	2000.14					2000.14					2000.14					2000.14						42					42
2.E. Electronics industry	kt CO2	0.14					0.14					0.14					0.14						42					42
2.F. Product uses as substitutes for ODS (8)	kt CO2	0.14					0.14					0.14					0.14						42					42
2.G. Other product manufacture and use	kt CO2	0.14					0.14					0.14					0.14						42					42
2.H. Other	kt CO2	0.14					0.14					0.14					0.14						42					42
3. Agriculture	kt CO2	1750.14					1750.14					1750.14					1750.14						42					42
3.A. Enteric fermentation	kt CO2	897.14					897.14					897.14					897.14						42					42
3.B. Manure management	kt CO2	604.14					604.14					604.14					604.14						42					42
3.C. Rice cultivation	kt CO2	0					0					0					0						42					42
3.D. Agricultural soils	kt CO2	0					0					0					0						42					42
3.E. Prescribed burning of savannahs	kt CO2	0					0					0					0						42					42
3.F. Field burning of agricultural residues	kt CO2	0					0					0					0						42					42
3.G. Liming	kt CO2	34.14					34.14					34.14					34.14						42					42
3.H. Urea application	kt CO2	14.14					14.14					14.14					14.14						42					42
3.I. Other carbon-containing fertilizers	kt CO2	0					0					0					0						42					42
3.J. Other (please specify)	kt CO2	0					0					0					0						42					42
4. Land Use, Land Use Change and Forestry (LULUCF), reported emissions and removals (9)	kt CO2																										
4.A. Forest land	kt CO2																										
4.B. Cropland	kt CO2																										
4.C. Grassland	kt CO2																										
4.D. Wetlands	kt CO2																										
4.E. Settlements	kt CO2																										
4.F. Other land	kt CO2																										
4.G. Harvested wood products	kt CO2																										
4.H. Other	kt CO2																										
5. Waste	kt CO2	2000.14					2000.14					2000.14					2000.14						2000.14					2000.14
5.A. Solid Waste Disposal	kt CO2	1600.14					1600.14					1600.14					1600.14						42					42
5.B. Biological treatment of solid waste	kt CO2	200.14					200.14					200.14					200.14						42					42
5.C. Incineration and open burning of waste	kt CO2	0.14					0.14					0.14					0.14						42					42
5.D. Wastewater treatment and discharge	kt CO2	200.14					200.14					200.14					200.14						42					42
5.E. Other (please specify)	kt CO2	0.14					0.14					0.14					0.14						42					42
Memo items	kt CO2																										
International bunkers	kt CO2																										
1B.Aviation	kt CO2																										
1B.Navigation	kt CO2																										
CO2 emissions from biomass	kt CO2																										
CO2 captured	kt CO2	50.14					50.14					50.14					50.14						50.14					50.14
Indirect CO2 (if not earlier LULUCF)	kt CO2	49.14					49.14					49.14					49.14						49.14					49.14
Total including LULUCF	kt CO2	47436.14					7448.14					7448.14					6877.14						5853.14					5353.14
Total excluding LULUCF	kt CO2	47436.14					7448.14					7448.14					6877.14						5853.14					5353.14
1. Energy	kt CO2	43436.14					5236.14					5236.14					4859.14						3859.14					3359.14
1.A. Fuel combustion	kt CO2	43436.14					5236.14					5236.14					4859.14						3859.14					3359.14
1.A.1. Energy industries	kt CO2	4160.14					1147.14					1147.14					910.14						42					42
1.A.1.a. Public electricity and heat production	kt CO2	2967.14					1147.14					1147.14					910.14						42					42
1.A.1.b. Petroleum refining	kt CO2	37.14					37.14					37.14					37.14						42					42
1.A.1.c. Manufacture of solid fuels and other energy industries	kt CO2	1156.14					1156.14					1156.14					1156.14						42					42
1.A.2. Manufacturing industries and construction	kt CO2	4.14					4.14					4.14					4.14						42					42
1.A.3. Transport	kt CO2	24.14					24.14					24.14					24.14						42					42
1.A.3.a. Domestic aviation	kt CO2	0.14					0.14					0.14					0.14						42					42
1.A.3.b. Road transportation	kt CO2	24.14					24.14					24.14					24.14						42					42
1.A.3.c. Railways	kt CO2	0.14					0.14					0.14					0.14						42					42
1.A.3.d. Domestic navigation	kt CO2	0.14					0.14					0.14					0.14						42					42
1.A.3.e. Other transportation	kt CO2	0					0					0					0						42					42
1.A.4. Other sectors	kt CO2	2327.14					2327.14					2327.14					2327.14						42					42
1.A.4.a. Commercial/Institutional	kt CO2	398.14					398.14					398.14					398.14						42					42
1.A.4.b. Residential	kt CO2	1929.14					1929.14					1929.14					1929.14						42					42
1.A.4.c. Agriculture/Forestry/Fishing	kt CO2	2.14					2.14					2.14					2.14						42					42
1.A.5. Other	kt CO2	0.14					0.14					0.14					0.14						42					42
1.B. Fugitive emissions from fuels	kt CO2	0.14					0.14					0.14					0.14						42					42
1.B.1. Solid fuels	kt CO2	0.14					0.14					0.14					0.14						42					42
1.B.2. Oil and natural gas and other emissions from energy production	kt CO2	0.14					0.14					0.14					0.14						42					42
1.C. CO2 transport and storage	kt CO2	0					0					0					0						42					42
2. Industrial processes	kt CO2	2000.14					2000.14					2000.14					2000.14						2000.14					2000.14
2.A. Mineral industry	kt CO2	0.14					0.14					0.14					0.14						42					42
2.A.1. Cement production	kt CO2	0					0					0					0						42					42
2.B. Chemical industry	kt CO2	0.14					0.14					0.14					0.14						42					42
2.C. Metal industry	kt CO2	0.14					0.14					0.14					0.14						42					42
2.C.1. Iron and steel production	kt CO2	0					0					0					0						42					42
2.D. Non-energy products from fuels and solvent use	kt CO2	2000.14					2000.14					2000.14					2000.14						42					42
2.E. Electronics industry	kt CO2	0.14					0.14					0.14					0.14						42					42
2.F. Product uses as substitutes for ODS (8)	kt CO2	0.14					0.14					0.14					0.14						42					42
2.G. Other product manufacture and use	kt CO2	0.14					0.14					0.14					0.14						42					42
2.H. Other	kt CO2	0.14					0.14					0.14					0.14						42					42
3. Agriculture	kt CO2	1750.14					1750.14					1750.14					1750.14						42					42
3.A. Enteric fermentation	kt CO2	897.14					897.14					897.14					897.14						42					42
3.B. Manure management	kt CO2	604.14					604.14					604.14					604.14						42					42
3.C. Rice cultivation	kt CO2	0					0					0					0						42					42
3.D. Agricultural soils	kt CO2	0.14					0.14					0.14					0.14						42					42
3.E. Prescribed burning of savannahs	kt CO2	0.14					0.14					0.14					0.14						42					42
3.F. Field burning of agricultural residues	kt CO2	0.14					0.14					0.14					0.14						42					42
3.G. Liming	kt CO2	34.14					34.14					34.14					34.14						42					42
3.H. Urea application	kt CO2	14.14					14.14					14.14					14.14						42					42
3.I. Other carbon-containing fertilizers	kt CO2	0.14					0.14					0.14					0.14						42					42
3.J. Other (please specify)	kt CO2	0.14					0.14					0.14					0.14						42					42
4. Land Use, Land Use Change and Forestry (LULUCF), reported emissions and removals (9)	kt CO2																										
4.A. Forest land	kt CO2																										
4.B. Cropland	kt CO2																										
4.C. Grassland	kt CO2																										
4.D. Wetlands	kt CO2																										
4.E. Settlements	kt CO2																										
4.F. Other land	kt CO2																										
4.G. Harvested wood products	kt CO2																										
4.H. Other	kt CO2																										
5. Waste	kt CO2	2000.14					2000.14					2000.14					2000.14						2000.14					2000.14
5.A. Solid Waste Disposal	kt CO2	1600.14					1600.14					1600.14					1600.14						42					42
5.B. Biological treatment of solid waste	kt CO2	200.14					200.14					200.14					200.14						42					42
5.C. Incineration and open burning of waste	kt CO2	0.14					0.14					0.14					0.14						42					42
5.D. Wastewater treatment and discharge	kt CO2	200.14					200.14					200.14					200.14						42					42
5.E. Other (please specify)	kt CO2	0.14					0.14					0.14					0.14						42					42
Memo items	kt CO2																										
International bunkers	kt CO2																										
1B.Aviation	kt CO2																										
1B.Navigation	kt CO2																										
CO2 emissions from biomass	kt CO2																										
CO2 captured	kt CO2	50.14					50.14					50.14					50.14						50.14					50.14
Indirect CO2 (if not earlier LULUCF)	kt CO2	49.14					49.14					49.14					49.14						49.14					49.14

Notes

Notation: 1 signifies the first future year ending with 0 or 5 immediately following the repor
(1) Consistency with the data reported under Article 9 of this Regulation is encouraged.
(2) Use of notation keys, as regards the terms of use defined in the 2006 IPCC Guidelines for
(3) Unspecified mix of HFCs and PFCs is to be reported only if emissions are projected, for w
(4) Emissions in the scope of Directive 2003/87/EC
(5) Emissions in the scope of Regulation (EU) 2018/842.
(6) It shall be reported to which inventory submission the base year was calibrated.
(7) Values for 5-10 all only be provided when 5-to. after the projection base year.
(8) ODS = ozone depleting substances.
(9) For the purposes of reporting, the signs for removal shall always be negative (-) and the r
(10) Projected indirect CO2 emissions reported in this table are part of the projected Table1