

# Article 38 Reporting on national projections

Member States shall report the information on their national projections of anthropogenic greenhouse gas group of gases, referred to in Article 18(1)(b) and point (a) of Annex VII of Regulation (EU) 2018/1999 (2020/1208).

## Common parameters

Member State	FI
--------------	----

Submission Year	2024
-----------------	------

Global Warming Potential		
Pollutant	GWP	Source
N2O	265	<a href="#">IPCC (AR5)</a>
CH4	28	<a href="#">IPCC (AR5)</a>
SF6	23500	<a href="#">IPCC (AR5)</a>
NF3	16100	<a href="#">IPCC (AR5)</a>

## Index and general instructions

Sheet Index:
<a href="#">Table1a</a>
<a href="#">T1a QAQC(1)</a>
<a href="#">T1a QAQC(2)</a>
<a href="#">T1a QAQC(3)</a>
<a href="#">T1a QAQC(4)</a>
<a href="#">Table1b</a>
<a href="#">T1b QAQC(1)</a>
<a href="#">T1b QAQC(4)</a>
<a href="#">Table5a</a>
<a href="#">T5a QAQC(1)</a>
<a href="#">T5a QAQC(3)</a>
<a href="#">T5a QAQC(4)</a>
<a href="#">Table5b</a>

General instructions
This file contains tables 1a, 1b, 5a and 5b as specified in t
Sheets used for reporting (blue tabs) are accompanied by
The head of each sheet includes a brief description and in
Footnotes are located at the end of each table
Details on how to fill the template can be found in the gu
For help, please contact us at govreg@eea.europa.eu

Template version: v2.2  
FME version: v2.0  
Release: 21-02-23



ise gas emissions by sources and removals by sinks, organised by gas or  
3 in the format set out in Annex XXV to the Implementing Regulation



the Commission Implementing Regulation (EU) 2020/1208

y voluntary QAQC sheets (pink tabs) to aid reporters.  
nstructions. Click the + sign to show the rows with instructions.

idance document available at the section Dataflow help in the Reportnet dataflow









## Annex XXV - Table 1a: Greenhouse gas projections by gases and categories<sup>[1]</sup>

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

Inventory used for base year (6) (year of submission YYYY)	2024	t-5 (see footn	
	Scenario (WEM, WAM, WOM)	CO2 (kt)	CO2 (kt)
Category (2)		2022	2020
<b>Total excluding LULUCF</b>	WEM	36418,14	
<b>Total including LULUCF</b>	WEM	38253,95	
<b>1. Energy</b>	WEM	32091,27	
1.A. Fuel combustion	WEM	32026,32	
1.A.1. Energy industries	WEM	12327,24	
1.A.1.a. Public electricity and heat production	WEM	10912,07	
1.A.1.b. Petroleum refining	WEM	1415,17	
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM	IE	
1.A.2. Manufacturing industries and construction	WEM	6040,29	
1.A.3. Transport	WEM	9690,23	
1.A.3.a. Domestic aviation	WEM	135,19	
1.A.3.b. Road transportation	WEM	9156,41	
1.A.3.c. Railways	WEM	58,83	
1.A.3.d. Domestic navigation	WEM	339,80	
1.A.3.e. Other transportation	WEM	NO,IE	
1.A.4. Other sectors	WEM	3135,87	
1.A.4.a. Commercial/Institutional	WEM	1094,14	
1.A.4.b. Residential	WEM	641,37	
1.A.4.c. Agriculture/Forestry/Fishing	WEM	1400,36	
1.A.5. Other	WEM	832,68	
1.B. Fugitive emissions from fuels	WEM	64,95	
1.B.1. Solid fuels	WEM	NO	
1.B.2. Oil and natural gas and other emissions from energy production	WEM	64,95	
1.C. CO2 transport and storage	WEM	NO,IE,NA	
<b>2. Industrial processes</b>	WEM	4018,07	
2.A. Mineral Industry	WEM	940,24	
2.A.1. Cement production	WEM	NE	
2.B. Chemical industry	WEM	970,27	
2.C. Metal industry	WEM	1974,07	
2.C.1. Iron and steel production	WEM	NE	
2.D. Non-energy products from fuels and solvent use	WEM	133,48	
2.E. Electronics industry	WEM		
2.F. Product uses as substitutes for ODS (8)	WEM		
2.G. Other product manufacture and use	WEM	NO	
2.H. Other	WEM	NO	

<b>3. Agriculture</b>	WEM	257,59	
3.A. Enteric fermentation	WEM		
3.B. Manure management	WEM		
3.C. Rice cultivation	WEM		
3.D. Agricultural soils	WEM		
3.E. Prescribed burning of savannahs	WEM		
3.F. Field burning of agricultural residues	WEM		
3.G. Liming	WEM	249,83	
3.H. Urea application	WEM	7,76	
3.I. Other carbon-containing fertilizers	WEM	NA	
3.J. Other (please specify)	WEM	NO	
<b>4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)</b>	WEM	1835,80	
4.A. Forest land	WEM	-7203,53	
4.B. Cropland	WEM	8820,76	
4.C. Grassland	WEM	767,03	
4.D. Wetlands	WEM	1940,21	
4.E. Settlements	WEM	762,25	
4.F. Other Land	WEM	NO,NA	
4.G. Harvested wood products	WEM	-3250,91	
4.H. Other	WEM	NA	
<b>5. Waste</b>	WEM	NO,NE,IE	
5.A. Solid Waste Disposal	WEM		
5.B. Biological treatment of solid waste	WEM		
5.C. Incineration and open burning of waste	WEM	NO,NE,IE	
5.D. Wastewater treatment and discharge	WEM		
5.E. Other (please specify)	WEM	NO	
<b>Memo items</b>	WEM		
International bunkers	WEM	NE	
IB.Aviation	WEM	NE	
IB.Navigation	WEM	NE	
CO2 emissions from biomass	WEM	NE	
CO2 captured	WEM	-48,45	
Indirect CO2 (if available) (10)	WEM	51,22	
<b>Total excluding LULUCF</b>	WAM		
<b>Total including LULUCF</b>	WAM		
<b>Total excluding LULUCF</b>	WOM		
<b>Total including LULUCF</b>	WOM		

## 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 Greenhou:

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

(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 always be positive (+).

(10) Projected indirect CO<sub>2</sub> emissions reported in this Table are part of the projected **Total** greenhouse gas emissions.

L)

Note 7)

[illegible]

		201,42	201,42	201,42	201,42	201,42	201,42	201,42	201,42	201,42
		200,21	200,21	200,21	200,21	200,21	200,21	200,21	200,21	200,21
		1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21
		NA	NA	NA	NA	NA	NA	NA	NA	NA
		NO	NO	NO	NO	NO	NO	NO	NO	NO
		-1717,84	-6253,30	-6256,13	-7090,75	-7928,63	-8617,77	-9248,49	-9787,09	-9821,21
		-9463,42	-12266,40	-11570,61	-12361,93	-12934,07	-13462,50	-13885,67	-14251,95	-14423,64
		7292,46	6552,50	6357,71	6333,51	6085,54	5962,71	5815,57	5710,83	5616,66
		757,92	753,18	748,28	743,54	738,10	732,87	728,21	724,00	719,85
		1819,52	1751,98	1684,44	1631,10	1578,98	1524,85	1469,45	1414,06	1338,78
		1235,08	1249,46	1246,20	1218,75	1216,57	1213,28	1200,20	1187,91	1167,95
		NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA
		-3359,40	-4294,02	-4722,15	-4655,71	-4613,75	-4588,97	-4576,25	-4571,94	-4240,82
		NA	NA	NA	NA	NA	NA	NA	NA	NA
		NO	NO	NO	NO	NO	NO	NO	NO	NO
		NO	NO	NO	NO	NO	NO	NO	NO	NO
		NO	NO	NO	NO	NO	NO	NO	NO	NO
		NE	NE	NE	NE	NE	NE	NE	NE	NE
		NE	NE	NE	NE	NE	NE	NE	NE	NE
		NE	NE	NE	NE	NE	NE	NE	NE	NE
		NE	NE	NE	NE	NE	NE	NE	NE	NE
		-77,77	-90,17	-102,57	-103,56	-104,55	-105,53	-106,52	-107,51	-106,28
		46,24	44,27	42,19	39,46	37,17	35,32	33,03	31,53	30,10

se Gas Inventories (chapter 8: reporting guidance and Tables), the notation keys of IE (included elsewhere), NO (not occur elsewhere to report them under HFCs or under PFCs).



[illegible]

201,42	201,42	201,42	201,42	201,42	201,42	201,42	201,42	201,42	201,42	201,42
200,21	200,21	200,21	200,21	200,21	200,21	200,21	200,21	200,21	200,21	200,21
1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
-9769,44	-9787,59	-6074,03	-6205,89	-6492,54	-6661,08	-6609,88	-6660,10	-6731,32	-6846,83	-7156,20
-14604,39	-14730,63	-11227,46	-11430,92	-11753,71	-11958,30	-12005,90	-12128,24	-12218,13	-12446,69	-12772,80
5698,71	5729,15	5895,03	5961,22	6115,05	6195,01	6328,11	6404,76	6419,97	6495,84	6470,03
718,54	717,10	715,66	713,95	712,04	707,99	703,74	699,66	696,05	692,81	689,21
1261,89	1185,20	1109,58	1033,97	1004,09	978,15	952,10	925,52	899,50	883,70	870,77
1140,42	1093,43	1050,47	996,09	902,92	863,75	822,25	802,56	784,36	785,33	787,07
NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA
-3984,63	-3781,85	-3617,31	-3480,21	-3472,92	-3447,69	-3410,17	-3364,36	-3313,06	-3257,82	-3200,49
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
-105,04	-103,80	-102,57	-101,33	-101,09	-100,84	-100,59	-100,34	-100,10	-99,97	-99,85
28,65	27,20	25,76	24,35	22,87	21,76	20,70	19,65	18,63	17,57	17,27

irring), C (confidential) and NA (not applicable) may be used, as appropriate when projections do not yield data on a spec



[illegible]



201,42	201,42	201,42	201,42	201,42	201,42	201,42	201,42	93,87		
								77,69		
								16,19		
								NO		
								NE,NO		
								NO		
								0,00		
200,21	200,21	200,21	200,21	200,21	200,21	200,21	200,21			
1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21			
NA	NA	NA	NA	NA	NA	NA	NA			
NO	NO	NO	NO	NO	NO	NO	NO	NO		
-7646,58	-10695,73	-11133,55	-11371,56	-11764,14	-12208,93	-12569,65	-12757,59	30,29		
-13294,43	-16469,40	-16997,18	-17390,95	-17764,93	-18175,54	-18569,71	-18904,63	27,70		
6444,84	6513,98	6547,32	6553,47	6459,50	6350,75	6310,40	6384,42	0,00		
685,26	681,32	677,37	673,56	668,85	664,13	659,42	654,71	0,00		
876,65	882,52	888,40	913,91	939,42	964,93	990,43	1015,93	2,59		
783,13	779,02	774,90	844,38	841,11	837,84	834,66	831,56	NE,NA		
NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA	NO,NA		
-3142,04	-3083,18	-3024,36	-2965,93	-2908,10	-2851,04	-2794,84	-2739,57			
NA	NA	NA	NA	NA	NA	NA	NA	NA		
NO	NO	NO	NO	NO	NO	NO	NO	58,25		
								49,42		
								2,66		
NO	NO	NO	NO	NO	NO	NO	NO	NO,NE,IE		
								6,17		
NO	NO	NO	NO	NO	NO	NO	NO	NO		
NE	NE	NE	NE	NE	NE	NE	NE	NE		
NE	NE	NE	NE	NE	NE	NE	NE	NE		
NE	NE	NE	NE	NE	NE	NE	NE	NE		
NE	NE	NE	NE	NE	NE	NE	NE			
-99,73	-99,60	-99,48	-99,48	-99,48	-99,48	-99,48	-99,48			
16,98	16,68	16,41	16,12	15,86	15,63	15,38	15,17			

cific reporting level (see 2006 IPCC Guidelines). The use of the notation key NE (Not Estimated) shall be restricted to the s



[illegible]

[illegible]

situation where a disproportionate amount of effort would be required to collect data for a category or a gas from a spec



[illegible]

88,34	88,55	87,76	87,95	88,21	88,23	89,16	88,78	88,73	88,80	88,44
73,38	73,56	74,04	74,18	74,44	74,43	75,25	75,67	75,67	75,76	75,43
14,96	14,98	13,71	13,77	13,77	13,80	13,91	13,11	13,06	13,04	13,01
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
57,61	56,73	55,85	54,71	53,56	52,41	51,25	50,10	47,74	45,38	43,03
51,31	50,23	49,15	48,04	46,93	45,82	44,70	43,59	41,25	38,91	36,56
1,99	2,21	2,42	2,42	2,42	2,42	2,42	2,42	2,42	2,42	2,42
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
4,30	4,30	4,29	4,25	4,21	4,17	4,13	4,09	4,07	4,05	4,04
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
37,11	35,90	34,75	33,67	32,65	31,68	30,77	29,89	29,07	28,28	27,53
28,61	27,44	26,34	25,30	24,32	23,40	22,53	21,70	20,92	20,17	19,47
2,51	2,50	2,48	2,47	2,46	2,44	2,43	2,41	2,40	2,38	2,37
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5,99	5,96	5,93	5,90	5,87	5,84	5,81	5,78	5,75	5,72	5,69
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ific category that would be insignificant in terms of the overall level and trend in national emissions. In these circumstan





[illegible]

89,24	89,50	88,79	89,00	89,14	89,41	89,21	12,03			
76,15	76,60	75,99	76,21	76,36	76,60	76,62				
13,09	12,90	12,80	12,79	12,78	12,81	12,59	0,84			
NO	NO	NO	NO	NO	NO	NO				
NO	NO	NO	NO	NO	NO	NO	11,19			
NO	NO	NO	NO	NO	NO	NO	NO			
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00			
NO	NO	NO	NO	NO	NO	NO	NO			
40,68	39,44	38,23	37,02	35,81	34,60	34,62	6,63			
34,22	32,99	31,76	30,52	29,29	28,06	28,06	6,25			
2,42	2,42	2,42	2,42	2,42	2,42	2,42	0,03			
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00			
4,04	4,03	4,05	4,08	4,10	4,12	4,14	0,30			
NA	NA	NA	NA	NA	NA	NA	0,06			
NA	NA	NA	NA	NA	NA	NA	NA			
NA	NA	NA	NA	NA	NA	NA	NA			
26,82	26,13	25,48	24,86	24,27	23,70	23,15	0,36			
18,80	18,16	17,55	16,98	16,43	15,90	15,40				
2,36	2,34	2,33	2,31	2,30	2,28	2,27	0,13			
NO	NO	NO	NO	NO	NO	NO	NO,NE,IE			
5,66	5,63	5,60	5,57	5,54	5,51	5,48	0,23			
NO	NO	NO	NO	NO	NO	NO	NO			
NE	NE	NE	NE	NE	NE	NE	NE			
NE	NE	NE	NE	NE	NE	NE	NE			
NE	NE	NE	NE	NE	NE	NE	NE			

ces a Member State shall list all categories and gases from categories excluded on these grounds, together with a justification



[illegible]

12,19	11,96	11,63	11,38	11,30	11,17	11,18	11,16	11,18	11,09	11,05
0,81	0,79	0,79	0,79	0,78	0,78	0,77	0,75	0,75	0,75	0,75
11,39	11,16	10,84	10,59	10,52	10,39	10,41	10,40	10,42	10,33	10,31
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5,70	5,74	5,78	5,83	5,96	6,09	6,27	6,40	6,53	6,62	6,71
5,33	5,39	5,45	5,51	5,66	5,80	6,00	6,14	6,29	6,40	6,51
0,03	0,02	0,02	0,02	0,02	0,02	0,02	0,02	0,01	0,01	0,01
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0,28	0,26	0,25	0,24	0,23	0,22	0,20	0,19	0,17	0,15	0,13
0,06	0,06	0,06	0,06	0,06	0,05	0,05	0,05	0,05	0,05	0,05
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0,36	0,36	0,36	0,36	0,36	0,36	0,36	0,36	0,36	0,36	0,35
0,13	0,13	0,13	0,12	0,12	0,12	0,12	0,12	0,12	0,12	0,12
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
0,24	0,24	0,24	0,24	0,24	0,24	0,24	0,24	0,24	0,24	0,24
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ation in the report for exclusion in terms of the likely level of emissions or removals and identify the category as ‘not esti



[illegible]

11,02	10,78	10,80	10,82	10,86	10,88	10,81	10,83	10,86	10,90	10,92
0,75	0,69	0,68	0,68	0,68	0,69	0,64	0,64	0,64	0,63	0,64
10,28	10,10	10,11	10,14	10,18	10,19	10,17	10,19	10,22	10,27	10,28
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
6,80	6,83	6,87	6,91	6,95	6,99	7,03	6,99	6,95	6,92	6,89
6,63	6,68	6,73	6,77	6,82	6,87	6,91	6,88	6,85	6,82	6,79
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,00	0,00	0,00
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0,11	0,10	0,09	0,08	0,07	0,06	0,06	0,05	0,05	0,05	0,05
0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,34	0,34	0,34
0,12	0,12	0,11	0,11	0,11	0,11	0,11	0,11	0,11	0,11	0,11
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
0,24	0,24	0,24	0,24	0,24	0,24	0,24	0,24	0,24	0,24	0,24
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

mated’ using the notation key ‘NE’ in the reporting Tab





N2O (kt)	N2O (kt)	N2O (kt)	N2O (kt)	N2O (kt)	N2O (kt)	SF6 (kt)	SF6 (kt)	SF6 (kt)	SF6 (kt)	SF6 (kt)
2045	2046	2047	2048	2049	2050	2022	2020	2021	2022	2023
13,19	13,12	13,11	13,02	13,04	13,01	0,00				0,00
20,03	19,91	19,84	19,70	19,66	19,64	0,00				0,00
1,09	1,08	1,07	1,05	1,04	1,03					
1,09	1,08	1,07	1,05	1,04	1,03					
0,94	0,93	0,92	0,91	0,91	0,90					
NE	NE	NE	NE	NE	NE					
NE	NE	NE	NE	NE	NE					
NE	NE	NE	NE	NE	NE					
IE	IE	IE	IE	IE	IE					
0,16	0,15	0,14	0,14	0,13	0,13					
0,01	0,01	0,01	0,01	0,01	0,01					
0,14	0,13	0,13	0,12	0,12	0,11					
0,00	0,00	0,00	0,00	0,00	0,00					
0,01	0,01	0,01	0,01	0,01	0,01					
NE	NE	NE	NE	NE	NE					
IE	IE	IE	IE	IE	IE					
NE	NE	NE	NE	NE	NE					
NE	NE	NE	NE	NE	NE					
NE	NE	NE	NE	NE	NE					
IE	IE	IE	IE	IE	IE					
NE	NE	NE	NE	NE	NE					
NO	NO	NO	NO	NO	NO					
NE	NE	NE	NE	NE	NE					
0,86	0,88	0,89	0,91	0,93	0,95	0,00				0,00
0,86	0,88	0,89	0,91	0,93	0,95	NO				NO
NO	NO	NO	NO	NO	NO	NO				NO
NO	NO	NO	NO	NO	NO	NO				NO
NE	NE	NE	NE	NE	NE					
						NO				NO
						NO				NO
NE	NE	NE	NE	NE	NE	0,00				0,0010
NO	NO	NO	NO	NO	NO	0,00				0,0002

[illegible]



[illegible]

[illegible]



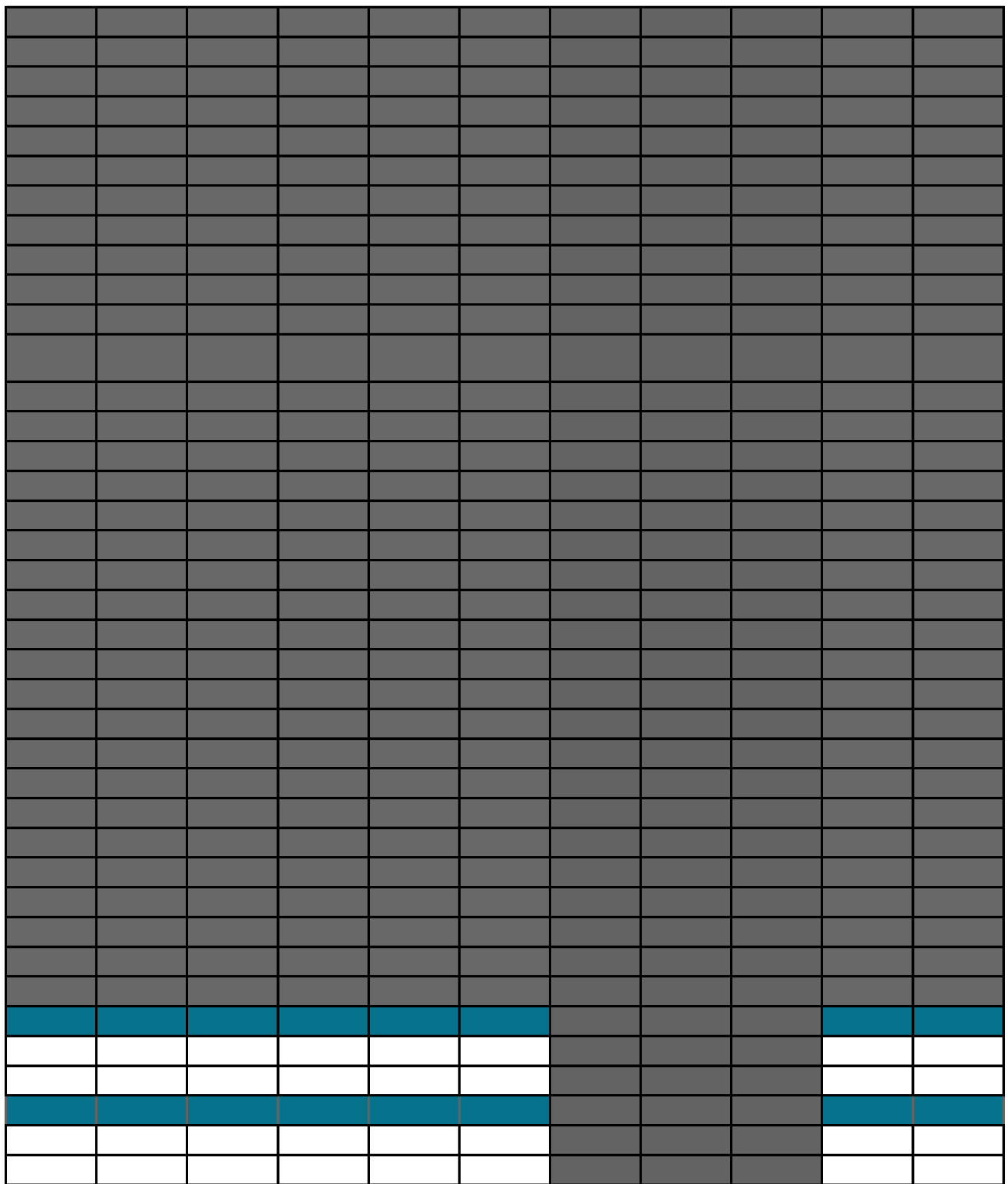
[illegible]



[illegible]



SF6 (kt)	SF6 (kt)	SF6 (kt)	SF6 (kt)	SF6 (kt)	NF3 (kt)	NF3 (kt)	NF3 (kt)	NF3 (kt)	NF3 (kt)	NF3 (kt)
2046	2047	2048	2049	2050	2022	2020	2021	2022	2023	2024
0,00	0,00	0,00	0,00	0,00	NO				NO	NO
0,00	0,00	0,00	0,00	0,00	NO				NO	NO
0,0018	0,00	0,00	0,00	0,00	NO				NO	NO
NO	NO	NO	NO	NO	NO				NO	NO
NO	NO	NO	NO	NO	NO				NO	NO
NO	NO	NO	NO	NO	NO				NO	NO
NO	NO	NO	NO	NO	NO				NO	NO
NO	NO	NO	NO	NO	NO				NO	NO
0,0016	0,0016	0,0016	0,0016	0,0016	NO				NO	NO
0,0002	0,0002	0,0002	0,0002	0,0002	NO				NO	NO





[illegible]

[illegible]



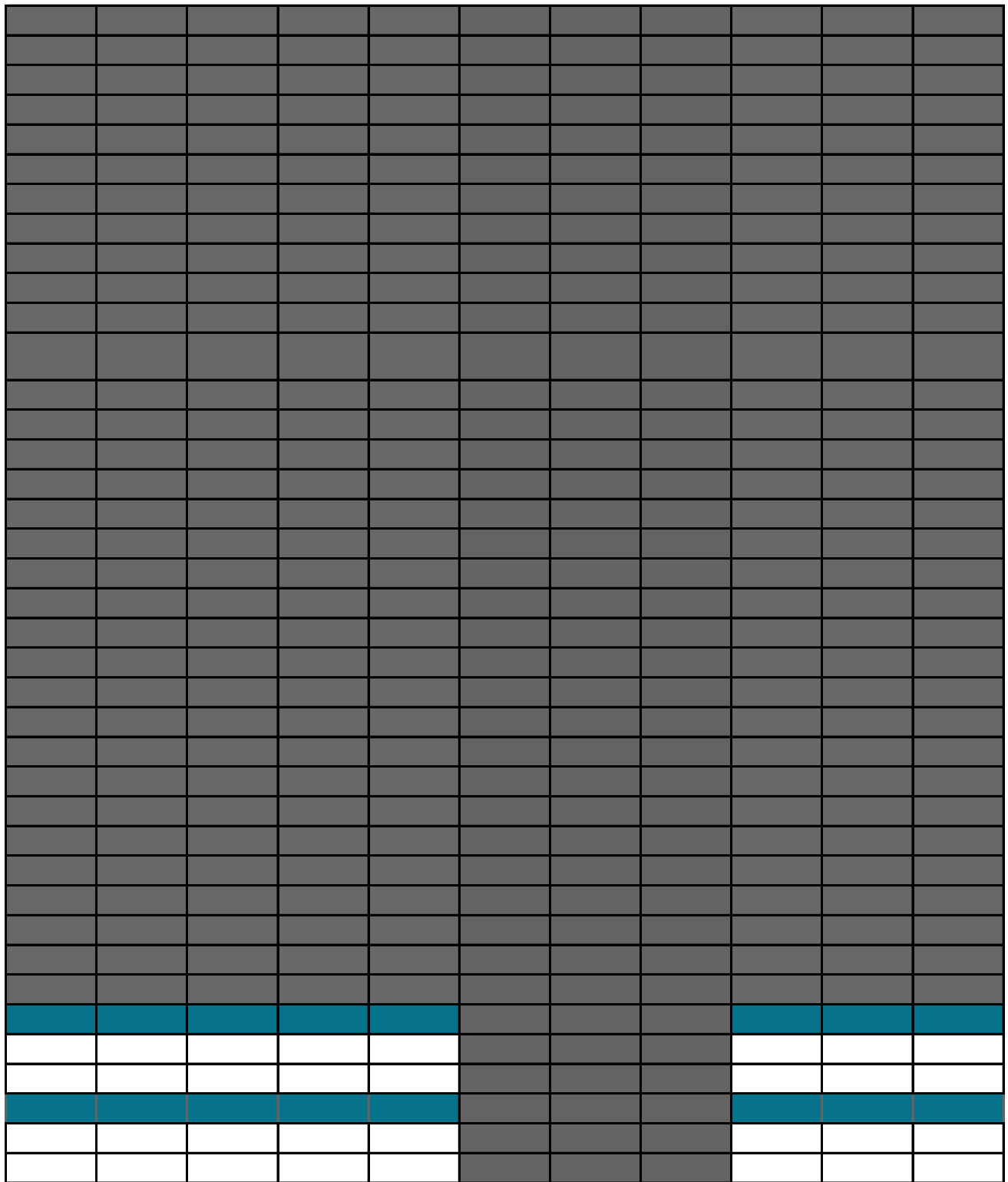


[illegible]

[illegible]



[illegible]





[illegible]

[illegible]



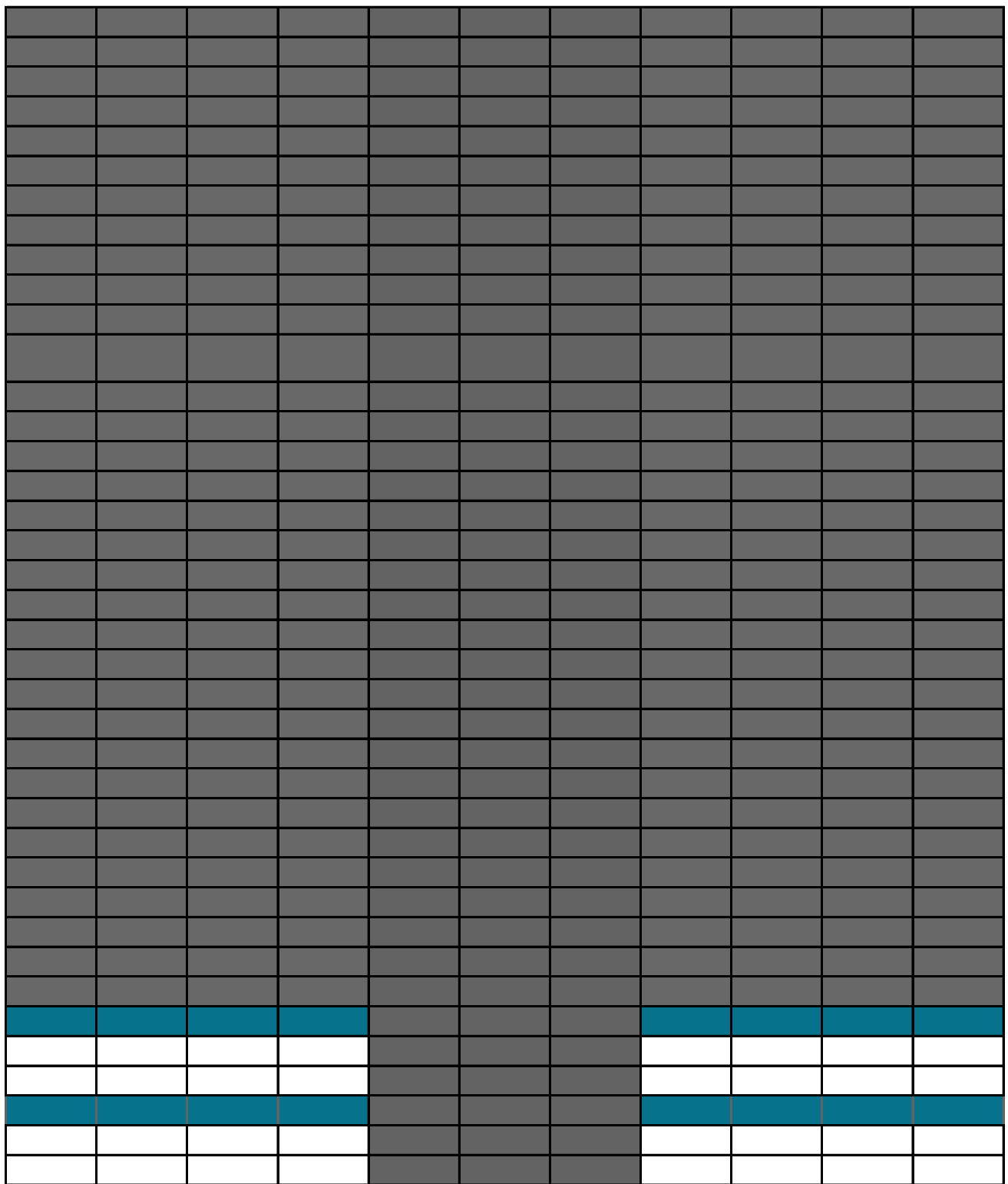


[illegible]

[illegible]



[illegible]





[illegible]



[illegible]

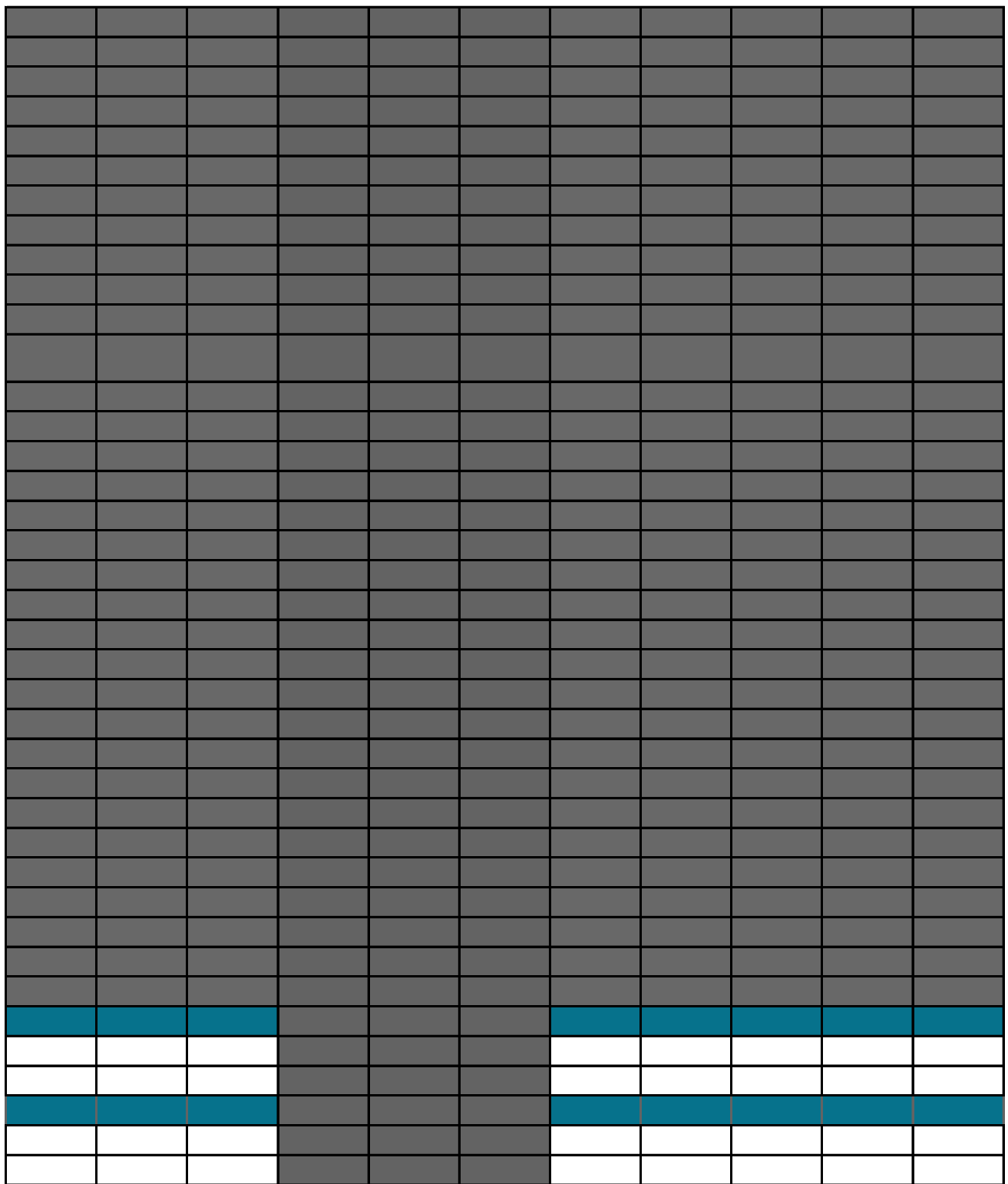


[illegible]

[illegible]



PFC (kt CO <sub>2</sub> e)	PFC (kt CO <sub>2</sub> e)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)	Unspecified mix of HFCs and PFCs (kt CO <sub>2</sub> e) (3)
2049	2050	2022	2020	2021	2022	2023	2024	2025	2026	2027
0,98	0,98	NO				NO	NO	NO	NO	NO
0,98	0,98	NO				NO	NO	NO	NO	NO
0,98	0,98	NO				NO	NO	NO	NO	NO
NO	NO	NO				NO	NO	NO	NO	NO
NO	NO	NO				NO	NO	NO	NO	NO
NO	NO	NO				NO	NO	NO	NO	NO
NO	NO	NO				NO	NO	NO	NO	NO
0,00	0,00	NO				NO	NO	NO	NO	NO
NO	NO	NO				NO	NO	NO	NO	NO
0,98	0,98	NO				NO	NO	NO	NO	NO







[illegible]

[illegible]



[illegible]

[illegible]



Unspecified mix of HFCs and PFCs (kt CO2e) (3)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)
2050	2022	2020	2021	2022	2023	2024	2025	2026	2027	2028
NO	45700,13				44213,80	42135,08	39420,61	37129,20	35276,39	32979,47
NO	50143,11				45717,76	39111,27	36402,69	33286,73	30622,17	27665,10
	32868,02				31492,26	29684,73	27138,98	25010,81	23250,75	21049,78
	32776,49				31393,09	29588,81	27046,33	24919,44	23161,27	20962,12
	12911,37				11051,86	9553,86	7805,07	6948,24	6499,40	6073,74
	NE				NE	NE	NE	NE	NE	NE
	NE				NE	NE	NE	NE	NE	NE
	NE				IE	IE	IE	IE	IE	IE
	5868,23				6811,39	6859,49	6765,51	6317,00	5808,04	5310,74
	9776,83				9984,24	9888,95	9473,46	8820,83	8192,89	7083,51
	136,23				142,95	168,14	193,34	214,16	234,99	255,82
	9235,15				9413,20	9280,80	8829,47	8166,27	7527,66	6409,48
	59,19				61,55	66,91	72,27	71,54	70,80	70,07
	346,27				366,55	373,11	378,38	368,86	359,44	348,14
	NE				NE	NE	NE	NE	NE	NE
	3380,66				2938,19	2724,98	2461,66	2311,05	2164,30	2025,20
	1107,79				933,16	809,53	655,53	588,26	521,82	459,66
	855,77				606,56	582,98	535,78	484,76	436,91	392,78
	1417,10				1398,47	1332,47	1270,35	1238,04	1205,58	1172,76
	839,41				607,41	561,52	540,64	522,32	496,65	468,93
	91,53				99,17	95,92	92,65	91,36	89,48	87,66
	NO				NO	NO	NO	NO	NO	NO
	91,53				99,17	95,92	92,65	91,36	89,48	87,66
	NO				NO	NO	NO	NO	NO	NO
NO	4979,37				5060,10	4983,71	4982,94	4945,70	4930,98	4916,49
	940,24				1028,23	1052,63	1090,23	1116,86	1138,51	1159,61
	NE				NE	NE	NE	NE	NE	NE
NO	1116,51				1248,15	1219,28	1252,95	1239,35	1238,25	1237,19
NO	1974,08				1918,20	1927,79	1937,43	1947,12	1956,86	1966,64
NO	NE				NE	NE	NE	NE	NE	NE
	134,26				139,33	135,15	131,10	127,17	123,35	119,65
NO	NO,IE				NO	NO	NO	NO	NO	NO
NO	760,49				696,04	617,55	539,89	483,61	442,15	401,27
NO	44,31				24,12	25,29	25,32	25,59	25,86	26,12
NO	9,48				6,03	6,02	6,02	6,01	6,01	6,00

[illegible]





Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)
2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
31472,38	30039,37	28596,52	27151,25	25734,45	24336,01	22870,32	21767,23	20712,26	19657,88	18637,33
25568,37	23623,97	22167,37	20773,63	19338,12	21653,51	20038,92	18627,12	17381,18	16356,04	15264,59
19628,02	18272,94	17061,12	15863,89	14685,42	13520,08	12373,10	11527,96	10709,41	9906,43	9118,74
19542,14	18188,17	16977,53	15781,40	14603,91	13439,56	12293,51	11449,09	10631,23	9828,90	9041,82
5670,15	5318,70	4913,54	4519,21	4138,30	3761,39	3391,85	3022,85	2670,59	2333,39	2009,45
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
4824,73	4416,25	4093,53	3770,75	3447,38	3130,45	2823,29	2654,26	2489,12	2325,00	2161,56
6706,82	6255,13	5882,23	5506,73	5132,77	4755,58	4378,52	4117,96	3861,48	3601,61	3340,89
276,64	297,47	295,46	293,45	291,43	289,42	287,41	253,36	219,30	185,25	151,19
6021,03	5557,85	5195,67	4830,86	4467,75	4101,17	3734,66	3513,60	3296,37	3075,75	2854,44
69,34	68,60	67,71	66,81	65,92	65,02	64,13	63,78	63,43	63,08	62,74
339,81	331,21	323,39	315,61	307,67	299,97	292,33	287,23	282,37	277,53	272,52
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1900,35	1788,02	1682,74	1583,37	1488,91	1400,83	1314,37	1273,73	1235,32	1199,92	1166,92
399,39	345,58	318,88	294,05	269,59	246,93	225,49	213,26	201,57	190,30	179,50
359,70	333,69	308,47	285,38	264,46	245,43	228,02	210,81	194,89	181,33	169,43
1141,27	1108,75	1055,40	1003,94	954,87	908,46	860,86	849,67	838,86	828,29	817,99
440,08	410,07	405,48	401,34	396,56	391,30	385,47	380,29	374,71	368,97	362,98
85,88	84,77	83,59	82,48	81,51	80,52	79,59	78,87	78,19	77,54	76,92
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
85,88	84,77	83,59	82,48	81,51	80,52	79,59	78,87	78,19	77,54	76,92
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4890,38	4873,31	4667,48	4476,17	4284,04	4089,29	3889,94	3655,46	3434,24	3200,71	2964,51
1181,65	1203,67	1238,18	1265,60	1291,07	1315,23	1337,46	1347,51	1368,25	1389,28	1410,07
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1236,77	1236,24	1229,19	1224,51	1219,22	1213,35	1206,44	1172,71	1136,14	1097,51	1056,60
1976,47	1986,36	1796,66	1605,01	1411,41	1215,83	1018,26	818,27	616,16	412,21	206,72
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
116,06	112,58	109,20	105,93	102,75	99,67	96,68	93,78	90,96	88,23	85,59
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
347,03	301,80	261,10	241,49	225,46	210,59	195,99	187,37	186,21	176,26	167,61
26,39	26,66	27,15	27,64	28,13	28,62	29,11	29,81	30,51	31,21	31,91
6,00	6,00	6,00	6,00	6,00	6,01	6,01	6,01	6,01	6,02	6,02

[illegible]



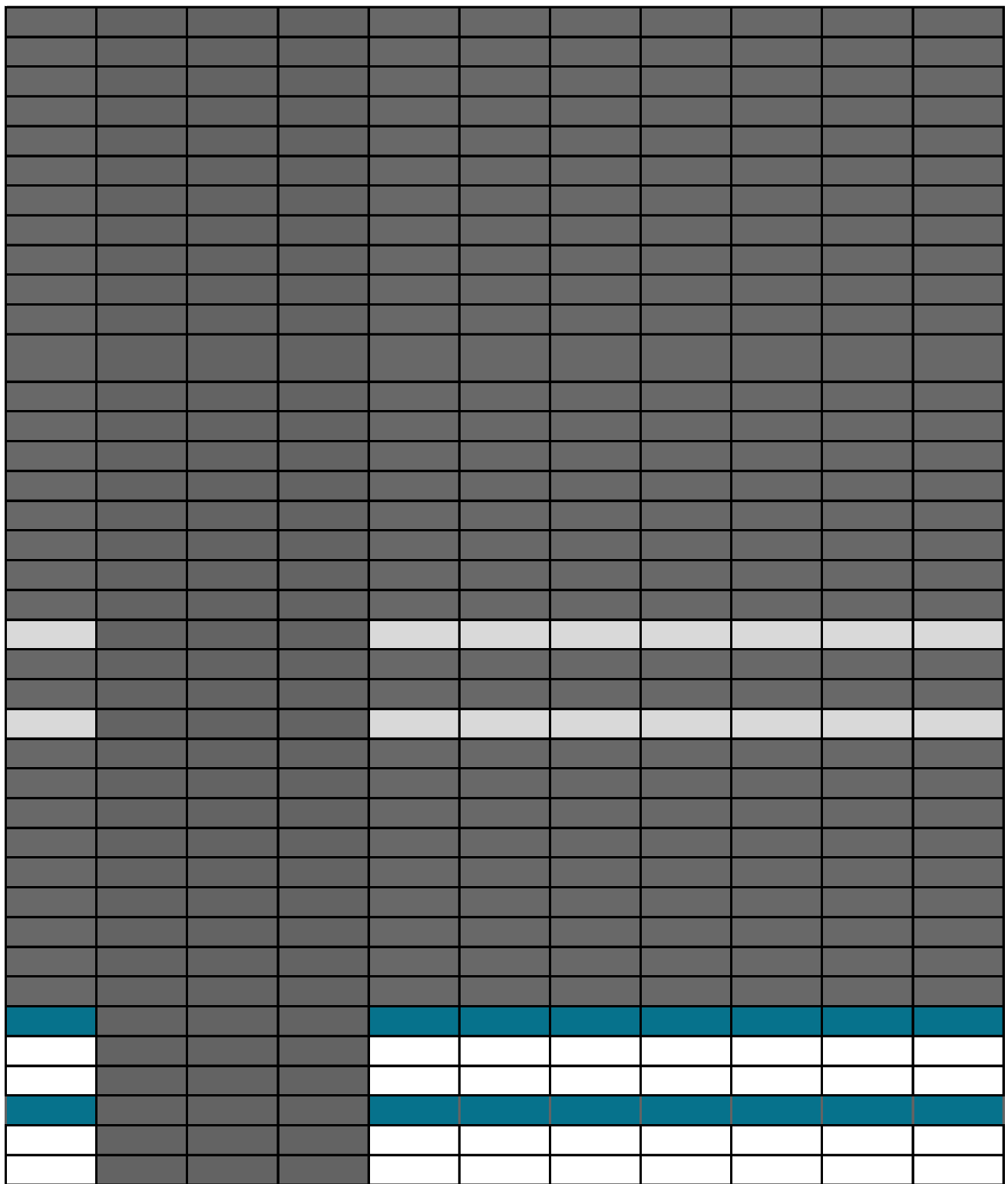
Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)	Total GHG emissions (ktCO2e)
2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
17573,80	17273,87	16977,08	16675,08	16402,05	16112,73	15845,29	15616,16	15367,62	15148,92	14914,09
14107,25	13616,09	12933,87	12068,10	8672,00	7895,09	7341,35	6671,31	5929,40	5301,66	4883,79
8350,94	8036,00	7723,57	7412,57	7103,96	6799,03	6550,25	6301,92	6054,36	5807,28	5563,29
8274,59	7959,76	7647,44	7336,54	7028,03	6723,21	6474,44	6226,13	5978,58	5731,52	5487,55
1698,71	1648,11	1599,31	1552,19	1506,79	1463,06	1439,13	1416,08	1393,72	1372,06	1351,56
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
1998,18	1962,09	1925,28	1887,96	1850,52	1812,99	1785,34	1756,53	1727,03	1696,90	1667,69
3083,83	2902,02	2721,03	2539,90	2358,95	2179,43	2033,42	1888,83	1744,98	1601,57	1458,98
117,14	108,06	98,97	89,89	80,81	71,73	67,77	63,81	59,85	55,89	51,93
2636,55	2470,32	2305,05	2139,37	1973,80	1809,82	1684,92	1560,91	1437,22	1313,26	1189,55
62,39	62,05	61,70	61,36	61,02	60,67	60,34	60,02	59,69	59,36	59,04
267,75	261,60	255,31	249,28	243,33	237,22	220,39	204,10	188,22	173,06	158,46
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1137,10	1093,69	1050,97	1008,89	967,49	926,76	880,64	834,62	788,84	743,08	697,37
169,73	160,63	151,72	143,00	134,48	126,15	113,86	101,68	89,63	77,71	65,93
158,89	146,43	134,35	122,67	111,37	100,45	85,85	71,60	57,96	44,73	31,94
808,49	786,64	764,90	743,23	721,65	700,16	680,93	661,34	641,25	620,65	599,50
356,78	353,84	350,84	347,59	344,28	340,96	335,91	330,06	324,01	317,90	311,96
76,34	76,24	76,14	76,03	75,93	75,82	75,81	75,79	75,77	75,75	75,74
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
76,34	76,24	76,14	76,03	75,93	75,82	75,81	75,79	75,77	75,75	75,74
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2723,80	2757,74	2788,41	2817,22	2847,16	2879,73	2918,42	2954,43	2989,79	3024,31	3065,20
1430,55	1452,58	1471,82	1489,46	1506,59	1523,48	1546,89	1564,99	1581,59	1597,16	1612,62
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1013,21	1034,29	1054,53	1074,57	1094,89	1115,44	1138,49	1161,80	1185,19	1208,55	1238,12
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
83,02	80,53	78,11	75,77	73,50	71,29	69,15	67,08	65,07	63,11	61,22
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
158,39	150,98	143,85	136,60	130,62	127,23	121,09	117,27	114,14	111,17	108,41
32,61	33,34	34,06	34,79	35,52	36,25	36,75	37,26	37,76	38,27	38,77
6,02	6,03	6,03	6,03	6,03	6,04	6,04	6,04	6,05	6,05	6,05

[illegible]



ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)	ETS emissions (ktCO2e) (4)
2022	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
19020,00				18112,42	16752,01	15091,34	13897,40	13070,55	12277,26	11516,78
19020,00				18112,42	16752,01	15091,34	13897,40	13070,55	12277,26	11516,78
15356,00				14129,72	12765,30	11033,18	9819,83	8967,06	8148,39	7361,15
15299,00				14085,42	12721,00	10988,89	9775,54	8922,77	8104,09	7316,86
11493,00				8993,22	7583,59	5946,92	5124,90	4710,76	4318,98	3948,15
NE				NE	NE	NE	NE	NE	NE	NE
NE				NE	NE	NE	NE	NE	NE	NE
NE				IE	IE	IE	IE	IE	IE	IE
3806,00				5092,21	5137,41	5041,97	4650,64	4212,00	3785,12	3368,71
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO
IE				NE	NE	NE	NE	NE	NE	NE
IE				NE	NE	NE	NE	NE	NE	NE
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO
58,00				44,29	44,29	44,29	44,29	44,29	44,29	44,29
NO				NO	NO	NO	NO	NO	NO	NO
58,00				44,29	44,29	44,29	44,29	44,29	44,29	44,29
NA				NA	NA	NA	NA	NA	NA	NA
3690,00				3982,70	3986,72	4058,16	4077,57	4103,48	4128,87	4155,63
881,00				933,67	955,82	989,97	1014,15	1033,81	1052,97	1072,98
NE				NE	NE	NE	NE	NE	NE	NE
832,00				1130,82	1103,10	1130,75	1116,31	1112,82	1109,27	1106,18
1976,00				1918,20	1927,79	1937,43	1947,12	1956,86	1966,64	1976,47
NE				NE	NE	NE	NE	NE	NE	NE
IE				NE	NE	NE	NE	NE	NE	NE
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO
NO				NO	NO	NO	NO	NO	NO	NO







[illegible]

[illegible]



[illegible]

[illegible]





ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)
2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
			25962,73	25219,43	24140,62	23022,48	21975,87	20451,56	19684,28	18880,16
			25962,73	25219,43	24140,62	23022,48	21975,87	20451,56	19684,28	18880,16
			17223,89	16755,79	15917,16	14981,66	14053,71	12650,74	11995,55	11295,93
			17169,02	16704,16	15868,80	14934,59	14008,53	12607,38	11953,97	11255,46
			2058,64	1970,28	1858,15	1823,35	1788,63	1754,76	1722,00	1695,00
			NE	NE	NE	NE	NE	NE	NE	NE
			NE	NE	NE	NE	NE	NE	NE	NE
			IE	IE	IE	IE	IE	IE	IE	IE
			1719,18	1722,07	1723,54	1666,36	1596,04	1525,62	1456,03	1399,21
			9845,60	9725,31	9284,81	8611,51	7962,91	6832,87	6435,50	5963,16
			4,30	4,49	4,69	4,85	5,01	5,17	5,33	5,49
			9413,20	9280,80	8829,47	8166,27	7527,66	6409,48	6021,03	5557,85
			61,55	66,91	72,27	71,54	70,80	70,07	69,34	68,60
			366,55	373,11	378,38	368,86	359,44	348,14	339,81	331,21
			NE	NE	NE	NE	NE	NE	NE	NE
			2938,19	2724,98	2461,66	2311,05	2164,30	2025,20	1900,35	1788,02
			933,16	809,53	655,53	588,26	521,82	459,66	399,39	345,58
			606,56	582,98	535,78	484,76	436,91	392,78	359,70	333,69
			1398,47	1332,47	1270,35	1238,04	1205,58	1172,76	1141,27	1108,75
			607,41	561,52	540,64	522,32	496,65	468,93	440,08	410,07
			54,87	51,63	48,36	47,07	45,19	43,36	41,58	40,47
			NO	NO	NO	NO	NO	NO	NO	NO
			54,87	51,63	48,36	47,07	45,19	43,36	41,58	40,47
			NO	NO	NO	NO	NO	NO	NO	NO
			1077,40	997,00	924,79	868,13	827,50	787,62	734,75	691,10
			94,56	96,80	100,26	102,71	104,70	106,64	108,67	110,69
			NE	NE	NE	NE	NE	NE	NE	NE
			117,32	116,18	122,20	123,05	125,43	127,92	130,59	133,37
			0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
			NO	NO	NO	NO	NO	NO	NO	NO
			139,33	135,15	131,10	127,17	123,35	119,65	116,06	112,58
			NO	NO	NO	NO	NO	NO	NO	NO
			696,04	617,55	539,89	483,61	442,15	401,27	347,03	301,80
			24,12	25,29	25,32	25,59	25,86	26,12	26,39	26,66
			6,03	6,02	6,02	6,01	6,01	6,00	6,00	6,00

[illegible]



ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)
2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
18240,54	17593,54	16967,35	16347,54	15651,56	15290,03	14952,38	14603,17	14278,35	13901,64	13613,97
18240,54	17593,54	16967,35	16347,54	15651,56	15290,03	14952,38	14603,17	14278,35	13901,64	13613,97
10719,38	10145,97	9579,27	9009,85	8445,07	8113,30	7788,63	7463,61	7140,30	6823,89	6558,25
10680,08	10107,78	9542,05	8973,62	8409,77	8078,72	7754,73	7430,37	7107,68	6791,84	6526,31
1656,65	1617,57	1577,63	1537,14	1496,17	1461,08	1427,09	1394,11	1362,05	1331,19	1311,38
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
1342,95	1286,75	1232,17	1172,76	1117,22	1093,85	1070,55	1046,38	1021,66	995,97	969,40
5592,25	5218,74	4846,78	4471,59	4096,53	3869,76	3647,07	3420,99	3194,06	2970,79	2797,99
5,48	5,46	5,45	5,43	5,42	5,15	4,89	4,63	4,36	4,10	4,03
5195,67	4830,86	4467,75	4101,17	3734,66	3513,60	3296,37	3075,75	2854,44	2636,55	2470,32
67,71	66,81	65,92	65,02	64,13	63,78	63,43	63,08	62,74	62,39	62,05
323,39	315,61	307,67	299,97	292,33	287,23	282,37	277,53	272,52	267,75	261,60
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1682,74	1583,37	1488,91	1400,83	1314,37	1273,73	1235,32	1199,92	1166,92	1137,10	1093,69
318,88	294,05	269,59	246,93	225,49	213,26	201,57	190,30	179,50	169,73	160,63
308,47	285,38	264,46	245,43	228,02	210,81	194,89	181,33	169,43	158,89	146,43
1055,40	1003,94	954,87	908,46	860,86	849,67	838,86	828,29	817,99	808,49	786,64
405,48	401,34	396,56	391,30	385,47	380,29	374,71	368,97	362,98	356,78	353,84
39,30	38,19	37,21	36,23	35,30	34,58	33,89	33,24	32,63	32,05	31,95
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
39,30	38,19	37,21	36,23	35,30	34,58	33,89	33,24	32,63	32,05	31,95
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
653,25	636,38	623,09	611,04	599,21	592,92	595,15	588,83	583,97	578,69	575,58
113,87	116,39	118,73	120,95	123,00	123,92	125,83	127,76	129,67	131,56	133,58
NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
135,93	138,94	142,03	145,21	148,43	152,03	155,63	159,35	163,17	167,09	171,13
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
109,20	105,93	102,75	99,67	96,68	93,78	90,96	88,23	85,59	83,02	80,53
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
261,10	241,49	225,46	210,59	195,99	187,37	186,21	176,26	167,61	158,39	150,98
27,15	27,64	28,13	28,62	29,11	29,81	30,51	31,21	31,91	32,61	33,34
6,00	6,00	6,00	6,01	6,01	6,01	6,01	6,02	6,02	6,02	6,03

[illegible]



ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)	ESR emissions (ktCO2e) (5)
2042	2043	2044	2045	2046	2047	2048	2049	2050
13332,63	13047,53	12791,14	12518,01	12233,89	11992,72	11733,22	11504,30	11252,55
13332,63	13047,53	12791,14	12518,01	12233,89	11992,72	11733,22	11504,30	11252,55
6295,15	6033,29	5773,35	5516,60	5291,63	5067,14	4843,26	4619,67	4397,37
6263,30	6001,56	5741,72	5485,08	5260,12	5035,64	4811,78	4588,21	4365,93
1292,45	1274,35	1257,08	1240,61	1229,78	1219,25	1209,01	1199,07	1189,47
NE	NE	NE	NE	NE	NE	NE	NE	NE
NE	NE	NE	NE	NE	NE	NE	NE	NE
IE	IE	IE	IE	IE	IE	IE	IE	IE
943,02	916,83	890,91	865,29	844,41	822,99	801,13	778,85	756,49
2626,02	2453,90	2281,96	2111,46	1969,37	1828,72	1688,79	1549,31	1410,64
3,96	3,89	3,82	3,75	3,72	3,69	3,66	3,63	3,60
2305,05	2139,37	1973,80	1809,82	1684,92	1560,91	1437,22	1313,26	1189,55
61,70	61,36	61,02	60,67	60,34	60,02	59,69	59,36	59,04
255,31	249,28	243,33	237,22	220,39	204,10	188,22	173,06	158,46
NE	NE	NE	NE	NE	NE	NE	NE	NE
1050,97	1008,89	967,49	926,76	880,64	834,62	788,84	743,08	697,37
151,72	143,00	134,48	126,15	113,86	101,68	89,63	77,71	65,93
134,35	122,67	111,37	100,45	85,85	71,60	57,96	44,73	31,94
764,90	743,23	721,65	700,16	680,93	661,34	641,25	620,65	599,50
350,84	347,59	344,28	340,96	335,91	330,06	324,01	317,90	311,96
31,84	31,74	31,63	31,52	31,51	31,50	31,48	31,46	31,44
NO	NO	NO	NO	NO	NO	NO	NO	NO
31,84	31,74	31,63	31,52	31,51	31,50	31,48	31,46	31,44
NO	NO	NO	NO	NO	NO	NO	NO	NO
572,39	568,95	566,86	567,43	565,64	565,76	566,48	567,30	569,57
135,35	136,98	138,55	140,10	142,26	143,92	145,45	146,88	148,30
NE	NE	NE	NE	NE	NE	NE	NE	NE
174,98	178,78	182,63	186,51	190,35	194,19	198,03	201,82	206,81
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
NO	NO	NO	NO	NO	NO	NO	NO	NO
78,11	75,77	73,50	71,29	69,15	67,08	65,07	63,11	61,22
NO	NO	NO	NO	NO	NO	NO	NO	NO
143,85	136,60	130,62	127,23	121,09	117,27	114,14	111,17	108,41
34,06	34,79	35,52	36,25	36,75	37,26	37,76	38,27	38,77
6,03	6,03	6,03	6,04	6,04	6,04	6,05	6,05	6,05

[illegible]











## Sum Check

This sheet provides the result of the sum checks for the WEM scenario.

1. Check **Reported Total GHGs - Aggregate GHGs = 0**

2. Check **Total GHGs - (ETS + non-ETS + CO<sub>2</sub> Domestic aviation + NF<sub>3</sub>) = 0**

Values for CH<sub>4</sub>, N<sub>2</sub>O, SF<sub>6</sub> and NF<sub>3</sub> have been converted to CO<sub>2</sub>e (using the GWPs data in the 'Index' sheet)

See column CB for notes on data for ETS split sum check and cell BC9 for guidance on reporting ETS and non-ETS

A summary of the results is provided in row 4.

Notes: where check "1. Check Reported Total GHGs - Aggregate GHGs" cannot be completed because no numeric Total is shown. All checks are rounded to 6 decimal places.

Potential errors are highlighted in pink in columns AL: DB

### Calculating Total GHGs from the in

Category (1,3)	Scenario (WEM, WAM, WOM)	Aggregate GHGs (CO <sub>2</sub> e) = CO <sub>2</sub> (kt) + N <sub>2</sub> O (kt CO <sub>2</sub> e) + PFC (kt CO <sub>2</sub> e) + Unspecified mix (kt CO <sub>2</sub> e)		
		2022	2020	2025
Total excluding LULUCF	WEM	45700,13	0,00	39420,61
Total including LULUCF	WEM	50143,11	0,00	36402,69
1. Energy	WEM	32869,58	0,00	27138,98
1.A. Fuel combustion	WEM	32778,72	0,00	27046,33
1.A.1. Energy industries	WEM	12993,04	0,00	7805,07
1.A.1.a. Public electricity and heat production	WEM	10912,07	0,00	5464,10
1.A.1.b. Petroleum refining	WEM	1415,17	0,00	1707,07
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM	0,00	0,00	0,00
1.A.2. Manufacturing industries and construction	WEM	6040,29	0,00	6765,51
1.A.3. Transport	WEM	9776,83	0,00	9473,46
1.A.3.a. Domestic aviation	WEM	136,23	0,00	193,34
1.A.3.b. Road transportation	WEM	9235,15	0,00	8829,47
1.A.3.c. Railways	WEM	59,19	0,00	72,27
1.A.3.d. Domestic navigation	WEM	346,27	0,00	378,38
1.A.3.e. Other transportation	WEM	0,00	0,00	0,00
1.A.4. Other sectors	WEM	3135,87	0,00	2461,66
1.A.4.a. Commercial/Institutional	WEM	1094,14	0,00	655,53
1.A.4.b. Residential	WEM	641,37	0,00	535,78
1.A.4.c. Agriculture/Forestry/Fishing	WEM	1400,36	0,00	1270,35
1.A.5. Other	WEM	832,68	0,00	540,64
1.B. Fugitive emissions from fuels	WEM	90,86	0,00	92,65
1.B.1. Solid fuels	WEM	0,00	0,00	0,00
1.B.2. Oil and natural gas and other emissions from energy production	WEM	90,86	0,00	92,65
1.C. CO <sub>2</sub> transport and storage	WEM	0,00	0,00	0,00
2. Industrial processes	WEM	4977,80	0,00	4982,94
2.A. Mineral Industry	WEM	940,24	0,00	1090,23
2.A.1. Cement production	WEM	0,00	0,00	0,00
2.B. Chemical industry	WEM	1137,09	0,00	1252,95
2.C. Metal industry	WEM	1974,07	0,00	1937,43
2.C.1. Iron and steel production	WEM	0,00	0,00	0,00
2.D. Non-energy products from fuels and solvent use	WEM	133,48	0,00	131,10
2.E. Electronics industry	WEM	0,00	0,00	0,00

2.F. Product uses as substitutes for ODS (8)	WEM	760,49	0,00	539,89
2.G. Other product manufacture and use	WEM	22,95	0,00	25,32
2.H. Other	WEM	9,48	0,00	6,02
<b>3. Agriculture</b>	WEM	6074,92	0,00	5753,38
3.A. Enteric fermentation	WEM	2175,23	0,00	2040,65
3.B. Manure management	WEM	677,07	0,00	639,31
3.C. Rice cultivation	WEM	0,00	0,00	0,00
3.D. Agricultural soils	WEM	2965,02	0,00	2872,00
3.E. Prescribed burning of savannahs	WEM	0,00	0,00	0,00
3.F. Field burning of agricultural residues	WEM	0,00	0,00	0,00
3.G. Liming	WEM	249,83	0,00	200,21
3.H. Urea application	WEM	7,76	0,00	1,21
3.I. Other carbon-containing fertilizers	WEM	0,00	0,00	0,00
3.J. Other (please specify)	WEM	0,00	0,00	0,00
<b>4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)</b>	WEM	4441,76	0,00	-3017,92
4.A. Forest land	WEM	-4771,66	0,00	-8521,54
4.B. Cropland	WEM	8827,41	0,00	6378,27
4.C. Grassland	WEM	767,80	0,00	749,09
4.D. Wetlands	WEM	2090,98	0,00	1837,10
4.E. Settlements	WEM	778,15	0,00	1261,31
4.F. Other Land	WEM	0,00	0,00	0,00
4.G. Harvested wood products	WEM	-3250,91	0,00	-4722,15
4.H. Other	WEM	0,00	0,00	0,00
<b>5. Waste</b>	WEM	1726,61	0,00	1503,12
5.A. Solid Waste Disposal	WEM	1383,86	0,00	1161,49
5.B. Biological treatment of solid waste	WEM	108,45	0,00	106,53
5.C. Incineration and open burning of waste	WEM	0,00	0,00	0,00
5.D. Wastewater treatment and discharge	WEM	234,30	0,00	235,10
5.E. Other (please specify)	WEM	0,00	0,00	0,00
<b>Memo items</b>	WEM	0,00	0,00	0,00
International bunkers	WEM	0,00	0,00	0,00
IB.Aviation	WEM	0,00	0,00	0,00
IB.Navigation	WEM	0,00	0,00	0,00
CO2 emissions from biomass	WEM	0,00	0,00	0,00
CO2 captured	WEM	-48,45	0,00	-102,57
Indirect CO2 (if available) (10)	WEM	51,22	0,00	42,19
<b>Total excluding LULUCF</b>	WAM	0,00	0,00	0,00
<b>Total including LULUCF</b>	WAM	0,00	0,00	0,00
<b>1. Energy</b>	WAM	0,00	0,00	0,00
1.A. Fuel combustion	WAM	0,00	0,00	0,00
1.A.1. Energy industries	WAM	0,00	0,00	0,00
1.A.1.a. Public electricity and heat production	WAM	0,00	0,00	0,00
1.A.1.b. Petroleum refining	WAM	0,00	0,00	0,00
1.A.1.c. Manufacture of solid fuels and other energy industries	WAM	0,00	0,00	0,00
1.A.2. Manufacturing industries and construction	WAM	0,00	0,00	0,00
1.A.3. Transport	WAM	0,00	0,00	0,00
1.A.3.a. Domestic aviation	WAM	0,00	0,00	0,00
1.A.3.b. Road transportation	WAM	0,00	0,00	0,00

1.A.3.c. Railways	WAM	0,00	0,00	0,00
1.A.3.d. Domestic navigation	WAM	0,00	0,00	0,00
1.A.3.e. Other transportation	WAM	0,00	0,00	0,00
1.A.4. Other sectors	WAM	0,00	0,00	0,00
1.A.4.a. Commercial/Institutional	WAM	0,00	0,00	0,00
1.A.4.b. Residential	WAM	0,00	0,00	0,00
1.A.4.c. Agriculture/Forestry/Fishing	WAM	0,00	0,00	0,00
1.A.5. Other	WAM	0,00	0,00	0,00
1.B. Fugitive emissions from fuels	WAM	0,00	0,00	0,00
1.B.1. Solid fuels	WAM	0,00	0,00	0,00
1.B.2. Oil and natural gas and other emissions from energy production	WAM	0,00	0,00	0,00
1.C. CO2 transport and storage	WAM	0,00	0,00	0,00
<b>2. Industrial processes</b>	WAM	0,00	0,00	0,00
2.A. Mineral Industry	WAM	0,00	0,00	0,00
2.A.1. Cement production	WAM	0,00	0,00	0,00
2.B. Chemical industry	WAM	0,00	0,00	0,00
2.C. Metal industry	WAM	0,00	0,00	0,00
2.C.1. Iron and steel production	WAM	0,00	0,00	0,00
2.D. Non-energy products from fuels and solvent use	WAM	0,00	0,00	0,00
2.E. Electronics industry	WAM	0,00	0,00	0,00
2.F. Product uses as substitutes for ODS (8)	WAM	0,00	0,00	0,00
2.G. Other product manufacture and use	WAM	0,00	0,00	0,00
2.H. Other	WAM	0,00	0,00	0,00
<b>3. Agriculture</b>	WAM	0,00	0,00	0,00
3.A. Enteric fermentation	WAM	0,00	0,00	0,00
3.B. Manure management	WAM	0,00	0,00	0,00
3.C. Rice cultivation	WAM	0,00	0,00	0,00
3.D. Agricultural soils	WAM	0,00	0,00	0,00
3.E. Prescribed burning of savannahs	WAM	0,00	0,00	0,00
3.F. Field burning of agricultural residues	WAM	0,00	0,00	0,00
3.G. Liming	WAM	0,00	0,00	0,00
3.H. Urea application	WAM	0,00	0,00	0,00
3.I. Other carbon-containing fertilizers	WAM	0,00	0,00	0,00
3.J. Other (please specify)	WAM	0,00	0,00	0,00
<b>4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)</b>	WAM	0,00	0,00	0,00
4.A. Forest land	WAM	0,00	0,00	0,00
4.B. Cropland	WAM	0,00	0,00	0,00
4.C. Grassland	WAM	0,00	0,00	0,00
4.D. Wetlands	WAM	0,00	0,00	0,00
4.E. Settlements	WAM	0,00	0,00	0,00
4.F. Other Land	WAM	0,00	0,00	0,00
4.G. Harvested wood products	WAM	0,00	0,00	0,00
4.H. Other	WAM	0,00	0,00	0,00
<b>5. Waste</b>	WAM	0,00	0,00	0,00
5.A. Solid Waste Disposal	WAM	0,00	0,00	0,00
5.B. Biological treatment of solid waste	WAM	0,00	0,00	0,00
5.C. Incineration and open burning of waste	WAM	0,00	0,00	0,00
5.D. Wastewater treatment and discharge	WAM	0,00	0,00	0,00
5.E. Other (please specify)	WAM	0,00	0,00	0,00

## Memo items

[illegible]



et).

d ESR projections.

total GHGs value is given, the notation

Sum Check (1) Summary = Absolute difference between				
Scenario	2022	2018	2019	2020
WEM	799,44	0,00	0,00	0,00
WAM	0,00	0,00	0,00	0,00

Note: Array function applied

## dividual GHGs

## 1. Check Reported Total GHGs - Aggregate GH

(kt)*GWP + CH4 (kt)*GWP + SF6 (kt)*GWP + NF3 (kt CO2e)*GWP + HFC (kt CO2e) of HFCs and PFCs (kt CO2e)					Sum Check (1) = Total GHGs - Aggregate GHGs			
2030	2035	2040	2045	2050	2022	2018	2019	2020
30039,37	22870,32	17573,80	16112,73	14914,09	0,0000	0,0000	0,0000	0,0000
23623,97	20038,92	14107,25	7895,09	4883,79	0,0000	0,0000	0,0000	0,0000
18272,94	12373,10	8350,94	6799,03	5563,29	-1,5675	0,0000	0,0000	0,0000
18188,17	12293,51	8274,59	6723,21	5487,55	-2,2312	0,0000	0,0000	0,0000
5318,70	3391,85	1698,71	1463,06	1351,56	-81,6689	0,0000	0,0000	0,0000
3710,74	2278,98	993,93	843,04	792,84	NE	0,0000	0,0000	0,0000
1061,83	627,08	272,39	223,12	183,02	NE	0,0000	0,0000	0,0000
0,00	0,00	0,00	0,00	0,00	NE	0,0000	0,0000	0,0000
4416,25	2823,29	1998,18	1812,99	1667,69	-172,0651	0,0000	0,0000	0,0000
6255,13	4378,52	3083,83	2179,43	1458,98	0,0000	0,0000	0,0000	0,0000
297,47	287,41	117,14	71,73	51,93	0,0000	0,0000	0,0000	0,0000
5557,85	3734,66	2636,55	1809,82	1189,55	0,0000	0,0000	0,0000	0,0000
68,60	64,13	62,39	60,67	59,04	0,0000	0,0000	0,0000	0,0000
331,21	292,33	267,75	237,22	158,46	0,0000	0,0000	0,0000	0,0000
0,00	0,00	0,00	0,00	0,00	NE	0,0000	0,0000	0,0000
1788,02	1314,37	1137,10	926,76	697,37	244,7807	0,0000	0,0000	0,0000
345,58	225,49	169,73	126,15	65,93	13,6425	0,0000	0,0000	0,0000
333,69	228,02	158,89	100,45	31,94	214,4004	0,0000	0,0000	0,0000
1108,75	860,86	808,49	700,16	599,50	16,7379	0,0000	0,0000	0,0000
410,07	385,47	356,78	340,96	311,96	6,7220	0,0000	0,0000	0,0000
84,77	79,59	76,34	75,82	75,74	0,6638	0,0000	0,0000	0,0000
0,00	0,00	0,00	0,00	0,00	NO	0,0000	0,0000	0,0000
84,77	79,59	76,34	75,82	75,74	0,6638	0,0000	0,0000	0,0000
0,00	0,00	0,00	0,00	0,00	NO	0,0000	0,0000	0,0000
4873,31	3889,94	2723,80	2879,73	3065,20	1,5675	0,0000	0,0000	0,0000
1203,67	1337,46	1430,55	1523,48	1612,62	0,0000	0,0000	0,0000	0,0000
0,00	0,00	0,00	0,00	0,00	NE	0,0000	0,0000	0,0000
1236,24	1206,44	1013,21	1115,44	1238,12	-20,5786	0,0000	0,0000	0,0000
1986,36	1018,26	0,00	0,00	0,00	0,0023	0,0000	0,0000	0,0000
0,00	0,00	0,00	0,00	0,00	NE	0,0000	0,0000	0,0000
112,58	96,68	83,02	71,29	61,22	0,7865	0,0000	0,0000	0,0000
0,00	0,00	0,00	0,00	0,00	NO,IE	0,0000	0,0000	0,0000

[illegible]



[illegible]

Between Total & Aggregate GHGs for all categories					
2025	2030	2035	2040	2045	2050
0,00	0,00	0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00	0,00	0,00

1 in row 4, use ctrl+shift+enter to apply array function

Sum Check (2) Summary = Absolute diff		
2022	2020	2025
21,18	0,00	12,83
0,00	0,00	0,00

Guidance for reporting ETS and ESR pro  
[See document Guidance for reporting](#)

IGs = 0

2. Check Total = ETS + non-ETS + CO

						Sum Check (2) = Total GHGs - (ETS + non		
2025	2030	2035	2040	2045	2050	2022	2020	2025
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-0,0574	0,0000	-2,1390
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	1,1616	0,0000	-2,1390
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,8298	0,0000	-2,1390
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-1,6980	0,0000	-2,1390
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-5,6255	0,0000	0,0000
NE	NE	NE	NE	NE	NE	0,0000	0,0000	0,0000
NE	NE	NE	NE	NE	NE	0,0000	0,0000	0,0000
IE	IE	IE	IE	IE	IE	0,0000	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-0,7745	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-0,3597	0,0000	-2,1390
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0434	0,0000	-2,1390
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,1451	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,1868	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,2650	0,0000	0,0000
NE	NE	NE	NE	NE	NE	0,0000	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-0,3445	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-0,2142	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-0,2300	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0997	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,4062	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,5277	0,0000	0,0000
NO	NO	NO	NO	NO	NO	0,0000	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,5277	0,0000	0,0000
NO	NO	NO	NO	NO	NO	0,0000	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-0,6276	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,2416	0,0000	0,0000
NE	NE	NE	NE	NE	NE	0,0000	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,5099	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-1,9230	0,0000	0,0000
NE	NE	NE	NE	NE	NE	0,0000	0,0000	0,0000
0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	2,2640	0,0000	0,0000
NO	NO	NO	NO	NO	NO	0,0000	0,0000	0,0000

[illegible]



[illegible]









[illegible]

**Notes on data for ETS split sum check**

- CO2 domestic aviation
- CO2 domestic aviation, LULUCF included to balance non-ETS emissions with total GHGs
- CO2 domestic aviation
- CO2 domestic aviation

- CO2 domestic aviation
- CO2 domestic aviation is not covered by ETS nor non-ETS

LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF

NA (memo items)  
NA (memo items)  
NA (memo items)  
NA (memo items)  
NA (memo items)  
NA (memo items)  
NA (memo items)

CO2 domestic aviation  
CO2 domestic aviation, LULUCF included to balance non-ETS emissions with total GHGs  
CO2 domestic aviation  
CO2 domestic aviation

CO2 domestic aviation  
CO2 domestic aviation is not covered by ETS nor non-ETS

LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF  
LULUCF

NA (memo items)  
NA (memo items)  
NA (memo items)  
NA (memo items)  
NA (memo items)  
NA (memo items)  
NA (memo items)



## Sector Sum Check

This sheet provides the result of the sector sum checks for the WEM, WOM and WAM scenarios.

### 1. Check **Sector Totals = sum of sub-sectors**

Errors occur where the sector total values do not equal the sum of the sub-sectors.

A summary of the results is provided in cells C1:U10.

Note: All checks are rounded to 6 decimal places.

Sector Sum Check Summary (abs)	
Check	WEM All years and pollutants
Total excluding LULUCF = 1. + 2. + 3. + 4. + 5. + Indirect CO2	51,78
Total including LULUCF = 1. + 2. + 3. + 4. + 5. + Indirect CO2	2990,81
1. = 1.A. + 1.B. + 1.C.	2,00
2. = 2.A. + 2.B. + 2.C. + 2.D. + 2.E.	1,72
3. = 3.A. + 3.B. + 3.C. + 3.D. + 3.E.	0,00
4. = 4.A. + 4.B. + 4.C. + 4.D. + 4.E.	0,00
5. = 5.A. + 5.B. + 5.C. + 5.D. + 5.E.	1,00

Note: Array function applied in rows 4:10,

Potential errors are highlighted in pink in columns C : NL

### 1. Check Reported Sector Totals =

Category (1,3)	Scenario (WEM, WAM, WOM)	CO2 (kt)	CO2 (kt)	CO2 (kt)
		2022	2020	2025
Total excluding LULUCF = 1. + 2. + 3. + 5. + Indirect CO2	WEM	0,00	0,00	0,00
Total including LULUCF = 1. + 2. + 3. + 4. + 5. + Indirect CO2	WEM	0,00	0,00	0,00
1. = 1.A. + 1.B. + 1.C.	WEM	0,00	0,00	0,00
1.A. = 1.A.1. + 1.A.2. + 1.A.3. + 1.A.4. + 1.A.5.	WEM	0,00	0,00	0,00
1.A.1. = 1.A.1.a + 1.A.1.b + 1.A.1.c.	WEM	0,00	0,00	0,00
1.A.3. = 1.A.3.a. + 1.A.3.b. + 1.A.3.c. + 1.A.3.d. + 1.A.3.e.	WEM	0,00	0,00	0,00
1.A.4. = 1.A.4.a + 1.A.4.b + 1.A.4.c	WEM	0,00	0,00	0,00
1.B. = 1.B.1 + 1.B.2.	WEM	0,00	0,00	0,00
2. = 2.A. + 2.B. + 2.C. + 2.D. + 2.E. + 2.F. + 2.G. + 2.H.	WEM	0,00	0,00	0,00
3. = 3.A. + 3.B. + 3.C. + 3.D. + 3.E. + 3.F. + 3.G. + 3.H. + 3.I. + 3.J.	WEM	0,00	0,00	0,00
4. = 4.A. + 4.B. + 4.C. + 4.D. + 4.E. + 4.F. + 4.G. + 4.H.	WEM	0,00	0,00	0,00
5. = 5.A. + 5.B. + 5.C. + 5.D. + 5.E.	WEM	0,00	0,00	0,00
Total excluding LULUCF = 1. + 2. + 3. + 5. + Indirect CO2	WAM	0,00	0,00	0,00
Total including LULUCF = 1. + 2. + 3. + 4. + 5. + Indirect CO2	WAM	0,00	0,00	0,00
1. = 1.A. + 1.B. + 1.C.	WAM	0,00	0,00	0,00
1.A. = 1.A.1. + 1.A.2. + 1.A.3. + 1.A.4. + 1.A.5.	WAM	0,00	0,00	0,00
1.A.1. = 1.A.1.a + 1.A.1.b + 1.A.1.c.	WAM	0,00	0,00	0,00
1.A.3. = 1.A.3.a. + 1.A.3.b. + 1.A.3.c. + 1.A.3.d. + 1.A.3.e.	WAM	0,00	0,00	0,00
1.A.4. = 1.A.4.a + 1.A.4.b + 1.A.4.c	WAM	0,00	0,00	0,00
1.B. = 1.B.1 + 1.B.2.	WAM	0,00	0,00	0,00
2. = 2.A. + 2.B. + 2.C. + 2.D. + 2.E. + 2.F. + 2.G. + 2.H.	WAM	0,00	0,00	0,00
3. = 3.A. + 3.B. + 3.C. + 3.D. + 3.E. + 3.F. + 3.G. + 3.H. + 3.I. + 3.J.	WAM	0,00	0,00	0,00
4. = 4.A. + 4.B. + 4.C. + 4.D. + 4.E. + 4.F. + 4.G. + 4.H.	WAM	0,00	0,00	0,00
5. = 5.A. + 5.B. + 5.C. + 5.D. + 5.E.	WAM	0,00	0,00	0,00
Total excluding LULUCF = 1. + 2. + 3. + 5. + Indirect CO2	WOM	0,00	0,00	0,00
Total including LULUCF = 1. + 2. + 3. + 4. + 5. + Indirect CO2	WOM	0,00	0,00	0,00
1. = 1.A. + 1.B. + 1.C.	WOM	0,00	0,00	0,00
1.A. = 1.A.1. + 1.A.2. + 1.A.3. + 1.A.4. + 1.A.5.	WOM	0,00	0,00	0,00
1.A.1. = 1.A.1.a + 1.A.1.b + 1.A.1.c.	WOM	0,00	0,00	0,00
1.A.3. = 1.A.3.a. + 1.A.3.b. + 1.A.3.c. + 1.A.3.d. + 1.A.3.e.	WOM	0,00	0,00	0,00
1.A.4. = 1.A.4.a + 1.A.4.b + 1.A.4.c	WOM	0,00	0,00	0,00

<b>1.</b> $B_1 = 1.B.1 + 1.B.2.$	WOM	0,00	0,00	0,00
<b>2.</b> $= 2.A. + 2.B. + 2.C. + 2.D. + 2.E. + 2.F. + 2.G. + 2.H.$	WOM	0,00	0,00	0,00
<b>3.</b> $= 3.A. + 3.B. + 3.C. + 3.D. + 3.E. + 3.F. + 3.G. + 3.H. + 3.I. + 3.J.$	WOM	0,00	0,00	0,00
<b>4.</b> $= 4.A. + 4.B. + 4.C. + 4.D. + 4.E. + 4.F. + 4.G. + 4.H.$	WOM	0,00	0,00	0,00
<b>5.</b> $= 5.A. + 5.B. + 5.C. + 5.D. + 5.E.$	WOM	0,00	0,00	0,00



[illegible]



[illegible]



[illegible]





[illegible]



[illegible]



[illegible]



[illegible]





[illegible]



[illegible]



0,00	0,00
0,00	0,00
0,00	0,00
0,00	0,00
0,00	0,00

## WEM vs WAM check

This sheet provides the result of the WEM vs WAM check:

1. Check if emissions reported under the **WAM scenario**  $\leq$  **WEM scenario**  
Errors occur where WAM > WEM

A summary of the results is provided in cells C4:D14.

Note: All checks are rounded to 6 decimal places.

### WEM vs WAM Check Summary (count of errors by pollutant)

CO2 (kt)	0
CH4 (kt)	0
N2O (kt)	0
SF6 (kt)	0
NF3 (kt)	0
HFC (kt CO2e)	0
PFC (kt CO2e)	0
Unspecified mix of HFCs and PFCs	0
Total GHG emissions (ktCO2e)	0
ETS emissions (ktCO2e)	0
ESR emissions (ktCO2e)	0

Potential errors are highlighted in pink in columns C: NL

The impact of additional measures are highlighted in green in columns C: JQ

### 1. Check difference WEM vs WAM

Category (1,3)	Scenario (WEM, WAM, WOM)	CO2 (kt)	CO2 (kt)
		2022	2018
Total excluding LULUCF	WEM - WAM	No WAM	No WAM
Total including LULUCF	WEM - WAM	No WAM	No WAM
1. Energy	WEM - WAM	No WAM	No WAM
1.A. Fuel combustion	WEM - WAM	No WAM	No WAM
1.A.1. Energy industries	WEM - WAM	No WAM	No WAM
1.A.1.a. Public electricity and heat production	WEM - WAM	No WAM	No WAM
1.A.1.b. Petroleum refining	WEM - WAM	No WAM	No WAM
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM - WAM	No WAM	No WAM
1.A.2. Manufacturing industries and construction	WEM - WAM	No WAM	No WAM
1.A.3. Transport	WEM - WAM	No WAM	No WAM
1.A.3.a. Domestic aviation	WEM - WAM	No WAM	No WAM
1.A.3.b. Road transportation	WEM - WAM	No WAM	No WAM
1.A.3.c. Railways	WEM - WAM	No WAM	No WAM
1.A.3.d. Domestic navigation	WEM - WAM	No WAM	No WAM
1.A.3.e. Other transportation	WEM - WAM	No WAM	No WAM
1.A.4. Other sectors	WEM - WAM	No WAM	No WAM
1.A.4.a. Commercial/Institutional	WEM - WAM	No WAM	No WAM
1.A.4.b. Residential	WEM - WAM	No WAM	No WAM
1.A.4.c. Agriculture/Forestry/Fishing	WEM - WAM	No WAM	No WAM
1.A.5. Other	WEM - WAM	No WAM	No WAM
1.B. Fugitive emissions from fuels	WEM - WAM	No WAM	No WAM
1.B.1. Solid fuels	WEM - WAM	No WAM	No WAM
1.B.2. Oil and natural gas and other emissions from energy production	WEM - WAM	No WAM	No WAM
1.C. CO2 transport and storage	WEM - WAM	No WAM	No WAM
2. Industrial processes	WEM - WAM	No WAM	No WAM
2.A. Mineral Industry	WEM - WAM	No WAM	No WAM
2.A.1. Cement production	WEM - WAM	No WAM	No WAM
2.B. Chemical industry	WEM - WAM	No WAM	No WAM
2.C. Metal industry	WEM - WAM	No WAM	No WAM
2.C.1. Iron and steel production	WEM - WAM	No WAM	No WAM
2.D. Non-energy products from fuels and solvent use	WEM - WAM	No WAM	No WAM

2.E. Electronics industry	WEM - WAM		
2.F. Product uses as substitutes for ODS (8)	WEM - WAM		
2.G. Other product manufacture and use	WEM - WAM	No WAM	No WAM
2.H. Other	WEM - WAM	No WAM	No WAM
<b>3. Agriculture</b>	WEM - WAM	No WAM	No WAM
3.A. Enteric fermentation	WEM - WAM		
3.B. Manure management	WEM - WAM		
3.C. Rice cultivation	WEM - WAM		
3.D. Agricultural soils	WEM - WAM		
3.E. Prescribed burning of savannahs	WEM - WAM		
3.F. Field burning of agricultural residues	WEM - WAM		
3.G. Liming	WEM - WAM	No WAM	No WAM
3.H. Urea application	WEM - WAM	No WAM	No WAM
3.I. Other carbon-containing fertilizers	WEM - WAM	No WAM	No WAM
3.J. Other (please specify)	WEM - WAM	No WAM	No WAM
<b>4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals) (9)</b>			
This check is not applied to LULUCF			
<b>5. Waste</b>	WEM - WAM	No WAM	No WAM
5.A. Solid Waste Disposal	WEM - WAM		
5.B. Biological treatment of solid waste	WEM - WAM		
5.C. Incineration and open burning of waste	WEM - WAM	No WAM	No WAM
5.D. Wastewater treatment and discharge	WEM - WAM		
5.E. Other (please specify)	WEM - WAM	No WAM	No WAM
<b>Memo items</b>	WEM - WAM	No WAM	No WAM
International bunkers	WEM - WAM	No WAM	No WAM
IB.Aviation	WEM - WAM	No WAM	No WAM
IB.Navigation	WEM - WAM	No WAM	No WAM
CO2 emissions from biomass	WEM - WAM	No WAM	No WAM
CO2 captured	WEM - WAM	No WAM	No WAM
Indirect CO2 (if available) (10)	WEM - WAM	No WAM	No WAM



**l. Negative values are highlighted as errors (where WAM > WEM)**

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]









# Completeness Check

This sheet provides the result of the completeness check for all scenarios. Errors occur where:

- Blank cell:** Mandatory cells (filled in yellow) are blank
- 0 value:** Zero value has been entered (applies to mandatory and non-mandatory cells)

Non-mandatory cells which are blank are shown but not highlighted (**Blank cell, reporting not mandatory**).

A summary of the submission completeness by scenario is provided in cells F4:P7.

Completeness Check
Mandatory Blank Cells
Non-Mandatory Blank Cells
Zero Values
Completed Cells (numeric or

Potential errors are highlighted in pink in columns C: NL

Check completeness		
Category (2)	Scenario (WEM, WAM, WOM)	CO2 (kt)
		2022
Total excluding LULUCF	WEM	Value
Total including LULUCF	WEM	Value
1. Energy	WEM	Value
1.A. Fuel combustion	WEM	Value
1.A.1. Energy industries	WEM	Value
1.A.1.a. Public electricity and heat production	WEM	Value
1.A.1.b. Petroleum refining	WEM	Value
1.A.1.c. Manufacture of solid fuels and other energy industries	WEM	Value
1.A.2. Manufacturing industries and construction	WEM	Value
1.A.3. Transport	WEM	Value
1.A.3.a. Domestic aviation	WEM	Value
1.A.3.b. Road transportation	WEM	Value
1.A.3.c. Railways	WEM	Value
1.A.3.d. Domestic navigation	WEM	Value
1.A.3.e. Other transportation	WEM	Value
1.A.4. Other sectors	WEM	Value
1.A.4.a. Commercial/Institutional	WEM	Value
1.A.4.b. Residential	WEM	Value
1.A.4.c. Agriculture/Forestry/Fishing	WEM	Value
1.A.5. Other	WEM	Value
1.B. Fugitive emissions from fuels	WEM	Value
1.B.1. Solid fuels	WEM	Value
1.B.2. Oil and natural gas and other emissions from energy production	WEM	Value
1.C. CO2 transport and storage	WEM	Value

<b>2. Industrial processes</b>	WEM	Value
2.A. Mineral Industry	WEM	Value
2.A.1. Cement production	WEM	Value
2.B. Chemical industry	WEM	Value
2.C. Metal industry	WEM	Value
2.C.1. Iron and steel production	WEM	Value
2.D. Non-energy products from fuels and solvent use	WEM	Value
2.E. Electronics industry	WEM	
2.F. Product uses as substitutes for ODS (8)	WEM	
2.G. Other product manufacture and use	WEM	Value
2.H. Other	WEM	Value
<b>3. Agriculture</b>	WEM	Value
3.A. Enteric fermentation	WEM	
3.B. Manure management	WEM	
3.C. Rice cultivation	WEM	
3.D. Agricultural soils	WEM	
3.E. Prescribed burning of savannahs	WEM	
3.F. Field burning of agricultural residues	WEM	
3.G. Liming	WEM	Value
3.H. Urea application	WEM	Value
3.I. Other carbon-containing fertilizers	WEM	Value
3.J. Other (please specify)	WEM	Value
<b>4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and removals)</b>	WEM	Value
4.A. Forest land	WEM	Value
4.B. Cropland	WEM	Value
4.C. Grassland	WEM	Value
4.D. Wetlands	WEM	Value
4.E. Settlements	WEM	Value
4.F. Other Land	WEM	Value
4.G. Harvested wood products	WEM	Value
4.H. Other	WEM	Value
<b>5. Waste</b>	WEM	Value
5.A. Solid Waste Disposal	WEM	
5.B. Biological treatment of solid waste	WEM	
5.C. Incineration and open burning of waste	WEM	Value
5.D. Wastewater treatment and discharge	WEM	
5.E. Other (please specify)	WEM	Value
<b>Memo items</b>	WEM	Blank cell
International bunkers	WEM	Value
IB.Aviation	WEM	Value
IB.Navigation	WEM	Value
CO2 emissions from biomass	WEM	Value
CO2 captured	WEM	Value
Indirect CO2 (if available) (10)	WEM	Value
<b>Total excluding LULUCF</b>	WAM	Blank cell, reporting not required
<b>Total including LULUCF</b>	WAM	Blank cell, reporting not required
<b>1. Energy</b>	WAM	Blank cell, reporting not required
1.A. Fuel combustion	WAM	Blank cell, reporting not required
1.A.1. Energy industries	WAM	Blank cell, reporting not required



1.A.1.a. Public electricity and heat production	WAM	Blank cell, reporting not r
1.A.1.b. Petroleum refining	WAM	Blank cell, reporting not r
1.A.1.c. Manufacture of solid fuels and other energy industries	WAM	Blank cell, reporting not r
1.A.2. Manufacturing industries and construction	WAM	Blank cell, reporting not r
1.A.3. Transport	WAM	Blank cell, reporting not r
1.A.3.a. Domestic aviation	WAM	Blank cell, reporting not r
1.A.3.b. Road transportation	WAM	Blank cell, reporting not r
1.A.3.c. Railways	WAM	Blank cell, reporting not r
1.A.3.d. Domestic navigation	WAM	Blank cell, reporting not r
1.A.3.e. Other transportation	WAM	Blank cell, reporting not r
1.A.4. Other sectors	WAM	Blank cell, reporting not r
1.A.4.a. Commercial/Institutional	WAM	Blank cell, reporting not r
1.A.4.b. Residential	WAM	Blank cell, reporting not r
1.A.4.c. Agriculture/Forestry/Fishing	WAM	Blank cell, reporting not r
1.A.5. Other	WAM	Blank cell, reporting not r
1.B. Fugitive emissions from fuels	WAM	Blank cell, reporting not r
1.B.1. Solid fuels	WAM	Blank cell, reporting not r
1.B.2. Oil and natural gas and other emissions from energy production	WAM	Blank cell, reporting not r
1.C. CO2 transport and storage	WAM	Blank cell, reporting not r
<b>2. Industrial processes</b>	WAM	Blank cell, reporting not r
2.A. Mineral Industry	WAM	Blank cell, reporting not r
2.A.1. Cement production	WAM	Blank cell, reporting not r
2.B. Chemical industry	WAM	Blank cell, reporting not r
2.C. Metal industry	WAM	Blank cell, reporting not r
2.C.1. Iron and steel production	WAM	Blank cell, reporting not r
2.D. Non-energy products from fuels and solvent use	WAM	Blank cell, reporting not r
2.E. Electronics industry	WAM	
2.F. Product uses as substitutes for ODS (8)	WAM	
2.G. Other product manufacture and use	WAM	Blank cell, reporting not r
2.H. Other	WAM	Blank cell, reporting not r
<b>3. Agriculture</b>	WAM	Blank cell, reporting not r
3.A. Enteric fermentation	WAM	
3.B. Manure management	WAM	
3.C. Rice cultivation	WAM	
3.D. Agricultural soils	WAM	
3.E. Prescribed burning of savannahs	WAM	
3.F. Field burning of agricultural residues	WAM	
3.G. Liming	WAM	Blank cell, reporting not r
3.H. Urea application	WAM	Blank cell, reporting not r
3.I. Other carbon-containing fertilizers	WAM	Blank cell, reporting not r
3.J. Other (please specify)	WAM	Blank cell, reporting not r
<b>4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and r</b>	WEM	Blank cell, reporting not r
4.A. Forest land	WEM	Blank cell, reporting not r
4.B. Cropland	WEM	Blank cell, reporting not r
4.C. Grassland	WEM	Blank cell, reporting not r
4.D. Wetlands	WEM	Blank cell, reporting not r
4.E. Settlements	WEM	Blank cell, reporting not r
4.F. Other Land	WEM	Blank cell, reporting not r
4.G. Harvested wood products	WEM	Blank cell, reporting not r

4.H. Other	WEM	Blank cell, reporting not r
<b>5. Waste</b>	WEM	Blank cell, reporting not r
5.A. Solid Waste Disposal	WAM	
5.B. Biological treatment of solid waste	WAM	
5.C. Incineration and open burning of waste	WAM	Blank cell, reporting not r
5.D. Wastewater treatment and discharge	WAM	
5.E. Other (please specify)	WAM	Blank cell, reporting not r
<b>Memo items</b>	WAM	Blank cell, reporting not r
International bunkers	WAM	Blank cell, reporting not r
IB.Aviation	WAM	Blank cell, reporting not r
IB.Navigation	WAM	Blank cell, reporting not r
CO2 emissions from biomass	WAM	Blank cell, reporting not r
CO2 captured	WAM	Blank cell, reporting not r
Indirect CO2 (if available) (10)	WAM	Blank cell, reporting not r
<b>Total excluding LULUCF</b>	WOM	Blank cell, reporting not r
<b>Total including LULUCF</b>	WOM	Blank cell, reporting not r
<b>1. Energy</b>	WOM	Blank cell, reporting not r
1.A. Fuel combustion	WOM	Blank cell, reporting not r
1.A.1. Energy industries	WOM	Blank cell, reporting not r
1.A.1.a. Public electricity and heat production	WOM	Blank cell, reporting not r
1.A.1.b. Petroleum refining	WOM	Blank cell, reporting not r
1.A.1.c. Manufacture of solid fuels and other energy industries	WOM	Blank cell, reporting not r
1.A.2. Manufacturing industries and construction	WOM	Blank cell, reporting not r
1.A.3. Transport	WOM	Blank cell, reporting not r
1.A.3.a. Domestic aviation	WOM	Blank cell, reporting not r
1.A.3.b. Road transportation	WOM	Blank cell, reporting not r
1.A.3.c. Railways	WOM	Blank cell, reporting not r
1.A.3.d. Domestic navigation	WOM	Blank cell, reporting not r
1.A.3.e. Other transportation	WOM	Blank cell, reporting not r
1.A.4. Other sectors	WOM	Blank cell, reporting not r
1.A.4.a. Commercial/Institutional	WOM	Blank cell, reporting not r
1.A.4.b. Residential	WOM	Blank cell, reporting not r
1.A.4.c. Agriculture/Forestry/Fishing	WOM	Blank cell, reporting not r
1.A.5. Other	WOM	Blank cell, reporting not r
1.B. Fugitive emissions from fuels	WOM	Blank cell, reporting not r
1.B.1. Solid fuels	WOM	Blank cell, reporting not r
1.B.2. Oil and natural gas and other emissions from energy production	WOM	Blank cell, reporting not r
1.C. CO2 transport and storage	WOM	Blank cell, reporting not r
<b>2. Industrial processes</b>	WOM	Blank cell, reporting not r
2.A. Mineral Industry	WOM	Blank cell, reporting not r
2.A.1. Cement production	WOM	Blank cell, reporting not r
2.B. Chemical industry	WOM	Blank cell, reporting not r
2.C. Metal industry	WOM	Blank cell, reporting not r
2.C.1. Iron and steel production	WOM	Blank cell, reporting not r
2.D. Non-energy products from fuels and solvent use	WOM	Blank cell, reporting not r
2.E. Electronics industry	WOM	
2.F. Product uses as substitutes for ODS (8)	WOM	
2.G. Other product manufacture and use	WOM	Blank cell, reporting not r

2.H. Other	WOM	Blank cell, reporting not r
<b>3. Agriculture</b>	WOM	Blank cell, reporting not r
3.A. Enteric fermentation	WOM	
3.B. Manure management	WOM	
3.C. Rice cultivation	WOM	
3.D. Agricultural soils	WOM	
3.E. Prescribed burning of savannahs	WOM	
3.F. Field burning of agricultural residues	WOM	
3.G. Liming	WOM	Blank cell, reporting not r
3.H. Urea application	WOM	Blank cell, reporting not r
3.I. Other carbon-containing fertilizers	WOM	Blank cell, reporting not r
3.J. Other (please specify)	WOM	Blank cell, reporting not r
<b>4. Land Use, Land-Use Change and Forestry (LULUCF, reported emissions and r</b>	WEM	Blank cell, reporting not r
4.A. Forest land	WEM	Blank cell, reporting not r
4.B. Cropland	WEM	Blank cell, reporting not r
4.C. Grassland	WEM	Blank cell, reporting not r
4.D. Wetlands	WEM	Blank cell, reporting not r
4.E. Settlements	WEM	Blank cell, reporting not r
4.F. Other Land	WEM	Blank cell, reporting not r
4.G. Harvested wood products	WEM	Blank cell, reporting not r
4.H. Other	WEM	Blank cell, reporting not r
<b>5. Waste</b>	WOM	Blank cell, reporting not r
5.A. Solid Waste Disposal	WOM	
5.B. Biological treatment of solid waste	WOM	
5.C. Incineration and open burning of waste	WOM	Blank cell, reporting not r
5.D. Wastewater treatment and discharge	WOM	
5.E. Other (please specify)	WOM	Blank cell, reporting not r
<b>Memo items</b>	WOM	Blank cell, reporting not r
International bunkers	WOM	Blank cell, reporting not r
IB.Aviation	WOM	Blank cell, reporting not r
IB.Navigation	WOM	Blank cell, reporting not r
CO2 emissions from biomass	WOM	Blank cell, reporting not r
CO2 captured	WOM	Blank cell, reporting not r
Indirect CO2 (if available) (10)	WOM	Blank cell, reporting not r

Week Summary (count)		
WEM	WAM	WOM
42	0	0
1.992	12.648	12.648
250	0	0
10.355	0	0

[illegible]





[illegible]



and 0 values should be replaced with notation keys.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Value	Value	Value	Value	Blank cell, report	Value	Value	Value	Value	Value
Value	Value	Value	Value	Blank cell, report	Value	Value	Value	Value	Value
Value	Value	Value	Value	Blank cell, report	Value	Value	Value	Value	Value
Value	Value	Value	Value	Blank cell, report	Value	Value	Value	Value	Value
Value	Value	Value							
			Value	Blank cell, report	Value	Value	Value	Value	Value
			Value	Blank cell, report	Value	Value	Value	Value	Value
Value	Value	Value	Value	Blank cell, report	Value	Value	Value	Value	Value
Value	Value	Value	Value	Blank cell, report	Value	Value	Value	Value	Value
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
0 value	0 value	0 value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Blank cell	Blank cell	Blank cell							
Value	Value	Value							
Value	Value	Value							
Value	Value	Value							
Blank cell, re	Blank cell, re	Blank cell, re	Blank cell, re	Blank cell, report	Blank cell, re	Blank cell, re	Blank cell, re	Blank cell, re	Blank cell, re
Blank cell, re	Blank cell, re	Blank cell, re	Blank cell, re	Blank cell, report	Blank cell, re	Blank cell, re	Blank cell, re	Blank cell, re	Blank cell, re
Blank cell, re	Blank cell, re	Blank cell, re	Reporting not mandatory						
Blank cell, re	Blank cell, re	Blank cell, re	Reporting not mandatory						
Blank cell, re	Blank cell, re	Blank cell, re	Reporting not mandatory						







[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]









[illegible]

[illegible]







[illegible]

[illegible]

[illegible]









## Annex XXV - Table 1b: Projections of reported greenhouse gas inventory (to be reported only if Table 5a is not

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

Part 1: LULUCF GHG emissions and removals on inventory and accounting categories	
Greenhouse gas source and sink categories	Category as used in Table 1a
4.A.1. Forest land remaining forest land	4.A. Forest land
4.A.2.1 Cropland converted to forest land	4.A. Forest land
4.A.2.2 Grassland converted to forest land	4.A. Forest land
4.A.2.3 Wetlands converted to forest land	4.A. Forest land
4.A.2.4 Settlements converted to forest land	4.A. Forest land
4.A.2.5 Other land converted to forest land	4.A. Forest land
4.B.1. Cropland remaining cropland	4.B. Cropland
4.B.2.1 Forest land converted to cropland	4.B. Cropland
4.B.2.2 Grassland converted to cropland	4.B. Cropland
4.B.2.3 Wetlands converted to cropland	4.B. Cropland
4.B.2.4 Settlements converted to cropland	4.B. Cropland
4.B.2.5 Other land converted to cropland	4.B. Cropland
4.C.1. Grassland remaining grassland	4.C. Grassland
4.C.2.1 Forest land converted to grassland	4.C. Grassland
4.C.2.2 Cropland converted to grassland	4.C. Grassland
4.C.2.3 Wetlands converted to grassland	4.C. Grassland
4.C.2.4 Settlements converted to grassland	4.C. Grassland
4.C.2.5 Other Land converted to grassland	4.C. Grassland
4.D.1. Wetlands remaining wetlands	4.D. Wetlands
4.D.2.1.1 Forest land converted to peat extraction	4.D. Wetlands
4.D.2.1.2 Cropland converted to peat extraction	4.D. Wetlands
4.D.2.1.3 Grassland converted to peat extraction	4.D. Wetlands
4.D.2.1.4 Settlements converted to peat extraction	4.D. Wetlands
4.D.2.1.5 Other land converted to peat extraction	4.D. Wetlands
4.D.2.2.1 Forest land converted to flooded land	4.D. Wetlands
4.D.2.2.2 Cropland converted to flooded land	4.D. Wetlands
4.D.2.2.3 Grassland converted to flooded land	4.D. Wetlands
4.D.2.2.4 Settlements converted to flooded land	4.D. Wetlands
4.D.2.2.5 Other land converted to flooded land	4.D. Wetlands
4.D.2.3.1 Forest land converted to other wetlands	4.D. Wetlands
4.D.2.3.2 Cropland converted to other wetlands	4.D. Wetlands
4.D.2.3.3 Grassland converted to other wetlands	4.D. Wetlands
4.D.2.3.4 Settlements converted to other wetlands	4.D. Wetlands

4.D.2.3.5 Other land converted to other wetlands	4.D. Wetlands
4.E.1. Settlements remaining settlements	4.E. Settlements
4.E.2.1 Forest land converted to settlements	4.E. Settlements
4.E.2.2 Cropland converted to settlements	4.E. Settlements
4.E.2.3 Grassland converted to settlements	4.E. Settlements
4.E.2.4 Wetlands converted to settlements	4.E. Settlements
4.E.2.5 Other land converted to settlements	4.E. Settlements
4.F.1. Other land remaining other land	4.F. Other land
4.F.2.1 Forest land converted to other land	4.F. Other land
4.F.2.2 Cropland converted to other land	4.F. Other land
4.F.2.3 Grassland converted to other land	4.F. Other land
4.F.2.4 Wetlands converted to other land	4.F. Other land
4.F.2.5 Settlements converted to other land	4.F. Other land
4.G Harvested wood products; thereof: Harvested wood products from managed forest land	4.G. Harvested wood products
4.G Harvested wood products; thereof: Harvested wood products from afforested land	4.G. Harvested wood products
4.G Harvested wood products; thereof: Harvested wood products from deforested land	4.G. Harvested wood products
4.G Harvested wood products; thereof: Harvested wood products from other land	4.G. Harvested wood products
4.H. Other ( <i>please specify</i> )	4.H. Other
4.A.1. Forest land remaining forest land	4.A Forest land
4.A.2.1 Cropland converted to forest land	4.A Forest land
4.A.2.2 Grassland converted to forest land	4.A Forest land
4.A.2.3 Wetlands converted to forest land	4.A Forest land
4.A.2.4 Settlements converted to forest land	4.A Forest land
4.A.2.5 Other land converted to forest land	4.A Forest land
4.B.1. Cropland remaining cropland	4.B. Cropland
4.B.2.1 Forest land converted to cropland	4.B. Cropland
4.B.2.2 Grassland converted to cropland	4.B. Cropland
4.B.2.3 Wetlands converted to cropland	4.B. Cropland
4.B.2.4 Settlements converted to cropland	4.B. Cropland
4.B.2.5 Other land converted to cropland	4.B. Cropland
4.C.1. Grassland remaining grassland	4.C. Grassland
4.C.2.1 Forest land converted to grassland	4.C. Grassland
4.C.2.2 Cropland converted to grassland	4.C. Grassland
4.C.2.3 Wetlands converted to grassland	4.C. Grassland
4.C.2.4 Settlements converted to grassland	4.C. Grassland
4.C.2.5 Other Land converted to grassland	4.C. Grassland
4.D.1. Wetlands remaining wetlands	4.D. Wetlands
4.D.2.1.1 Forest land converted to peat extraction	4.D. Wetlands

4.D.2.1.2 Cropland converted to peat extraction	4.D. Wetlands
4.D.2.1.3 Grassland converted to peat extraction	4.D. Wetlands
4.D.2.1.4 Settlements converted to peat extraction	4.D. Wetlands
4.D.2.1.5 Other land converted to peat extraction	4.D. Wetlands
4.D.2.2.1 Forest land converted to flooded land	4.D. Wetlands
4.D.2.2.2 Cropland converted to flooded land	4.D. Wetlands
4.D.2.2.3 Grassland converted to flooded land	4.D. Wetlands
4.D.2.2.4 Settlements converted to flooded land	4.D. Wetlands
4.D.2.2.5 Other land converted to flooded land	4.D. Wetlands
4.D.2.3.1 Forest land converted to other wetlands	4.D. Wetlands
4.D.2.3.2 Cropland converted to other wetlands	4.D. Wetlands
4.D.2.3.3 Grassland converted to other wetlands	4.D. Wetlands
4.D.2.3.4 Settlements converted to other wetlands	4.D. Wetlands
4.D.2.3.5 Other land converted to other wetlands	4.D. Wetlands
4.E.1. Settlements remaining settlements	4.E. Settlements
4.E.2.1 Forest land converted to settlements	4.E. Settlements
4.E.2.2 Cropland converted to settlements	4.E. Settlements
4.E.2.3 Grassland converted to settlements	4.E. Settlements
4.E.2.4 Wetlands converted to settlements	4.E. Settlements
4.E.2.5 Other land converted to settlements	4.E. Settlements
4.F.1. Other land remaining other land	4.F. Other land
4.F.2.1 Forest land converted to other land	4.F. Other land
4.F.2.2 Cropland converted to other land	4.F. Other land
4.F.2.3 Grassland converted to other land	4.F. Other land
4.F.2.4 Wetlands converted to other land	4.F. Other land
4.F.2.5 Settlements converted to other land	4.F. Other land
4.G Harvested wood products; thereof: Harvested wood products from managed forest land	4.G. Harvested wood products
4.G Harvested wood products; thereof: Harvested wood products from afforested land	4.G. Harvested wood products
4.G Harvested wood products; thereof: Harvested wood products from deforested land	4.G. Harvested wood products
4.G Harvested wood products; thereof: Harvested wood products from other land	4.G. Harvested wood products
4.H. Other ( <i>please specify</i> )	4.H. Other
4.A.1. Forest land remaining forest land	4.A Forest land
4.A.2.1 Cropland converted to forest land	4.A Forest land
4.A.2.2 Grassland converted to forest land	4.A Forest land
4.A.2.3 Wetlands converted to forest land	4.A Forest land
4.A.2.4 Settlements converted to forest land	4.A Forest land
4.A.2.5 Other land converted to forest land	4.A Forest land
4.B.1. Cropland remaining cropland	4.B. Cropland
4.B.2.1 Forest land converted to cropland	4.B. Cropland
4.B.2.2 Grassland converted to cropland	4.B. Cropland

4.B.2.3 Wetlands converted to cropland	4.B. Cropland
4.B.2.4 Settlements converted to cropland	4.B. Cropland
4.B.2.5 Other land converted to cropland	4.B. Cropland
4.C.1. Grassland remaining grassland	4.C. Grassland
4.C.2.1 Forest land converted to grassland	4.C. Grassland
4.C.2.2 Cropland converted to grassland	4.C. Grassland
4.C.2.3 Wetlands converted to grassland	4.C. Grassland
4.C.2.4 Settlements converted to grassland	4.C. Grassland
4.C.2.5 Other Land converted to grassland	4.C. Grassland
4.D.1. Wetlands remaining wetlands	4.D. Wetlands
4.D.2.1.1 Forest land converted to peat extraction	4.D. Wetlands
4.D.2.1.2 Cropland converted to peat extraction	4.D. Wetlands
4.D.2.1.3 Grassland converted to peat extraction	4.D. Wetlands
4.D.2.1.4 Settlements converted to peat extraction	4.D. Wetlands
4.D.2.1.5 Other land converted to peat extraction	4.D. Wetlands
4.D.2.2.1 Forest land converted to flooded land	4.D. Wetlands
4.D.2.2.2 Cropland converted to flooded land	4.D. Wetlands
4.D.2.2.3 Grassland converted to flooded land	4.D. Wetlands
4.D.2.2.4 Settlements converted to flooded land	4.D. Wetlands
4.D.2.2.5 Other land converted to flooded land	4.D. Wetlands
4.D.2.3.1 Forest land converted to other wetlands	4.D. Wetlands
4.D.2.3.2 Cropland converted to other wetlands	4.D. Wetlands
4.D.2.3.3 Grassland converted to other wetlands	4.D. Wetlands
4.D.2.3.4 Settlements converted to other wetlands	4.D. Wetlands
4.D.2.3.5 Other land converted to other wetlands	4.D. Wetlands
4.E.1. Settlements remaining settlements	4.E. Settlements
4.E.2.1 Forest land converted to settlements	4.E. Settlements
4.E.2.2 Cropland converted to settlements	4.E. Settlements
4.E.2.3 Grassland converted to settlements	4.E. Settlements
4.E.2.4 Wetlands converted to settlements	4.E. Settlements
4.E.2.5 Other land converted to settlements	4.E. Settlements
4.F.1. Other land remaining other land	4.F. Other land
4.F.2.1 Forest land converted to other land	4.F. Other land
4.F.2.2 Cropland converted to other land	4.F. Other land
4.F.2.3 Grassland converted to other land	4.F. Other land
4.F.2.4 Wetlands converted to other land	4.F. Other land
4.F.2.5 Settlements converted to other land	4.F. Other land
4.G Harvested wood products; thereof: Harvested wood products from managed forest land	4.G. Harvested wood products
4.G Harvested wood products; thereof: Harvested wood products from afforested land	4.G. Harvested wood products
4.G Harvested wood products; thereof: Harvested wood products from deforested land	4.G. Harvested wood products

4.G Harvested wood products; thereof: Harvested wood products from other land	4.G. Harvested wood products
4.H. Other <i>(please specify)</i>	4.H. Other

Part 2: summary for Table 1a (automatically calculated if Table 1b is filled out correctly)

	Greenhouse gas source and sink categories (as Table 1a)
	4.A. Forest land
	4.B. Cropland
	4.C. Grassland
	4.D. Wetlands
	4.E. Settlements
	4.F. Other Land
	4.G. Harvested wood products
	4.H. Other
	4.A. Forest land
	4.B. Cropland
	4.C. Grassland
	4.D. Wetlands
	4.E. Settlements
	4.F. Other Land
	4.G. Harvested wood products
	4.H. Other
	4.A. Forest land
	4.B. Cropland
	4.C. Grassland
	4.D. Wetlands
	4.E. Settlements
	4.F. Other Land
	4.G. Harvested wood products
	4.H. Other

Part 3: summary for Table 5a (automatically calculated if Table 1b is filled out correctly; values need to be inserted manually)

Please note this part is in kt CO2 equivalents, while Table 5a is in kt. Automatic calculations already performed

--	--



---

**Notes:**

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

(1) A reporting up to t-10 on yearly basis is optional.

(2) Emissions shall be expressed as positive values; removals shall be expressed as negativ

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

gas emissions and removals in the LULUCF sector as reported in the national  
 (completed in full) <sup>(1)(2)</sup>

Category matching level		t-10 (see foot t-5 (see footn			
LULUCF Regulation Accounting subcategory (as Table 5a)	LULUCF Regulation Accounting category	Scenario (WEM, WAM, WOM)	CO2 (ktCO2e)	CO2 (ktCO2e)	CO2 (ktCO2e)
			Select base year	2015	2020
Forest land remaining forest land	Managed forest land	WEM			
Cropland converted to forest land	Afforested land	WEM			
Grassland converted to forest land	Afforested land	WEM			
Wetland converted to forest land	Afforested land	WEM			
Settlements converted to forest land	Afforested land	WEM			
Other land converted to forest land	Afforested land	WEM			
Cropland remaining cropland	Managed cropland	WEM			
Forest land converted to cropland	Deforested land	WEM			
Grassland converted to cropland	Managed cropland	WEM			
Wetland converted to cropland	Managed cropland	WEM			
Settlements converted to cropland	Managed cropland	WEM			
Other land converted to cropland	Managed cropland	WEM			
Grassland remaining grassland	Managed grassland	WEM			
Forest land converted to grassland	Deforested land	WEM			
Cropland converted to grassland	Managed grassland	WEM			
Wetland converted to grassland	Managed grassland	WEM			
Settlements converted to grassland	Managed grassland	WEM			
Other land converted to grassland	Managed grassland	WEM			
Wetland remaining wetland	Managed wetland	WEM			
Forest land converted to wetland	Deforested land	WEM			
Cropland converted to wetland	Managed cropland	WEM			
Grassland converted to wetland	Managed grassland	WEM			
Settlement converted to wetland	Managed wetland	WEM			
Other land converted to wetland	Managed wetland	WEM			
Forest land converted to wetland	Deforested land	WEM			
Cropland converted to wetland	Managed cropland	WEM			
Grassland converted to wetland	Managed grassland	WEM			
Settlement converted to wetland	Managed wetland	WEM			
Other land converted to wetland	Managed wetland	WEM			
Forest land converted to wetland	Deforested land	WEM			
Cropland converted to wetland	Managed cropland	WEM			
Grassland converted to wetland	Managed grassland	WEM			
Settlement converted to wetland	Managed wetland	WEM			
Other land converted to wetland	Managed wetland	WEM			
Forest land converted to wetland	Deforested land	WEM			
Cropland converted to wetland	Managed cropland	WEM			
Grassland converted to wetland	Managed grassland	WEM			
Settlement converted to wetland	Managed wetland	WEM			

Other land converted to wetland	Managed wetland	WEM			
not accounted for under Regulation (EU) 2018/841		WEM			
Forest land converted to settlements	Deforested land	WEM			
Cropland converted to settlements	Managed cropland	WEM			
Grassland converted to settlement	Managed grassland	WEM			
Wetland converted to settlement	Managed wetland	WEM			
not accounted for under Regulation (EU) 2018/841		WEM			
not accounted for under Regulation (EU) 2018/841		WEM			
Forest land converted to other land	Deforested land	WEM			
Cropland converted to other land	Managed cropland	WEM			
Grassland converted to other land	Managed grassland	WEM			
Wetland converted to other land	Managed wetland	WEM			
not accounted for under Regulation (EU) 2018/841		WEM			
Harvested wood products from managed forest land	Harvested wood products	WEM			
Harvested wood products from afforested land	Harvested wood products	WEM			
not accounted for under Regulation (EU) 2018/841		WEM			
not accounted for under Regulation (EU) 2018/841		WEM			
not accounted for under Regulation (EU) 2018/841		WEM			
Forest land remaining forest land	Managed forest land	WAM			
Cropland converted to forest land	Afforested land	WAM			
Grassland converted to forest land	Afforested land	WAM			
Wetland converted to forest land	Afforested land	WAM			
Settlements converted to forest land	Afforested land	WAM			
Other land converted to forest land	Afforested land	WAM			
Cropland remaining cropland	Managed cropland	WAM			
Forest land converted to cropland	Deforested land	WAM			
Grassland converted to cropland	Managed cropland	WAM			
Wetland converted to cropland	Managed cropland	WAM			
Settlements converted to cropland	Managed cropland	WAM			
Other land converted to cropland	Managed cropland	WAM			
Grassland remaining grassland	Managed grassland	WAM			
Forest land converted to grassland	Deforested land	WAM			
Cropland converted to grassland	Managed grassland	WAM			
Wetland converted to grassland	Managed grassland	WAM			
Settlements converted to grassland	Managed grassland	WAM			
Other land converted to grassland	Managed grassland	WAM			
Wetland remaining wetland	Managed wetland	WAM			
Forest land converted to wetland	Deforested land	WAM			



Cropland converted to wetland	Managed cropland	WAM			
Grassland converted to wetland	Managed grassland	WAM			
Settlement converted to wetland	Managed wetland	WAM			
Other land converted to wetland	Managed wetland	WAM			
Forest land converted to wetland	Deforested land	WAM			
Cropland converted to wetland	Managed cropland	WAM			
Grassland converted to wetland	Managed grassland	WAM			
Settlement converted to wetland	Managed wetland	WAM			
Other land converted to wetland	Managed wetland	WAM			
Forest land converted to wetland	Deforested land	WAM			
Cropland converted to wetland	Managed cropland	WAM			
Grassland converted to wetland	Managed grassland	WAM			
Settlement converted to wetland	Managed wetland	WAM			
Other land converted to wetland	Managed wetland	WAM			
not accounted for under Regulation (EU) 2018/841		WAM			
Forest land converted to settlements	Deforested land	WAM			
Cropland converted to settlements	Managed cropland	WAM			
Grassland converted to settlement	Managed grassland	WAM			
Wetland converted to settlement	Managed wetland	WAM			
not accounted for under Regulation (EU) 2018/841		WAM			
not accounted for under Regulation (EU) 2018/841		WAM			
Forest land converted to other land	Deforested land	WAM			
Cropland converted to other land	Managed cropland	WAM			
Grassland converted to other land	Managed grassland	WAM			
Wetland converted to other land	Managed wetland	WAM			
not accounted for under Regulation (EU) 2018/841		WAM			
Harvested wood products from managed forest land	Harvested wood products	WAM			
Harvested wood products from afforested land	Harvested wood products	WAM			
not accounted for under Regulation (EU) 2018/841		WAM			
not accounted for under Regulation (EU) 2018/841		WAM			
not accounted for under Regulation (EU) 2018/841		WAM			
Forest land remaining forest land	Managed forest land	WOM			
Cropland converted to forest land	Afforested land	WOM			
Grassland converted to forest land	Afforested land	WOM			
Wetland converted to forest land	Afforested land	WOM			
Settlements converted to forest land	Afforested land	WOM			
Other land converted to forest land	Afforested land	WOM			
Cropland remaining cropland	Managed cropland	WOM			
Forest land converted to cropland	Deforested land	WOM			
Grassland converted to cropland	Managed cropland	WOM			

Wetland converted to cropland	Managed cropland	WOM			
Settlements converted to cropland	Managed cropland	WOM			
Other land converted to cropland	Managed cropland	WOM			
Grassland remaining grassland	Managed grassland	WOM			
Forest land converted to grassland	Deforested land	WOM			
Cropland converted to grassland	Managed grassland	WOM			
Wetland converted to grassland	Managed grassland	WOM			
Settlements converted to grassland	Managed grassland	WOM			
Other land converted to grassland	Managed grassland	WOM			
Wetland remaining wetland	Managed wetland	WOM			
Forest land converted to wetland	Deforested land	WOM			
Cropland converted to wetland	Managed cropland	WOM			
Grassland converted to wetland	Managed grassland	WOM			
Settlement converted to wetland	Managed wetland	WOM			
Other land converted to wetland	Managed wetland	WOM			
Forest land converted to wetland	Deforested land	WOM			
Cropland converted to wetland	Managed cropland	WOM			
Grassland converted to wetland	Managed grassland	WOM			
Settlement converted to wetland	Managed wetland	WOM			
Other land converted to wetland	Managed wetland	WOM			
Forest land converted to wetland	Deforested land	WOM			
Cropland converted to wetland	Managed cropland	WOM			
Grassland converted to wetland	Managed grassland	WOM			
Settlement converted to wetland	Managed wetland	WOM			
Other land converted to wetland	Managed wetland	WOM			
not accounted for under Regulation (EU) 2018/841		WOM			
Forest land converted to settlements	Deforested land	WOM			
Cropland converted to settlements	Managed cropland	WOM			
Grassland converted to settlement	Managed grassland	WOM			
Wetland converted to settlement	Managed wetland	WOM			
not accounted for under Regulation (EU) 2018/841		WOM			
not accounted for under Regulation (EU) 2018/841		WOM			
Forest land converted to other land	Deforested land	WOM			
Cropland converted to other land	Managed cropland	WOM			
Grassland converted to other land	Managed grassland	WOM			
Wetland converted to other land	Managed wetland	WOM			
not accounted for under Regulation (EU) 2018/841		WOM			
Harvested wood products from managed forest land	Harvested wood products	WOM			
Harvested wood products from afforested land	Harvested wood products	WOM			
not accounted for under Regulation (EU) 2018/841		WOM			

not accounted for under Regulation (EU) 2018/841		WOM			
not accounted for under Regulation (EU) 2018/841		WOM			
completely)		Scenario (WEM, WAM, WOM)	CO2 (ktCO2e)	CO2 (ktCO2e)	CO2 (ktCO2e)
			Select base year	2015	2020
		WEM			
		WEM			
		WEM			
		WEM			
		WEM			
		WEM			
		WEM			
		WEM			
		WAM			
		WAM			
		WAM			
		WAM			
		WAM			
		WAM			
		WAM			
		WAM			
		WOM			
		WOM			
		WOM			
		WOM			
		WOM			
		WOM			
		WOM			
		WOM			
completely, otherwise the unaccounted emissions/removals		Scenario (WEM, WAM, WOM)	CO2 (ktCO2e)	CO2 (ktCO2e)	CO2 (ktCO2e)
dy account for this.	LULUCF Regulation Accounting category		Select base year	2015	2020
	Sum afforested land	WEM			
	Sum deforested land	WEM			
	Sum managed cropland	WEM			
	Sum managed grassland	WEM			
	Sum managed forest land	WEM			
	Sum managed wetland	WEM			
	Sum harvested wood	WEM			
	Sum unaccounted	WEM			
		Sum afforested land	WAM		
		Sum deforested land	WAM		
		Sum managed cropland	WAM		

	Sum managed grassland	WAM			
	Sum managed forest land	WAM			
	Sum managed wetland	WAM			
	Sum harvested wood	WAM			
	Sum unaccounted	WAM			
	Sum afforested land	WOM			
	Sum deforested land	WOM			
	Sum managed cropland	WOM			
	Sum managed grassland	WOM			
	Sum managed forest land	WOM			
	Sum managed wetland	WOM			
	Sum harvested wood	WOM			
	Sum unaccounted	WOM			

ote 3)

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

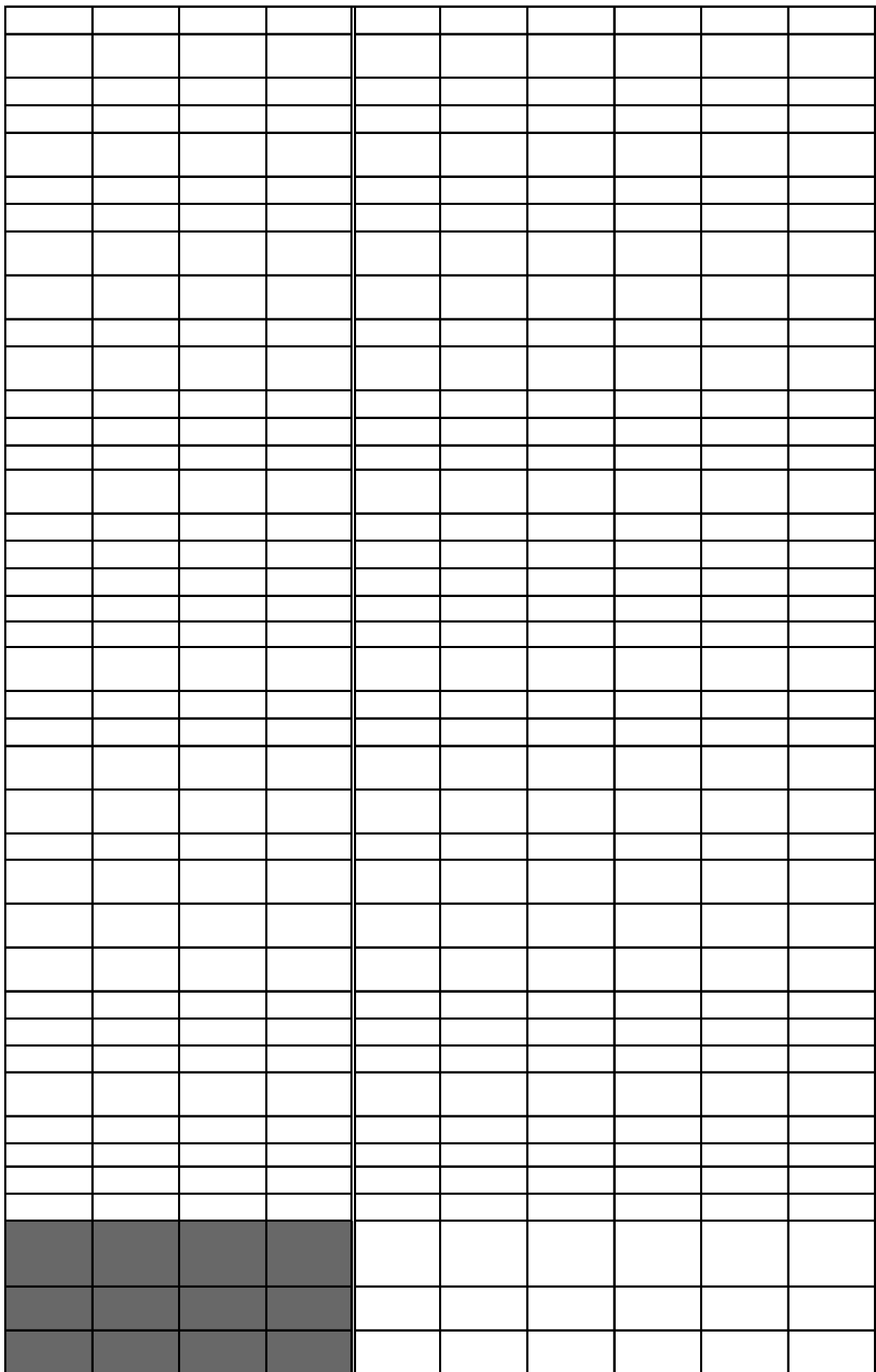
[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]















# Sum Check

This sheet provides the result of the sum checks for the WEM scenario.

Check **Reported Total GHGs - Aggregate GHGs = 0**

A summary of the results is provided in row 2, Column AC.

Notes: where check "1. Check Reported Total GHGs - Aggregate GHGs" cannot be completed because no numeric To the notation key is shown. All checks are rounded to 6 decimal places.

Potential errors are highlighted in pink in columns AL:BS

Calculating Total GHGs from the in				
Category (1,3)	Scenario (WEM, WAM, WOM)	Aggregate GHGs (CO2e) = CO2 (ktCO2e) + CH4 (ktCO2e) + N2O (ktCO2e) + F-gases (ktCO2e)		
		Select base year	2020	2025
4.A.1. Forest land remaining forest land	WEM	0,00	0,00	0,00
4.A.2.1 Cropland converted to forest land	WEM	0,00	0,00	0,00
4.A.2.2 Grassland converted to forest land	WEM	0,00	0,00	0,00
4.A.2.3 Wetlands converted to forest land	WEM	0,00	0,00	0,00
4.A.2.4 Settlements converted to forest land	WEM	0,00	0,00	0,00
4.A.2.5 Other land converted to forest land	WEM	0,00	0,00	0,00
4.B.1. Cropland remaining cropland	WEM	0,00	0,00	0,00
4.B.2.1 Forest land converted to cropland	WEM	0,00	0,00	0,00
4.B.2.2 Grassland converted to cropland	WEM	0,00	0,00	0,00
4.B.2.3 Wetlands converted to cropland	WEM	0,00	0,00	0,00
4.B.2.4 Settlements converted to cropland	WEM	0,00	0,00	0,00
4.B.2.5 Other land converted to cropland	WEM	0,00	0,00	0,00
4.C.1. Grassland remaining grassland	WEM	0,00	0,00	0,00
4.C.2.1 Forest land converted to grassland	WEM	0,00	0,00	0,00
4.C.2.2 Cropland converted to grassland	WEM	0,00	0,00	0,00
4.C.2.3 Wetlands converted to grassland	WEM	0,00	0,00	0,00
4.C.2.4 Settlements converted to grassland	WEM	0,00	0,00	0,00
4.C.2.5 Other Land converted to grassland	WEM	0,00	0,00	0,00
4.D.1. Wetlands remaining wetlands	WEM	0,00	0,00	0,00
4.D.2.1.1 Forest land converted to peat extraction	WEM	0,00	0,00	0,00
4.D.2.1.2 Cropland converted to peat extraction	WEM	0,00	0,00	0,00
4.D.2.1.3 Grassland converted to peat extraction	WEM	0,00	0,00	0,00
4.D.2.1.4 Settlements converted to peat extraction	WEM	0,00	0,00	0,00
4.D.2.1.5 Other land converted to peat extraction	WEM	0,00	0,00	0,00
4.D.2.2.1 Forest land converted to flooded land	WEM	0,00	0,00	0,00
4.D.2.2.2 Cropland converted to flooded land	WEM	0,00	0,00	0,00
4.D.2.2.3 Grassland converted to flooded land	WEM	0,00	0,00	0,00
4.D.2.2.4 Settlements converted to flooded land	WEM	0,00	0,00	0,00
4.D.2.2.5 Other land converted to flooded land	WEM	0,00	0,00	0,00
4.D.2.3.1 Forest land converted to other wetlands	WEM	0,00	0,00	0,00
4.D.2.3.2 Cropland converted to other wetlands	WEM	0,00	0,00	0,00
4.D.2.3.3 Grassland converted to other wetlands	WEM	0,00	0,00	0,00
4.D.2.3.4 Settlements converted to other wetlands	WEM	0,00	0,00	0,00
4.D.2.3.5 Other land converted to other wetlands	WEM	0,00	0,00	0,00

4.E.1. Settlements remaining settlements	WEM	0,00	0,00	0,00
4.E.2.1 Forest land converted to settlements	WEM	0,00	0,00	0,00
4.E.2.2 Cropland converted to settlements	WEM	0,00	0,00	0,00
4.E.2.3 Grassland converted to settlements	WEM	0,00	0,00	0,00
4.E.2.4 Wetlands converted to settlements	WEM	0,00	0,00	0,00
4.E.2.5 Other land converted to settlements	WEM	0,00	0,00	0,00
4.F.1. Other land remaining other land	WEM	0,00	0,00	0,00
4.F.2.1 Forest land converted to other land	WEM	0,00	0,00	0,00
4.F.2.2 Cropland converted to other land	WEM	0,00	0,00	0,00
4.F.2.3 Grassland converted to other land	WEM	0,00	0,00	0,00
4.F.2.4 Wetlands converted to other land	WEM	0,00	0,00	0,00
4.F.2.5 Settlements converted to other land	WEM	0,00	0,00	0,00
4.G Harvested wood products; thereof: Harvested wood products from managed forests	WEM	0,00	0,00	0,00
4.G Harvested wood products; thereof: Harvested wood products from afforestation	WEM	0,00	0,00	0,00
4.G Harvested wood products; thereof: Harvested wood products from deforestation	WEM	0,00	0,00	0,00
4.G Harvested wood products; thereof: Harvested wood products from other land	WEM	0,00	0,00	0,00
4.H. Other (please specify)	WEM	0,00	0,00	0,00



[illegible]







## Completeness Check

This sheet provides the result of the completeness check for all scenarios. Errors occur where:

1. **Blank cell**: Mandatory cells (filled in yellow) are blank
2. **0 value**: Zero value has been entered (applies to mandatory and non-mandatory cells)

Non-mandatory cells which are blank are shown but not highlighted (**Blank cell, reporting not mandatory**).

A summary of the submission completeness by scenario is provided in cells B2:N7.

Completeness Check Summary	
	WEM
Mandatory Blank Cells	1.581
Non-Mandatory Blank Cells	5.967
Zero Values	0
Completed Cells	0

Check number of cells = 7,548

TRUE

Potential errors are highlighted in pink in columns C: ET

Check completeness. Blank cell

Greenhouse gas source and sink categories	Scenario (WEM, WAM, WOM)	CO2 (ktCO2e)	CO2 (ktCO2e)
		Select base year	2015
4.A.1. Forest land remaining forest land	WEM	Blank cell	Blank cell, reporting not mandatory
4.A.2.1 Cropland converted to forest land	WEM	Blank cell	Blank cell, reporting not mandatory
4.A.2.2 Grassland converted to forest land	WEM	Blank cell	Blank cell, reporting not mandatory
4.A.2.3 Wetlands converted to forest land	WEM	Blank cell	Blank cell, reporting not mandatory
4.A.2.4 Settlements converted to forest land	WEM	Blank cell	Blank cell, reporting not mandatory
4.A.2.5 Other land converted to forest land	WEM	Blank cell	Blank cell, reporting not mandatory
4.B.1. Cropland remaining cropland	WEM	Blank cell	Blank cell, reporting not mandatory
4.B.2.1 Forest land converted to cropland	WEM	Blank cell	Blank cell, reporting not mandatory
4.B.2.2 Grassland converted to cropland	WEM	Blank cell	Blank cell, reporting not mandatory
4.B.2.3 Wetlands converted to cropland	WEM	Blank cell	Blank cell, reporting not mandatory
4.B.2.4 Settlements converted to cropland	WEM	Blank cell	Blank cell, reporting not mandatory
4.B.2.5 Other land converted to cropland	WEM	Blank cell	Blank cell, reporting not mandatory
4.C.1. Grassland remaining grassland	WEM	Blank cell	Blank cell, reporting not mandatory
4.C.2.1 Forest land converted to grassland	WEM	Blank cell	Blank cell, reporting not mandatory
4.C.2.2 Cropland converted to grassland	WEM	Blank cell	Blank cell, reporting not mandatory
4.C.2.3 Wetlands converted to grassland	WEM	Blank cell	Blank cell, reporting not mandatory
4.C.2.4 Settlements converted to grassland	WEM	Blank cell	Blank cell, reporting not mandatory
4.C.2.5 Other Land converted to grassland	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.1. Wetlands remaining wetlands	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.1.1 Forest land converted to peat extraction	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.1.2 Cropland converted to peat extraction	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.1.3 Grassland converted to peat extraction	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.1.4 Settlements converted to peat extraction	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.1.5 Other land converted to peat extraction	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.2.1 Forest land converted to flooded land	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.2.2 Cropland converted to flooded land	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.2.3 Grassland converted to flooded land	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.2.4 Settlements converted to flooded land	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.2.5 Other land converted to flooded land	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.3.1 Forest land converted to other wetlands	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.3.2 Cropland converted to other wetlands	WEM	Blank cell	Blank cell, reporting not mandatory
4.D.2.3.3 Grassland converted to other wetlands	WEM	Blank cell	Blank cell, reporting not mandatory

4.D.2.3.4 Settlements converted to other wetlands	WEM	Blank cell	Blank cell, reporting no
4.D.2.3.5 Other land converted to other wetlands	WEM	Blank cell	Blank cell, reporting no
4.E.1. Settlements remaining settlements	WEM	Blank cell	Blank cell, reporting no
4.E.2.1 Forest land converted to settlements	WEM	Blank cell	Blank cell, reporting no
4.E.2.2 Cropland converted to settlements	WEM	Blank cell	Blank cell, reporting no
4.E.2.3 Grassland converted to settlements	WEM	Blank cell	Blank cell, reporting no
4.E.2.4 Wetlands converted to settlements	WEM	Blank cell	Blank cell, reporting no
4.E.2.5 Other land converted to settlements	WEM	Blank cell	Blank cell, reporting no
4.F.1. Other land remaining other land	WEM	Blank cell	Blank cell, reporting no
4.F.2.1 Forest land converted to other land	WEM	Blank cell	Blank cell, reporting no
4.F.2.2 Cropland converted to other land	WEM	Blank cell	Blank cell, reporting no
4.F.2.3 Grassland converted to other land	WEM	Blank cell	Blank cell, reporting no
4.F.2.4 Wetlands converted to other land	WEM	Blank cell	Blank cell, reporting no
4.F.2.5 Settlements converted to other land	WEM	Blank cell	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from managed forests	WEM	Blank cell	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from afforestation	WEM	Blank cell	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from deforestation	WEM	Blank cell	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from other land	WEM	Blank cell	Blank cell, reporting no
4.H. Other (please specify)	WEM	Blank cell	Blank cell, reporting no
4.A.1. Forest land remaining forest land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.1 Cropland converted to forest land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.2 Grassland converted to forest land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.3 Wetlands converted to forest land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.4 Settlements converted to forest land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.5 Other land converted to forest land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.B.1. Cropland remaining cropland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.1 Forest land converted to cropland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.2 Grassland converted to cropland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.3 Wetlands converted to cropland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.4 Settlements converted to cropland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.5 Other land converted to cropland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.C.1. Grassland remaining grassland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.1 Forest land converted to grassland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.2 Cropland converted to grassland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.3 Wetlands converted to grassland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.4 Settlements converted to grassland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.5 Other Land converted to grassland	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.1. Wetlands remaining wetlands	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.1 Forest land converted to peat extraction	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.2 Cropland converted to peat extraction	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.3 Grassland converted to peat extraction	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.4 Settlements converted to peat extraction	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.5 Other land converted to peat extraction	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.1 Forest land converted to flooded land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.2 Cropland converted to flooded land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.3 Grassland converted to flooded land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.4 Settlements converted to flooded land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.5 Other land converted to flooded land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.1 Forest land converted to other wetlands	WAM	Blank cell, reporting no	Blank cell, reporting no

4.D.2.3.2 Cropland converted to other wetlands	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.3 Grassland converted to other wetlands	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.4 Settlements converted to other wetlands	WAM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.5 Other land converted to other wetlands	WAM	Blank cell, reporting no	Blank cell, reporting no
4.E.1. Settlements remaining settlements	WAM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.1 Forest land converted to settlements	WAM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.2 Cropland converted to settlements	WAM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.3 Grassland converted to settlements	WAM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.4 Wetlands converted to settlements	WAM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.5 Other land converted to settlements	WAM	Blank cell, reporting no	Blank cell, reporting no
4.F.1. Other land remaining other land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.1 Forest land converted to other land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.2 Cropland converted to other land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.3 Grassland converted to other land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.4 Wetlands converted to other land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.5 Settlements converted to other land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from managed forests	WAM	Blank cell, reporting no	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from afforestation	WAM	Blank cell, reporting no	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from deforestation	WAM	Blank cell, reporting no	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from other land	WAM	Blank cell, reporting no	Blank cell, reporting no
4.H. Other (please specify)	WAM	Blank cell, reporting no	Blank cell, reporting no
4.A.1. Forest land remaining forest land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.1 Cropland converted to forest land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.2 Grassland converted to forest land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.3 Wetlands converted to forest land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.4 Settlements converted to forest land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.A.2.5 Other land converted to forest land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.B.1. Cropland remaining cropland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.1 Forest land converted to cropland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.2 Grassland converted to cropland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.3 Wetlands converted to cropland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.4 Settlements converted to cropland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.B.2.5 Other land converted to cropland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.C.1. Grassland remaining grassland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.1 Forest land converted to grassland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.2 Cropland converted to grassland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.3 Wetlands converted to grassland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.4 Settlements converted to grassland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.C.2.5 Other Land converted to grassland	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.1. Wetlands remaining wetlands	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.1 Forest land converted to peat extraction	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.2 Cropland converted to peat extraction	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.3 Grassland converted to peat extraction	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.4 Settlements converted to peat extraction	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.1.5 Other land converted to peat extraction	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.1 Forest land converted to flooded land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.2 Cropland converted to flooded land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.3 Grassland converted to flooded land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.2.4 Settlements converted to flooded land	WOM	Blank cell, reporting no	Blank cell, reporting no

4.D.2.2.5 Other land converted to flooded land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.1 Forest land converted to other wetlands	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.2 Cropland converted to other wetlands	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.3 Grassland converted to other wetlands	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.4 Settlements converted to other wetlands	WOM	Blank cell, reporting no	Blank cell, reporting no
4.D.2.3.5 Other land converted to other wetlands	WOM	Blank cell, reporting no	Blank cell, reporting no
4.E.1. Settlements remaining settlements	WOM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.1 Forest land converted to settlements	WOM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.2 Cropland converted to settlements	WOM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.3 Grassland converted to settlements	WOM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.4 Wetlands converted to settlements	WOM	Blank cell, reporting no	Blank cell, reporting no
4.E.2.5 Other land converted to settlements	WOM	Blank cell, reporting no	Blank cell, reporting no
4.F.1. Other land remaining other land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.1 Forest land converted to other land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.2 Cropland converted to other land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.3 Grassland converted to other land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.4 Wetlands converted to other land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.F.2.5 Settlements converted to other land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from managed forests	WOM	Blank cell, reporting no	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from afforestation	WOM	Blank cell, reporting no	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from deforestation	WOM	Blank cell, reporting no	Blank cell, reporting no
4.G Harvested wood products; thereof: Harvested wood products from other land	WOM	Blank cell, reporting no	Blank cell, reporting no
4.H. Other (please specify)	WOM	Blank cell, reporting no	Blank cell, reporting no



(count)	
WAM	WOM
0	0
7.548	7.548
0	0
0	0
TRUE	TRUE

TRUE

TRUE

**All and cells where value = 0 are highlighted as errors. 0 values should be replaced with notation key**

[illegible]

[illegible]









**ys and mandatory cells should not be left blank.**

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]











[illegible]



[illegible]

[illegible]















**Annex XXV - Table 5a:** Projections of reported emissions and removals from the LL Regulation (EU) 2018/841 **(to be reported only if Table 1b is not completed in full)**

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

Category	Scenario (WEM, WAM, WOM)	CO2 (kt)	CO2 (kt)	CO2 (kt)
		Select base year	2015	2016
<b>Managed forest land</b>	WEM			
Forest land remaining forest land	WEM			
<b>Afforested land</b>	WEM			
Cropland converted to forest land	WEM			
Grassland converted to forest land	WEM			
Wetland converted to forest land	WEM			
Settlements converted to forest land	WEM			
Other land converted to forest land	WEM			
<b>Deforested land</b>	WEM			
Forest land converted to cropland	WEM			
Forest land converted to grassland	WEM			
Forest land converted to wetland	WEM			
Forest land converted to settlements	WEM			
Forest land converted to other land	WEM			
<b>Managed cropland</b>	WEM			
Cropland remaining cropland	WEM			
Grassland converted to cropland	WEM			
Wetland converted to cropland	WEM			
Settlements converted to cropland	WEM			
Other land converted to cropland	WEM			
Cropland converted to wetland	WEM			
Cropland converted to settlements	WEM			
Cropland converted to other land	WEM			
<b>Managed grassland</b>	WEM			
Grassland remaining grassland	WEM			
Cropland converted to grassland	WEM			
Wetland converted to grassland	WEM			
Settlements converted to grassland	WEM			
Other land converted to grassland	WEM			
Grassland converted to wetland	WEM			
Grassland converted to settlement	WEM			
Grassland converted to other land	WEM			
<b>Managed wetland</b>	WEM			
Wetland remaining wetland	WEM			
Settlement converted to wetland	WEM			
Other land converted to wetland	WEM			
Wetland converted to settlement	WEM			
Wetland converted to other land	WEM			

<b>Harvested wood products</b>	WEM			
Managed forest land (HWP)	WEM			
Afforested land (HWP)	WEM			
<b>Managed forest land</b>	WAM			
Forest land remaining forest land	WAM			
<b>Afforested land</b>	WAM			
Cropland converted to forest land	WAM			
Grassland converted to forest land	WAM			
Wetland converted to forest land	WAM			
Settlements converted to forest land	WAM			
Other land converted to forest land	WAM			
<b>Deforested land</b>	WAM			
Forest land converted to cropland	WAM			
Forest land converted to grassland	WAM			
Forest land converted to wetland	WAM			
Forest land converted to settlements	WAM			
Forest land converted to other land	WAM			
<b>Managed cropland</b>	WAM			
Cropland remaining cropland	WAM			
Grassland converted to cropland	WAM			
Wetland converted to cropland	WAM			
Settlements converted to cropland	WAM			
Other land converted to cropland	WAM			
Cropland converted to wetland	WAM			
Cropland converted to settlements	WAM			
Cropland converted to other land	WAM			
<b>Managed grassland</b>	WAM			
Grassland remaining grassland	WAM			
Cropland converted to grassland	WAM			
Wetland converted to grassland	WAM			
Settlements converted to grassland	WAM			
Other land converted to grassland	WAM			
Grassland converted to wetland	WAM			
Grassland converted to settlement	WAM			
Grassland converted to other land	WAM			
<b>Managed wetland</b>	WAM			
Wetland remaining wetland	WAM			
Settlement converted to wetland	WAM			
Other land converted to wetland	WAM			
Wetland converted to settlement	WAM			
Wetland converted to other land	WAM			
<b>Harvested wood products</b>	WAM			
Managed forest land (HWP)	WAM			
Afforested land (HWP)	WAM			
<b>Managed forest land</b>	WOM			
Forest land remaining forest land	WOM			
<b>Afforested land</b>	WOM			
Cropland converted to forest land	WOM			



Grassland converted to forest land	WOM			
Wetland converted to forest land	WOM			
Settlements converted to forest land	WOM			
Other land converted to forest land	WOM			
<b>Deforested land</b>	WOM			
Forest land converted to cropland	WOM			
Forest land converted to grassland	WOM			
Forest land converted to wetland	WOM			
Forest land converted to settlements	WOM			
Forest land converted to other land	WOM			
<b>Managed cropland</b>	WOM			
Cropland remaining cropland	WOM			
Grassland converted to cropland	WOM			
Wetland converted to cropland	WOM			
Settlements converted to cropland	WOM			
Other land converted to cropland	WOM			
Cropland converted to wetland	WOM			
Cropland converted to settlements	WOM			
Cropland converted to other land	WOM			
<b>Managed grassland</b>	WOM			
Grassland remaining grassland	WOM			
Cropland converted to grassland	WOM			
Wetland converted to grassland	WOM			
Settlements converted to grassland	WOM			
Other land converted to grassland	WOM			
Grassland converted to wetland	WOM			
Grassland converted to settlement	WOM			
Grassland converted to other land	WOM			
<b>Managed wetland</b>	WOM			
Wetland remaining wetland	WOM			
Settlement converted to wetland	WOM			
Other land converted to wetland	WOM			
Wetland converted to settlement	WOM			
Wetland converted to other land	WOM			
<b>Harvested wood products</b>	WOM			
Managed forest land (HWP)	WOM			
Afforested land (HWP)	WOM			

#### Notes:

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

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



ILUCF sector by gases and accounting categories as defined in

[illegible]

[illegible]

[illegible]





[illegible]



[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]













## Sum Check

This sheet provides the result of the sum checks for the WEM scenario.

Check **Reported Total GHGs - Aggregate GHGs = 0**

Values for CH<sub>4</sub> and N<sub>2</sub>O have been converted to CO<sub>2</sub>e (using the data in cells A11:C13).

A summary of the results is provided in row 4.

Notes: where check "1. Check Reported Total GHGs - Aggregate GHGs" cannot be completed because no numeric To the notation key is shown. All checks are rounded to 6 decimal places.

**Potential errors are highlighted in pink in columns AO: BY**

### Calculating Total GHGs from the in

Category	Scenario (WEM, WAM, WOM)	Aggregate GHGs (CO <sub>2</sub> e) = CO <sub>2</sub> (kt) + (CH <sub>4</sub> (kt) × 25) + (N <sub>2</sub> O (kt) × 298)		
		Select base year	2020	2025
<b>Managed forest land</b>	WEM	0,00	0,00	0,00
Forest land remaining forest land	WEM	0,00	0,00	0,00
<b>Afforested land</b>	WEM	0,00	0,00	0,00
Cropland converted to forest land	WEM	0,00	0,00	0,00
Grassland converted to forest land	WEM	0,00	0,00	0,00
Wetland converted to forest land	WEM	0,00	0,00	0,00
Settlements converted to forest land	WEM	0,00	0,00	0,00
Other land converted to forest land	WEM	0,00	0,00	0,00
<b>Deforested land</b>	WEM	0,00	0,00	0,00
Forest land converted to cropland	WEM	0,00	0,00	0,00
Forest land converted to grassland	WEM	0,00	0,00	0,00
Forest land converted to wetland	WEM	0,00	0,00	0,00
Forest land converted to settlements	WEM	0,00	0,00	0,00
Forest land converted to other land	WEM	0,00	0,00	0,00
<b>Managed cropland</b>	WEM	0,00	0,00	0,00
Cropland remaining cropland	WEM	0,00	0,00	0,00
Grassland converted to cropland	WEM	0,00	0,00	0,00
Wetland converted to cropland	WEM	0,00	0,00	0,00
Settlements converted to cropland	WEM	0,00	0,00	0,00
Other land converted to cropland	WEM	0,00	0,00	0,00
Cropland converted to wetland	WEM	0,00	0,00	0,00
Cropland converted to settlements	WEM	0,00	0,00	0,00
Cropland converted to other land	WEM	0,00	0,00	0,00
<b>Managed grassland</b>	WEM	0,00	0,00	0,00
Grassland remaining grassland	WEM	0,00	0,00	0,00
Cropland converted to grassland	WEM	0,00	0,00	0,00
Wetland converted to grassland	WEM	0,00	0,00	0,00
Settlements converted to grassland	WEM	0,00	0,00	0,00
Other land converted to grassland	WEM	0,00	0,00	0,00
Grassland converted to wetland	WEM	0,00	0,00	0,00
Grassland converted to settlement	WEM	0,00	0,00	0,00
Grassland converted to other land	WEM	0,00	0,00	0,00
<b>Managed wetland</b>	WEM	0,00	0,00	0,00
Wetland remaining wetland	WEM	0,00	0,00	0,00
Settlement converted to wetland	WEM	0,00	0,00	0,00

Other land converted to wetland	WEM	0,00	0,00	0,00
Wetland converted to settlement	WEM	0,00	0,00	0,00
Wetland converted to other land	WEM	0,00	0,00	0,00
<b>Harvested wood products</b>	WEM	0,00	0,00	0,00
Managed forest land	WEM	0,00	0,00	0,00
Afforested land	WEM	0,00	0,00	0,00



0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00	0,00					
0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00	0,00		0,00	0,00	0,00	0,00

een Total & Aggregate			
2035	2040	2045	2050
0,00	0,00	0,00	0,00

er to apply array function

is = 0

2035	2040	2045	2050
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00

0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00
0,00	0,00	0,00	0,00



## Completeness Check

This sheet provides the result of the completeness check for all scenarios. Errors occur where:

1. **Blank cell**: Mandatory cells (filled in yellow) are blank
2. **0 value**: Zero value has been entered (applies to mandatory and non-mandatory cells)

Non-mandatory cells which are blank are shown but not highlighted (**Blank cell, reporting not mandatory**).

A summary of the submission completeness by scenario is provided in cells B2:W7.

Completeness Check		
	WEM	WAM
Mandatory Blank Cells	1.312	0
Non-Mandatory Blank Cells	4.756	6.068
Zero Values	0	0
Completed Cells	0	0

Check number of cells = 6,068

TRUE

TRUE

Potential errors are highlighted in pink in columns C: ET

Check completeness. Blank cell a

Greenhouse gas source and sink categories	Scenario (WEM, WAM, WOM)	CO2 (ktCO2e)	CO2 (ktCO2e)	CO2 (ktCO2e)
	Select base year	2020	2025	
<b>Managed forest land</b>	WEM	Blank cell	Blank cell	Blank cell
Forest land remaining forest land	WEM	Blank cell	Blank cell	Blank cell
<b>Afforested land</b>	WEM	Blank cell	Blank cell	Blank cell
Cropland converted to forest land	WEM	Blank cell	Blank cell	Blank cell
Grassland converted to forest land	WEM	Blank cell	Blank cell	Blank cell
Wetland converted to forest land	WEM	Blank cell	Blank cell	Blank cell
Settlements converted to forest land	WEM	Blank cell	Blank cell	Blank cell
Other land converted to forest land	WEM	Blank cell	Blank cell	Blank cell
<b>Deforested land</b>	WEM	Blank cell	Blank cell	Blank cell
Forest land converted to cropland	WEM	Blank cell	Blank cell	Blank cell
Forest land converted to grassland	WEM	Blank cell	Blank cell	Blank cell
Forest land converted to wetland	WEM	Blank cell	Blank cell	Blank cell
Forest land converted to settlements	WEM	Blank cell	Blank cell	Blank cell
Forest land converted to other land	WEM	Blank cell	Blank cell	Blank cell
<b>Managed cropland</b>	WEM	Blank cell	Blank cell	Blank cell
Cropland remaining cropland	WEM	Blank cell	Blank cell	Blank cell
Grassland converted to cropland	WEM	Blank cell	Blank cell	Blank cell
Wetland converted to cropland	WEM	Blank cell	Blank cell	Blank cell
Settlements converted to cropland	WEM	Blank cell	Blank cell	Blank cell
Other land converted to cropland	WEM	Blank cell	Blank cell	Blank cell
Cropland converted to wetland	WEM	Blank cell	Blank cell	Blank cell
Cropland converted to settlements	WEM	Blank cell	Blank cell	Blank cell
Cropland converted to other land	WEM	Blank cell	Blank cell	Blank cell
<b>Managed grassland</b>	WEM	Blank cell	Blank cell	Blank cell
Grassland remaining grassland	WEM	Blank cell	Blank cell	Blank cell
Cropland converted to grassland	WEM	Blank cell	Blank cell	Blank cell
Wetland converted to grassland	WEM	Blank cell	Blank cell	Blank cell
Settlements converted to grassland	WEM	Blank cell	Blank cell	Blank cell
Other land converted to grassland	WEM	Blank cell	Blank cell	Blank cell
Grassland converted to wetland	WEM	Blank cell	Blank cell	Blank cell
Grassland converted to settlement	WEM	Blank cell	Blank cell	Blank cell
Grassland converted to other land	WEM	Blank cell	Blank cell	Blank cell

<b>Managed wetland</b>	WEM	Blank cell	Blank cell	Blank cell
Wetland remaining wetland	WEM	Blank cell	Blank cell	Blank cell
Settlement converted to wetland	WEM	Blank cell	Blank cell	Blank cell
Other land converted to wetland	WEM	Blank cell	Blank cell	Blank cell
Wetland converted to settlement	WEM	Blank cell	Blank cell	Blank cell
Wetland converted to other land	WEM	Blank cell	Blank cell	Blank cell
<b>Harvested wood products</b>	WEM	Blank cell	Blank cell	Blank cell
Managed forest land	WEM	Blank cell	Blank cell	Blank cell
Afforested land	WEM	Blank cell	Blank cell	Blank cell
<b>Managed forest land</b>	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Forest land remaining forest land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
<b>Afforested land</b>	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Cropland converted to forest land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Grassland converted to forest land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Wetland converted to forest land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Settlements converted to forest land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Other land converted to forest land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
<b>Deforested land</b>	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Forest land converted to cropland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Forest land converted to grassland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Forest land converted to wetland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Forest land converted to settlements	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Forest land converted to other land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
<b>Managed cropland</b>	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Cropland remaining cropland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Grassland converted to cropland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Wetland converted to cropland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Settlements converted to cropland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Other land converted to cropland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Cropland converted to wetland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Cropland converted to settlements	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Cropland converted to other land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
<b>Managed grassland</b>	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Grassland remaining grassland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Cropland converted to grassland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Wetland converted to grassland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Settlements converted to grassland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Other land converted to grassland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Grassland converted to wetland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Grassland converted to settlement	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Grassland converted to other land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
<b>Managed wetland</b>	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Wetland remaining wetland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Settlement converted to wetland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Other land converted to wetland	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Wetland converted to settlement	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Wetland converted to other land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
<b>Harvested wood products</b>	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep
Managed forest land	WAM	Blank cell, rep	Blank cell, rep	Blank cell, rep

Afforested land	WAM	Blank cell, repo	Blank cell, repo	Blank cell, repo
<b>Managed forest land</b>	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Forest land remaining forest land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
<b>Afforested land</b>	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Cropland converted to forest land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Grassland converted to forest land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Wetland converted to forest land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Settlements converted to forest land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Other land converted to forest land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
<b>Deforested land</b>	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Forest land converted to cropland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Forest land converted to grassland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Forest land converted to wetland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Forest land converted to settlements	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Forest land converted to other land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
<b>Managed cropland</b>	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Cropland remaining cropland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Grassland converted to cropland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Wetland converted to cropland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Settlements converted to cropland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Other land converted to cropland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Cropland converted to wetland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Cropland converted to settlements	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Cropland converted to other land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
<b>Managed grassland</b>	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Grassland remaining grassland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Cropland converted to grassland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Wetland converted to grassland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Settlements converted to grassland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Other land converted to grassland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Grassland converted to wetland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Grassland converted to settlement	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Grassland converted to other land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
<b>Managed wetland</b>	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Wetland remaining wetland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Settlement converted to wetland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Other land converted to wetland	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Wetland converted to settlement	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Wetland converted to other land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
<b>Harvested wood products</b>	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Managed forest land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo
Afforested land	WOM	Blank cell, repo	Blank cell, repo	Blank cell, repo





[illegible]

[illegible]





**d mandatory cells should not be left blank.**

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]





[illegible]



[illegible]





**Annex XXV - Table 5b:** Projections of accounted emissions and removals from the land use, land-use change, and forestry sector in accordance with Regulation (EU) 2018/841 and the effort sharing sector in accordance with Regulation (EU) 2018/842 <sup>(1)(2)</sup>

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

Category	Scenario (WEM, WAM, WOM)	Total cumulative emissions and removals (GtCO <sub>2</sub> e)
		2021-2025
Effort Sharing Sectors <sup>(3)</sup>	WEM	
LULUCF: Afforested land	WEM	
LULUCF: Deforested land	WEM	
LULUCF: Managed cropland	WEM	
LULUCF: Managed grassland	WEM	
LULUCF: Managed forest land, including harvested wood products <sup>(4)</sup>	WEM	
LULUCF Managed forest land, including harvested wood products assuming instantaneous oxidation	WEM	
LULUCF: Managed wetland <sup>(5)</sup>	WEM	
		2021-2025
Effort Sharing Sectors <sup>(3)</sup>	WAM	
LULUCF: Afforested land	WAM	
LULUCF: Deforested land	WAM	
LULUCF: Managed cropland	WAM	
LULUCF: Managed grassland	WAM	
LULUCF: Managed forest land, including harvested wood products <sup>(4)</sup>	WAM	
LULUCF Managed forest land, including harvested wood products assuming instantaneous oxidation	WAM	
LULUCF: Managed wetland <sup>(5)</sup>	WAM	
		2021-2025
Effort Sharing Sectors <sup>(3)</sup>	WOM	
LULUCF: Afforested land	WOM	
LULUCF: Deforested land	WOM	
LULUCF: Managed cropland	WOM	
LULUCF: Managed grassland	WOM	
LULUCF: Managed forest land, including harvested wood products <sup>(4)</sup>	WOM	
LULUCF Managed forest land, including harvested wood products assuming instantaneous oxidation	WOM	
LULUCF: Managed wetland <sup>(5)</sup>	WOM	

**Notes:**

(1) The accounting categories for LULUCF are defined in Regulation (EU) 2018/841.

(2) Accounted LULUCF emissions for Managed Forest Land are reported emissions/removals in comparison to Article 8 of Regulation (EU) 2018/841. Reporting such accounted values is only mandatory when applying to Forest reforestation pursuant to Article 8(8) and 8(9) of Regulation (EU) 2018/841, for the given time-span (2021-2025, 2026-2030).

(3) Emissions within the scope of Regulation (EU) 2018/842.

(4) Accounting of this category for the 2026-2030 commitment period will be possible only with availability of final Forest Management Plans.

(5) Accounting of this category is mandatory starting from 2026, notwithstanding any potential postponement under States not intending to select this category for accounting in the 2021-2025 period shall use the notation key “not sel

the LULUCF sector in  
in line with Regulation (EU)

ns/removals (kt CO2-eq)
2026-2030
2026-2030
2026-2030

a reference level, computed in accordance with  
reference levels as set out in the delegated act adopted

Forest Reference Levels.



the Article 2(4) of Regulation (EU) 2018/841. Member  
ected” for that period.



