COMPLIANCE WITH REPORTING OBLIGATIONS

Note by the secretariat

This document contains information referred to in the twenty-fourth report of the Implementation Committee (ECE/EB.AIR/2021/3). This information provided the basis for the Committee's evaluation of compliance by Parties with their obligation to report emission data.

The document presents the status of emission data reporting as of 8 September 2021 and contains eight tables reflecting reporting under the seven Protocols in force: the 1985 Sulphur Protocol, the Protocol on Nitrogen Oxides (Protocol on NO_x), the Protocol on Volatile Organic Compounds (Protocol on VOCs), the 1994 Protocol on Sulphur, the Protocol on Heavy Metals, the Protocol on Persistent Organic Pollutants (Protocol on POPs) and the Protocol to Abate Acidification, Eutrophication and Ground-level Ozone (Gothenburg Protocol). The tables were prepared based on the information provided by the EMEP Centre on Emission Inventories and Projections (CEIP).

The "X's" in the tables correspond to submission of emission data by each Party to CEIP with respective notification sent to the secretariat. In addition to reporting of national totals, several tables indicate submission of gridded data for pollutants as required by respective Protocol. Table 7.1 also presents data on projections reporting under the Gothenburg Protocol for the years 2020, 2025 and 2030. National total emission data is presented on the basis of 'fuel sold' and 'fuel used' for the six Parties to the Gothenburg Protocol¹ that may choose the 'fuel used' option for compliance purposes.

¹ These six countries are: Belgium, Lithuania, Luxembourg, the Netherlands, Switzerland and the United Kingdom of Great Britain and Northern Ireland.

STATUS OF EMISSION DATA REPORTED BY PARTIES TO THE PROTOCOLS

PartyBase year 1980201820191AlbaniaXXX2AustriaXXX3BelarusXXX4BelgiumXXX5BulgariaXXX6CanadaXXX7CzechiaXXX8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX20NorwaiN0%100%100%		1 5		I	
Image: 19801AlbaniaXXX2AustriaXXX3BelarusXXX4BelgiumXXX5BulgariaXXX6CanadaXXX7CzechiaXXX8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX25UkraineXXX		Party	Base year	2018	2010
2AustriaXXX3BelarusXXX4BelgiumXXX5BulgariaXXX6CanadaXXX7CzechiaXXX8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LicchtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX		Tarty	1980	2010	2017
3BelarusXXX4BelgiumXXX5BulgariaXXX6CanadaXXX7CzechiaXXX8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX	1	Albania			
4BelgiumXXX5BulgariaXXX6CanadaXXX7CzechiaXXX8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	2	Austria			
5BulgariaXXX6CanadaXXX7CzechiaXXX8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	3	Belarus	Х	Х	
6CanadaXXX7CzechiaXXX8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX24North MacedoniaXXX25UkraineXXX	4			Х	Х
7CzechiaXXX8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX24North MacedoniaXXX25UkraineXXX	5	Bulgaria			Х
8DenmarkXXX9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	6	Canada	X	X	
9EstoniaXXX10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	7				Х
10FinlandXXX11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	8				
11FranceXXX12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	9	Estonia	X	X	Х
12GermanyXXX13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	10	Finland			
13HungaryXXX14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	11	France			Х
14ItalyXXX15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	12	Germany			
15LiechtensteinXXX16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	13	Hungary	X		Х
16LithuaniaXXX17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	14		X	X	
17LuxembourgXXX18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	15	Liechtenstein	X	X	Х
18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	16			Х	
18NetherlandsXXX19NorwayXXX20Russian FederationXXX21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	17	Luxembourg	X		Х
20Russian FederationXXX21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	18				Х
21SlovakiaXXX22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	19		X		Х
22SwedenXXX23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX	20	Russian Federation	X	X	Х
23SwitzerlandXXX24North MacedoniaXXX25UkraineXXX		Slovakia			
24North MacedoniaXX25UkraineXX	22	Sweden	X	X	Х
25 Ukraine X X X		Switzerland			
	24	North Macedonia		X	
Total* 100% 100% 100%	25	Ukraine	X	X	X
		Total*	100%	100%	100%

Table 1:Emissions reported by Parties to the 1985 Protocol on Sulphur

X Data received

- No data received

 $n/a\;$ - Reporting obligation not applicable

*In the total only the provision of data indicated as "X" is counted.

The absence of data indicated with "-" and the provision of notation keys are counted as "not reported".

		Base year		
		1987	2010	2010
	Party	(for US only -	2018	2019
		1978)		
1	Albania	X	Х	Х
2	Austria	Х	Х	Х
3	Belarus	Х	Х	Х
4	Belgium	Х	Х	Х
5	Bulgaria	Х	Х	Х
6	Canada*	Х	Х	Х
7	Croatia	Х	Х	Х
8	Cyprus	Х	Х	Х
9	Czechia	Х	Х	Х
10	Denmark	Х	Х	Х
11	Estonia	Х	Х	Х
12	Finland	Х	Х	Х
13	France	Х	Х	Х
14	Germany	Х	Х	Х
15	Greece	Х	Х	Х
16	Hungary	Х	Х	Х
17	Ireland	Х	Х	Х
18	Italy	Х	Х	Х
19	Liechtenstein	Х	Х	Х
20	Lithuania	Х	Х	Х
21	Luxembourg	Х	Х	Х
22	Netherlands	Х	Х	Х
23	Norway	Х	Х	Х
24	Poland	Х	Х	Х
25	Russian Federation	Х	Х	Х
26	Slovakia	Х	Х	Х
27	Slovenia	Х	Х	Х
28	Spain	Х	Х	Х
29	Sweden	Х	Х	Х
30	Switzerland	Х	Х	Х
31	North Macedonia	Х	Х	Х
32	Ukraine	Х	Х	Х
33	United Kingdom	Х	Х	Х
34	United States*	Х	Х	Х
35	EU-28	Х	Х	Х
	Total**	100%	100%	100%

Table 2:Emissions reported by Parties to the Protocol on Nitrogen Oxides

X Data received

- No data received

*Party outside the geographic scope of

EMEP

**In the total only the provision of data indicated as "X" is counted.

The absence of data indicated with "-" and the provision of notation keys are counted as "not reported".

Table 3:
Emissions reported by Parties to the Protocol on VOCs

	Party (base year)		Gridded da	ata		
		2019	2005	2010	2015	2019
1	Austria	Х	х	х	х	х
2	Belgium	Х	х	х	х	х
3	Bulgaria	х	х	х	х	х
4	Croatia	Х	х	х	х	х
5	Czechia	х	х	х	Х	х
6	Denmark	х	х	х	х	х
7	Estonia	х	х	х	Х	х
8	Finland	х	х	х	х	х
9	France	х	х	х	х	х
10	Germany	х	х	х	х	х
11	Hungary	х	х	х	Х	х
12	Italy	х	Х	х	Х	х
13	Liechtenstein	х	n/a	n/a	-	-
14	Lithuania	х	х	х	х	х
15	Luxembourg	х	х	х	х	х
16	Monaco	х	n/a	n/a	х	Х
17	Netherlands	Х	х	х	х	х
18	Norway	х	х	х	х	х
	Norway (TOMA)	х				
19	Slovakia	х	х	х	х	Х
20	Spain	х	х	Х	Х	х
21	Sweden	х	х	Х	Х	х
22	Switzerland	Х	х	Х	Х	Х
23	North Macedonia	х	n/a	n/a	х	х
24	United Kingdom	х	x	Х	Х	Х
	Total	100%	100%	100%	96%	96%

Annual data:

X Data received

- No data received (or blank cells in the reporting

table)

n/a - Reporting obligation not applicable

Grey filling indicates that the entry was

manual

The absence of data indicated with "-" and the provision of notation keys are counted as "not reported". TOMA - Tropospheric Ozone Management Area. Norway has obligations to report for the entiry territory and for its TOMA under the VOC Protocol. The total Norwegian mainland as well as the exclusive economic zone south of 62°N latitude in the region of the Economic Commission for Europe (ECE), covering an area of 466,000 km2.

	Party			Gridde	d data	
		2019	2005	2010	2015	2019
1	Austria	х	Х	Х	Х	Х
2	Belgium	X	Х	Х	Х	Х
3	Bulgaria	х	Х	Х	Х	Х
4	Canada*	х				
5	Croatia	х	Х	Х	х	Х
6	Cyprus	х	х	Х	х	х
7	Czechia	х	Х	Х	Х	Х
8	Denmark	х	х	Х	х	х
9	Finland	Х	Х	Х	Х	Х
10	France	Х	Х	Х	Х	Х
11	Germany	х	Х	Х	Х	Х
12	Greece	х	Х	Х	Х	Х
13	Hungary	X	Х	Х	Х	Х
14	Ireland	X	Х	Х	Х	Х
15	Italy	х	Х	Х	Х	Х
16	Liechtenstein	х	n/a	n/a	-	-
17	Lithuania	х	Х	Х	Х	Х
18	Luxembourg	х	Х	Х	Х	Х
19	Monaco	х	n/a	n/a	Х	Х
20	Netherlands	х	Х	Х	Х	Х
21	Norway	х	Х	Х	Х	Х
22	Slovakia	х	Х	Х	Х	Х
23	Slovenia	х	Х	Х	Х	Х
24	Spain	Х	Х	Х	Х	Х
25	Sweden	х	Х	Х	Х	Х
26	Switzerland	X	Х	Х	х	Х
27	North Macedonia	х	n/a	n/a	х	х
28	United Kingdom	х	х	х	х	х
29	EU-28	х	х	Х	х	х
	EU-12	х				
	Total	100%	100%	100%	96%	96%

Table 4:Emissions reported by Parties to the 1994 Protocol on Sulphur

X	Data received
_	No data received
n/a	Reporting obligation not applicable
*	Party outside the geographic scope of EMEP
The abs	ence of data indicated with "-" and the provision of notation keys are counted as "not reported".
EU-12 ł	has not been considered as part of the Total

-3	10 10 10				2 Sj	2	10.1 MS 16	223	84	G	iridded	data	154	29	255.636	2.50	4
	Party (base year)	Base Year	2019	2019	2019		PCD	D/Fs			PA	ls			HC	B	
			Diox	PAH	HCB	2005	2010	2015	2019	2005	2010	2015	2019	2005	2010	2015	2019
1	Austria	1987	х	×	х	х	х	х	×	х	×	×	х	х	×	х	х
	Belgium	1990	х	8	8	×	х	х	×	×	×	×	х	×	×	х	×
3	Bulgaria	1990	х	8	×	8	×	х	8	8	×	×	х	8	×	×	×
4	Canada"	1990	8	8	×		_										
5	Croatia	1990	х	х	х	8	8	х	×	8	×	×	Х	8	8	х	8
6	Cyprus	1990	×	8	×	×	×	х	×	×	×	×	х	×	8	×	×
7	Czechia	1990	х	×	×	х	×	х	×	х	×	×	х	х	×	х	×
	Denmark	1990	х	×	х	х	х	ж	×	х	×	×	х	х	×	х	х
9	Estonia	PAH - 1995; Diox - 1990; HCB - 1995	х	8	х	х	х	х	×	×	×	х	х	×	×	х	х
10	Finland	1994	х	×	х	х	×	ж	×	х	×	×	×	х	×	×	×
11	France	1990	х	×	×	х	×	х	×	×	×	×	ж	х	×	×	×
12	Germany	1990	х	×	×	×	х	8	х	×	×	х	8	×	×	8	×
13	Hungary	1990	х	×	×	х	х	ж	х	х	×	х	ж	х	×	х	х
14	Iceland	1990	8	×	х	×	х	8	х	×	×	х	8	×	×	8	х
15	Italy	1990	х	×	8	х	х	ж	8	X	X	X×	ж	NE	×	х	х
	Latvia	1990	8	8	8	8	8	8	8	8	×	8	Х	8	8	×	×
17		1990	8	8	8	nla	n/a		-	nla	nla	-	-	nla	nla	-	-
	Liechtenstein	1990	~ ×	8	8	8	8	8	8	8	8	×	8	8	8	8	×
iğ	Luxembourg	1990	~ ×	8	8	×	8	8	8	×	~ X	8	~ ×	×	8	×	×
ž	Montenegro	1990	×	8	<u>л</u> Х	n/a	n/a	-	-	n/a	nla	-	-	n/a	nla	-	-
21	Netherlands	1990	8	8	8	8	8	8	×	8	8	×	×	8	8	8	8
22	Norway	1990	8	8	8	8	8	8	8	8	8	8	8	8	8	8	×
23	Moldova, Republic of	1990	8	8	8	- S	-			- 0						-	
24	Romania	1989	8	8	8	8	8	8	-	8	8	8		8	8	8	
5	Serbia	1990	8	8	8	nla	nla	-		n/a	nla	-	-	nla	nla	-	- /
	Slovakia	1990	8	8	8	8	8	8	×	8	8	×	8	×	8	8	8
27	Slovenia	1990	8	8	8	8	8	8	8	8	 ×	8		8	8	8	8
28	Spain	1990	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
29	Sweden	1990	х	×	×	х	х	х	×	х	×	х	ж	х	×	х	х
	Switzerland	1990	8	х	×	х	х	8	8	х	х	×	х	х	×	8	ж
31		1990	8	8	8	nla	nła	×	8	n/a	n/a	х	×	nla	n/a	ж	х
32	United Kingdom	1990	8	8	8	8	8	8	8	8	×	8	8	8	×	8	×
33	EU-28	1990	8	8	8	8	8	х	8	8	×	8	8	8	8	х	ж
	Total		100%	100%	100%	97%	97%	88%	84%	97%	97%	88%	84%	94%	97%	88%	84%
8					- 84. 	8			1	3			87.	2011			1 8
	Data received																
	No data received																-
5	Reporting obligation not appl	licable										-		1			

Table 6:Emissions reported by Parties to the Protocol on Heavy Metals

				Griddeo	d data	
	Party (Base year)					
		2019	2005	2010	2015	2019
1	Austria (1985)	Х	х	Х	Х	х
2	Belgium (1990)	Х	Х	Х	х	х
3	Bulgaria (1990)	Х	х	Х	Х	х
4	Canada* (1990)	Х				
5	Croatia (1990)	Х	х	Х	Х	х
6	Cyprus (1990)	Х	х	Х	Х	х
7	Czechia (1990)	Х	х	Х	х	х
8	Denmark (1990)	Х	х	Х	х	х
9	Estonia (1990)	Х	х	Х	х	х
10	Finland (1990)	Х	х	Х	х	х
11	France (1990)	х	х	х	х	х
12	Germany (1990)	Х	х	х	х	х
13	Hungary (1990)	х	х	х	х	х
14	Latvia (1990)	Х	Х	Х	х	х
15	Liechtenstein (1990)	Х	n/a	n/a	-	-
16	Lithuania (1990)	Х	Х	Х	Х	х
17	Luxembourg (1990)	Х	х	Х	Х	х
18	Monaco (1992)	Х	n/a	n/a	х	х
19	Montenegro (1990)	Х	n/a	n/a	-	-
20	Netherlands (1990)	Х	х	Х	х	х
21	Norway (1990)	Х	х	Х	х	х
22	Portugal (1990)	Х	х	Х	х	х
23	Republic of Moldova (1990)	х	-	-	-	-
24	Romania (1989)	Х	х	Х	х	-
25	Serbia (1990)	Х	n/a	n/a	-	-
26	Slovakia (1990)	Х	х	Х	х	х
27	Slovenia (1990)	Х	х	х	х	x
28	Spain (1990)	Х	х	х	х	x
29	Sweden (1990)	х	Х	х	х	х
30	Switzerland (1990)	Х	х	Х	х	х
31	North Macedonia (1990)	Х	n/a	Х	х	х
32	United Kingdom (1990)	Х	х	Х	х	х
33	United States* (1990)	n/a				
34	EU-28 (1990)	Х	х	х	х	Х
<u> </u>	Total	100%	97%	97%	88%	84%

x Data received

No data received (or blank cells in the reporting table)

n/a Reporting obligation not applicable

NE "Not Estimated" (notation key from the Guidelines for reporting emissions and projections data used by Party)

* Party outside the geographic scope of EMEP

Grey filling indicates that the entry was manual

Table 7.1:

		Sox															
6		0					Projec	ctions*			Proje	ctions*			Proje	ctions*	
	Party	2019	2019	2019	2019		20	020			20	025			20	030	
		SO2	NOX	VOCs	NH3	SO2	NOx	VOCs	NH3	SO2	NOx	VOCs	NH3	\$02	NOx	VOCs	NH3
1	Belgium (fuel sold)	X	X	X	X	X	X	X	X	X	Х	X	Х	X	X	X	Х
	Belgium (fuel used)	x	х	x	х	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2	Bulgaria	X	X	X	X	X	X	X	Х	X	X	Х	Х	X	X	X	Х
3	Canada	X	х	X	X	Х	X	Х	Х	X	Х	Х	Х	X	X	X	Х
4	Croatia	x	x	x	x	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
5	Cyprus	X	х	X	x	Х	X	Х	Х	X	X	Х	Х	Х	Х	X	Х
6	Czechia	x	X	x	x	Х	X	X	Х	X	X	X	Х	X	X	X	Х
7	Denmark	X	х	X	X	X	X	X	X	X	X	X	Х	X	X	Х	X
8	Finland	X	X	X	X	Х	X	X	Х	X	X	X	Х	X	X	Х	Х
9	France	X	X	x	X	X	X	X	Х	X	Х	X	X	X	X	X	Х
10	Germany	X	х	х	х	X	X	X	Х	X	X	X	Х	X	X	X	Х
11	Hungary	X	x	x	x	X	X	X	Х	X	X	X	Х	X	X	X	X
12	Latvia	X	x	х	х	Х	X	X	Х	X	Х	X	Х	X	Х	X	Х
13	Lithuania (fuel sold)	X	x	х	х	Х	X	X	Х	X	X	X	Х	X	X	Х	Х
	Lithuania (fuel used)					n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14	Luxembourg (fuel sold)	х	х	х	х	Х	X	Х	Х	X	X	Х	Х	X	Х	X	Х
	Luxembourg (fuel used)	x	x	x	x	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15	Netherlands (fuel sold)	х	х	х	х	X	X	X	Х	X	X	X	Х	X	X	X	Х
	Netherlands (fuel used)	x	x	x	x	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
16	Norway	X	x	x	X	Х	X	X	Х	X	Х	X	Х	X	Х	X	Х
17	Portugal	X	X	x	x	Х	X	X	Х	X	X	X	Х	X	X	X	Х
18	Romania	x	x	x	х	Х	X	Х	Х	X	Х	Х	Х	Х	Х	Х	Х
19	Slovakia	x	x	x	x	Х	X	X	X	X	Х	X	X	X	X	X	Х
20	Slovenia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	Spain (EMEP territory)	x	X	x	x	Х	X	X	X	X	Х	X	Х	X	X	X	X
22	Sweden	X	X	x	x	X	X	X	X	X	X	X	X	X	X	X	X
23	Switzerland (fuel sold)	x	X	x	x	X	X	X	X	X	X	X	X	X	X	X	X
	Switzerland (fuel used)	X	X	X	x	X	X	X	X	n/a	n/a	n/a	n/a	X	X	X	X
24	North Macedonia	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
25	United Kingdom (fuel sold)	X	X	X	X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20	United Kingdom (fuel used)	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	United States	x	X	X	X	X	X	X	X	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	United States (PEMA)**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	EU-28	x	X	X	x	X	X	X	X	X	X	X	X	X	X	X	X
27	EU-15	X	X	x	x	-	-	-	-	-	-	-	-	-	-	-	-
	Total	97%	100%	100%	100%	100%	100%	100%	96%	96%	96%	96%	96%	96%	96%	96%	96%

Emissions reported by Parties to the Gothenburg Protocol: annual data and projections

×	Data received	
ā.,	No data received (or blank cells in the reporting table)	
n/a	Reporting obligation not applicable	
•	The value reported under projections is the national total value for the entire territory, which is based on fuel sold. Only the United Kingdom report the projected value based on fuel used.	
	Parties to the Gothenburg Protocol within the geographical scope of EMEP shall regularly update their projections and report every four years from 2015 onward their updated projections, for the years 2020, 2025 and 2030.	T
	Party outside the geographic scope of EMEP	
•••	Obligations for EU28 are included under the revised GP.	-
	EU-15 has not been considered as part of the Total.	1
According to the	guidelines there are 8 countries that can report emissions on the basis of fuel used for compliance purposes under the GP;	1
6 of these are Pa	rties to the Protocol and are indicated in blue above; the non-submission of "fuel used" data does not indicate a case of non-reporting	1
]
The US has oblig	ations under the GP for PEMA's instead of the entire territory; see below for the difference in PEMA's per pollutant	
The US has oblig SOx	ations under the LeY for PENA's instead of the entire territory, see below for the difference in PENA's per pollutant 48 contiguous United States and District of Columbia (indicative ceiling)	I

10121 million 1								Gridde	ed data							
Party		VOCs				Sulphur	5			NOx				NH ₃		
	2005	2010	2015	2019	2005	2010	2015	2019	2005	2010	2015	2019	2005	2010	2015	2019
elgium (fuel sold)	Х	Х	X	Х	Х	Х	х	X	Х	X	X	Х	X	X	X	X
elgium (fuel used)																
ulgaria	х	Х	Х	Х	Х	Х	х	X	х	X	Х	Х	X	Х	Х	X
anada						- A								14		· · · · · · · · · · · · · · · · · · ·
roatia	Х	Х	X	Х	Х	Х	х	X	Х	X	X	Х	X	X	X	Х
yprus	Х	Х	X	Х	Х	Х	X	X	Х	X	X	Х	X	Х	X	Х
zech Republic	х	Х	X	Х	Х	Х	х	Х	Х	X	X	Х	X	Х	X	Х
enmark	х	Х	X	Х	X	Х	X	Х	х	Х	X	Х	X	Х	X	Х
inland	х	X	х	Х	Х	Х	х	X	х	X	х	Х	х	Х	X	Х
rance	х	X	x	Х	Х	х	x	X	х	Х	x	Х	X	Х	X	Х
ermany	х	Х	х	Х	X	Х	х	X	х	Х	х	Х	х	Х	х	Х
lungary	х	X	х	Х	X	Х	х	X	х	X	х	Х	X	X	х	Х
atvia	х	X	х	Х	Х	Х	х	Х	х	Х	х	Х	Х	Х	х	Х
ithuania (fuel sold)	х	X	X	X	Х	Х	х	X	х	X	x	X	X	X	х	X
thuania (fuel used)						16								15		25
uxembourg (fuel sold)	х	Х	Х	Х	х	Х	х	X	х	X	X	Х	X	X	Х	Х
uxembourg (fuel used)																
letherlands (fuel sold)	х	Х	Х	X	х	х	х	X	х	X	х	X	Х	Х	Х	X
letherlands (fuel used)																
lorway	х	Х	Х	Х	Х	Х	х	X	Х	X	X	Х	X	Х	Х	Х
ortugal	х	X	X	Х	Х	Х	х	Х	X	X	х	Х	X	Х	X	Х
omania	х	х	Х	-	Х	х	х	-	X ^x	Х	Xx	-	χ×	Х	Xx	-
lovakia	х	X	X	х	X	X	х	X	х	X	x	х	X	X	X	Х
lovenia	х	X	X	X	X	X	x	X	х	X	x	X	X	X	X	Х
pain (EMEP territory)	х	х	X	X	Х	х	x	X	X	X	x	X	X	X	X	X
weden	х	X	X	X	х	Х	x	X	х	X	x	X	X	X	X	X
witzerland (fuel sold)	х	Х	X	Х	х	Х	х	X	x	X	x	Х	x	X	X	Х
witzerland (fuel used)										19 19 19 19 19 19 19 19 19 19 19 19 19 1						
lorth Macedonia	n/a	n/a	Х	X	n/a	n/a	х	X	n/a	n/a	х	Х	n/a	n/a	Х	X
nited Kingdom (fuel sold)	х	X	X	X	Х	Х	х	X	х	X	x	X	X	X	X	X
nited Kingdom (fuel used)		2		2		2		2		2		S		92.		92
nited States														3		
nited States (PEMA)**														15		15
U-28***	х	Х	Х	Х	Х	Х	х	Х	х	Х	Х	Х	Х	Х	Х	X
J-15																
e ben viet	96%	96%	96%	92%	96%	96%	96%	92%	96%	96%	96%	92%	96%	96%	96%	92%

Table 7.2:Gridded data reported by Parties to the Gothenburg Protocol