Forty-second session of the Executive Body, 12-16 December 2022 Provisional agenda item 4(c) "Review of the implementation of the 2022-2023 workplan: Compliance" Informal document no.3

COMPLIANCE WITH REPORTING OBLIGATIONS

Note by the secretariat

This document contains information referred to in the twenty-fifth report of the Implementation Committee (ECE/EB.AIR/2022/2). 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 27 July 2022 and contains nine 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). Reporting by Parties to the amended Gothenburg Protocol on PM2.5 emissions is included in Table 8. 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 the 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 three of the Parties to the Gothenburg Protocol¹ that may choose and have chosen the 'fuel used' option for compliance purposes.

¹ These three countries are Belgium, Switzerland and the United Kingdom of Great Britain and Northern Ireland. Further countries entitled to this option are Austria, Ireland, Lithuania, Luxembourg and the Netherlands.

STATUS OF EMISSION DATA REPORTED BY PARTIES TO THE PROTOCOLS

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

	Doute	Base year	2010	2020
	Party	1980	2019	2020
1	Albania	X	X	X
2	Austria	X	X X	X
3	Belarus	X	X	X
4	Belgium	X	X	X
5	Bulgaria	X	X	X
6	Canada	X	X	X
7	Czechia	X	X	X
8	Denmark	X	X	X
9	Estonia	X	X	X
10	Finland	X	X	X
11	France	X	X	X
12	Germany	X	X	X
13	Hungary	X	X	X
14	Italy	X	X	X
15	Liechtenstein	X	X	X
16	Lithuania	X	X	X
17	Luxembourg	X	X	X
18	Netherlands	X	X	X
19	Norway	X	X	X
20	Russian Federation	X	X	X
21	Slovakia	X	X	X
22	Sweden	X	X	X
23	Switzerland	X	X	X
24	North Macedonia	X	X	X
25	Ukraine	X	X	X
	Total*	100%	100%	100%

X Data received

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

⁻ No data received

n/a Reporting obligation not applicable

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

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

		Base year		
	Party	1987	2019	2020
	raity	(for US only -	2019	2020
		1978)		
1	Albania	X	X	X
2	Austria	X	X	X
3	Belarus	X	X	X
4	Belgium	X	X	X
5	Bulgaria	X	X	X
6	Canada*	X	X	X
7	Croatia	X	X	X
8	Cyprus	X	X	X
9	Czechia	X	X	X
10	Denmark	X	X	X
11	Estonia	X	X	X X
12	Finland	X	X	X
13	France	X	X	X
14	Germany	X	X	X
15	Greece	X	X	X
16	Hungary	X	X	X
17	Ireland	X	X	X
18	Italy	X	X	X
19	Liechtenstein	X	X	X
20	Lithuania	X	X	X
21	Luxembourg	X	X	X
22	Netherlands	X	X	X
23	Norway	X	X	X
24	Poland	X	X	X
25	Russian Federation	X	X	X
26	Slovakia	X	X	X
27	Slovenia	X	X	X
28	Spain	X	X	X
29	Sweden	X	X	X
30	Switzerland	X	X	X
31	North Macedonia	X	X	X
32	Ukraine	X	X	X
33	United Kingdom	X	X	X
34	United States*	X	X	X
35	EU-27	X	X	X
	Total**	100%	100%	100%

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".

Grey filling indicates that the entry was manual.

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

	Party (base year)		Gridded da	ata		
		2020	2005	2010	2015	2019
1	Austria	Х	х	Х	х	Х
2	Belgium	Х	X	X	x	Х
3	Bulgaria	Х	X	X	x	Х
4	Croatia	Х	Х	х	X	Х
5	Czechia	Х	X	X	x	Х
6	Denmark	Х	Х	х	х	Х
7	Estonia	Х	х	Х	х	Х
8	Finland	Х	X	X	x	Х
9	France	Х	х	X	x	Х
10	Germany	Х	Х	Х	Х	Х
11	Hungary	Х	х	X	x	Х
12	Italy	Х	Х	Х	Х	х
13	Liechtenstein	Х	n/a	n/a	-	1
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	X	Χ	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%

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 entire territory and for its TOMA under the VOC Protocol. The total Norwegian mainland as well as the exclusive economic zone south of $62^{\circ}N$ latitude in the region of the Economic Commission for Europe (ECE), covering an area of 466,000 km2.

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

	Party		Gridded data							
		2020	2005	2010	2015	2019				
1	Austria	X	X	X	X	X				
2	Belgium	X	X	X	X	X				
3	Bulgaria	X	X	X	X	X				
4	Canada*	X								
5	Croatia	X	X	X	X	X				
6	Cyprus	X	X	X	X	X				
7	Czechia	X	X	X	X	X				
8	Denmark	X	X	X	X	X				
9	Finland	X	X	X	X	Х				
10	France	X	X	X	X	X				
11	Germany	X	X	X	X	Х				
12	Greece	X	X	X	X	X				
13	Hungary	X	X	X	X	Х				
14	Ireland	X	X	X	X	X				
15	Italy	X	X	X	X	Х				
16	Liechtenstein	X	n/a	n/a	-	-				
17	Lithuania	X	X	X	X	X				
18	Luxembourg	X	X	X	X	Х				
19	Monaco	Х	n/a	n/a	X	Х				
20	Netherlands	X	X	X	X	Х				
21	Norway	X	X	X	X	X				
22	Slovakia	X	X	X	X	X				
23	Slovenia	X	X	X	X	X				
24	Spain	X	X	X	Х	Х				
25	Sweden	X	X	X	X	X				
26	Switzerland	X	X	Х	х	Х				
27	North Macedonia	X	n/a	n/a	X	Х				
28	United Kingdom	X	X	X	X	X				
29	EU-27	X	X	X	Х	X				
-	EU-11	X								
	Total	100%	100%	100%	96%	96%				

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".
	has not been considered as part of the Total

		ole 5:																	
	Em	issions reported by Par	ties to the Protocol on POPs																
	П											Gridded	data						
	1	Party (base year)	Base Year	2020	2020	2020		PCD	D/Fs			PA	Hs			HC	В		
	1			Diox	PAH	HCB	2005	2010	2015	2019	2005	2010	2015	2019	2005	2010	2015	2019	
Т	1	Austria	1987	X	X	X	Х	X	Х	X	Х	Х	х	х	Х	х	х	Х	
	2	Belgium	1990	Х	Х	Х	Х	х	Х	Х	Х	Х	х	х	Х	х	х	Х	
3	3	Bulgaria	1990	X	X	X	X	X	Х	X	Х	Х	х	X	Х	Х	Х	Х	
4	4	Canada*	1990	X	X	X													
R	5	Croatia	1990	X	X	X	X	X	Х	X	Х	Х	Х	Х	X	Х	Х	X	
Y	6	Cyprus	1990	X	X	X	X	X	X	X	Х	Х	Х	X	X	Х	X	X	
Z	7	Czechia	1990	X	X	X	X	X	Х	X	Х	Х	х	х	Х	х	Х	X	
<	8	Denmark	1990	x	X	X	X	х	X	X	х	х	х	х	X	х	х	X	
	9	Estonia	PAH - 1995; Diox - 1990; HCB - 1995	x	X	X	x	x	X	x	х	х	х	х	X	х	х	X	
	10	Finland	1994	X	X	Х	х	х	х	X	х	х	х	х	х	х	х	х	
2	11	France	1990	X	X	X	X	X	X	X	X	X	X	X	X	Х	X	X	
	12	Germany	1990	X	X	X	X	X	X	X	Х	Х	х	X	X	Х	Х	X	
J	13	Hungary	1990	X	X	X	X	X	X	X	Х	х	х	х	Х	х	Х	Х	
	14	Iceland	1990	X	X	X	X	X	X	X	X	Х	Х	X	X	Х	X	X	
	15	Italy	1990	x	x	x	X	X	x	x	х	х	х	x	NE	х	х	x	
/		Latvia	1990	X	X	X	Х	Х	Х	X	х	х	х	х	Х	х	х	Х	
	17	Liechtenstein	1990	X	x	X	n/a	n/a	-	-	n/a	n/a	-	-	n/a	n/a	-	-	
	18	Lithuania	1990	X	X	X	Х	Х	х	х	Х	Х	х	х	Х	Х	х	х	
J	19	Luxembourg	1990	X	X	X	х	х	х	х	х	х	х	х	х	х	х	х	
E	20	Montenegro	1990	Х	Х	Х	n/a	n/a	-	-	n/a	n/a	-	-	n/a	n/a	-	-	
	21	Netherlands	1990	X	X	X	X	X	X	X	Х	Х	Х	X	X	Х	X	X	
)	22	Norway	1990	X	X	X	X	X	X	X	х	х	х	х	Х	х	х	х	
D	23	Moldova, Republic of	1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
О	24	Romania	1989	X	X	X	х	х	х	-	х	х	х	-	X	х	х	-	
S	25	Serbia	1990	X	X	X	n/a	n/a	-	-	n/a	n/a	-	-	n/a	n/a	-	-	
<	26	Slovakia	1990	X	X	X	X	X	X	X	Х	Х	Х	х	X	Х	X	X	
	27	Slovenia	1990	X	X	X	X	X	X	X	X	Х	Х	X	X	Х	X	X	
S		Spain	1990	X	X	X	X	X	X	X	Х	Х	Х	X	X	Х	X	X	
		Sweden	1990	X	X	X	X	X	X	X	Х	Х	Х	Х	X	Х	X	X	
1	30	Switzerland	1990	X	X	X	X	X	X	X	X	Х	X	X	X	X	X	X	
<	31	North Macedonia	1990	X	X	X	n/a	n/a	X	X	n/a	n/a	х	x	n/a	n/a	x	X	
В	32	United Kingdom	1990	x	X	X	x	X	х	X	х	х	х	х	X	х	X	X	
J27	33	EU-27	1990	X	X	X	Х	х	x	x	х	х	х	х	х	х	х	х	
		Total		97%	97%	97%	97%	97%	88%	84%	97%	97%	88%	84%	94%	97%	88%	84%	
	$\overline{}$		i																

Data received \mathbf{X} No Data received

n/a

Reporting obligation not applicable
Party outside the geographic scope of EMEP
Grey filling indicates that the entry was manual

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

Party)

Note Serbia has submitted gridded data for PCDD/Fs, PAHs, HCB 2020 (on 20 May 2022)

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

				Gridded	d data	
	Party (Base year)					
	Tarty (Dasc year)					
		2020	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	X	Х	Х	Х
8	Denmark (1990)	Х	X	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	X
13	Hungary (1990)	х	x	Х	х	x
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	Χ	Х	X
22	Portugal (1990)	Х	X	Х	Х	Х
23	Republic of Moldova (1990)	-	-	-	-	-
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	х
28	Spain (1990)	Х	Х	Х	Х	Х
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-27 (1990)	х	х	Х	Х	Х
	Total	97%	97%	97%	88%	84%

Data received

No data received (or blank cells in the reporting

Reporting obligation not applicable n/a

[&]quot;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
Note Serbia has submitted gridded data for Pb, Cd and
Hg 2020 (on 20 May 2022)

Table 7.1: Emissions reported by Parties to the Gothenburg Protocol: annual data and projections

			11011		1810		Projec	ctions*			Proje	ctions*		Projections*			
	Party	2020	2020	2020	2020		20	20			20)25			20	30	
		SO2	NOX	VOCs	NH3	SO2	NOx	VOCs	NH3	SO2	NOx	VOCs	NH3	SO2	NOx	VOCs	NH3
1	Belgium (fuel sold)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
	Belgium (fuel used)	Х	Х	Х	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	Х	X	Х	X	Х	Х	X	Х	Х	X	X	X
3	Canada	X	X	X	X	X	X	X	X	Х	X	X	Х	X	Х	X	Х
4	Croatia	X	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
5	Cyprus	X	X	X	Х	Х	X	Х	X	Х	Х	X	Х	Х	X	Х	Х
6	Czechia	X	X	X	х	X	X	Х	X	Х	X	X	Х	Х	Х	X	Х
7	Denmark	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
8	Estonia	X	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
9	Finland	X	X	X	X	Х	X	Х	X	Х	Х	X	Х	Х	X	Х	X
10	France	X	X	X	х	X	X	Х	X	Х	X	X	Х	X	Х	X	Х
11	Germany	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
12	Hungary	X	X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
13	Latvia	x	X	X	х	Х	X	X	X	Х	X	X	Х	X	Х	X	Х
14	Lithuania (fuel sold)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
15	Luxembourg (fuel sold)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
16	Malta	X	X	X	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	Х
17	Netherlands (fuel sold)	х	X	X	х	Х	X	Х	X	Х	X	X	Х	Х	Х	X	Х
18	Norway	X	X	X	х	X	X	X	X	Х	X	X	Х	X	X	X	Х
19	Portugal	X	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
20	Romania	Х	X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
21	Slovakia	X	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
22	Slovenia	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
23	Spain (EMEP territory)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
24	Sweden	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
25	Switzerland (fuel sold)	х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
	Switzerland (fuel used)	Х	Х	Х	Х	Х	Х	Х	Х	n/a	n/a	n/a	n/a	Х	Х	Х	Х
26		х	Х	Х	Х	Х	Х	Х	-	-	-	-	-	-	-	-	-
27	United Kingdom (fuel sold)	х	X	Х	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
	United Kingdom (fuel used)		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
28	United States	Х	Х	Х	Х	Х	Х	Х	Х	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	United States (PEMA)**	Х	Х	Х	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
29	EU-27	X	X	х	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
	Total	100%	100%	100%	100%	100%	100%	100%	97%	96%	96%	96%	96%	97%	97%	97%	97%

												DEMA - Dolla	itants Emissions Management Area
X	Data received												
-	No data received (or blank cells in the reporting tal	Hie)										The US has o	bligations under the amended GP for PEMA's instead of the entire territoy; see below for the difference in PEMA's per pollutant
n/a	Reporting obligation not applicable											SOx	includes all of U.S. except Hawaii and Alaska
*	The value reported under projections is the national	destablished for the continue to the continue of the left of the		Outs the Heisel Kins								NOx and VO	includes all of U.S. except Hawaii
		•											·
	Parties to the Gothenburg Protocol within the geog	graphical scope of EMEP shall regularly updat	te their projections	and report every for	r years from	2015 onwar	d their upda	ated projecti	ions, for the	ears 2020,	2025 and 2030.		
**	Party outside the geographic scope of EMEP												
													30 states and the District of Columbia:
												PM2.5	Alaska, Connecticut, Delaware, District Of Columbia, Idaho, Illinois, Indiana, Iowa, Kentucky, Maine, Maryland, Massachusetts,
													Michigan, Minnesota, Montana, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Oregon, Pennsylvania,
Acco	rding to the guidelines there are 8 countries that can	report emissions on the basis of fuel used for	compliance purpo	ses under the GP;									Rhode Island, South Dakota, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming
6 of t	these are Parties to the Protocol and are indicated in	blue above; the non-submission of "fuel used"	data does not indi	cate a case of non-re	porting								

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

								Gridde	d data							
Party		VOCs				Sulphur				NO.				NH ₃		
	2005	2010	2015	2019	2005	2010	2015	2019	2005	2010	2015	2019	2005	2010	2015	2019
Belgium (fuel sold)	8	8	8	8	8	*	8	8	8	8	8	8	8	8	8	8
Belgium (fuel used)																
Bulgaria	×	8	8	8	8	*	*	8	8	8	8	*	8	8	8	8
Canada																
Croatia	×	*	*	*	*	×	*	×	*	*	*	*	*	*	*	8
Cyprus	8	8	8	8	8	*	8	8	8	8	8	*	8	8	8	8
Czech Republic	8	8	8	8	8	*	*	8	8	8	8	*	8	*	8	8
Denmark	×	*	8	*	*	*	*	*	*	8	*	*	*	*	*	8
Estonia	8	8	8	8	8	*	8	8	8	8	8	*	8	8	8	8
Finland	8	*	8	8	8	*	*	*	8	8	8	8	8	*	8	8
France	8	*	8	8	*	*	*	8	8	8	*	*	8	*	*	8
Germany	8	8	8	8	8	*	*	8	8	8	8	8	8	*	8	8
Hungary	×	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8
Latvia	8	8	8	8	8	*	*	8	8	8	8	*	8	*	8	8
Lithuania (fuel sold)	8	8	8	8	8	*	*	8	8	8	8	8	8	*	8	8
Luxembourg (fuel sold)	×	*	*	*	*	×	*	×	*	*	*	*	*	*	*	×
Malta				8				8				8				8
Netherlands (fuel sold)	8	8	8	8	8	*	8	8	8	8	8	8	8	8	8	8
Norway	×	*	*	*	*	*	*	*	*	*	*	×	*	*	*	8
Portugal	8	8	8	8	8	*	*	8	8	8	8	8	8	*	8	8
Romania	8	×	*	-	×	*	×	-	X*	×	X*	-	X*	×	X*	-
Slovakia	8	*	*	*	8	*	*	8	- 8	*	8	*	8	*	8	8
Slovenia	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Spain (EMEP territory)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Sweden	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	- 8
Switzerland (fuel sold)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Switzerland (fuel used)																
North Macedonia	n/a	n/a	*	×	n/a	n/a	*	×	n/a	n/a	×	8	n/a	n/a	8	8
United Kingdom (fuel sold)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
United Kingdom (fuel used)																
United States																
United States (PEMA)**			1					1		1		1			1	
EU-27****	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%

^{****} After discussions with CEIP and the EU, the secretariat changed this information from EU-28 to EU-27.

Table 8: PM2.5 Emissions reported by Parties to the Amended Gothenburg Protocol

D140 5		2242					2015		0047	0040			Gridded data	Projec	ctions
PM2.5	Party	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2019		
1	Bulgaria	Х	х	х	Х	Х	Х	х	х	х	х	Х	Х	х	Х
2	Canada (national)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	n/a	Х	Х
3	Croatia	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х
4	Cyprus	Х	X	X	X	X	X	X	X	X	X	X	X	X	X
5	Czechia	Х	X	X	X	X	X	X	X	X	X	X	X	X	X
6	Denmark	Х	X	X	X	X	X	X	X	X	X	X	X	X	X
7	Estonia	Х	X	X	X	X	X	X	X	X	X	X	X	X	X
8	Finland	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	France	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	Germany	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	Latvia	Х	X	X	X	X	X	X	X	X	X	X	X	X	X
12	Lithuania	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	Luxembourg	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	Malta	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	Netherlands	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	Norway	X	X	X	X	X	X	X	X	X	X	X	X	Х	X
17	Portugal	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	Romania	Х	X	X	X	X	X	X	X	X	X	X	X	Х	X
19	Slovakia	Х	X	X	X	X	X	X	X	X	X	X	X	Х	X
20	Slovenia	Х	X	X	X	X	Х	X	X	X	X	X	X	х	Х
21	Spain (EMEP territory = GP)	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х	х
22	Sweden	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х	х
23	Switzerland	Х	X	Х	X	X	X	Х	X	X	X	Х	х	Х	Х
24	United Kingdom	х	X	X	X	X	х	X	х	х	X	X	х	х	x
25	United States (PEMA)	Х	X	X	X	X	Х	X	X	X	X	Х	n/a	Х	Х
	EU27	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Total*	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

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".