

## Appendix 2.1 - Reporting of PM emissions

The condensable fraction of particulate matter (PM<sub>2.5</sub>) is documented for all activities in the emissions database. A documentation entry has been created for each time series, indicating the following options for condensable particulate matter:

- Yes (measured/determined), the condensable fraction of PM<sub>2.5</sub> was measured and is included in the emission values
- No, the condensable fraction has not been determined and is not included in the emission values
- NA (no condensable PM<sub>2.5</sub> is generated in the process)
- Unknown, the condensable fraction for PM<sub>2.5</sub> is unknown and could be zero

Below is an excerpt from the database, showing the aforementioned documentation entries by source category.



NFR categories with no reported activity or PM<sub>2.5</sub> emissions are excluded here.

NFR Source Category		no documentation available	Yes	Not Applicable	No	Unknown	Number of document entries
			(measured/determined)	(no condensable PM <sub>2.5</sub> are generated in the process)	(potentially possible)		
NFR 1 Energy							
1.A.1.a	Public electricity and heat production	-	-	-	147	-	147
1.A.1.b	Petroleum refining	-	-	-	31	-	31
1.A.1.c	Manufacture of solid fuels and other energy industries	-	-	-	49	-	49
1.A.2.a	Stationary combustion in manufacturing industries and construction: Iron and steel	-	-	-	22	-	22
1.A.2.b	Stationary combustion in manufacturing industries and construction: Non-ferrous metals	-	-	-	-	-	-
1.A.2.c	Stationary combustion in manufacturing industries and construction: Chemicals	-	-	-	-	-	-
1.A.2.d	Stationary combustion in manufacturing industries and construction: Pulp, Paper and Print	-	-	-	-	-	-
1.A.2.e	Stationary combustion in manufacturing industries and construction: Food processing, beverages and tobacco	-	-	-	-	-	-
1.A.2.f	Stationary combustion in manufacturing industries and construction: Non-metallic minerals	-	-	-	-	-	-
1.A.2.g vii	Mobile combustion in manufacturing industries and construction (please specify in the IIR)	-	4	-	-	-	4

1.A.2.g viii	Stationary combustion in manufacturing industries and construction: Other (please specify in the IIR)	-	-	-	102	-	102
1.A.3.a	Domestic Aviation	-	-	-	-	4	4
1.A.3.b	Road Transport	-	487	18	-	-	505
1.A.3.c	Railways	-	11	-	1	-	12
1.A.3.d	Domestic Navigation	-	5	-	1	-	6
1.A.3.e	Other Transportation	-	-	-	3	-	3
1.A.4.a i	Commercial/Institutional: Stationary	-	-	-	28	-	28
1.A.4.a ii	Commercial/Institutional: Mobile	-	3	-	-	-	3
1.A.4.b i	Residential: Stationary	-	-	-	14	-	14
1.A.4.b ii	Residential: Household and gardening (mobile)	-	-	-	4	4	8
1.A.4.c i	Agriculture/Forestry/Fishing: Stationary	-	-	-	15	-	15
1.A.4.c ii	Agriculture/Forestry/Fishing: Off-road vehicles and other machinery	-	6	-	-	-	6
1.A.4.c iii	Agriculture/Forestry/Fishing: National fishing	-	-	-	-	3	3
1.A.5.a	Other stationary (including military)	-	-	-	10	-	10
1.A.5.b	Other, Mobile (including military, land based and recreational boats)	-	-	-	9	-	9
1.B.1.a	Fugitive emission from solid fuels: Coal mining and handling	-	-	1	-	-	1
1.B.1.b	Fugitive emission from solid fuels: Solid fuel transformation	-	-	6	2	-	8
1.B.2.c	Venting and flaring (oil, gas, combined oil and gas)	-	-	-	1	-	1
1.D.1.a	Civil Aviation (international)	-	-	-	-	4	4
1.D.1.b	Maritime Navigation (international)	-	-	-	-	2	2
11.B	Forest Fires	-	-	-	-	1	1
<b>NFR 2 - IPPU</b>							
2.A.1	Cement production	-	-	-	1	-	1
2.A.2	Lime production	-	-	-	-	2	2
2.A.3	Glass production	-	6	-	-	-	6
2.A.4.A	Ceramics	-	-	-	-	15	15
2.A.5.a	Quarrying and mining of minerals other than coal	-	-	4	-	-	4
2.A.5.b	Construction and demolition	-	-	5	-	-	5
2.B.5	Carbide production	-	-	-	-	1	1
2.B.8	Petrochemical and Carbon Black Production	-	-	-	-	1	1
2.B.10	Other	-	-	-	-	1	1
2.C.1	Iron and steel production	-	-	-	-	7	7
2.C.2	Ferroalloys production	-	-	-	-	1	1
2.C.3.a	By-Product Emissions	-	-	-	-	2	2
2.C.4	Magnesium production	-	-	-	-	-	-
2.C.5	Lead production	-	-	-	-	2	2
2.C.6	Zinc production	-	-	-	-	2	2
2.C.7	Other	-	-	-	-	3	3

2.D.3.b	Road paving with asphalt	-	-	-	-	1	1
2.G.1	Electric Equipment	-	-	-	-	-	-
2.G.2	SF <sub>6</sub> and PFCs from Other Product Use	-	-	-	-	-	-
2.G.3	N <sub>2</sub> O from Product Uses	-	-	-	-	-	-
2.G.4	Other	-	3	-	-	1	4
2.H.1	Pulp and paper industry	-	-	-	2	-	2
2.H.2	Food and beverages industry	-	-	-	-	2	2
2.I	Wood processing	-	-	1	-	-	1
2.L	Other production, consumption, storage, transportation or handling of bulk products (please specify in the IIR)	-	-	1	-	89	90
<b>NFR 3 - Agriculture</b>							
3.B	Manure Management	-	-	20	-	-	20
3.D	Agricultural Soils	-	-	1	-	-	1
<b>NFR 5 - Waste</b>							
5.A	Biological treatment of waste - Solid waste disposal on land	-	-	1	-	-	1
5.C	Waste Incineration	-	-	-	1	1	2
5.E	Other waste (please specify in the IIR)	-	-	-	-	6	6
<b>NFR 11 - Other</b>							
11.B	Forest Fires	-	-	-	-	1	1
<b>SUM</b>		-	<b>525</b>	<b>58</b>	<b>443</b>	<b>155</b>	<b>1,181</b>