

Appendix 2.1 - Reporting of PM emissions

Table A2.1: Inclusion/exclusion of the condensable component from PM₁₀ and PM_{2.5} emission factors (NOTE: NFR categories with no reported activity or PM emissions (notation keys 'NO' or 'NA' in the NFR tables) are excluded here!)

NFR code	Source / sector name	condensable component		EF reference and/or comments
		included	excluded	
NFR 1 - Energy				
1.A.1.a	Public electricity and heat production		x	
1.A.1.b	Petroleum refining		x	
1.A.1.c	Manufacture of solid fuels and other energy industries		x	
1.A.2.a	Stationary combustion in manufacturing industries and construction: Iron and steel		x	
1.A.2.b	Stationary combustion in manufacturing industries and construction: Non-ferrous metals	?		no indication
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		x	
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)		x ¹	country-specific EF likely to include condensables
1.A.2.g viii	Stationary combustion in manufacturing industries and construction: Other (please specify in the IIR)		x	
1.A.3.a i(i)	International aviation LTO (civil)	?		country-specific EF without clear indication
1.A.3.a ii(i)	Domestic aviation LTO (civil)	?		country-specific EF without clear indication
1.A.3.b i	Road transport: Passenger cars	x ¹		country-specific EF likely to include condensables
1.A.3.b ii	Road transport: Light duty vehicles	x ¹		country-specific EF likely to include condensables
1.A.3.b iii	Road transport: Heavy duty vehicles and buses	x ¹		country-specific EF likely to include condensables
1.A.3.b iv	Road transport: Mopeds & motorcycles	x ¹		country-specific EF likely to include condensables
1.A.3.b v	Road transport: Gasoline evaporation	NA		
1.A.3.b vi	Road transport: Automobile tyre and brake wear		x	
1.A.3.b vii	Road transport: Automobile road abrasion		x	
1.A.3.c	Railways	x ^{<sup>1</sup>}		country-specific EF likely to include condensables
1.A.3.d i(ii)	International inland waterways	IE	included in NFR 1.A.3.d ii	
1.A.3.d ii	National navigation (shipping)	x ^{<sup>1</sup>}		country-specific EF likely to include condensables
1.A.3.e i	Pipeline transport		x	
1.A.4.a i	Commercial/Institutional: Stationary		x	
1.A.4.a ii	Commercial/Institutional: Mobile	x ^{<sup>1</sup>}		country-specific EF likely to include condensables
1.A.4.b i	Residential: Stationary		x	
1.A.4.b ii	Residential: Household and gardening (mobile)		?	country-specific EF without clear indication

1.A.4.c i	Agriculture/Forestry/Fishing: Stationary			x	
1.A.4.c ii	Agriculture/Forestry/Fishing: Off-road vehicles and other machinery		x<sup>1<sup>		country-specific EF likely to include condensables
1.A.4.c iii	Agriculture/Forestry/Fishing: National fishing			?	country-specific EF without clear indication
1.A.5.a	Other stationary (including military)			x	
1.A.5.b	Other, Mobile (including military, land based and recreational boats)		x<sup>1<sup>		country-specific EF likely to include condensables
1.B.1.a	Fugitive emission from solid fuels: Coal mining and handling			x	
1.B.1.b	Fugitive emission from solid fuels: Solid fuel transformation			x	
1.B.2.c	Venting and flaring (oil, gas, combined oil and gas)			?	EMEP GB 2016 EF without any indication
NFR 2 - IPPU					
2.A.1	Cement production			?	country-specific EF without any indication
2.A.2	Lime production			?	country-specific EF without any indication
2.A.3	Glass production			?	country-specific EF without any indication
2.A.5.a	Quarrying and mining of minerals other than coal			?	EMEP GB 2016 EF without any indication
2.A.5.b	Construction and demolition			?	EMEP GB 2016 EF without any indication
2.A.5.c	Storage, handling and transport of mineral products	IE		included in NFR 2.L	
2.A.6	Other mineral products (please specify in the IIR)			?	country-specific EF without any indication
2.B.3	Adipic acid production	NE		no EF in EMEP GB 2019	
2.B.5	Carbide production			?	country-specific EF without any indication
2.B.7	Soda ash production			?	country-specific EF without any indication
2.B.10.a	Chemical industry: Other (please specify in the IIR)			?	carbon black: country-specific EF without any indication
2.B.10.a	Chemical industry: Other (please specify in the IIR)			?	fertilizer production: country-specific EF without any indication
2.B.10.b	Storage, handling and transport of chemical products (please specify in the IIR)	IE		included in NFR 2.L	
2.C.1	Iron and steel production			?	country-specific EF without any indication
2.C.2	Ferroalloys production			?	country-specific EF without any indication
2.C.3	Aluminium production			?	country-specific EF without any indication
2.C.4	Magnesium production	NE		no primary magnesium production; emission for secondary magnesium production allocated in 1.A.2.b	
2.C.5	Lead production			?	country-specific EF without any indication

2.C.6	Zinc production		?	country-specific EF without any indication
2.C.7.a	Copper production		?	country-specific EF without any indication
2.C.7.c	Other metal production (please specify in the IIR)		?	no indication
2.C.7.d	Storage, handling and transport of metal products (please specify in the IIR)	IE	included in NFR 2.L	
2.D.3.b	Road paving with asphalt		?	country-specific EF without any indication
2.G	Other product use: Tobacco		?	country-specific EF without any indication
2.G	Other product use: Fireworks		?	EMEP GB 2019 EF without any indication
2.G	Other product use: Charcoal		?	EF from 1.A.4 EMEP GB 2019 EF without any indication
2.H.1	Pulp and paper industry		?	country-specific EF without any indication
2.H.2	Food and beverages industry		?	EMEP GB 2016 EF without any indication
2.I	Wood processing		?	country-specific EF without any indication
2.J	Production of POPs	NE		
2.L	Other production, consumption, storage, transportation or handling of bulk products (please specify in the IIR)	?	country-specific EF without any indication	
NFR 3 - Agriculture				
3.B.1.a	Manure management - Dairy cattle		?	EMEP GB 2016 EF without any indication
3.B.1.b	Manure management - Non-dairy cattle		?	EMEP GB 2016 EF without any indication
3.B.2	Manure management - Sheep		?	EMEP GB 2016 EF without any indication
3.B.3	Manure management - Swine		?	EMEP GB 2016 EF without any indication
3.B.4.a	Manure management - Buffalo	IE	EMEP GB 2016 EF without any indication	
3.B.4.d	Manure management - Goats		?	EMEP GB 2016 EF without any indication
3.B.4.e	Manure management - Horses		?	EMEP GB 2016 EF without any indication
3.B.4.f	Manure management - Mules and asses	IE	EMEP GB 2016 EF without any indication	
3.B.4.g i	Manure management - Laying hens		?	EMEP GB 2016 EF without any indication
3.B.4.g ii	Manure management - Broilers		?	EMEP GB 2016 EF without any indication
3.B.4.g iii	Manure management - Turkeys		?	EMEP GB 2016 EF without any indication
3.B.4.g iv	Manure management - Other poultry		?	EMEP GB 2016 EF without any indication
3.B.4.h	Manure management - Other animals (please specify in the IIR)	NE	EMEP GB 2016 EF without any indication	
3.D.c	Farm-level agricultural operations including storage, handling and transport of agricultural products		?	EMEP GB 2016 EF without any indication
NFR 5 - Waste				

5.A	Biological Treatment of Waste - Solid Waste Disposal on Land		?	EMEP-GB 2019: EF without any indication
5.C.1.b v	Cremation		?	country-specific EF without any indication
5.E.2	Other Waste: Building and Car Fires		?	EMEP GB 2016 EF without any indication
MEMO ITEMS - NOT TO BE INCLUDED IN NATIONAL TOTALS				
1.A.3.a i(ii)	International aviation cruise (civil)		?	country-specific EF without clear indication
1.A.3.a ii(ii)	Domestic aviation cruise (civil)		?	country-specific EF without clear indication
1.A.3.d i(i)	International maritime navigation		?	country-specific EF without clear indication
1.A.5.c	Multilateral operations	NE		
11.B	Forest fires		?	EMEP GB 2016 EF without any indication

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