

ANNEX 2

Inclusion/exclusion of the condensable component from PM₁₀ and PM_{2.5} emission factors for the year 2017

NFR	Source/sector name	PM emissions: the condensable component is		EF reference and comments
		included	excluded	
1A1a	Public electricity and heat production		+	- Emission Inventory Guidebook, 2016, Energy industries and measurement data
1A1b	Petroleum refining			NO
1A1c	Manufacture of solid fuels and other energy industries		+	- Emission Inventory Guidebook, 2016, Energy industries
1A2a	Stationary combustion in manufacturing industries and construction: Iron and steel		+For biomass condensable component excluded. ? For other fuels unclear.	- Emission Inventory Guidebook, 2016, Manufacturing industries and Construction
1A2b	Stationary combustion in manufacturing industries and construction: Non-ferrous metals			- Not clear - Emission Inventory Guidebook, 2016, Manufacturing industries and Construction
1A2c	Stationary combustion in manufacturing industries and construction: Chemicals		+For biomass condensable component excluded. ? For other fuels unclear.	- Emission Inventory Guidebook, 2016, Manufacturing industries and Construction
1A2d	Stationary combustion in manufacturing industries and construction: Pulp, Paper and Print		+For biomass condensable component excluded. ? For other fuels unclear.	- Emission Inventory Guidebook, 2016, Manufacturing industries and Construction
1A2e	Stationary combustion in manufacturing industries and construction: Food processing, beverages and tobacco		+For biomass condensable component excluded. ? For other fuels unclear.	- Emission Inventory Guidebook, 2016, Manufacturing industries and Construction
1A2f	Stationary combustion in manufacturing industries and construction: Non-metallic minerals		+For biomass condensable component excluded. ? For other fuels unclear.	- Emission Inventory Guidebook, 2016, Manufacturing industries and Construction - Emission Inventory Guidebook, 2016, Industrial waste incineration
1A2gvii	Mobile Combustion in manufacturing industries and construction: (please specify in the IIR)	+		- Emission Inventory Guidebook, 2016, Non-road mobile sources and machinery

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1A2gviii	Stationary combustion in manufacturing industries and construction: Other (please specify in the IIR)		+For biomass condensable component excluded. ? For other fuels unclear.	- Emission Inventory Guidebook, 2016, Manufacturing industries and Construction
1A3ai(i)	International aviation LTO (civil)			- No information - Emission Inventory Guidebook, 2016, Aviation
1A3aii(i)	Domestic aviation LTO (civil)			- No information - Emission Inventory Guidebook, 2016, Aviation
1A3bi	Road transport: Passenger cars	+		Copert 4, v.11.4
1A3bii	Road transport: Light duty vehicles	+		Copert 4, v.11.4
1A3biii	Road transport: Heavy duty vehicles and buses	+		Copert 4, v.11.4
1A3biv	Road transport: Mopeds & motorcycles	+		Copert 4, v.11.4
1A3bv	Road transport: Gasoline evaporation			NA
1A3bvi	Road transport: Automobile tyre and brake wear			- No information - Emission Inventory Guidebook, 2016, Road transport: Automobile tyre and brake wear
1A3bvii	Road transport: Automobile road abrasion			- No information - Emission Inventory Guidebook, 2016, Road transport: Automobile road abrasion
1A3c	Railways		+For coal condensable component excluded. ? For diesel no information.	- Emission Inventory Guidebook, 2016, Railways and energy industries
1A3di(ii)	International inland waterways			NO
1A3dii	National navigation (shipping)			IE
1A3ei	Pipeline transport			- Not clear. - Emission Inventory Guidebook, 2016, Small combustion
1A3eii	Other (please specify in the IIR)			NO
1A4ai	Commercial/institutional: Stationary		+For biomass condensable component excluded. ? For other fuels unclear.	- Emission Inventory Guidebook, 2016, Small combustion
1A4aii	Commercial/institutional: Mobile			IE

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1A4bi	Residential: Stationary	+For biomass condensable component included. ? For other fuels unclear.		- Emission Inventory Guidebook, 2016, Small combustion
1A4bii	Residential: Household and gardening (mobile)			IE
1A4ci	Agriculture/Forestry/Fishing: Stationary			IE
1A4cii	Agriculture/Forestry/Fishing: Off-road vehicles and other machinery	+		- Emission Inventory Guidebook, 2016, Non-road mobile sources and machinery
1A4ciii	Agriculture/Forestry/Fishing: National fishing			IE
1A5a	Other stationary (including military)			IE
1A5b	Other, Mobile (including military, land based and recreational boats)			NE
1B1a	Fugitive emission from solid fuels: Coal mining and handling			- No information - Emission Inventory Guidebook, 2016, Fugitive emissions
1B1b	Fugitive emission from solid fuels: Solid fuel transformation			NO
1B1c	Other fugitive emissions from solid fuels			NO
1B2ai	Fugitive emissions oil: Exploration, production, transport			NO
1B2aiv	Fugitive emissions oil: Refining / storage			NO
1B2av	Distribution of oil products			NA
1B2b	Fugitive emissions from natural gas (exploration, production, processing, transmission, storage, distribution and other)			NA
1B2c	Venting and flaring (oil, gas, combined oil and gas)			- No information - Emission Inventory Guidebook, 2016, Fugitive emissions
1B2d	Other fugitive emissions from energy production			NO
2A1	Cement production			- No information - Emission Inventory Guidebook, 2016, Cement production
2A2	Lime production			- No information- - Emission Inventory Guidebook, 2016, Lime production
2A3	Glass production			- No information - Emission Inventory Guidebook, 2016, Glass production
2A5a	Quarrying and mining of minerals other than coal			NO
2A5b	Construction and demolition			NE

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2A5c	Storage, handling and transport of mineral products			IE
2A6	Other mineral products (please specify in the IIR)			NO
2B1	Ammonia production			NO
2B2	Nitric acid production			NO
2B3	Adipic acid production			NO
2B5	Carbide production			NO
2B6	Titanium dioxide production			NE
2B7	Soda ash production			NO
2B10a	Chemical industry: Other (please specify in the IIR)			- No information - Emission Inventory Guidebook, 2016, Chemical industry
2B10b	Storage, handling and transport of chemical products (please specify in the IIR)			NO
2C1	Iron and steel production		+	- Emission Inventory Guidebook, 2016, Iron and steel production
2C2	Ferroalloys production			NO
2C3	Aluminium production		+	- Emission Inventory Guidebook, 2016, Aluminium production
2C4	Magnesium production			NO
2C5	Lead production		+	- Emission Inventory Guidebook, 2016, Lead production
2C6	Zinc production		+	- Emission Inventory Guidebook, 2016, Zinc production
2C7a	Copper production			- No information - Emission Inventory Guidebook, 2016, Copper production
2C7b	Nickel production			NO
2C7c	Other metal production (please specify in the IIR)			NO
2C7d	Storage, handling and transport of metal products (please specify in the IIR)			IE
2D3a	Domestic solvent use including fungicides			NE
2D3b	Road paving with asphalt		+	
2D3c	Asphalt roofing			NE
2D3d	Coating applications			NA
2D3e	Degreasing			NE
2D3f	Dry cleaning			NE

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2D3g	Chemical products			NE
2D3h	Printing			NE
2D3i	Other solvent use (please specify in the IIR)		+	
2G	Other product use (please specify in the IIR)			- There is no information in the EMEP/EEA GB 2016 whether EF of PM include or exclude condensable component.
2H1	Pulp and paper industry			NE
2H2	Food and beverages industry			NE
2H3	Other industrial processes (please specify in the IIR)			NO
2I	Wood processing			NE
2J	Production of POPs			NO
2K	Consumption of POPs and heavy metals (e.g. electrical and scientific equipment)			NA
2L	Other production, consumption, storage, transportation or handling of bulk products (please specify in the IIR)			NO
3B1a	Manure management - Dairy cattle			- No information - Emission Inventory Guidebook, 2016, Manure management
3B1b	Manure management - Non-dairy cattle			- No information - Emission Inventory Guidebook, 2016, Manure management
3B2	Manure management - Sheep			- No information - Emission Inventory Guidebook, 2016, Manure management
3B3	Manure management - Swine			- No information - Emission Inventory Guidebook, 2016, Manure management
3B4a	Manure management - Buffalo			NO
3B4d	Manure management - Goats			- No information - Emission Inventory Guidebook, 2016, Manure management
3B4e	Manure management - Horses			- No information - Emission Inventory Guidebook, 2016, Manure management
3B4f	Manure management - Mules and asses			NO
3B4gi	Manure management - Laying hens			- No information - Emission Inventory Guidebook, 2016, Manure management
3B4gii	Manure management - Broilers			- No information - Emission Inventory Guidebook, 2016, Manure management
3B4giii	Manure management - Turkeys			- No information - Emission Inventory Guidebook, 2016, Manure management
3B4giv	Manure management - Other poultry			- No information - Emission Inventory Guidebook, 2016, Manure management
3B4h	Manure management - Other animals (please specify in IIR)			NA

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3Da1	Inorganic N-fertilizers (includes also urea application)			NA
3Da2a	Animal manure applied to soils			NA
3Da2b	Sewage sludge applied to soils			NA
3Da2c	Other organic fertilisers applied to soils (including compost)			NO
3Da3	Urine and dung deposited by grazing animals			NA
3Da4	Crop residues applied to soils			NO
3Db	Indirect emissions from managed soils			NO
3Dc	Farm-level agricultural operations including storage, handling and transport of agricultural products		+	- Emission Inventory Guidebook, 2016, Crop production and agriculture soils
3Dd	Off-farm storage, handling and transport of bulk agricultural products			NO
3De	Cultivated crops			NO
3Df	Use of pesticides			NO
3F	Field burning of agricultural residues			NO
3I	Agriculture other (please specify in the IIR)			NO
5A	Biological treatment of waste - Solid waste disposal on land			- No information - Emission Inventory Guidebook, 2016, Solid waste disposal on land
5B1	Biological treatment of waste - Composting			NE
5B2	Biological treatment of waste - Anaerobic digestion at biogas facilities			NO
5C1a	Municipal waste incineration			- No information - Emission Inventory Guidebook, 2016, Municipal waste incineration
5C1bi	Industrial waste incineration			NO
5C1bii	Hazardous waste incineration			- No information - Emission Inventory Guidebook, 2016, Industrial waste incineration
5C1biii	Clinical waste incineration			NE
5C1biv	Sewage sludge incineration			NO
5C1bv	Cremation			- No information - Emission Inventory Guidebook, 2016, Cremation
5C1bvi	Other waste incineration (please specify in the IIR)			NO
5C2	Open burning of waste			NO
5D1	Domestic wastewater handling			NE

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5D2	Industrial wastewater handling			NE
5D3	Other wastewater handling			NO
5E	Other waste (please specify in IIR)			- No information - Emission Inventory Guidebook, 2016, Other waste
6A	Other (included in national total for entire territory) (please specify in IIR)			NO
1A3ai(ii)	International aviation cruise (civil)			IE
1A3aii(ii)	Domestic aviation cruise (civil)			NE
1A3di(i)	International maritime navigation			- No information - Emission Inventory Guidebook, 2016, International maritime navigation
1A5c	Multilateral operations			NE
1A3	Transport (fuel used)			NO
6B	Other not included in national total of the entire territory (please specify in the IIR)			NO
11A	Volcanoes			NO
11B	Forest fires			NE
11C	Other natural emissions (please specify in the IIR)			NO

Use of Notation Keys (IE, NO, NE, NA) is described in IIR 2019, Chapter 1.5 General Assessment of Completeness, pg. 11.