

2.A.5.a - Quarrying & Mining - Other Than Coal

Short description

Method	AD	EF	Key Category	
T1	NS	D	L&T : TSP, PM ₁₀	L : PM _{2.5}

T = key source by Trend **L** = key source by Level

Methods	
D	Default
T1	Tier 1 / Simple Methodology *
T2	Tier 2*
T3	Tier 3 / Detailed Methodology *
C	CORINAIR
CS	Country Specific
M	Model

* as described in the EMEP/EEA Emission Inventory Guidebook - 2019, in the group specific chapters.

AD - Data Source for Activity Data	
NS	National Statistics
RS	Regional Statistics
IS	International Statistics
PS	Plant Specific data
As	Associations, business organisations
Q	specific Questionnaires (or surveys)
M	Model / Modelled
C	Confidential
EF - Emission Factors	
D	Default (EMEP Guidebook)
C	Confidential
CS	Country Specific
PS	Plant Specific data
M	Model / Modelled

The mining process emits relevant amounts of particles. Quarrying and mining of minerals other than coal is subsumed, in particular mining of limestone, hard rock and building sands. Information about the current relevance is shown in [2.A Mineral Industry](#)].

Methodology

With the use of the 2019 GB method ¹⁾, a Tier 2 method is available that can reflect different national conditions.

Since the GB tool in principle calculates emissions for exactly one year ²⁾, files must be available for exactly those years in which input data are available. Intermediate years are interpolated in case of data gaps.

With the help of the GB tools, IEFs are reported on an annual basis, which are used for the inventory method AR x EF. Thus the activity data are presented transparently and can be discussed with data suppliers. The emission factors can be modified if further information on the parameters of the GB-tool is available.

+ [Trend discussion](#) Trends in emissions follow the shrinking mining activities.

[gallery size="medium" viewer="yes" : EM_2A5a_since_1990.PNG](#) [gallery](#)

+ [Recalculations](#)

Recalculations were necessary due to revised AD and EF. Both the filled up AD and the moduled EF over time have resulted in higher emissions. [!-unsichtbar mit Code-Präfix und Suffix:No recalculation activities were necessary.-]

gallery size="medium" viewer="yes" : 2A5a_Recalculations_since_1990.PNG gallery



For pollutant-specific information on recalculated emission estimates for Base Year and 2018, please see the pollutant specific recalculation tables following [chapter 8.1 - Recalculations](#).

Planned improvements

At the moment, no category-specific improvements are planned.

[!- **FAQ** No comments!-]

+ [Short description - Salt Production](#) Salt production is a sub-category of the mining activities in respect of the country specific approach used. Currently, a Tier 1 method is used: information on production of salts are multiplied with emission factors for TSP and PM.

Method *Activity data* The data from national statistics includes production of potash and rock salt. Potash salt is dominating, nevertheless gaps of statistics are filled and emissions are modelled as potash salt only. *Emission factors* The emission factors are based on analogy to bulk product handling by an expert judgements from UBA:

Table 2: Overview of applied emission factors, in kg/t salt

~ pollutant	~ EF value	~ EF trend
TSP	= 0.031	= constant
PM ₁₀	= 0.016	= constant
PM _{2.5}	= 0.003	= constant

+ [Recalculations](#)

With **activity data** and **emission factors** remaining unrevised, no recalculations have been carried out compared to last year's submission. [!-unsichtbar mit Code-Präfix und Suffix-]

[!-

For more information on **recalculated emission estimates for Base Year and 2017**, please see the pollutant-specific recalculation tables following chapter [8.1 - Recalculations](#).

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+ [Planned improvements](#) At the moment, no category-specific improvements are planned.

[!- **FAQ** No comments! ... -]

[bibliography](#) : 1 : EMEP/EEA, 2019: EEA Report No 13/2019 EMEP EEA air pollutant emission inventory guidebook 2019, Copenhagen, 2019; URL: <https://www.eea.europa.eu/publications/emep-eea-guidebook-2019/part-b-sectoral-guidance-chapters/2-industrial-processes/2-a-mineral-products/2-a-5-a-quarrying/view> : 2 : EMEP/EEA, 2019: EEA Report No 13/2019 EMEP EEA air pollutant emission inventory guidebook 2019, Copenhagen, 2019; URL: <https://www.eea.europa.eu/publications/emep-eea-guidebook-2019/part-b-sectoral-guidance-chapters/2-industrial-processes/2-a-mineral-products/2-a-5-a-quarrying-1/view> [bibliography](#)

¹⁾ (bibcite 1)

²⁾ (bibcite 2)