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

Short description

Category Code	Method				AD					EF						
2.A.5.a	T1			1			NS			D						
Key Category	SO 2	NO×	NНз	NMVOC	CO	BC	Pb	Hg	Cd	Diox	PAH	HCB	TSP	PM 10	PM ₂	5
2.A.5.a	-	-	-	-	-	-	-	-	-	-	-	-	L/-	L/T	L/-	
T = key source b	y Tre	end L	. = k	ey source	e by	Lev	vel									
Methods																
D			Defau	Default												
RA			Refer	Reference Approach												
T1			Tier 1	Tier 1 / Simple Methodology *												
T2			Tier 2	Tier 2*												
Т3				Tier 3	Tier 3 / Detailed Methodology *											
C				CORI	CORINAIR											
CS C				Coun	Country Specific											
I	М			Mode	el											
* as described in chapters.	the	EME	P/CO	RINAIR EI	miss	sion	Inve	ento	ory (Guide	book	- 200)7, in	the g	roup	specific
AD - Data Sour	ce f	or Ao	ctivi	ty Data												
NS National Stat	istic	S														
RS Regional Statistics																
IS International			5													
PS Plant Specific																
AS Associations,			-		S											
Q specific ques	tion	naire	s, su	rveys												
EF - Emission F	acto	ors														
Default (EME	P Gu	idebo	ook)													
C Confidential																
CS Country Spec																
PS Plant Specific	: dat	a														

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.

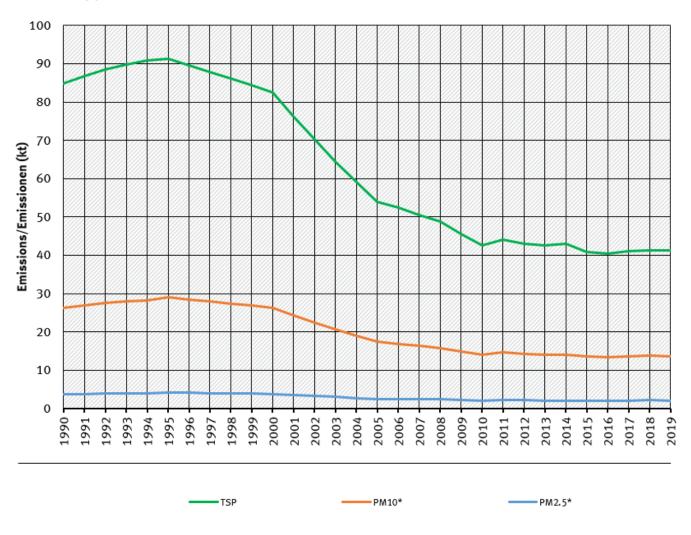
Since the GB tool in principle calculates emissions for exactly one year ²⁾, files must be available for exactly those years in which input data are available. Intermediate years are interpolated in case of data gaps.

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.

trends of emissions of Quarrying and mining of minerals other than coal



Emissions by pollutant / Emissionen nach Schadstoff

* Base Year for PM = 1995 / Basisjahr für

Feinstäube (PM) ist 1995

Emission trends in NFR 2.A.5.a

Recalculations

Recalculations were necessary due to minor revised AD for the last recent year.

Planned improvements

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

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
PM10		0.016	constant
PM2.5		0.003	constant

Planned improvements

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

https://www.eea.europa.eu/publications/emep-eea-guidebook-2019/part-b-sectoral-guidance-chapters

¹⁾ EMEP/EEA, 2019: EEA Report No 13/2019 EMEP EEA air pollutant emission inventory guidebook 2019, Copenhagen, 2019; URL:

/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