

1.A.2.f - Stationary Combustion in Manufacturing Industries and Construction: Non-Metallic Minerals

Short Description

Sub-category 1.A.2.f - *Non Ferrous Metals* refers to emissions from fuel consumption for burning processes in energy-intensive mineral industries.

Category Code	Method					AD					EF				
1.A.2.f	T1					NS					CS				
Key Category	SO ₂	NO _x	NH ₃	NMVOG	CO	BC	Pb	Hg	Cd	PCDD/F	PAH	HCB	TSP	PM ₁₀	PM _{2.5}
1.A.2.f	-/-	-/-	-/-	-/-	L/-	-	-	-	-	-	-	-	-/-	-	-

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

Methods	
D	Default
RA	Reference Approach
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/CORINAIR Emission Inventory Guidebook - 2007, 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, surveys
EF - Emission Factors	
D	Default (EMEP Guidebook)
C	Confidential
CS	Country Specific
PS	Plant Specific data



In order of significance relating energy use and emissions, the covered industries are:

- burning of cement clinker,
- burning of quicklime,
- melting of glass,
- burning of ceramics.

Method

Regarding the burning processes emissions can be allocated to the use of fuels or to the production process. Current allocation is regarding the main importance of the production process.

Activity data

The key source of all conventional fuel data is the national energy balance. Moreover the use of additional statistical data is necessary in order to disaggregate data. Data source for fuel inputs for energy-related process combustion in cement industry are manufacturing-sector statistics (Statistik des produzierenden Gewerbes); reporting number (Melde-Nr.) 23.51, Cement production. Furthermore the cement industry uses significant amounts of substitute fuels that do not appear in national statistics and in the Energy Balance. Relevant production figures and fuel-use amounts have been taken from statistics of the VDZ cement-industry association. The fuel-input data for ceramics production has also been taken from manufacturing industry statistics (Statistik des produzierenden Gewerbes); reporting no. (Melde-Nr.) 23.32, brickworks (Ziegelei), production of other construction ceramics. The same statistic is also used as source for fuel input of glass (reporting number: 23.1, Production of glass and glassware) and lime production (reporting number: 23.52, Lime).

Emissions

Due to allocating emissions to process part we have removed most of time series inconsistencies. The current situation is the following:

Table 1: relevance of emission sources regarding the fuel use due to burning processes in 1.A.2.f

	SO _x	NO _x	TSP	CO	NM VOC	NH ₃
cement	IE ¹	IE ¹	IE ²	medium	IE ¹	IE ¹
lime	IE ¹	IE ¹	IE ²	high	IE ¹	low
glass	IE ²	IE ¹	IE ²	low	IE ¹	IE ¹
ceramics	IE ³	IE ³	IE ¹	IE ¹	IE ¹	IE ¹

¹ Included in process related emissions, in all cases it is the link to complementary source category.

² Some artifacts occur for 1990 emissions that cannot be shifted.

³ Inclusion in process related emissions occurs from different time points onwards.

The entire appraisal of the emissions situation succeeds only in connection with the process related emissions. Especially further relevant pollutants as heavy metals or persistent organics are shown as process related generally.

Planned improvements

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

Recalculations





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

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