

2.C.5 - Lead Production

Short description

Within this NFR sub-category, SO₂, PM_{2.5}, PM₁₀, TSP, As, Cd, Hg, Pb, PCDD/F and PCB emissions from the production of lead are reported.

Category Code	Method					AD					EF				
2.C.5	T1					AS					D, CS				
Key Category	SO ₂	NO _x	NH ₃	NMVOC	CO	BC	Pb	Hg	Cd	Diox	PAH	HCB	TSP	PM ₁₀	PM _{2.5}
2.C.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Method

Activity data

The yearly production figures were taken from the annual statistical report of the German association for non-ferrous metals [\[Lit. 1\]](#).

Emission factors

The emission factors are either default values according to the 2016 EMEP/EEA air pollutant emission inventory guidebook [\[Lit. 2\]](#) or determined in several research projects. For heavy metals (HM), the applied emission factors are derived from [\[Lit. 3\]](#).

Table 1: Tier1 emission factors applied for primary lead production

Pollutant	EF	Unit	Trend	Source
SO ₂	2.050	kg/t	constant	
PM _{2.5}	0.0175	kg/t	falling	
PM ₁₀	0.02125	kg/t	falling	
TSP	0.025	kg/t	falling	
As	0.041179	g/t	falling	NE-K-G [Lit. 3]
Cd	0.019767	g/t	falling	NE-K-G [Lit. 3]
Hg	0.324515	g/t	falling	NE-K-G [Lit. 3]
Pb	4.506295	g/t	falling	NE-K-G [Lit. 3]
PCDD/F	0.34	µg/t	falling	

Recalculations

With activity data and emission factors remaining unrevised, no recalculations have been carried out compared to last year's submission.



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

No category-specific improvements are planned.

Bibliography

Lit. 1: German association for non-ferrous metals (WirtschaftsVereinigung Metalle): Annual statistical report:

<https://www.wvmetalle.de>

Lit. 2: EMEP/EEA, 2016: EMEP/EEA air pollutant emission inventory guidebook 2016, Copenhagen, 2016.

Lit. 3: Ökopol, IER, IZT, IfG: Bereitstellung einer qualitätsgesicherten Datengrundlage für die Emissionsberichterstattung zur Umsetzung von internationalen Luftreinhalte- und Klimaschutzvereinbarungen für ausgewählte Industriebranchen
Teilvorhaben 2: NE-Metallindustrie, Kalkindustrie, Gießereien.