

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.

Method	AD	EF	Key Category
T1	AS	D, CS	<i>no key category</i>

Methodology

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 entire time series

Pollutant	EF	Unit
SO ₂ ,	2.050	kg/t
PM _{2.5}	0.0175	kg/t
PM ₁₀	0.02125	kg/t
TSP	0.025	kg/t
As	0.041179	g/t
Cd	0.019767	g/t
Hg	0.324515	g/t
Pb	4.506295	g/t
PCDD/F	0.34	µg/t

Uncertainties

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.