

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 ¹⁾.

Emission factors

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

Table 1: Tier1 emission factors applied for entire time series

~ Pollutant	~ EF	~ Unit
SO _x	> 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

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](#) : 1: German association for non-ferrous metals (WirtschaftsVereinigung Metalle): Annual statistical report: <https://www.wvmetalle.de> : 2 : EMEP/EEA, 2016: EMEP/EEA air pollutant emission inventory guidebook 2016, Copenhagen, 2016. : 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. [bibliography](#)

¹⁾ (bibcite 1)

²⁾ (bibcite 2)

³⁾ (bibcite 3)