

2.C.6 - Zinc Production

Short description

Within this NFR sub-category, SO₂, PM_{2.5}, PM₁₀, TSP, As, Cd, Hg, Pb, Zn, PCDD/F, and PCB emissions from the production of zinc 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 or determined in several research projects. The EF for the heavy metals (HM) are taken from a research project ²⁾.

Table 1: Tier1 emission factors applied for entire time series

~ Pollutant	~ EF	~ Unit
SO ₂	> 1.35	kg/t
PM _{2.5}	> 0.0385	kg/t
PM ₁₀	> 0.0613	kg/t
TSP	> 0.100	kg/t
As	> 123.882	mg/t
Cd	> 1,085.046	mg/t
Hg	> 0.5	g/t
Pb	> 19,604.578	mg/t
Zn	> 51.968	mg/t
PCDD/F	> 0.15	µg/t

+ Recalculations

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

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For more information on **recalculated emission estimates for Base Year and 2017**, please see the pollutant-specific recalculation tables following chapter [8.1 - Recalculations](#).

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+ 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 : 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)