

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 2019 EMEP/EEA air pollutant emission inventory guidebook ²⁾ or determined in several research projects. The EF for the heavy metals (HM) are taken from a research project ³⁾.

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.

[!-

For more information on **recalculated emission estimates for Base Year and 2017**, 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 : Ökopoll, 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.

: 3 :

bibliography

¹⁾ (bibcite 1)

²⁾ (bibcite 2)

³⁾ (bibcite 3)