

## Short description

In Germany, aluminium is produced at four foundries, in electrolytic furnaces with pre-burnt anodes. The principal emission sources are resulting from fuel provided in the energy related processes.

<b>NFR Code</b>	<b>Method</b>	<b>AD</b>	<b>EF</b>
1.A.2.b	T2	NS	?
<b>Method(s) applied</b>			
<b>D</b>	Default		
<b>T1</b>	Tier 1 / Simple Methodology *		
<b>T2</b>	Tier 2*		
<b>T3</b>	Tier 3 / Detailed Methodology *		
<b>C</b>	CORINAIR		
<b>CS</b>	Country Specific		
<b>M</b>	Model		
* as described in the EMEP/EEA Emission Inventory Guidebook - 2019, in category chapters.			
<b>(source for) Activity Data</b>			
<b>NS</b>	National Statistics		
<b>RS</b>	Regional Statistics		
<b>IS</b>	International Statistics		
<b>PS</b>	Plant Specific		
<b>As</b>	Associations, business organisations		
<b>Q</b>	specific Questionnaires (or surveys)		
<b>M</b>	Model / Modelled		
<b>C</b>	Confidential		
<b>(source for) Emission Factors</b>			
<b>D</b>	Default (EMEP Guidebook)		
<b>CS</b>	Country Specific		
<b>PS</b>	Plant Specific		
<b>M</b>	Model / Modelled		
<b>C</b>	Confidential		

[illegible]

## Method

### Activity data

The source of the fuel inputs consists of the statistics for the manufacturing sector (Statistik 060 - Energieverwendung des produzierenden Gewerbes / energy use in the manufacturing sector), DESTATIS, reporting number 27.43 and 27.44, production and initial processing of lead, zinc and tin, production and initial processing of copper - and, for differentiations relative to heat and electricity production, Statistik 067 (DESTATIS).

Data for fuel consumption for production and initial processing of precious metals are also provided by these statistics.

### Emission factors

Reported pollutants are NO<sub>x</sub>, NMVOC, SO<sub>2</sub>, NH<sub>3</sub> and CO. Instead, all particulate matter emissions are reported as process emissions under 2.C.

The underlying data for the emission factors used is provided by the report on the research project "Ermittlung und Evaluierung von Emissionsfaktoren für Feuerungsanlagen in Deutschland für die Jahre 1995, 2000 und 2010" (Determination and evaluation of emission factors for combustion systems in Germany for the years 1995, 2000 and 2010"; RENTZ et al, 2002)<sup>1)</sup>. The values for the intermediate years 1996 - 1999 and 2001 - 2010 are obtained via linear interpolation; adjusted values for the following years.

## Recalculations

For the purpose of improving the data quality National Energy Balances for the years 2003 to 2021 have gone under revisions through fine-tuning of the computational models, consideration of new statistics or re-allocation of activity data, along with other revision mechanisms. These updates led to re-calculations in fuel uses in different sub-categories and in their corresponding emissions.



For **pollutant-specific information on recalculated emission estimates for Base Year and 2021**, please see the recalculation tables following [chapter 8.1 - Recalculations](#).

## Planned improvements

At the moment, no category specific improvements are planned.

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<sup>1)</sup> RENTZ et al., 2002: Rentz, O. ; Karl, U. ; Peter, H.: Ermittlung und Evaluierung von Emissionsfaktoren für Feuerungsanlagen in Deutschland für die Jahre 1995, 2000 und 2010: Forschungsbericht 299 43 142; Forschungsvorhaben im Auftrag des Umweltbundesamt; Endbericht; Karlsruhe: Deutsch-Französisches Inst. f. Umweltforschung, Univ. (TH); 2002