

## 2.A.2 - Lime Production

### Short description

Method	AD	EF	Key Category
T1	AS	CS	beyond the 80% level for all

**T** = key source by Trend **L** = key source by Level

Methods	
<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 the group specific chapters.

AD - Data Source for Activity Data	
<b>NS</b>	National Statistics
<b>RS</b>	Regional Statistics
<b>IS</b>	International Statistics
<b>PS</b>	Plant Specific data
<b>As</b>	Associations, business organisations
<b>Q</b>	specific Questionnaires (or surveys)
<b>M</b>	Model / Modelled
<b>C</b>	Confidential
EF - Emission Factors	
<b>D</b>	Default (EMEP Guidebook)
<b>C</b>	Confidential
<b>CS</b>	Country Specific
<b>PS</b>	Plant Specific data
<b>M</b>	Model / Modelled

The statements made below regarding source category 2.A.2 refer solely to the amounts of burnt lime and dolomite lime produced in German lime works. Other lime-producing processes are included in NFR 2.C.1 and 2.H.2.

Information about the key source relevance can be found in [2.A - Mineral Industry](#).

Because of the wide range of applications covered by the sector's products, lime production is normally more isolated from economic fluctuations than is production of other mineral products such as cement. Production has fluctuated relatively little since the end of the 1990s. Dolomite-lime production, of which significantly smaller amounts are produced, basically exhibits similar fluctuations.

### Methodology

The pertinent emissions level is obtained by multiplying the amount of product in question (quick lime or dolomite lime) and the relevant emission factor.

### Activity data

The German Lime Association (BVK) collects the production data for the entire time series on a plant-specific basis, and makes it available for reporting purposes. Production amounts are determined via several different concurrent procedures; their quality is thus adequately assured (Tier 2). Most companies are also required to report lime-production data within the

framework of CO<sub>2</sub>-emissions trading. The EU monitoring guidelines for emissions trading specify a maximum accuracy of 2.5 %. It is additionally assumed that 2 % of the burnt lime is separated as dust in all years of the reporting period from 1990 onwards via appropriate exhaust gas purification systems and is not returned to the production process. This is taken into account by a potential 2 % increase in activity rates.

## Emission factors

Table 1: Emission factors for quick-lime production

<b>pollutant</b>	<b>Name of Category</b>	<b>EF</b>	<b>unit</b>	<b>Trend</b>
<b>NO<sub>x</sub></b>	quicklime	0.61	kg/t	falling
<b>SO<sub>2</sub></b>	quicklime	0.12	kg/t	falling
<b>NM VOC</b>	quicklime	0.041	kg/t	constant
<b>TSP</b>	quicklime	0.055	kg/t	falling
<b>PM<sub>10</sub></b>	quicklime	0.043	kg/t	falling
<b>PM<sub>2.5</sub></b>	quicklime	0.025	kg/t	falling
<b>Hg</b>	quicklime	2.88	mg/t	falling

Table 2: Emission factors for dolomite production

<b>pollutant</b>	<b>Name of Category</b>	<b>EF</b>	<b>unit</b>	<b>Trend</b>
<b>NO<sub>x</sub></b>	dolomite	1.81	kg/t	falling
<b>SO<sub>2</sub></b>	dolomite	0.59	kg/t	falling
<b>NM VOC</b>	dolomite	0.041	kg/t	constant
<b>TSP</b>	dolomite	0.038	kg/t	falling
<b>PM<sub>10</sub></b>	dolomite	0.029	kg/t	falling
<b>PM<sub>2.5</sub></b>	dolomite	0.017	kg/t	falling
<b>Hg</b>	quicklime	2.94	mg/t	falling

## Trends in emissions

All trends in emissions correspond to trends of emission factors in table above. No rising trends are identified.

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### Emission trends in NFR 2.A.2

## Recalculations

Due to some corrections of AD since year 2013 small recalculations were necessary with respect of all pollutants.



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

At the moment, no category-specific improvements are planned.