

## 5.E.2 - Other Waste: Building and Car Fires

### Short description



For key source information please see the [Overview-chapter 5.E](#).

Within NFR 5.E.2 - Other Waste: Building and Car Fires, emissions from building and car fires are reported.

### Method

With a method for estimation the AD developed within a research project <sup>1)</sup>, and after publication of Tier2-EF within the EEA-Guidebook 2019 <sup>2)</sup>, a country-specific method is implemented and further developed. So now it is possible to estimate a full-scale-approach for all Buildings and the cars, additionally an estimation for waste container fires. In all cases only accidental fires are mentioned (including acts of vandalism).

### Activity data

Official population statistics for Germany are applied as primary activity data.

From these statistical input data, the number of fires is estimated via the following steps:

- specific values for number of fires per 1,000 inhabitants,
- differentiated according to building,
- vehicle and container fires,
- Determination of the number of relevant fires per year in Germany in total,
- Differentiation of the fires according to building and vehicle fires,
- Differentiation of fires according to fire scale,
- Differentiation of building fires by building category,
- Conversion of different fires per year to full-scale fires per year,
- Transfer of the results on the number of fires in the form of number of full-scale fires per year differentiated by fire categories.

In order to apply the emission factors available from the EMEP/EEA Guidebook, the annual number of building fires is differentiated for detached and undetached, apartment and industrial buildings.

Estimated shares per building category, for 2018:

<b>detached houses</b>	<b>undetached houses</b>	<b>appartement buildings</b>	<b>industrial buildings</b>
53%	13%	13%	20%

Estimated number of full-scale fires, per category, per 1,000 inhabitants, for 2018:

<b>detached houses</b>	<b>undetached houses</b>	<b>appartement buildings</b>	<b>industrial buildings</b>	<b>cars/ vehicles</b>	<b>containers</b>
0.02	0.05	0.05	0.08	0.18	0.15

<sup>1)</sup> Project leader Site: [https://oekopol.de/en/archiv-en/?doc=EN\\_720](https://oekopol.de/en/archiv-en/?doc=EN_720)

<sup>2)</sup>

<https://www.eea.europa.eu/publications/emep-eea-guidebook-2019/part-b-sectoral-guidance-chapters/5-waste/5-e-other-waste/view>