

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 ¹⁾, and after publication of Tier2-EF within the EEA-Guidebook 2019 ²⁾, 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:

detached houses	undetached houses	appartement buildings	industrial buildings
53%	13%	13%	20%

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

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

¹⁾ Project leader Site: https://oekopol.de/en/archiv-en/?doc=EN_720

²⁾ <https://www.eea.europa.eu/publications/emep-eea-guidebook-2019/part-b-sectoral-guidance-chapters/5-waste/5-e-other-waste/view>