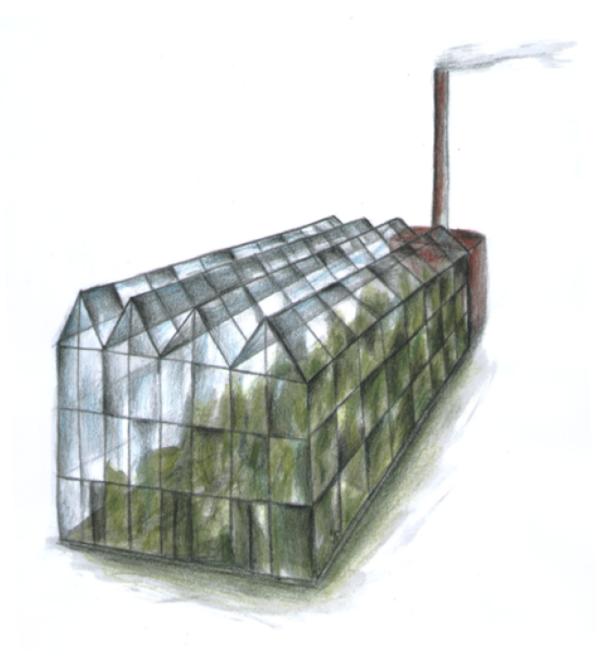
1.A.4.c.i - Agriculture/Forestry/Fishing: Stationary



Short description

In source category 1.A.4.c.i - Agriculture/Forestry/Fishing: Stationary emissions from smaller combustion plants in agricultural facilities and greenhouses are reported.

Method	AD	EF	Key Category		
T2, T3	NS	CS, D	T: PAH		

 \mathbf{T} = key source by Trend \mathbf{L} = key source by Level

Methods	
D	Default
RA	Reference Approach
T1	Tier 1 / Simple Methodology *

T2	Tie	er 2*				
Т3		Tier 3 / Detailed Methodology *				
С		CORINAIR				
CS		Country Specific				
M		Model				
* as described in the EMEP/CO	RINAIR Emis	ssion Inventory Guidebook - 2007, in the group specific chapters.				
AD - Data Source for Activi	ty Data					
NS National Statistics						
RS Regional Statistics						
IS International Statistics						
PS Plant Specific data						
AS Associations, business organisations						
Q specific questionnaires, su	rveys					
EF - Emission Factors						
Default (EMEP Guidebook)						
C Confidential						
Country Specific						
PS Plant Specific data						

Methodology

Activity data

For further information on activity data please refer to the superordinte chapter on small stationary combustion.

Emission factors

For further information on the emission factors applied please refer to the superordinte chapter on small stationary combustion.

= Pollutant	~ NO,,x,,	~ SO,,x,,	~ CO	~ NMVOC	~ TSP	~ PM,,10,,	~ PM,,2.5,,	~ PAH	~ PCDD/F
= Fuel						= [kg/TJ]	= [mg/TJ]	= [µg/TJ]	
~ Hard Coal	> 76.2	> 331.7	> 2,709	> 48.4	> 18.5	> 17.6	> 15.7	> 60,000	> 16.3
~ Residual Wood	> 79.2	> 6.5	> 2,285	> 122.1	> 84.2	> 81.6	> 76.9	> 430,000	> 355.3
~ Light Fuel Oil	> 43.7	> 3.3	> 11.9	> 2.6	> 1.0	> 1.0	> 1.0	> 160.7	> 2.7
~ Natural Gas	> 27.2	> 0.1	> 11.1	> 0.36	> 0.03	> 0.03	> 0.03	> 40	> 1.6

Table 1: Emission factors for commercial and institutional combustion installations

TSP and PM emission factors are to a large extend based on measurements without condensed compounds, according to CEN-TS 15883, annex I. PAH measurement data contain the following individual substances: Benzo(a)pyrene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(b)fluoranthene, Benzo(j)fluoranthene, Benzo(ghi)perylene, Anthracene, Benzo(a)anthracene, Chrysene(+Trihenylene) and Dibenz(a,h)anthracene, as a specific part of US EPA.

+ Trend Discussion for Key Sources

The following charts give an overview and assistance for explaining dominant emission trends of selected pollutants.

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Annual fluctuations of all fuel types in source category *1.A.4* depend on heat demand subject to winter temperatures. Between 1990 and 2014 the fuel use changed considerably from coal & lignite to natural gas. The consumption of light heating oil decreased as well. As the activity data for light heating oil is based on the sold amount, it fluctuates due to fuel prices and changing storage amounts.

Recalculations

Recalculations were necessary for the latest reference year (2017) due to the availability of the National Energy Balance. Germany has a federal structure which causes a time lack of the National Energy Balance. Therefore recalculations are always necessary. Further recalculations are the result of the revision of biomass from 2003 onwards.



For 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