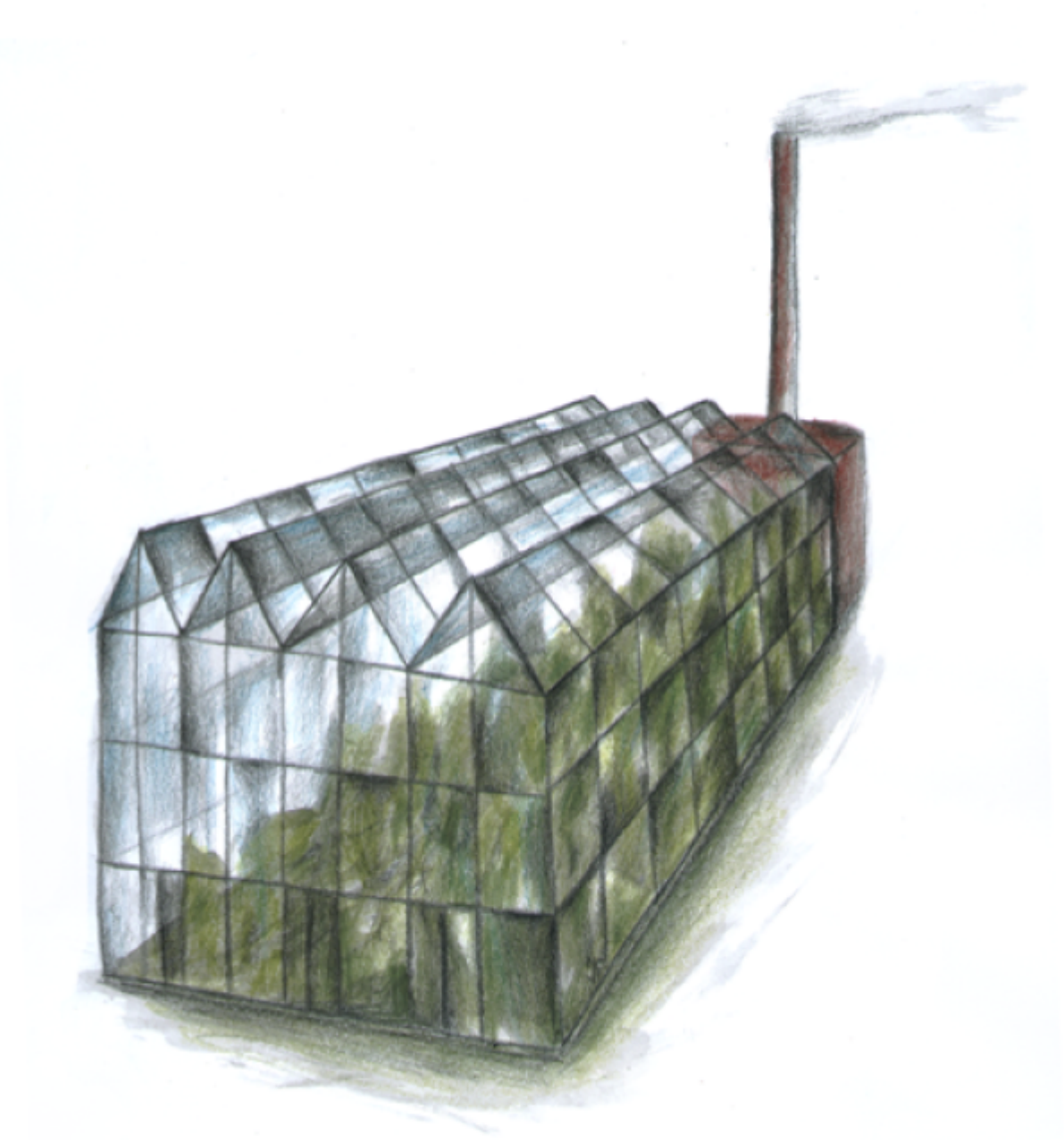
1.A.4.c.i - Agriculture/Forestry/Fishing: Stationary



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.

Category Code	Method					AD					EF				
1.A.4.c.i	T2, T3					NS					CS, D				
	NO_x	NMVOC	SO_2	NH_3	$PM_{2.5}$	PM_{10}	TSP	BC	CO	PB	Cd	Hg	Diox	PAH	HCB
Key Category:	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-

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

Methods	
D	Default

T1	Tier 1 / Simple Methodology *
T2	Tier 2*
T3	Tier 3 / Detailed Methodology *
C	CORINAIR
CS	Country Specific
M	Model

* as described in the EMEP/EEA Emission Inventory Guidebook - 2019, in the group specific chapters.

AD - Data Source for Activity Data	
NS	National Statistics
RS	Regional Statistics
IS	International Statistics
PS	Plant Specific data
As	Associations, business organisations
Q	specific Questionnaires (or surveys)
M	Model / Modelled
C	Confidential

EF - Emission Factors	
D	Default (EMEP Guidebook)
C	Confidential
CS	Country Specific
PS	Plant Specific data
M	Model / Modelled

Methodology

Activity data

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

Emission factors

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

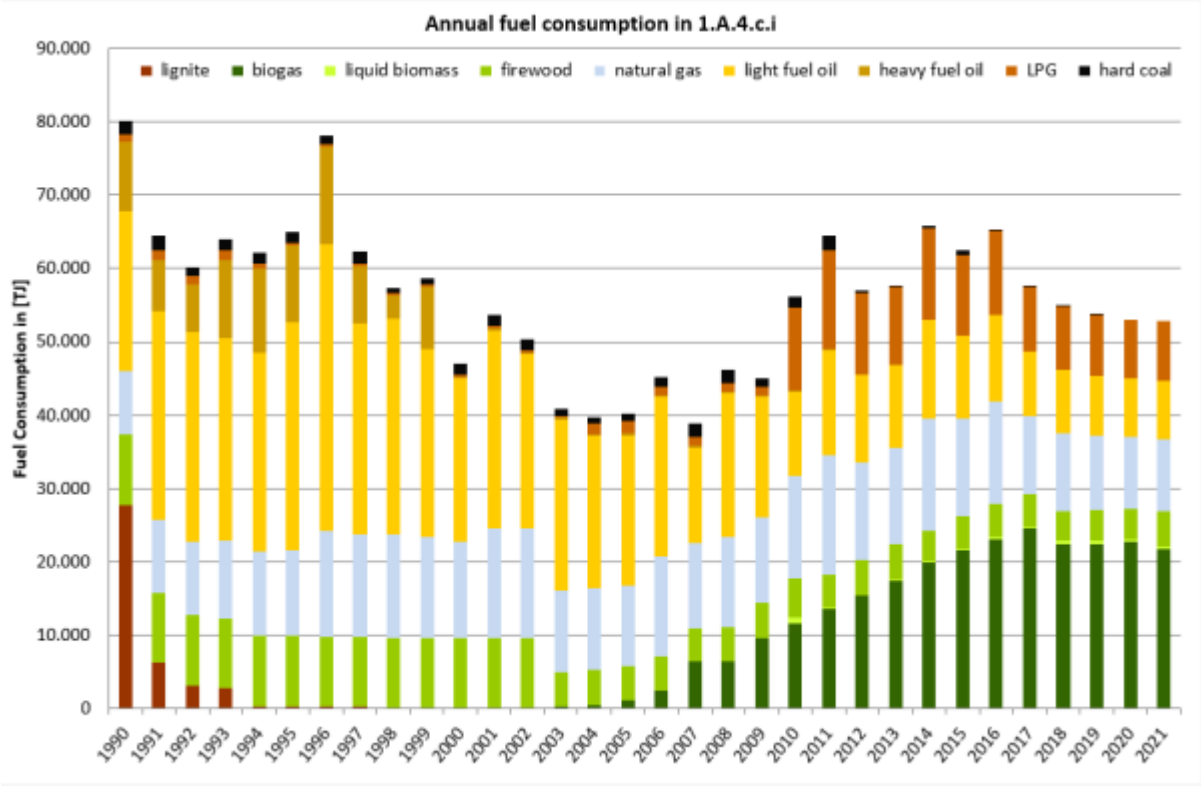
Table 1: Emission factors for commercial and institutional combustion installations

	NO_x	SO_x	CO	NMVOC	TSP	PM_{10}	$PM_{2.5}$	PAH	PCDD/F
	[kg/TJ]							Fuel	[kg/TJ]
Hard Coal	76.2	331.7	2,709	48.4	18.5	17.6	15.7	19,215	16.3
Residual Wood	79.2	6.5	2,285	122.1	84.2	81.6	76.9	144,957	355.3
Light Fuel Oil	43.7	3.3	11.9	2.6	1.0	1.0	1.0	20.10	2.7
Natural Gas	27.2	0.1	11.1	0.36	0.03	0.03	0.03	3.08	1.6

TSP and PM emission factors are to a large extend based on measurements without condensed compounds, according to CEN-TS 15883, annex I.

Trend Discussion for Key Sources

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



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 & biogas. 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 2020 due to the implementation of the now finalised National Energy Balance.

For **pollutant-specific information on recalculated emission estimates for Base Year and 2020**, please see the recalculation tables following chapter 8.1 - Recalculations.

Planned improvements

There is a running project on new emission factors for small combustion plants using updated data from the chimney sweepers and new measurement data.