1.A.2.e - Stationary Combustion in Manufacturing Industries and Construction: Food Processing, Beverages and Tobacco

Short description

Source category *1.A.2.e - Stationary Combustion in Manufacturing Industries and Construction: Food Processing, Beverages and Tobacco* includes emissions from process-combustion systems of the sugar industry. Emissions from CHP plants and steam boiler are reported under 1.A.2.g viii - Stationary Combustion in Manufacturing Industries and Construction: Other.

Category Code	**Method**					**AD**					**EF**				
1.A.2.e	T2					NS					CS				
	NO_x	**NMVOC**	**SO_2**	**NH_3**	**$PM_{2.5}$**	**PM_{10}**	**TSP**	**BC**	**CO**	**PB**	**Cd**	**Hg**	**Diox**	**PAH**	**HCB**
Key Category:	-/-	-/-	-/-	-/-	-	-	-	-	-/-	-	-	-	-	-	-

Method

Activity data

The source of the fuel inputs consists of the statistics for the manufacturing sector (Statistik 060 - Energieverwendung des produzierenden Gewerbes / energy use in the manufacturing sector), DESTATIS, reporting number 10.81, sugar production - and, for differentiations relative to heat and electricity production, Statistik 067 (DESTATIS).

Emission factors

Reported pollutants are NOx, NMVOC, SO_2, NH_3 and CO.

All particulate matter emissions are reported as process emissions under 2.H.2.

The underlying data used for the emission factors is provided by the report on the research project “Ermittlung und Evaluierung von Emissionsfaktoren für Feuerungsanlagen in Deutschland für die Jahre 1995, 2000 und 2010” (Determination and evaluation of emission factors for combustion systems in Germany for the years 1995, 2000 and 2010“; RENTZ et al, 2002) [1)].

The values for the intermediate years 1996-1999 and 2001-2010 are obtained via linear interpolation; adjusted values for the following years.

Recalculations

Recalculations were necessary for the latest reference year (2019) 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.

For specific information on recalculated emission estimates for Base Year and 2019, please see the pollutant specific recalculation tables following chapter 8.1 - Recalculations.

Planned improvements

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

[1)] RENTZ et al., 2002: Rentz, O. ; Karl, U. ; Peter, H.: Ermittlung und Evaluierung von Emissionsfaktoren für Feuerungsanlagen in Deutschland für die Jahre 1995, 2000 und 2010: Forschungsbericht 299 43 142; Forschungsvorhaben im Auftrag des Umweltbundesamt; Endbericht; Karlsruhe: Deutsch-Französisches Inst. f. Umweltforschung, Univ. (TH); 2002