2.H.2 - Food & Beverages Industry

Category Code	Method					AD					EF]
2.H.2		T1			NS					CS						
Key Category	SO 2	NO×	NH₃	NMVOC	CO	BC	Pb	Hg	Cd	Diox	PAH	HCB	TSP	PM10	PM2 5	i
2.H.2	-	-	-	-/-	-	-	-	-	-	-	-	-	-/-	-/-	-/-	
T = key source b	oy Tre	end L	. = ke	ey source	e by	Lev	el									
Methods																
	D				Defa	ault										
RA			Reference Approach													
	T1				Tier	1/	Sim	ple I	Metl	nodo	logy	*				
	Т2				Tier	2*										
	Т3							ailed	l Me	ethoo	lolog	/*				
C (COF	CORINAIR												
				Country Specific												
	м				Мос	-										
* as described in					niss	ion	Inve	entor	y G	uide	book	- 200	7, in	the g	roup s	pecific chapte
AD - Data Sour	ce f	or Ac	ctivit	ty Data												
NS National Stat		-														
RS Regional Statistics																
IS International Statistics																
PS Plant Specifi																
AS Associations			-		5											
Q specific ques			s, sur	rveys												
EF - Emission F																
D Default (EME	P Gu	idebo	ook)													
C Confidential																
CS Country Spec																
PS Plant Specific	c dat	а														

Emissions occurring in this sector in Germany derive from the following production processes which are analogous to the IPCC category (Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Reference Manual (Volume 3)):

Alcoholic beverages

- Wine
- Beer
- Spirits

Bread and other foods

- Meat, fish and poultry
- Sugar
- Margarine as well as hard and hardened fats
- Cake, cookies and breakfast cereals
- Bread
- Animal feedstuffs
- Coffee roasting

Following pollutants are reported:

- volatile organic compounds (NMVOC),
- particulate matter (PM2.5, PM10 and TSP).

Pursuant to the 1993 Classification of Economic Activities (WZ 93), the food and beverage industry is divided into nine groups and a total of 33 classes. Governmental statistical evaluations are oriented to this classification. The German food

industry includes an especially large number of small and medium-sized enterprises (SMEs); nearly 80 percent of its companies have fewer than 100 employees, and only 3 per cent have more than 500 employees (BpB, 2002, p.51).

Energy related emissions from the sugar industry are reported under category 1.A.2.e.

Methodology

Activity data

хх

Emission factors

Table 1: Overview of applied emission factors

Pollutant	Name of Category	EF	Unit	Trend
NOx	clinker burning	0.5	kg/t	falling
SO ₂	clinker burning	0.25	kg/t	falling
NMVOC	clinker burning	0.046	kg/t	constant
NH₃	clinker burning	0.044	kg/t	falling
Hg	clinker burning	0.022	g/t	falling
Pb	clinker burning	0.016	g/t	falling
Cd	clinker burning	0.004	g/t	falling
РСВ	clinker burning	28.0	μg/t	constant
PCDD	clinker burning	0.040	µg/t	constant
B(a)P	clinker burning	1.0	mg/t	constant
PAH	clinker burning	240	mg/t	constant
TSP	clinker grinding	0.046	kg/t	falling
PM 10	clinker grinding	0.041	kg/t	falling
PM2.5	clinker grinding	0.037	kg/t	falling

Trends in emissions

Emissions of the food and drink industry are reported, in summary form, in the inventory in of the sectoral report for industrial processes. Emissions in detail for the resp. products are presented following Pictures . All trends in emissions correspond to trends of emission factors in table above. No rising trends are to identify.

Invalid Link Emission trends in NFR 2.H.2

Recalculations

With **activity data** and **emission factors** remaining unrevised, no recalculations have been carried out compared to last year's submission.



For pollutant-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

For purposes of updating the EF project has started in 2020, but results are planned not before 2021 $^{1)}$.

¹⁾ ReFoPlan FKZ – xx: "yy"