2.D.3.b - Road Paving

Short description

Category Code	Method					AD					EF				
2.D.3.b			1				AS				CS				
Key Category	SO2	NO×	NНз	NMVOC	CO	BC	Pb	Hg	Cd	Diox	PAH	HCB	TSP	PM 10	PM2 5
2.D.3.b	-/-	-/-	-	-/-	-	-	-	-	-	-	-	-	-/-	-/-	-/-
T = key source b	y Tre	end L	. = k	ey source	e by	Lev	vel								
Methods															
D			Defa	Default											
RA			Refer	Reference Approach											
T1			Tier 1	Tier 1 / Simple Methodology *											
T2			Tier 2	Tier 2*											
Т3			Tier 3	Tier 3 / Detailed Methodology *											
С				CORI	CORINAIR										
CS				Coun	Country Specific										
M Mod				Mode	el										
* as described in chapters.	the	EME	P/CO	RINAIR EI	miss	sion	Inv	ento	ory	Guide	ebook	- 200)7, in	the g	roup s
AD - Data Sour	ce f	or A	ctivi	ty Data											
NS National Statistics															
RS Regional Statistics															
IS International Statistics															
PS Plant Specific data															
AS Associations, business organisations															
Q specific ques			s, su	rveys											
EF - Emission F	acto	ors													
D Default (EME	P Gu	ideb	ook)												
C Confidential															
CS Country Spec															
Plant Specific	: dat	а													

Currently, the report tables list produced quantities of mixed asphalt products (from stationary installations only) and NMVOC, NOx and SO2 emissions caused of this. Only emissions from asphalt production are reported. Figures relative to emissions released during laying of asphalt have not been examined.

Method

Activity data

The applicable quantity of mixed asphalt products produced (activity rate) has been taken from communications of the Deutscher Asphaltverband (DAV; German asphalt association). In total about 660 asphalt-mixing plants produce more than 40 Million tonnes of hot-mix for road paving ¹⁾.

Emission factors

Emission factors have been determined country-specifically, pursuant to Tier 2. For determination of emission factors for emissions measurements from over 400 asphalt-mixing plants, made during the period 1989 through 2000, were used. The majority of the emissions occur during drying of pertinent mineral substances. Almost all of the NMVOC emissions originate in the organic raw materials used, and they are released primarily in parallel-drum operation, as well as from mixers and loading areas. On average, about 50% of the NOx and SO_x involved come from the mineral substances (proportional process emissions). CO emissions are calculated solely in connection with fuel inputs.

Table 1: Overview of applied emission factors, in kg/t

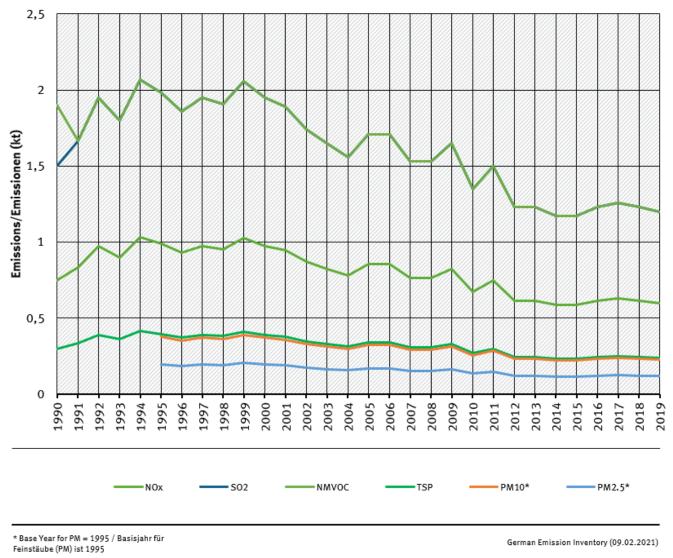
pollutant	Name of Category	EF value	EF trend
NMVOC	Production of mixed asphalt	0.030	constant
NOx	Production of mixed asphalt	0.015	constant
SOx	Production of mixed asphalt	0.030	constant
TSP	Production of mixed asphalt	0.006	constant
PM 10	Production of mixed asphalt	0.0057	constant
PM2.5	Production of mixed asphalt	0.003	constant

Trends in emissions

All trends in emissions correspond to trends of production amount. No rising trends are to identify.

trends of emissions of road paving

Emissions by pollutant / Emissionen nach Schadstoff



Emission trends of road paving

Recalculations

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

Planned improvements

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

¹⁾ https://www.asphalt.de/themen/umwelt/