2.D.3.b - Road Paving

Short description

Category Code	2	Method				AD						EF					
2.D.3.b	T1						AS					CS					
	NO,	NMVOC	SO ₂	NH3	PM _{2.5}	PM ₁₀	TSP	BC	CO	Pb	Cd	Hg	Dio	x P/	۱H	нсв	
Key Category:	-/-	-/-	-/-	-	-/-	-/-	-/-	-	-	-	-	-	-		-	-	
T = key source	by Tr	end $L = k$	æy s	ource	e by L	evel											
Methods																	
	D			_	fault												
T1					Tier 1 / Simple Methodology *												
T2				Tier 2*													
	Т3				Tier 3 / Detailed Methodology *												
	С			_	RINAI												
	CS				untry	Speci	fic										
	M				odel		<u> </u>									•	
* as described					on Inve	entory	Guic	lebo	ook -	20	19,	in t	he g	roup	o sp	becifi	
AD - Data Sou			ty D	ata													
NS National Sta					_												
RS Regional St					-												
IS Internationa					_												
PS Plant Specif			anic	+:	_												
As Association Q specific Que		-			-												
M Model / Mod			Sur	veys,	<u>'</u>												
C Confidentia					-												
EF - Emission		ore															
D Default (EM																	
C Confidentia		IIUEDOOK)															
CS Country Spe																	
PS Plant Specif		2															
M Model / Mod		a															
	eneu																

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 most recently 38 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 for production of mixed asphalt, in [kg/t]

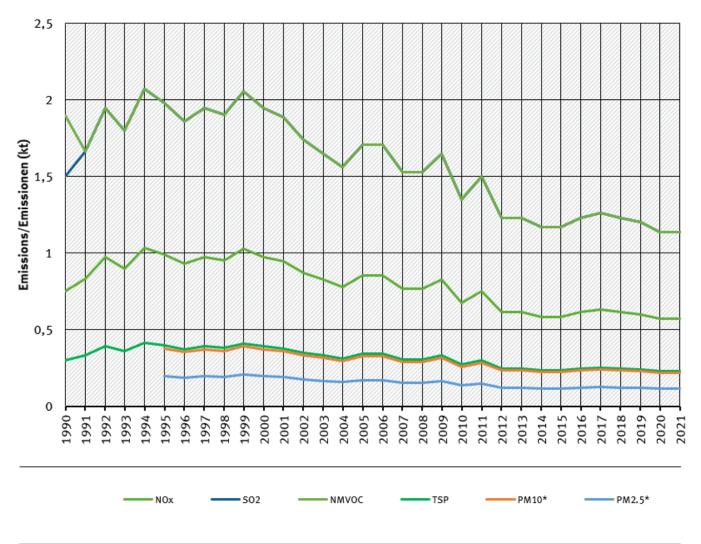
	EF value	EF trend
NMVOC	0.030	constant
NO _x	0.015	constant
SO _x	0.030	constant
TSP	0.006	constant
PM ₁₀	0.0057	constant
PM _{2.5}	0.003	constant

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.



For **pollutant-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⁾ https://www.asphalt.de/themen/aktuelles/