

## Norway

### *Description of available information*

In spite of not being a member state of the European Union Norway was included as a country of interest in this European survey in order to complete the (industrialised) Scandinavian region. The Norwegian Pollution Control Authority responded to the information request by submitting a table containing 1995 emission or discharge data for the main sources known. This table solely contains annual emission estimates that presumably are based on measurements. Besides emissions to air also discharges to water are mentioned for some source types.

From these data it follows that the metallurgical industry is the most important sector with respect to PCDD/F emissions. Again, iron ore sintering is the largest source generating more than 80% of the annual total that is calculated to be 45 g I-TEQ/a. However, some sectors, for example energy generation and industrial combustion, domestic heating, fires, etc. have not been regarded; thus the emission estimate must be considered as a lower limit. On basis of the available data no statement on the possible range or on the uncertainties could be made.

CORINAIR SNAP	ITEM	Emission estimates g I-TEQ/a		
		typ	min	max
	SUM	44.9	nd	nd
01	Combustion in Energy Production and Energy Transformation	nd	nd	nd
02	Combustion in Commercial, Residential...	nd	nd	nd
03	Combustion in Industry	37.3	nd	nd
04	Production Processes	4.8	nd	nd
05	Extraction and Distribution of Fossil Fuels	nd	nd	nd
06	Solvent and Other Product USE	nd	nd	nd
07	Road Transport	nd	nd	nd
08	Other Mobile Sources and Machinery	nd	nd	nd
09	Waste Treatment and Disposal	2.8	nd	nd
10	Agriculture, Forestry, Land use change	nd	nd	nd
11	Nature	nd	nd	nd
12	Fires	nd	nd	nd

**N: Annual PCDD/F AIR emissions (nd: no data available)**

Following, the table delivered from Norway is reproduced after addition of the respective SNAP-Codes.

Snap code	Item	Annual emissions	
		to air	to water
03 03 01	Sinter plant	37	
03 03 10	Sec. Aluminium	0.1	
03 03 11	Cement prod.	0.2	
04 03 01	Prim. aluminium	low, no data yet	
04 03 04	Magnesium prod.	3.5	1.6
04 03 02	Ferrosilicon prod.	1.3	
04 03 05	Nickel prod.		0.2
04 05 01	Vinylchloride prod.	0.002	0.095
09 02 01	Municipal waste incinerators	2.6	
09 02 07	Hospital waste incinerators	0.09	
09 09 09	Cremation plants	0.03- 0.23	
TOTAL (rounded)		45	2

**N: Survey on the available information**