

Annex 13: EPER- European Polluting Emissions Register for the cement industry

Activity code:	3.1/3.3/3.4/3.5 - Installations for the production of cement klinker (>500t/d), lime (>50t/d), glass (>20t/d), mineral substances (>20t/d) or ceramic products (>75t/d)
Area:	EU
Year:	2001
Pollutants:	31
Facilities:	665

Total emission values for activity grouped by pollutant:

Pollutant	To air (kg)	Direct to water (kg)	Indirect to water (kg)
Methane, CH4	1,151,000.00	-	-
Carbon monoxide, CO	277,250,000.00	-	-
Carbon dioxide, CO2	142,011,000,000.00	-	-
Dinitrogenoxide (N2O)	136,500.00	-	-
Ammonia, NH3	3,450,600.00	-	-
Non methane volatile organic compounds (NMVOC)	6,228,000.00	-	-
Nitrogen oxides, NOx	427,178,000.00	-	-
Sulfur oxides (SOx)	145,486,000.00	-	-
Nitrogen, total	-	216,000.00	-
Phosphorus, total	-	5,180.00	8,640.00
Arsenic and its compounds	5,038.20	4,156.10	17.50
Cadmium and its compounds	2,829.90	242.24	-
Chromium and its compounds	11,872.00	8,091.30	-
Copper and its compounds	5,895.00	2,870.00	-
Mercury and its compounds	2,889.90	76.30	-
Nickel and its compounds	14,287.00	7,438.50	-
Lead and its compounds	44,373.00	3,700.60	219.90
Zinc and its compounds	35,190.00	8,155.00	2,358.00
Dichloromethane (DCM)	158,490.00	-	-
Dioxines and furans (PCDDs and PCDFs)	0.0322	-	-
Trichloroethylene (TRI)	3,180.00	-	-
Benzene	126,070.00	-	-
Polycyclic Aromatic Hydrocarbons (PAH)	7,970.30	-	-
Phenols	-	246.00	1,775.00
Total Organic Carbon (TOC)	-	282,000.00	358,700.00
Chlorides	-	781,000,000.00	-
Chlorine and inorganic compounds (as HCl)	1,956,000.00	-	-
Cyanides, total CN	-	204.00	-
Fluorides	-	11,750.00	-
Fluorine and inorganic compounds (as hydrogen fluoride)	1,541,883.00	-	-
PM10 (Particulate matter less than 10 µm)	19,290,000.00	-	-

Countries included in report:

Country	Pollutants	Facilities
Austria	9	16
Belgium	20	32
Denmark	8	6
Finland	15	15
France	25	99
Germany	21	116
Greece	10	21
Ireland	4	5
Italy	17	110
Luxembourg	5	3
Netherlands	7	5
Portugal	18	23
Spain	22	141
Sweden	7	6
United Kingdom	23	67
EU	31	665