

AUSTRIA'S NATIONAL EPER OVERVIEW REPORT 2003

Submission under Article 1 para. 4 of Commission Decision
2000/479/EC on the Implementation of a
European Pollutant Emission Register (EPER)

Note

The following tables represent Austria's overview report under Commission Decision 2000/479/EC on the implementation of a European Pollutant Emission Register (EPER).

These tables include summaries of reported emissions of all facilities available to the UMWELTBUNDESAMT (Austrian Federal Environmental Agency) by 10th September 2003. The facility reports include emissions to air and water for all pollutants for which the threshold values given in the EPER Decision are exceeded.

All facility reports, except those from landfills, have been checked against plausibility by the local authorities and against completeness and consistency by the UMWELTBUNDESAMT.

The format of the tables presented follows chapter 11 of the EU Guidance Document for EPER implementation, European Commission, November 2000. These tables include National EPER-Totals of all pollutants (table 1 on page 2), National EPER-Totals for all main Annex I activities (table 2 on page 3ff), and National EPER-Total for all main NOSE-P codes (table 3 on page 10ff).

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Pollutant	Total	To air	Direct to water	Indirect to water	Unit
CO2	26.777.000.000,00	26.777.000.000,00			Kg/a
Chlorides	167.630.000,00		160.010.000,00	7.620.000,00	Kg/a
CO	155.615.000,00	155.615.000,00			Kg/a
CH4	34.238.000,00	34.238.000,00			Kg/a
NOx	21.959.000,00	21.959.000,00			Kg/a
Total organic carbon (TOC)	15.543.100,00		8.360.000,00	7.183.100,00	Kg/a
SOx	12.321.000,00	12.321.000,00			Kg/a
NM VOC	3.938.000,00	3.938.000,00			Kg/a
N2O	2.551.900,00	2.551.900,00			Kg/a
Total - Nitrogen	2.395.600,00		1.134.900,00	1.260.700,00	Kg/a
PM10	1.534.600,00	1.534.600,00			Kg/a
Chlorine and inorganic compounds	248.400,00	248.400,00			Kg/a
Phenols	229.384,50		1.366,00	228.018,50	Kg/a
NH3	180.600,00	180.600,00			Kg/a
Total - Phosphorus	173.000,00		59.800,00	113.200,00	Kg/a
Halogenated organic compounds	101.160,00		86.220,00	14.940,00	Kg/a
Fluorides	57.960,00		47.460,00	10.500,00	Kg/a
Zn and compounds	51.171,00	26.539,00	23.107,00	1.525,00	Kg/a
Cyanides	25.153,30		853,30	24.300,00	Kg/a
Fluorine and inorganic compounds	24.600,00	24.600,00			Kg/a
Benzene	9.090,00	9.090,00			Kg/a
Pb and compounds	6.488,40	4.721,00	1.618,00	149,40	Kg/a
Cu and compounds	4.337,90	130,00	3.198,90	1.009,00	Kg/a
HCN	3.170,00	3.170,00			Kg/a
Cr and compounds	2.540,40	727,00	1.663,40	150,00	Kg/a
Dichloroethane-1,2 (DCE)	2.300,00	2.300,00			Kg/a
Ni and compounds	2.135,00	486,00	1.123,40	525,60	Kg/a
Benzene, toluene, ethylbenzene, xylenes	1.440,00	0,00	775,00	665,00	Kg/a
Hg and compounds	817,10	717,10	100,00	0,00	Kg/a
Polycyclic Aromatic Hydrocarbons	207,00	207,00			Kg/a
Cd and compounds	145,80	56,90	73,00	15,90	Kg/a
As and compounds	31,90		31,90	0,00	Kg/a
Dichloromethane (DCM)	21,60		0,00	21,60	Kg/a
PCDD+PCDF (dioxins+furans)	0,00136	0,00136			Kg/a

Table 1: National EPER-Totals of all pollutants

IPPC Main Annex I Activity
1.1 Combustion installations > 50 MW

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
101.01	CO2	7.474.000.000,00	7.474.000.000,00	0,00	0,00	Kg/a
101.02	CO2	1.141.000.000,00	1.141.000.000,00	0,00	0,00	Kg/a
101.04	CO2	253.000.000,00	253.000.000,00	0,00	0,00	Kg/a
101.01	NOx	4.246.000,00	4.246.000,00	0,00	0,00	Kg/a
101.01	SOx	2.350.000,00	2.350.000,00	0,00	0,00	Kg/a
101.01	CO	851.000,00	851.000,00	0,00	0,00	Kg/a
101.02	NOx	798.000,00	798.000,00	0,00	0,00	Kg/a
101.04	NOx	117.000,00	117.000,00	0,00	0,00	Kg/a
101.01	PM10	61.500,00	61.500,00	0,00	0,00	Kg/a
101.01	Fluorine and inorganic compounds	24.600,00	24.600,00	0,00	0,00	Kg/a
101.01	N2O	21.900,00	21.900,00	0,00	0,00	Kg/a
101.01	Cu and compounds	2.311,00	130,00	2.181,00	0,00	Kg/a
101.01	Zn and compounds	866,00	277,00	589,00	0,00	Kg/a
101.02	Cu and compounds	111,00	0,00	111,00	0,00	Kg/a
101.01	Hg and compounds	81,00	81,00	0,00	0,00	Kg/a
101.01	As and compounds	14,00	0,00	14,00	0,00	Kg/a

IPPC Main Annex I Activity
1.2 Mineral oil and gas refineries

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
105.08	CO2	2.560.000.000,00	2.560.000.000,00	0,00	0,00	Kg/a
105.08	SOx	3.690.000,00	3.690.000,00	0,00	0,00	Kg/a
105.08	NOx	3.430.000,00	3.430.000,00	0,00	0,00	Kg/a
105.08	Chlorides	3.110.000,00	0,00	3.110.000,00	0,00	Kg/a
105.08	NM VOC	1.380.000,00	1.380.000,00	0,00	0,00	Kg/a
105.08	CO	721.000,00	721.000,00	0,00	0,00	Kg/a
105.08	PM10	107.000,00	107.000,00	0,00	0,00	Kg/a
105.08	Total organic carbon (TOC)	73.200,00	0,00	73.200,00	0,00	Kg/a
105.08	Total - Nitrogen	72.900,00	0,00	72.900,00	0,00	Kg/a
105.08	Total - Phosphorus	6.700,00	0,00	6.700,00	0,00	Kg/a
105.08	Zn and compounds	2.220,00	0,00	2.220,00	0,00	Kg/a
105.08	Phenols	328,00	0,00	328,00	0,00	Kg/a
105.08	Ni and compounds	255,00	0,00	255,00	0,00	Kg/a
105.08	Cu and compounds	219,00	0,00	219,00	0,00	Kg/a
105.08	As and compounds	10,90	0,00	10,90	0,00	Kg/a

Table 2: National EPER-Total of the reported emissions for all main Annex I activities

IPPC Main Annex I Activity
2.1/2.2/ Metal industry and metal ore roasting or sintering installations; Installations for the production of ferrous and non-ferrous metals
2.3/2.4/
2.5/2.6

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
104.12	CO2	8.550.000.000,00	8.550.000.000,00	0,00	0,00	Kg/a
104.12	CO	140.600.000,00	140.600.000,00	0,00	0,00	Kg/a
104.12	SOx	4.935.000,00	4.935.000,00	0,00	0,00	Kg/a
104.12	NOx	4.310.000,00	4.310.000,00	0,00	0,00	Kg/a
104.12	PM10	1.290.000,00	1.290.000,00	0,00	0,00	Kg/a
104.12	Total organic carbon (TOC)	655.300,00	0,00	287.300,00	368.000,00	Kg/a
104.12	Phenols	227.363,00	0,00	363,00	227.000,00	Kg/a
104.12	Total - Nitrogen	227.000,00	0,00	0,00	227.000,00	Kg/a
104.12	Chlorine and inorganic compounds	210.000,00	210.000,00	0,00	0,00	Kg/a
104.12	Fluorides	37.700,00	0,00	27.200,00	10.500,00	Kg/a
104.12	Zn and compounds	36.261,00	24.101,00	11.698,00	462,00	Kg/a
104.12	Cyanides	24.753,30	0,00	453,30	24.300,00	Kg/a
104.12	Pb and compounds	6.238,00	4.721,00	1.460,00	57,00	Kg/a
104.12	Benzene	3.880,00	3.880,00	0,00	0,00	Kg/a
104.12	Cr and compounds	1.941,00	727,00	1.214,00	0,00	Kg/a
104.12	HCN	1.650,00	1.650,00	0,00	0,00	Kg/a
104.12	Ni and compounds	816,00	486,00	330,00	0,00	Kg/a
104.12	Hg and compounds	471,00	471,00	0,00	0,00	Kg/a
104.12	Cu and compounds	301,00	0,00	301,00	0,00	Kg/a
104.12	Polycyclic Aromatic Hydrocarbons	207,00	207,00	0,00	0,00	Kg/a
104.12	Cd and compounds	56,90	56,90	0,00	0,00	Kg/a
104.12	PCDD+PCDF (dioxins+furans)	0,00	0,00	0,00	0,00	Kg/a
105.01	Total organic carbon (TOC)	106.000,00	0,00	0,00	106.000,00	Kg/a
105.01	Fluorides	2.930,00	0,00	2.930,00	0,00	Kg/a
105.01	HCN	1.520,00	1.520,00	0,00	0,00	Kg/a
105.01	Cu and compounds	669,00	0,00	69,00	600,00	Kg/a
105.01	Ni and compounds	272,30	0,00	23,20	249,10	Kg/a
105.01	Zn and compounds	200,00	0,00	0,00	200,00	Kg/a
105.12	Total organic carbon (TOC)	51.600,00	0,00	0,00	51.600,00	Kg/a

Table 2: National EPER-Total of the reported emissions for all main Annex I activities

IPPC Main Annex I Activity**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)****3.4/3.5**

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
104.11	CO2	2.925.000.000,00	2.925.000.000,00	0,00	0,00	Kg/a
104.11	CO	8.940.000,00	8.940.000,00	0,00	0,00	Kg/a
104.11	NOx	5.014.000,00	5.014.000,00	0,00	0,00	Kg/a
104.11	SOx	477.000,00	477.000,00	0,00	0,00	Kg/a
104.11	NH3	66.700,00	66.700,00	0,00	0,00	Kg/a
104.11	Benzene	5.210,00	5.210,00	0,00	0,00	Kg/a
104.11	Fluorides	2.310,00	0,00	2.310,00	0,00	Kg/a
104.11	Hg and compounds	120,90	120,90	0,00	0,00	Kg/a
104.11	Pb and compounds	31,00	0,00	0,00	31,00	Kg/a

IPPC Main Annex I Activity**4.1 Basic organic chemicals**

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
105.09	Chlorides	4.740.000,00	0,00	0,00	4.740.000,00	Kg/a
105.09	CO	3.870.000,00	3.870.000,00	0,00	0,00	Kg/a
105.09	Total organic carbon (TOC)	1.560.000,00	0,00	150.000,00	1.410.000,00	Kg/a
105.09	Total - Nitrogen	756.000,00	0,00	0,00	756.000,00	Kg/a
105.09	NM VOC	492.000,00	492.000,00	0,00	0,00	Kg/a
105.09	Total - Phosphorus	84.700,00	0,00	0,00	84.700,00	Kg/a
105.09	Halogenated organic compounds	10.200,00	0,00	0,00	10.200,00	Kg/a
105.09	Benzene, toluene, ethylbenzene, xylenes	1.075,00	0,00	775,00	300,00	Kg/a
105.09	Phenols	775,00	0,00	675,00	100,00	Kg/a
105.09	Zn and compounds	430,00	0,00	0,00	430,00	Kg/a
105.09	Ni and compounds	200,00	0,00	0,00	200,00	Kg/a
105.09	Cr and compounds	150,00	0,00	0,00	150,00	Kg/a
105.09	Cu and compounds	150,00	0,00	0,00	150,00	Kg/a
107.03	Phenols	880,00	0,00	0,00	880,00	Kg/a

IPPC Main Annex I Activity
4.2/4.3 Basic inorganic chemicals or fertilisers

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
105.09	CO2	749.000.000,00	749.000.000,00	0,00	0,00	Kg/a
105.09	Chlorides	149.000.000,00	0,00	149.000.000,00	0,00	Kg/a
105.09	N2O	2.530.000,00	2.530.000,00	0,00	0,00	Kg/a
105.09	Total - Nitrogen	1.062.000,00	0,00	1.062.000,00	0,00	Kg/a
105.09	NOx	830.000,00	830.000,00	0,00	0,00	Kg/a
105.09	SOx	206.000,00	206.000,00	0,00	0,00	Kg/a
105.09	Total organic carbon (TOC)	201.000,00	0,00	201.000,00	0,00	Kg/a
105.09	NH3	59.900,00	59.900,00	0,00	0,00	Kg/a
105.09	Chlorine and inorganic compounds	27.500,00	27.500,00	0,00	0,00	Kg/a
105.09	Total - Phosphorus	24.300,00	0,00	24.300,00	0,00	Kg/a
105.09	Fluorides	4.680,00	0,00	4.680,00	0,00	Kg/a
105.09	Zn and compounds	1.950,00	1.950,00	0,00	0,00	Kg/a
105.09	Cyanides	400,00	0,00	400,00	0,00	Kg/a
105.09	Hg and compounds	100,00	0,00	100,00	0,00	Kg/a
105.09	Cd and compounds	50,00	0,00	50,00	0,00	Kg/a

IPPC Main Annex I Activity
4.4/4.6 Biocides and explosives

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
105.09	Chlorides	2.880.000,00	0,00	0,00	2.880.000,00	Kg/a
105.09	Total organic carbon (TOC)	147.000,00	0,00	0,00	147.000,00	Kg/a
105.09	Halogenated organic compounds	4.740,00	0,00	0,00	4.740,00	Kg/a
105.09	Dichloroethane-1,2 (DCE)	2.300,00	2.300,00	0,00	0,00	Kg/a
105.09	Benzene, toluene, ethylbenzene, xylenes	365,00	0,00	0,00	365,00	Kg/a

IPPC Main Annex I Activity
4.5 Pharmaceutical products

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
107.03	Total organic carbon (TOC)	301.000,00	0,00	0,00	301.000,00	Kg/a
107.03	Dichloromethane (DCM)	21,60	0,00	0,00	21,60	Kg/a

IPPC Main Annex I Activity
5.1/5.2 Installations for the disposal or recovery of hazardous waste (>10t/d) or municipal waste (>3t/h)

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
109.03	CO2	611.000.000,00	611.000.000,00	0,00	0,00	Kg/a
109.03	NOx	128.000,00	128.000,00	0,00	0,00	Kg/a
109.03	Zn and compounds	211,00	211,00	0,00	0,00	Kg/a
109.03	Hg and compounds	44,20	44,20	0,00	0,00	Kg/a
109.07	Phenols	38,50	0,00	0,00	38,50	Kg/a

IPPC Main Annex I Activity
5.3/5.4 Installations for the disposal of nonhazardous waste (>50t/d) and landfills (>10t/d)

NOSE-P code	Pollutant	National Total	To air *	Direct to water	Indirect to water	Unit
109.06	CH4	33.604.000,00	33.604.000,00	0,00	0,00	Kg/a
109.06	Chlorides	3.420.000,00	0,00	3.420.000,00	0,00	Kg/a
109.06	Total organic carbon (TOC)	694.500,00	0,00	474.000,00	220.500,00	Kg/a
109.06	Total - Nitrogen	103.400,00	0,00	0,00	103.400,00	Kg/a
109.06	Fluorides	8.210,00	0,00	8.210,00	0,00	Kg/a
109.06	Halogenated organic compounds	3.420,00	0,00	3.420,00	0,00	Kg/a
109.06	Zn and compounds	3.326,00	0,00	3.210,00	116,00	Kg/a
109.06	Ni and compounds	115,80	0,00	115,80	0,00	Kg/a
109.06	Pb and compounds	31,60	0,00	0,00	31,60	Kg/a
109.06	As and compounds	7,00	0,00	7,00	0,00	Kg/a
109.07	CH4	274.000,00	274.000,00	0,00	0,00	Kg/a
109.07	Total - Nitrogen	82.000,00	0,00	0,00	82.000,00	Kg/a

*) Data not consistent with Austria's Submission 2003 under the United Nations Framework Convention on Climate Change; methodological revision forseen.

IPPC Main Annex I Activity
6.1 Industrial plants for pulp from timber or other fibrous materials and paper or board production (>20t/d)

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
105.07	CO2	2.514.000.000,00	2.514.000.000,00	0,00	0,00	Kg/a
105.07	Total organic carbon (TOC)	10.120.200,00	0,00	6.987.200,00	3.133.000,00	Kg/a
105.07	Chlorides	4.480.000,00	0,00	4.480.000,00	0,00	Kg/a
105.07	NOx	3.086.000,00	3.086.000,00	0,00	0,00	Kg/a
105.07	SOx	663.000,00	663.000,00	0,00	0,00	Kg/a
105.07	CO	633.000,00	633.000,00	0,00	0,00	Kg/a

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105.07	CH4	106.000,00	106.000,00	0,00	0,00	Kg/a
105.07	Halogenated organic compounds	82.800,00	0,00	82.800,00	0,00	Kg/a
105.07	PM10	76.100,00	76.100,00	0,00	0,00	Kg/a
105.07	NH3	35.000,00	35.000,00	0,00	0,00	Kg/a
105.07	Total - Phosphorus	28.800,00	0,00	28.800,00	0,00	Kg/a
105.07	Chlorine and inorganic compounds	10.900,00	10.900,00	0,00	0,00	Kg/a
105.07	Zn and compounds	5.602,00	0,00	5.390,00	212,00	Kg/a
105.07	Fluorides	2.130,00	0,00	2.130,00	0,00	Kg/a
105.07	Cu and compounds	521,90	0,00	317,90	204,00	Kg/a
105.07	Ni and compounds	433,90	0,00	399,40	34,50	Kg/a
105.07	Cr and compounds	246,40	0,00	246,40	0,00	Kg/a
105.07	Pb and compounds	187,80	0,00	158,00	29,80	Kg/a
105.07	Cd and compounds	38,90	0,00	23,00	15,90	Kg/a

IPPC Main Annex I Activity
6.2 Plants for the pre-treatment of fibres or textiles (>10 t/d)

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
105.04	Total organic carbon (TOC)	462.300,00	0,00	65.300,00	397.000,00	Kg/a
105.04	Zn and compounds	105,00	0,00	0,00	105,00	Kg/a
105.04	Cr and compounds	66,00	0,00	66,00	0,00	Kg/a
105.04	Cu and compounds	55,00	0,00	0,00	55,00	Kg/a
105.04	Ni and compounds	42,00	0,00	0,00	42,00	Kg/a

IPPC Main Annex I Activity
6.3 Plants for tanning of hides and skins (>12t/d)

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
105.05	Total organic carbon (TOC)	122.000,00	0,00	122.000,00	0,00	Kg/a
105.05	Cr and compounds	137,00	0,00	137,00	0,00	Kg/a

IPPC Main Annex I Activity
6.4 Slaughterhouses (>50t/d), plants for the production of milk (>200t/d), other animal raw materials (>75t/d) or vegetable raw materials (>300t/d)

NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
105.03	Total organic carbon (TOC)	1.049.000,00	0,00	0,00	1.049.000,00	Kg/a
105.03	Total - Nitrogen	92.300,00	0,00	0,00	92.300,00	Kg/a
105.03	Total - Phosphorus	28.500,00	0,00	0,00	28.500,00	Kg/a

Table 2: National EPER-Total of the reported emissions for all main Annex I activities

IPPC 6.5		Main Annex I Activity <u>Installations for the disposal or recycling of animal carcasses and animal waste (>10t/d)</u>						
NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit		
109.06	CH4	254.000,00	254.000,00	0,00	0,00	Kg/a		
IPPC 6.6		Main Annex I Activity <u>Installations for poultry (>40000), pigs (>2000) or sows (>750)</u>						
NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit		
110.04	NH3	19.000,00	19.000,00	0,00	0,00	Kg/a		
IPPC 6.7		Main Annex I Activity <u>Installations for surface treatment or products using organic solvents (>200t/y)</u>						
NOSE-P code	Pollutant	National Total	To air	Direct to water	Indirect to water	Unit		
107.01	NMVOC	1.140.000,00	1.140.000,00	0,00	0,00	Kg/a		
107.04	NMVOC	926.000,00	926.000,00	0,00	0,00	Kg/a		

Table 2: National EPER-Total of the reported emissions for all main Annex I activities

Main NOSE-P**101.01 Combustion processes > 300 MW****Combustion installations > 50 MW**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO2	7.474.000.000,00	7.474.000.000,00	0,00	0,00	Kg/a
NOx	4.246.000,00	4.246.000,00	0,00	0,00	Kg/a
SOx	2.350.000,00	2.350.000,00	0,00	0,00	Kg/a
CO	851.000,00	851.000,00	0,00	0,00	Kg/a
PM10	61.500,00	61.500,00	0,00	0,00	Kg/a
Fluorine and inorganic compounds	24.600,00	24.600,00	0,00	0,00	Kg/a
N2O	21.900,00	21.900,00	0,00	0,00	Kg/a
Cu and compounds	2.311,00	130,00	2.181,00	0,00	Kg/a
Zn and compounds	866,00	277,00	589,00	0,00	Kg/a
Hg and compounds	81,00	81,00	0,00	0,00	Kg/a
As and compounds	14,00	0,00	14,00	0,00	Kg/a

Main NOSE-P**101.02 Combustion processes >50 and <300 MW****Combustion installations > 50 MW**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO2	1.141.000.000,00	1.141.000.000,00	0,00	0,00	Kg/a
NOx	798.000,00	798.000,00	0,00	0,00	Kg/a
Cu and compounds	111,00	0,00	111,00	0,00	Kg/a

Main NOSE-P**101.04 Combustion in gas turbines****Combustion installations > 50 MW**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO2	253.000.000,00	253.000.000,00	0,00	0,00	Kg/a
NOx	117.000,00	117.000,00	0,00	0,00	Kg/a

Main NOSE-P**104.11 Manufacture of plaster, asphalt, concrete, cement, glass, fibres, bricks, tiles or ceramic products**

Installations for the production of cement klinker (>500t/d), lime (>50t/d), glass (>20t/d), mineral substances (>20t/d) or ceramic products (>75t/d)					
Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO ₂	2.925.000.000,00	2.925.000.000,00	0,00	0,00	Kg/a
CO	8.940.000,00	8.940.000,00	0,00	0,00	Kg/a
NO _x	5.014.000,00	5.014.000,00	0,00	0,00	Kg/a
SO _x	477.000,00	477.000,00	0,00	0,00	Kg/a
NH ₃	66.700,00	66.700,00	0,00	0,00	Kg/a
Benzene	5.210,00	5.210,00	0,00	0,00	Kg/a
Fluorides	2.310,00	0,00	2.310,00	0,00	Kg/a
Hg and compounds	120,90	120,90	0,00	0,00	Kg/a
Pb and compounds	31,00	0,00	0,00	31,00	Kg/a

Main NOSE-P**104.12 Primary and secondary metal production or sinter plants**

Metal industry and metal ore roasting or sintering installations; Installations for the production of ferrous and non-ferrous metals					
Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO ₂	8.550.000.000,00	8.550.000.000,00	0,00	0,00	Kg/a
CO	140.600.000,00	140.600.000,00	0,00	0,00	Kg/a
SO _x	4.935.000,00	4.935.000,00	0,00	0,00	Kg/a
NO _x	4.310.000,00	4.310.000,00	0,00	0,00	Kg/a
PM ₁₀	1.290.000,00	1.290.000,00	0,00	0,00	Kg/a
Total organic carbon (TOC)	655.300,00	0,00	287.300,00	368.000,00	Kg/a
Phenols	227.363,00	0,00	363,00	227.000,00	Kg/a
Total - Nitrogen	227.000,00	0,00	0,00	227.000,00	Kg/a
Chlorine and inorganic compounds	210.000,00	210.000,00	0,00	0,00	Kg/a
Fluorides	37.700,00	0,00	27.200,00	10.500,00	Kg/a
Zn and compounds	36.261,00	24.101,00	11.698,00	462,00	Kg/a
Cyanides	24.753,30	0,00	453,30	24.300,00	Kg/a
Pb and compounds	6.238,00	4.721,00	1.460,00	57,00	Kg/a
Benzene	3.880,00	3.880,00	0,00	0,00	Kg/a
Cr and compounds	1.941,00	727,00	1.214,00	0,00	Kg/a
HCN	1.650,00	1.650,00	0,00	0,00	Kg/a
Ni and compounds	816,00	486,00	330,00	0,00	Kg/a
Hg and compounds	471,00	471,00	0,00	0,00	Kg/a

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Cu and compounds	301,00	0,00	301,00	0,00	Kg/a
Polycyclic Aromatic Hydrocarbons	207,00	207,00	0,00	0,00	Kg/a
Cd and compounds	56,90	56,90	0,00	0,00	Kg/a
PCDD+PCDF (dioxins+furans)	0,00	0,00	0,00	0,00	Kg/a

Main NOSE-P

105.01 Surface treatment of metals and plastics

Metal industry and metal ore roasting or sintering installations; Installations for the production of ferrous and non-ferrous metals

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Total organic carbon (TOC)	106.000,00	0,00	0,00	106.000,00	Kg/a
Fluorides	2.930,00	0,00	2.930,00	0,00	Kg/a
HCN	1.520,00	1.520,00	0,00	0,00	Kg/a
Cu and compounds	669,00	0,00	69,00	600,00	Kg/a
Ni and compounds	272,30	0,00	23,20	249,10	Kg/a
Zn and compounds	200,00	0,00	0,00	200,00	Kg/a

Main NOSE-P

105.03 Manufacture of food products and beverages

Slaughterhouses (>50t/d), plants for the production of milk (>200t/d), other animal raw materials (>75t/d) or vegetable raw materials (>300t/d)

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Total organic carbon (TOC)	1.049.000,00	0,00	0,00	1.049.000,00	Kg/a
Total - Nitrogen	92.300,00	0,00	0,00	92.300,00	Kg/a
Total - Phosphorus	28.500,00	0,00	0,00	28.500,00	Kg/a

Main NOSE-P

105.04 Manufacture of textiles and textile products

Plants for the pre-treatment of fibres or textiles (>10t/d)

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Total organic carbon (TOC)	462.300,00	0,00	65.300,00	397.000,00	Kg/a
Zn and compounds	105,00	0,00	0,00	105,00	Kg/a
Cr and compounds	66,00	0,00	66,00	0,00	Kg/a
Cu and compounds	55,00	0,00	0,00	55,00	Kg/a
Ni and compounds	42,00	0,00	0,00	42,00	Kg/a

Table 3: National EPER-Total of the reported emissions for all main NOSE-P codes

Main NOSE-P**105.05 Manufacture of leather and leather products****Plants for tanning of hides and skins (>12t/d)**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Total organic carbon (TOC)	122.000,00	0,00	122.000,00	0,00	Kg/a
Cr and compounds	137,00	0,00	137,00	0,00	Kg/a

Main NOSE-P**105.07 Manufacture of pulp, paper and paper products****Industrial plants for pulp from timber or other fibrous materials and paper or board production (>20t/d)**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO2	2.514.000.000,00	2.514.000.000,00	0,00	0,00	Kg/a
Total organic carbon (TOC)	10.120.200,00	0,00	6.987.200,00	3.133.000,00	Kg/a
Chlorides	4.480.000,00	0,00	4.480.000,00	0,00	Kg/a
NOx	3.086.000,00	3.086.000,00	0,00	0,00	Kg/a
SOx	663.000,00	663.000,00	0,00	0,00	Kg/a
CO	633.000,00	633.000,00	0,00	0,00	Kg/a
CH4	106.000,00	106.000,00	0,00	0,00	Kg/a
Halogenated organic compounds	82.800,00	0,00	82.800,00	0,00	Kg/a
PM10	76.100,00	76.100,00	0,00	0,00	Kg/a
NH3	35.000,00	35.000,00	0,00	0,00	Kg/a
Total - Phosphorus	28.800,00	0,00	28.800,00	0,00	Kg/a
Chlorine and inorganic compounds	10.900,00	10.900,00	0,00	0,00	Kg/a
Zn and compounds	5.602,00	0,00	5.390,00	212,00	Kg/a
Fluorides	2.130,00	0,00	2.130,00	0,00	Kg/a
Cu and compounds	521,90	0,00	317,90	204,00	Kg/a
Ni and compounds	433,90	0,00	399,40	34,50	Kg/a
Cr and compounds	246,40	0,00	246,40	0,00	Kg/a
Pb and compounds	187,80	0,00	158,00	29,80	Kg/a
Cd and compounds	38,90	0,00	23,00	15,90	Kg/a

Main NOSE-P**105.08 Petroleum product processing (Manufacture of fuels)****Mineral oil and gas refineries**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO ₂	2.560.000.000,00	2.560.000.000,00	0,00	0,00	Kg/a
SO _x	3.690.000,00	3.690.000,00	0,00	0,00	Kg/a
NO _x	3.430.000,00	3.430.000,00	0,00	0,00	Kg/a
Chlorides	3.110.000,00	0,00	3.110.000,00	0,00	Kg/a
NM VOC	1.380.000,00	1.380.000,00	0,00	0,00	Kg/a
CO	721.000,00	721.000,00	0,00	0,00	Kg/a
PM ₁₀	107.000,00	107.000,00	0,00	0,00	Kg/a
Total organic carbon (TOC)	73.200,00	0,00	73.200,00	0,00	Kg/a
Total - Nitrogen	72.900,00	0,00	72.900,00	0,00	Kg/a
Total - Phosphorus	6.700,00	0,00	6.700,00	0,00	Kg/a
Zn and compounds	2.220,00	0,00	2.220,00	0,00	Kg/a
Phenols	328,00	0,00	328,00	0,00	Kg/a
Ni and compounds	255,00	0,00	255,00	0,00	Kg/a
Cu and compounds	219,00	0,00	219,00	0,00	Kg/a
As and compounds	10,90	0,00	10,90	0,00	Kg/a

Main NOSE-P**105.09 Manufacture of organic chemicals / inorganic chemicals of NPK fertilisers / pesticides or explosives****Basic organic chemicals**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Chlorides	4.740.000,00	0,00	0,00	4.740.000,00	Kg/a
CO	3.870.000,00	3.870.000,00	0,00	0,00	Kg/a
Total organic carbon (TOC)	1.560.000,00	0,00	150.000,00	1.410.000,00	Kg/a
Total - Nitrogen	756.000,00	0,00	0,00	756.000,00	Kg/a
NM VOC	492.000,00	492.000,00	0,00	0,00	Kg/a
Total - Phosphorus	84.700,00	0,00	0,00	84.700,00	Kg/a
Halogenated organic compounds	10.200,00	0,00	0,00	10.200,00	Kg/a
Benzene, toluene, ethylbenzene, xylenes	1.075,00	0,00	775,00	300,00	Kg/a
Phenols	775,00	0,00	675,00	100,00	Kg/a
Zn and compounds	430,00	0,00	0,00	430,00	Kg/a
Ni and compounds	200,00	0,00	0,00	200,00	Kg/a
Cr and compounds	150,00	0,00	0,00	150,00	Kg/a

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Cu and compounds	150,00	0,00	0,00	150,00	Kg/a
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Basic inorganic chemicals or fertilisers

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO2	749.000.000,00	749.000.000,00	0,00	0,00	Kg/a
Chlorides	149.000.000,00	0,00	149.000.000,00	0,00	Kg/a
N2O	2.530.000,00	2.530.000,00	0,00	0,00	Kg/a
Total - Nitrogen	1.062.000,00	0,00	1.062.000,00	0,00	Kg/a
NOx	830.000,00	830.000,00	0,00	0,00	Kg/a
SOx	206.000,00	206.000,00	0,00	0,00	Kg/a
Total organic carbon (TOC)	201.000,00	0,00	201.000,00	0,00	Kg/a
NH3	59.900,00	59.900,00	0,00	0,00	Kg/a
Chlorine and inorganic compounds	27.500,00	27.500,00	0,00	0,00	Kg/a
Total - Phosphorus	24.300,00	0,00	24.300,00	0,00	Kg/a
Fluorides	4.680,00	0,00	4.680,00	0,00	Kg/a
Zn and compounds	1.950,00	1.950,00	0,00	0,00	Kg/a
Cyanides	400,00	0,00	400,00	0,00	Kg/a
Hg and compounds	100,00	0,00	100,00	0,00	Kg/a
Cd and compounds	50,00	0,00	50,00	0,00	Kg/a

Biocides and explosives

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Chlorides	2.880.000,00	0,00	0,00	2.880.000,00	Kg/a
Total organic carbon (TOC)	147.000,00	0,00	0,00	147.000,00	Kg/a
Halogenated organic compounds	4.740,00	0,00	0,00	4.740,00	Kg/a
Dichloroethane-1,2 (DCE)	2.300,00	2.300,00	0,00	0,00	Kg/a
Benzene, toluene, ethylbenzene, xylenes	365,00	0,00	0,00	365,00	Kg/a

Main NOSE-P

105.12 Characteristic processes in the manufacture of metals and metal product

Metal industry and metal ore roasting or sintering installations; Installations for the production of ferrous and non-ferrous metals

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Total organic carbon (TOC)	51.600,00	0,00	0,00	51.600,00	Kg/a

Main NOSE-P**107.01 Paint application****Installations for surface treatment or products using organic solvents (>200t/y)**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
NMVO	1.140.000,00	1.140.000,00	0,00	0,00	Kg/a

Main NOSE-P**107.03 Manufacture of solvent based organic products / pharmaceutical products****Basic organic chemicals**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Phenols	880,00	0,00	0,00	880,00	Kg/a

Pharmaceutical products

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Total organic carbon (TOC)	301.000,00	0,00	0,00	301.000,00	Kg/a
Dichloromethane (DCM)	21,60	0,00	0,00	21,60	Kg/a

Main NOSE-P**107.04 Printing industry****Installations for surface treatment or products using organic solvents (>200t/y)**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
NMVO	926.000,00	926.000,00	0,00	0,00	Kg/a

Main NOSE-P**109.03 Incineration of hazardous or municipal waste / animal carcasses and animal waste****Installations for the disposal or recovery of hazardous waste (>10t/d) or municipal waste (>3t/h)**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CO ₂	611.000.000,00	611.000.000,00	0,00	0,00	Kg/a
NO _x	128.000,00	128.000,00	0,00	0,00	Kg/a
Zn and compounds	211,00	211,00	0,00	0,00	Kg/a
Hg and compounds	44,20	44,20	0,00	0,00	Kg/a

Main NOSE-P**109.06 Landfills (Solid waste disposal on land)****Installations for the disposal of nonhazardous waste (>50t/d) and landfills (>10t/d)**

Pollutant	National Total	To air *	Direct to water	Indirect to water	Unit
CH4	33.604.000,00	33.604.000,00	0,00	0,00	Kg/a
Chlorides	3.420.000,00	0,00	3.420.000,00	0,00	Kg/a
Total organic carbon (TOC)	694.500,00	0,00	474.000,00	220.500,00	Kg/a
Total - Nitrogen	103.400,00	0,00	0,00	103.400,00	Kg/a
Fluorides	8.210,00	0,00	8.210,00	0,00	Kg/a
Halogenated organic compounds	3.420,00	0,00	3.420,00	0,00	Kg/a
Zn and compounds	3.326,00	0,00	3.210,00	116,00	Kg/a
Ni and compounds	115,80	0,00	115,80	0,00	Kg/a
Pb and compounds	31,60	0,00	0,00	31,60	Kg/a
As and compounds	7,00	0,00	7,00	0,00	Kg/a

*) Data not consistent with Austria's Submission 2003 under the United Nations Framework Convention on Climate Change; methodological revision foreseen.

Installations for the disposal or recycling of animal carcasses and animal waste (>10t/d)

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
CH4	254.000,00	254.000,00	0,00	0,00	Kg/a

Main NOSE-P**109.07 Physico-chemical and biological treatment of waste (Other waste management)****Installations for the disposal or recovery of hazardous waste (>10t/d) or municipal waste (>3t/h)**

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
Phenols	38,50	0,00	0,00	38,50	Kg/a

Installations for the disposal of nonhazardous waste (>50t/d) and landfills (>10t/d)

Pollutant	National Total	To air *	Direct to water	Indirect to water	Unit
CH4	274.000,00	274.000,00	0,00	0,00	Kg/a
Total - Nitrogen	82.000,00	0,00	0,00	82.000,00	Kg/a

*) Data not consistent with Austria's Submission 2003 under the United Nations Framework Convention on Climate Change; methodological revision foreseen.

Main NOSE-P

110.04 Enteric fermentation

Installations for poultry (>40000), pigs (>2000) or sows (>750)

Pollutant	National Total	To air	Direct to water	Indirect to water	Unit
NH3	19.000,00	19.000,00	0,00	0,00	Kg/a