Working Group on Thermal Treatment of Waste

Energy from Waste

State-of-the-Art-Report
Statistics 5th Edition August 2006

ISWA
International Solid Waste Association

Cover photo

The photo on the front cover shows the SYSAV plant in Malmö, Sweden. For the time being the plant has three furnace lines and burns nearly 400,000 tonnes of waste pr. year. A 4th new line similar to line 3 with a capacity of 25 t/h is to go into operation by 2008. (Photo by Bo Strandh).

The general manager of SYSAV, Mr. Hakon Rylander is chairman of ISWA's Working Group on Thermal Treatment of Waste.

The vice-chairman of the Working Group, Mr. Jørgen Haukohl of Rambøll Danmark A/S is the editor of this publication. Rambøll has been consultant for SYSAV on development of the Waste to Energy plant since 1998.

Energy from Waste
State-of-the-Art Report

5th Edition
2006

Austria • Belgium • Czech Republic • Denmark
Finland • France • Germany
Great Britain • Hungary • Italy • Netherlands • Norway Portugal •
Spain • Sweden • Switzerland • USA

Working Group on Thermal Treatment of Waste

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1. Introduction

This is the 5th Edition of the State-of-the Art Report on waste to energy plants prepared by Rambøll on behalf of the ISWA Working Group on Thermal Treatment of Waste. This 5th Edition presents information on the plants in 16 European countries by year 2005 and includes operational data covering 2004.

The countries included are Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Italy, the Netherlands, Norway, Portugal, Spain, Sweden and Switzerland. To the best of the editors' knowledge these 16 countries represent all European countries with waste to energy plants with the exception of Luxembourg with only one plant incinerating 130.000 tonnes of waste per year.

Data on the individual incineration plants are presented country by country in three tables in the report:

1. General Information (location, name, address etc.)
2. Technical Information (number of lines, capacity, furnace/boiler and flue gas treatment systems including their suppliers etc.)
3. Operational data (quantities incinerated, residues formed and energy produced and sold)

The report covers MSW incineration plants with a capacity of more than 15 tonnes/day or 10,000 tonnes/year, which means that special plants for hazardous waste, sludge, agricultural and hospital wastes are not included.

The data has been collected through a questionnaire that was distributed to the waste to energy plants in the various countries in 2005. In general, the response rate on the questionnaire has been high in most countries, near to 100%, and it is believed that almost all the existing plants in the 16 countries are included. However, for Austria, Belgium, France, Great Britain and Portugal technical information and operational data are not complete for all of the plants.

In total the report brings information on 431 European waste to energy plants. This is an increase of 15% compared to the 375 plants listed in the 4th Edition embracing 14 countries. The increase is primarily due to a better response rate to the questionnaires (Austria, Great Britain, Norway and Sweden). In most of the other countries the number of plants has remained constant or increased. However, as an exception to this trend, the number of plants in Italy has gone down from 62 to 51 due to closure of old plants.

Of the increase, the two additional countries, the Czech Republic and Finland, accounts for 4 plants.

The first section of the report contains a comparison of the 16 countries in terms of number of plants, amount of waste treated, energy sold and the residues generated.

The second section presents the above national tables with general information, technical information and operational data for the waste to energy plants data in the 16 countries.

Finally, the report contains information on the waste-to-energy plants in USA.

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Mr. Esko Pohjanen, City of Turku, Finland

Mr. Robert Morin, Veolia Proprete, France

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Mrs. Amalia Cerda, Tirme S.A., Spain

Mr. Conrad Bader, Von Roll Inova, Switzerland

Mr. Anders Hedenstedt, Svenska Renhållningsverksföreningen (RVF), Sweden

Mr. Ted Michaels, Integrated Waste Services Association, USA

Virum, August 2006

Rambøll Danmark A/S

2. Waste to energy plants in Europe

This section presents a comparison of the waste to energy plants in Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Italy, the Netherlands, Norway, Portugal, Spain, Sweden and Switzerland in 2004/2005.

2.1 Number of plants and capacity

The total number of incineration plants in the 16 countries in 2005 was 431 as shown country by country in Figure 1:

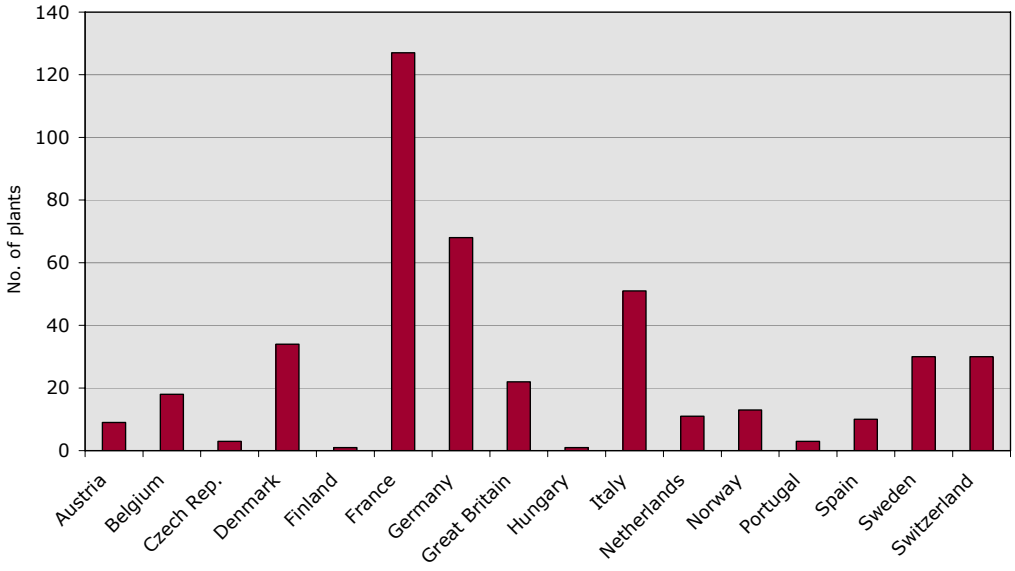

Figure 1: *Number of Plants, 2005*

Data on waste capacity are complete or almost complete for all the countries with the exception of Austria and Great Britain, where data are complete for respectively 50% and 70% of the plants. These two countries are marked with * in the section below.

It is worth noting that the Waste Incineration Directive (2000/76/EC) was to be fully implemented in the EU Member States by 28 December 2005. This might have caused some plants to close during 2005. Consequently, the total number of plants and their capacities listed may be on the high side.

The number of furnaces per plant varies from 1 to 8. The average size of the plants (tonnes/hour/plant) in 2005 is shown in Figure 2.

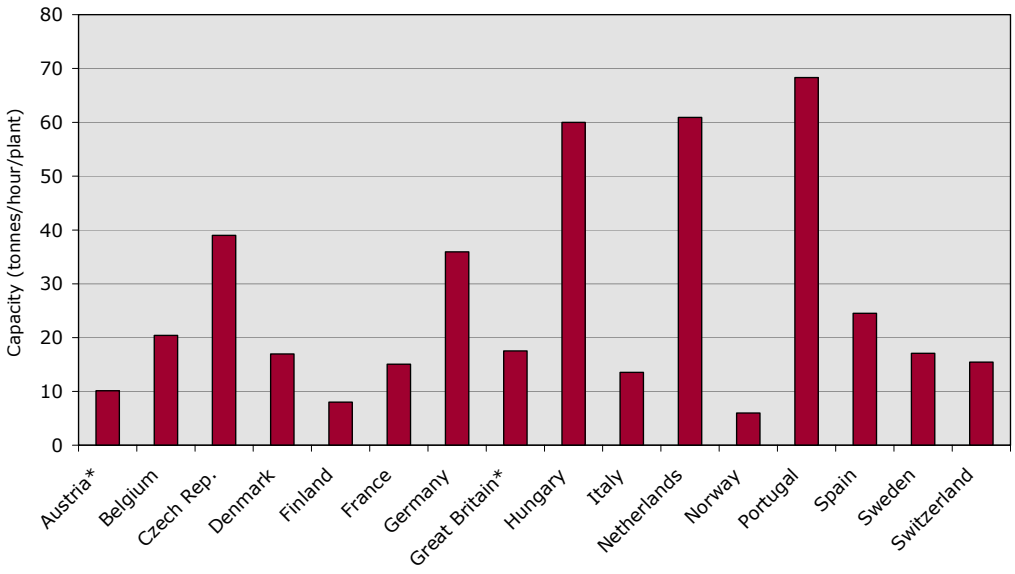

Figure 2: *Capacity per plant (average size), 2005*

As can be seen, there are great differences in the average size of the plants from one country to the other.

The data behind the graphs in Figure 1 and 2 are shown in Table 1. The table contains information on the number of plants, their total capacity (nominal) in tonnes/hour and the average capacity in tonnes/hour/plant for each of the 16 countries.

In addition the table contains the total number of plants and capacity in the 16 countries as well as the average plant size.

Country	Plants and capacities		
	No. of plants	Total capacity tonnes/h	Capacity per plant tonnes/h/plant
Austria*	9	91	10,1
Belgium	18	367	20,4
Czech Rep.	3	117	39,0
Denmark	34	577	17,0
Finland	1	8	8,0
France	127	1.909	15,0
Germany	68	2.445	36,0
Great Britain*	22	386	17,5
Hungary	1	60	60,0
Italy	51	690	13,5
Netherlands	11	670	60,9
Norway	13	78	6,0
Portugal	3	205	68,3
Spain	10	245	24,5
Sweden	30	513	17,1
Switzerland	30	464	15,5
Sum/average	431	8.825	20,5

* Data are incomplete for these countries, however the no. of plants should be correct.

Table 1: *Plants and capacities, 2005*

2.2 Amounts of waste treated

Operational data are complete or almost complete for all countries with the exception of Portugal, where operational data are missing for 1 out of 3 plants, Austria, Belgium and France, where operational data are only 50-60% complete, and Great Britain, where operational data have only been obtained for 20% of the plants. These countries are marked with * in the following sections.

The amounts of waste incinerated in the 16 countries in 2004 are shown in Figure 3.

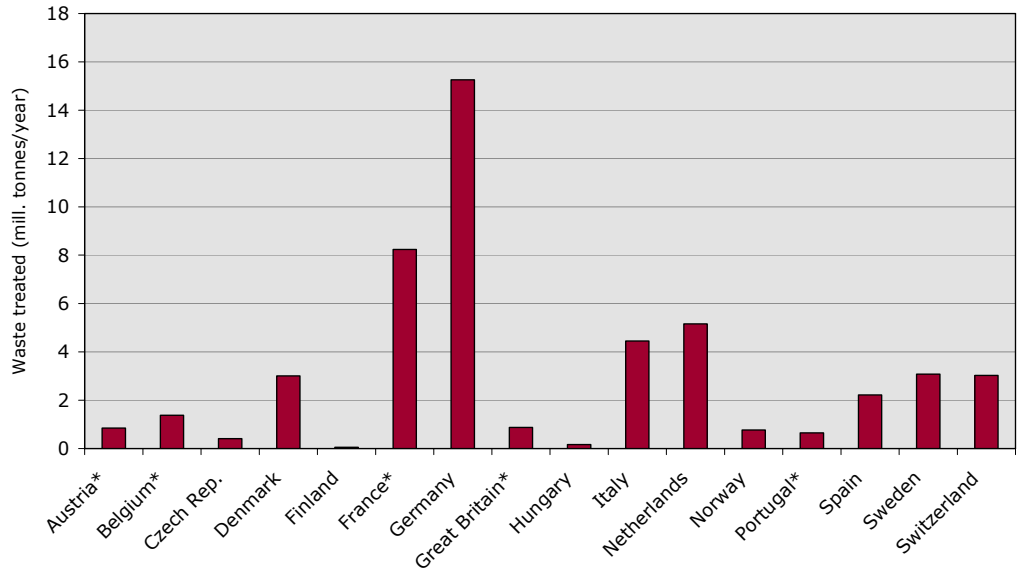

Figure 3: *Amounts of waste treated, 2004*

The average amounts of waste treated per plant and per capita in 2004 are shown in Figure 4 and 5.

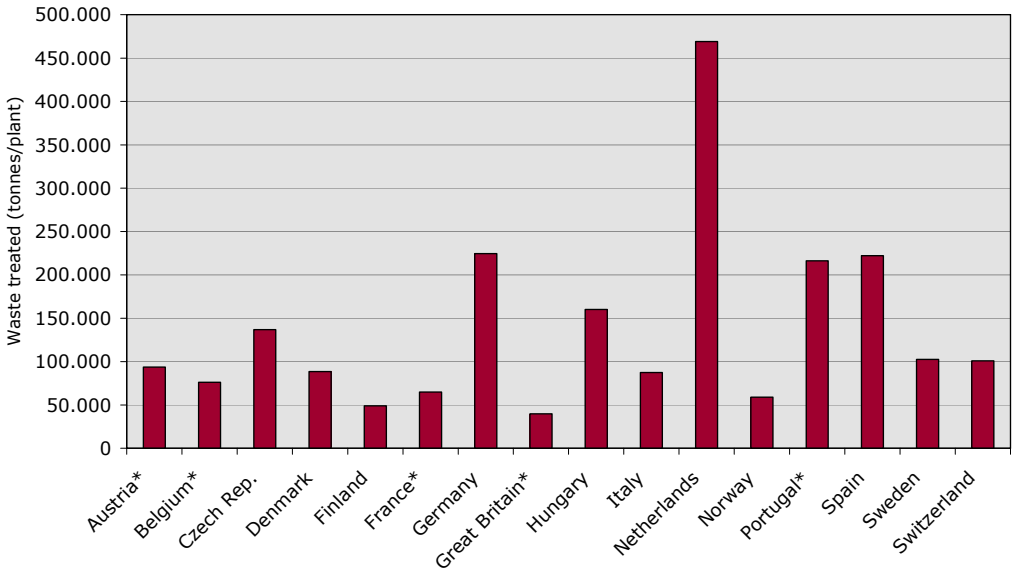

Figure 4: *Waste amounts treated per plant (average), 2004*

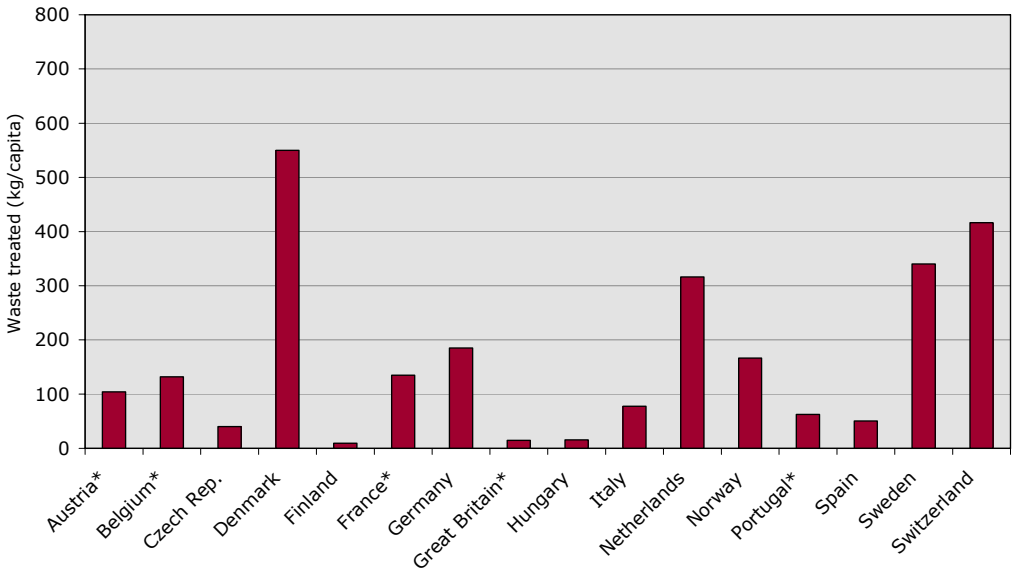

Figure 5: *Waste amounts treated per capita, 2004*

The data illustrated in Figure 3-5 are shown in Table 2. The figures in brackets in the table are estimations of the total waste quantity incinerated in the countries where the collected data are incomplete.

Country	Waste quantity treated		
	total tonnes/year	per plant tonnes/year/plant	per capita kg/year/cap.
Austria*	(1.400.000) 842.230	93.581	104
Belgium*	(2.300.000) 1.370.693	76.150	132
Czech Rep.	410.383	136.794	40
Denmark	3.009.953	88.528	550
Finland	49.000	49.000	9
France*	(12.000.000) 8.238.173	64.868	135
Germany	15.259.766	224.408	185
Great Britain*	(2.600.000) 872.797	39.673	15
Hungary	160.054	160.054	16
Italy	4.453.738	87.328	78
Netherlands	5.158.988	468.999	316
Norway	766.723	58.979	166
Portugal*	(1.000.000) 648.463	216.154	63
Spain	2.221.218	222.122	50
Sweden	3.077.906	102.597	340
Switzerland	3.024.847	100.828	417
Sum/average	(47.100.000) 49.564.932	115.000	123

* Data incomplete. The figures in brackets are estimations of the total waste quantity incinerated

Table 2: *Quantities treated, 2004*

2.3 Energy sold

All plants recover the heat of combustion and convert it to steam and/or warm or hot water. Normally the steam is used for generating electricity, while the heated water is used for district heating. Some plants deliver steam to outside customers.

The total amount of electricity and heat that was sold in 2004 is shown in Figure 6. The data are listed in Table 3.

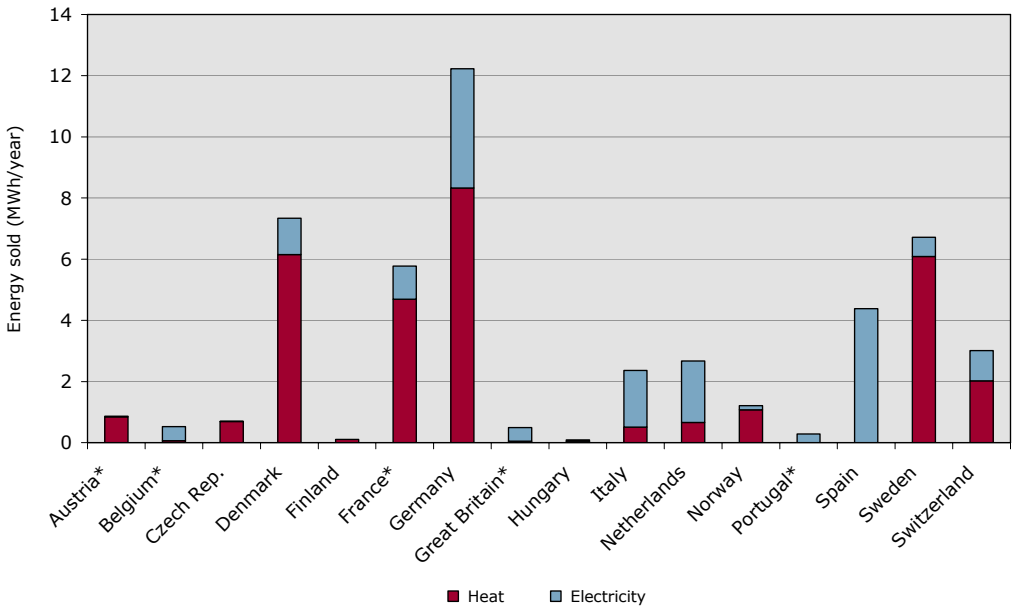

Figure 6: *Electricity and heat sold, 2004*

The Figure shows that the energy sales are particularly high in countries where the heat can be used for district heating systems: Denmark, France, Germany and Sweden.

Figure 7 shows electricity and heat sold pr. tonnes of waste incinerated in 2004. The data are shown in table 3.

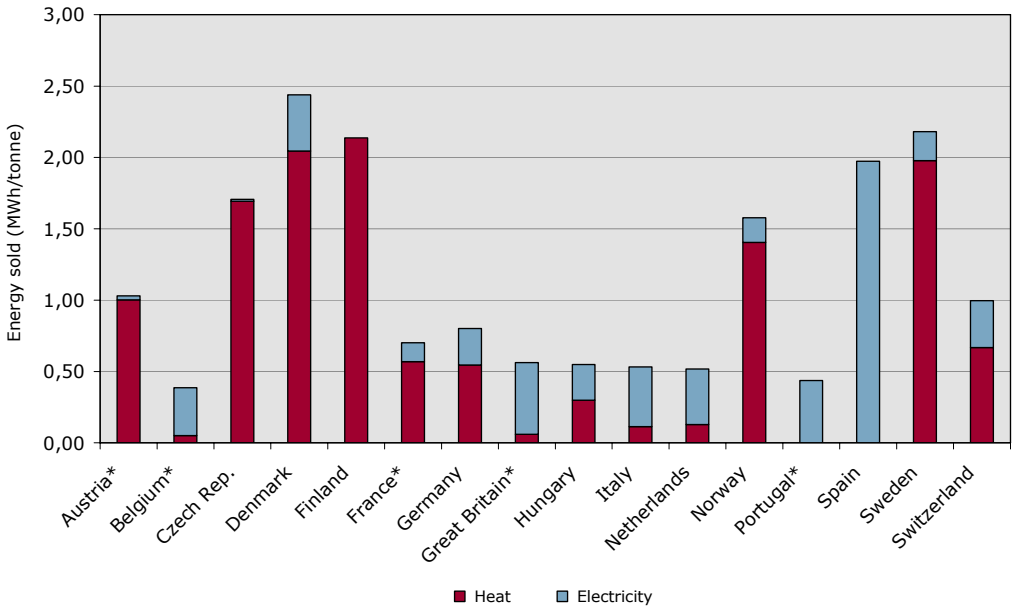

Figure 7: *Electricity and heat sold pr tonnes of waste incinerated, 2004*

The average energy sales pr. tonnes of waste incinerated varies from 0,5 MWh/tonne to 2,5 MWh/tonne.

Country	**Energy sold**				
	Steam tonnes/year	Electricity MWh/year	Heat MWh/year	Electricity MWh/tonnes	Heat MWh/tonnes
Austria*	1.596.587	23.412	844.200	0,03	1,00
Belgium*	566.645	460.390	69.324	0,34	0,05
Czech Rep.	578.015	5.702	694.719	0,01	1,69
Denmark	0	1.183.653	6.156.051	0,39	2,05
Finland	0	0	104.700	0,00	2,14
France*	504.809	1.083.137	4.691.580	0,13	0,57
Germany	1.856.267	3.905.450	8.327.206	0,26	0,55
Great Britain*	0	439.625	51.459	0,50	0,06
Hungary	0	40.291	47.684	0,25	0,30
Italy	0	1.855.245	509.498	0,42	0,11
Netherlands	2.118.344	2.010.257	659.818	0,39	0,13
Norway	207.000	132.593	1.076.679	0,17	1,40
Portugal*	0	282.726	0	0,44	0,00
Spain	30.859	4.381.060	0	1,97	0,00
Sweden	91.180	624.049	6.088.072	0,20	1,98
Switzerland	437.910	993.982	2.019.972	0,33	0,67
Sum/average	7.987.616	17.421.572	31.340.962	0,35	0,63

* Data incomplete

Table 3: *Electricity and heat sold, 2004*

2.4 Residues

Table 4 contains data on the generation of bottom ash and residues from flue gas treatment.

Country	Residues	
	Bottom ash tonnes/year	Flue gas treatment residue tonnes/year
Austria*	211.778	23.975
Belgium*	264.874	42.996
Czech Rep.	114.158	6.127
Denmark	639.956	87.469
Finland	10.000	2.000
France*	2.208.250	208.173
Germany	3.490.323	90.939
Great Britain*	221.982	30.447
Hungary	38.125	4.177
Italy	677.116	116.177
Netherlands	1.311.507	126.314
Norway	132.822	26.026
Portugal*	122.714	22.609
Spain	358.791	123.935
Sweden	380.019	122.508
Switzerland	584.805	70.395
Sum/average	10.767.220	1.104.267

Table 4: *Residue production, 2004*

Table 4 shows that the amount of bottom ash corresponds to approximately 22% of the waste quantity incinerated, while the amount of flue gas treatment residues corresponds to 2,2% on average.

National data

Abbreviations

Furnace type	
M:	Moveable
F:	Fixed
R:	Rotary
FB:	Fluid bed
G:	Gasification
P:	Pyrolysis
O:	Others
Boiler type	
S:	Steam
WW:	Warm water (temperature < 120 °C)
HW:	Hot water (temperature > 120 °C)
Flue gas cleaning system	
DRY:	Dry scrubbing
SD:	Semi dry scrubbing
WET:	Wet scrubbing
FF:	Fabric filter
ESP:	Electrostatic precipitator
FGC:	Flue gas condensation
SNCR:	Selective Non Catalytic Reduction
SCR:	Selective Catalytic Reduction
$DeNO_x$:	NO_x reduction by SNCR or SCR
CYC:	Cyclone
AC:	Active Carbon
D/F:	Reduction of dioxins and furans
CAT:	Catalyst
O:	Other
Other fuels	
G:	Natural gas (nm^3)
O:	Oil (m^3)
B:	Biomass (t)

Number of plants: 9

Average capacity: 10 t/h

Quantity treated 2004: 842,000 t

Austria
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Arnoldstein	KRV www.krv.co.at	Industriestraße 25 9601 Arnoldstein	+43 4255 22366 +43 4255 22366-200
Graz	Niklasdorf	Proleber-Straße 10 8712 Niklasdorf	+43 3842 83481 - 100 +43 316 386365 - 205
Lenzing	RVL Lenzing	p.a Lenzing AG 4860 Lenzing	+43 7672 93133-22 +43 7673 93133-25
Wels (I)	WAV I www.wav.at	Mitterhoferstraße 100 4600 Wels	+43 7242 71475-175 +43 7243 71475-901
Wels (II)	WAV II www.wav.at	Mitterhoferstraße 100 4600 Wels	+43 7242 71475-175 +43 7243 71475-901
Wien (Flötzersteig)	MVA- Flötzersteig www.sauberbrenner.at	Flötzersteig 12 1160 Wien	+43 1 31326 8755 +43 1 31326 8783
Wien (Simmeringer)	Simmeringer Haide	11. Haidequerstraße 6 1110 Wien	+43 1 31326-6100 +43 1 31326-6158
Wien (Spittelau)	Wien (Spittelau) www.fernwaermewien.at	Spittelauer Lände 45 1090 Wien	+43 1 31326 2702 +43 1 31326 2884
Zwentendorf	Zwentendorf www.avn.at	AVN-Straße 3435 Zwentendorf	+43 2277 26121-0 +43 2277 26121-14813

Austria

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Arnoldstein	Dipl.-Ing. Günter Zellinger Guenter.Zellinger@krv.co.at	Kärntner Restmüllverwertungs GmbH (KRV)	Industriestraße 25 9601 Arnoldstein
Graz	Dr. Helmfried Spiegel Helmfried.Spiegel@enages.at	ENAGES, Energie- und Abfallverwertungs-GesmbH	Elisabethstraße 59/3 8010 Graz
Lenzing	Karl Schnopp Karl.Schnopp@ave.at	AVE Reststoffverwertung Gmbh	p.a Lenzing AG 4860 Lenzing
Wels (I)	Ing. Ronald Wachter Ronald.wachter@ave.at	Welser Abfallverwertung Betriebsführung GmbH	Mitterhoferstraße 100 4600 Wels
Wels (II)	Ing. Ronald Wachter Ronald.wachter@ave.at	Welser Abfallverwertung Betriebsführung GmbH	Mitterhoferstraße 100 4600 Wels
Wien (Flötzersteig)	Ing. Erich Pawelka Erich.Pawelka@fernwaermewien.at	Fernwärme Wien	Spittelauer Lände 45 1090 Wien
Wien (Simmeringer)	Dipl.-Ing. Ernst Locher Ernst.Locher@fernwärmewien.at	Fernwärme Wien	Spittelauer Lände 45 1090 Wien
Wien (Spittelau)	Dr. Thomas Angerer Thomas.Angerer@fernwaermewien.at	Fernwärme Wien	Spittelauer Lände 45 1090 Wien
Zwentendorf	Dipl.-Ing. Gernot Alfons Gernot.Alfons@avn.at	AVN Abfallverwertung Niederösterreich GmbH	EVN Platz 2344 Maria Enzersdorf

Austria

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Arnoldstein	1	2004		10,7	10	M	Martin	S	Martin / Wehrle	400/40	4000
Graz	1										
Lenzing	1										
Wels (I)	1	1995									
Wels (II)	1	2005				M		S			
Wien (Flötzersteig)	1	1963		8,3	8,9	M	W+E	S	AE&E	270/15	8222
	2	1963		8,3	8,9	M	W+E	S	AE&E	270/15	8075
	3	1963		8,3	8,9	M	W+E	S	AE&E	270/15	8122
Wien (Simmeringer)	1										
Wien (Spittelau)	1	1971		16,6	8,9	M	Martin	S	WA-BI	241/33	7930
	2	1971		16,6	8,9	M	Martin	S	WA-BI	241/33	7808
Zwentendorf	1	2004	-	11,24	9,15	grate	Allstom	S	Alstom	380/50	8000
	2	2004	-	11,24	9,15	grate	Allstom	s	Alstom	380/50	8000

Austria

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP		Flue Gas Cleaning		Flue Gas Temp., °C
			Year	Supplier	Year	Supplier	
Arnoldstein	1	SD	2004	---	2004	AE & E	180
Graz	1						
Lenzing	1						
Wels (I)	1						
Wels (II)	1	ESP+WET+FF+SCR					
Wien (Flötzersteig)	1	WET/ESP Denox	1990	Walter & Cie	1985	AE&E	170
	2	WET/ESP DENOX	1991	Walter & Cie	1985	AE&E	170
	3	WET/ESP DENOX	1991	Walter & Cie	1985	AE&E	170
Wien (Simmeringer)	1						
Wien (Spittelau)	1	WET/ESP Denox	1989	WA-BI	1989	AE&E	115
	2	WET/ESP DENOX	1989	WA-BI	1989	AE&E	115
Zwentendorf	1	FF, WET, SCR	2004	FF, Lühr	2004	Lühr, RWE, Integral	140
	2	FF, WET, SCR	2004	FF, Lühr	2004	Lühr, RWE, Integral	140

Austria
Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Arnoldstein	40644	40644						
Graz								
Lenzing								
Wels (I)								
Wels (II)								
Wien (Flötzersteig)	209629	209629						G:3171281
Wien (Simmeringer)								
Wien (Spittelau)	268957							
Zwentendorf	323000	190000	129900		2300	800		G:1700000

Austria
Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Arnoldstein	9400	3100	130000			7300	12330	1140
Graz								
Lenzing								
Wels (I)								
Wels (II)								
Wien (Flötzersteig)	55201	3841	580168		406118	478287		334801
Wien (Simmeringer)								
Wien (Spittelau)	60577	5204		36800	518583		11082	508259
Zwentendorf	86600	11830	1111000		-	1111000		

Number of plants:	18
Average capacity:	20 t/h
Quantity treated 2004:	1.370.000 t

Belgium
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Antwerpen	Antwerpen	Poldervlietweg 5 Haven 550 2030 Antwerpen	+32 035 68 49 59 +32 035 68 49 99
Brugge	IVBO ----	Pathoekeweg 41 8000	+32 050 45 63 11 +32 050 45 63 63
Brussel	Brussel	Monnoyekaai 8 1000	+32 022 41 64 90 +32 022 16 07 11
Doel-Beveren	Doel-Beveren www.indaver.be	Haven 1940 Molenweg 9130	+32 03 568 48 23
Eeklo	Eeklo	Sint-Laureinsesteenweg 29 9900 Eeklo	+32 093 77 82 11 +32 093 78 18 44
Gent	Gent www.ivago.be	Proeftuinstraat 43 9000	+32 092 40 81 11 +32 092 40 81 99
Harelbeke	Harelbeke	Kortrijksesteenweg 264 8530 Harelbeke	+32 056 71 61 17 +32 056 71 09 85
Herstal	Herstal www.intradel.be	Port de HERSTAL - Pré Wigi 4040	+32 4 240 74 74 +32 4 248 11 42
Houthalen	AVI Houthalen www.rmz.be	Industrieterrein Centrum Zuid 2098 3530 Houthalen	+32(0)11 52 36 36 +32(0)11 52 55 56
Knokke-Heist	Knokke-Heist	Sluisstraat 82 8300	+32 050 60 82 92 +32 050 60 82 92
Menen	Menen	Industrielaan 30 8930 Menen	+32 056 1 52 81 30 +32 056 1 51 97 59
Oostende	IVOO-Oostende www.ivoo.be	Klokhofstraat 2 8400 Oostende	+32 (0)59 55 27 30 +32 (0)59 80 12 03
Pont-de-Loup	Pont-de-Loup	Port de la Praye 6250	+32 071 43 46 64 +32 071 36 08 84
Roeselare	Roeselare www.ivro.be	Oostnieuwkerksesteenwet 121 8800	+32 (0)51 26 03 50 +32 (0)51 26 03 52
St. Niklaas	St. Niklaas	Vlyminckxhoek 12 9100	+32 (0)37 76 72 50 +32 (0)37 80 68 56
Thurmaide	Thurmaide ipalle.be	Hameau de Ribonfasse 1 7971 Thumaide	+32 69845988 +32 69845116
Virginal	Virginal	16 rue de Tubize 1460	+32 067 21 71 11 +32 067 64 90 73
Wilrijk (Antwerpen)	ISVAG www.isvag.be	Boomsesteenweg 1000 2610	+32 038 77 28 55 +32 038 77 09 28

Belgium
General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Antwerpen	inge.denissen@indaver.be		
Brugge	Martin Davans info@ivbo.be	IVBO 220000	Pathoekeweg 8000 Brugge
Brussel	Patricia Poitevin patricia.poitevin@bruxelles-proprete.be'		
Doel-Beveren	Nic Maes nic.maes@indaver.be	Indaver N.V.	Poldervlietweg 5, Haven 550 2030 Antwerpen
Eeklo	ivm_eeklo@yahoo.com/ivm@ivmeeklo.be	Group of communities - IVM	
Gent	Luc De Clercq luc.declercq@ivago.be	IVAGO o.v.	Botermarkt 1 B 9000 GENT
Harelbeke	jacques.soenens@imog.be	Imog 230000	
Herstal	Jean-Marc DIGNEFFE jean-marc.digneffe@intradel.be	INTRADEL SCRL 970837	Port de Herstal - Pré Wigi 4040 HERSTAL
Houthalen	Hugo Knevels, managing director hugo.knevels@regionalemilieuzorg.be	Regionale Milieuzorg 320000	Grote Baan 176 3530 HOUTHALEN
Knokke-Heist	engels.r@dalkia.be	Dalkia (Montenay)	
Menen	info@ivom.be	Voozillen, Dhr. M. Benton	
Oostende	ir. Fons Doms info@ivoo.be	IVOO Intergemeentelijke vereniging voor afvalbeheer voor Oostende en ommela 134.663	Klokhofstraat 2 8400 Oostende
Pont-de-Loup	Jean-Louis PIREAU jlpireau.icdipdl@belgacom.net	ICDI	
Roeselare	koen.van.overberghe@ivro.be	180000	
St. Niklaas			
Thurmaide	Laurent DUPONT laurent.dupont@ipalle.be	Intercommunale IPALLE SCRL 326000	Chemin de l'eau vive, 1 7503 Froyennes
Virginal	valmat@ibw.be	IBW	
Wilrijk (Antwerpen)	Dhr. W. Ex walter.ex@isvag.be		

Belgium

Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace		Boiler		Steam Data oC/bar	Hours of Operat.2004
						Type	Supplier	Type	Supplier		
Antwerpen	1			7			DBA ABB			400/40	
	2			7			DBA ABB			400/40	
Brugge	1	1982	---	9	10	M	Cnim Martin	S	Martin Gmbh / Cnim	330/27	6633
	2	1997	---	9	10	M	Cnim Martin	S	Martin Gmbh / Cnim	330/27	6171
	3	2004	---	9	10	M	Cnim Martin	S	Martin Gmbh / Cnim	330/27	6297
Brussel	1			23			Cnim Martin			400/39	
	2			23			Cnim Martin			400/39	
	3			23			Cnim Martin			400/39	
Doel-Beveren	1	1996		13,3	10,8	M	Seghers	S		400/40	8042
	2	1996		13,3	10,8	M	Seghers	S		400/40	8173
	3	2001		21,5	11,3	M	Seghers	S		400/40	8138
Eeklo	1	1881		7	9	M+R	Vølund			/	
	2	1881		7	9	M+R	Vølund			/	
Gent	1	1996	2024	6,5	9,42	M	Seghers Better Technology	S		37 bar/320	8047
	2	1996	2024	6,5	9,42	M	Seghers Better Technology	S		37 bar/320	8218
Harelbeke	1			5,5			Seghers			400/36	
	2			5,5			Seghers			400/36	
Herstal	1		2010	8		M	Kablitz			380/40	6821
	2		2010	8		R	LB			380/40	5127
	3		2010	8		R	LB			380/40	6270
	4		2010	8		M	Kablitz			380/40	6723
Houthalen	1	1984	2011	5,5	8,7	M	Vølund	WATERPIPE	Volund/CMI	360/36	6016
	2	1984	2011	5,5	8,7	M	Vølund	WATERPIPE	Volund/CMI	360/36	6846
Knokke-Heist	1			2,5			Noell			/	
	2			2,5			Noell			/	
Menen	1			4		M	Seghers	WW	M	/	
	2			4		M	Seghers	WW	M	/	
Oostende	1	1982	-	5,5	9		Seghers			360/35	
	2	1982	-	5,5	9		Seghers			360/35	
Pont-de-Loup	1			7,5			Stein LB			380/40	
	2			7,5			Stein LB			380/40	
	3			7,5			Stein LB			380/40	
Roeselare	1	1976		4	9,2	M	Vølund	HW	NDTI	/	8000
	2	1976		4	9,2	M	Vølund	HW	NDTI	/	8000
St. Niklaas	1			3,2			Vølund			/	
	2			3,2			Vølund			/	
Thurmaide	1	1985	2011	7	9,21	Grille M	W+E	Hor S	W+E	365/36	8136
	2	2001	?	16	8,5	Grille M	Martin	Hor S	CNIM	395/45	7832
	3	2001	?	16	8,5	Grille M	Martin	Hor S	CNIM	395/45	7509

Belgium

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Antwerpen	1	NO INFO					
	2	NO INFO					
Brugge	1	WET acid	1982	---	1982	Baumco (Germany)	80 °C
	2	WET acid + WET basic + FF	1982	---	1997	extension: Fabricom Belgium	120 °C
	3	Wet acid + WET basic + FF + SCR	1982	---	2004	extension: AMECSPIE Belgium	170 °C
Brussel	1	NO INFO					
	2	NO INFO					
	3	NO INFO					
Doel-Beveren	1	FF/SD/WET/SNCR					
	2	FF/SD/WET/SNCR					
	3	FF/SD/WET/SNCR					
Eeklo	1	ESP+SD+FF					175
	2	ESP+SD+FF					175
Gent	1	SD/WET/FF/ESP/SCR			1996/	Seghers Better Tehnology	150
	2	SD/WET/FF/ESP/SCR			1996/	Seghers Better Tehnology	150
Harelbeke	1	NO INFO					
	2	NO INFO					
Herstal	1	SD ESP FF					120
	2	SD ESP FF					120
	3	SD ESP FF					120
	4	SD ESP FF					120
Houthalen	1	SD/ESP/SCR	1994	FLS	2003	ABAY	141°C
	2	SD/ESP/SCR	1994	FLS	2003	ABAY	141°C
Knokke-Heist	1	NO INFO					
	2	NO INFO					
Menen	1	SD				Seghers BT + Research Cottrell	150
	2	SD				Seghers BT + Research Cottrell	150
Oostende	1	SD + FF (1998 - Alstom)	1982	Fläkt		common : SCR 2004 - Fabricom	200
	2	SD + FF (1998 - Alstom)	1982	Fläkt			
Pont-de-Loup	1	NO INFO					
	2	NO INFO					
	3	NO INFO					
Roeselare	1	NO INFO	1998	Cotrell	1986	DRY - ESP - FF - SCR	205
	2	NO INFO	1998	Cotrell	1986	DRY - ESP - FF - SCR	205
St. Niklaas	1	NO INFO					
	2	NO INFO					
Thurmaide	1	Combiné (SD +WET)	1985		1996	NEU PROCESS INTERNATIONAL	63
	2	Combiné (SD + WET)		NON	1996	NEU PROCESS INTERNATIONAL	63
	3	WET Humide sans rejet liquide		NON	2001	CNIM	63

Belgium

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Virginal	1			5			Bartholomé			380/40	
	2			5			Bartholomé			380/40	
Wilrijk (Antwerpen)	1			9	9,5	M	Seghers	S		400/40	8122
	2			9	9,5	M	Seghers	S		400/40	7766

Belgium

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP		Flue Gas Cleaning		Flue Gas Temp., °C
			Year	Supplier	Year	Supplier	
Virginal	1	NO INFO					
	2	NO INFO					
Wilrijk (Antwerpen)	1	SD-WET-ESP-SNCR	1999		1999		68
	2	SD-WET-ESP-SNCR	1999		1999		68

Belgium
Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Antwerpen								
Brugge	174733	129933	41277			3523		
Brussel								
Doel-Beveren	397029							O:1197314
Eeklo								
Gent	94383	81576				475	12332	O:153,33 G:4381600
Harelbeke								
Herstal	123787	89645	34142					
Houthalen	69195	65195	2300	0	0	1700	0	O:325598 G:1500000
Knokke-Heist								
Menen								
Oostende	65000	50000	15000	0	0	0	0	
Pont-de-Loup								
Roeselare	56000	45000	11000					
St. Niklaas								
Thurmaide	259614	69386	134910		7352	22157	16728	O:284804
Virginal								
Wilrijk (Antwerpen)	130952	130952	0	0	0	0		

Belgium
Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Antwerpen								
Brugge	26982		439323	27825	326525		5531	27262
Brussel								
Doel-Beveren	110355	13510	1300000	150308		566645	148445	
Eeklo								
Gent	16292	4741						
Harelbeke								
Herstal	17552	6705	462622	83495			62387	
Houthalen	16043	2815		25426	14062		19306	14062
Knokke-Heist								
Menen								
Oostende	13000	2000		27000		0	20000	0
Pont-de-Loup								
Roeselare	8800	2000			125000			28000
St. Niklaas								
Thurmaide	55850	11225		149098			126217	
Virginal								
Wilrijk (Antwerpen)				78504			78504	

Number of plants: 3

Average capacity: 39 t/h

Quantity treated 2004: 410.000 t

Czech Republic
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Brno	SAKO Brno www.sako.cz	Jedovnická 2 62800 Brno	+420 548 138 140 +420 548 138 102
Liberec	TERMIZO Liberec www.termizo.cz	Dr. Milady Horakove 571/56 46006 Liberec 7	+420 482 428 682 +420 482 428 672
Praha	Spalovna Malešice www.psas.cz	Prumyslova 615 / 32 18000 Praha 10	+420 284 098 825 +420 272 704 344

Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace		Boiler		Steam Data oC/bar	Hours of Operat.2004
						Type	Supplier	Type	Supplier		
Brno	1	1989	2008	15	10,87	Rotary	CKD Dukla, licence BABCOCK	S		220/10	4436
	2	1989	2006	15	10,87	Rotary	CKD Dukla, licence BABCOCK	S		220/10	3806
	3	1989	2006	15	10,87	Rotary	CKD Dukla, licence BABCOCK	S		220/10	1625
Liberec	1	1999	2029	12	10,5	Moveable	Von Roll Zürich	Steam	Von Roll Zürich, Liberecky Energomont a.s.	400/40	8070
Praha	1	1998	-	15	10	M	CKD Dukla	S	CKD Dukla	235/13,5	5766
	2	1998	-	15	10	M	CKD Dukla	S	CKD Dukla	235/13,5	3643
	3	1998	-	15	10	M	CKD Dukla	S	CKD Dukla	235/13,5	3943
	4	1998	-	15	10	M	CKD Dukla	S	CKD Dukla	235/13,5	3634
				117							

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Brno	106.740	101.769	4.717	0	0	254	0	G:252051
Liberec	92.260	81.809	4.124	0	0	0	6.327	G:117943
Praha	211.383	211.383	-	-	-	-	-	G:900002

Czech Republic
General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Brno	Vaclav Hnanicek hnanicek@sako.cz	SAKO Brno, a.s.	Jedovnická 2 62800 Brno
Liberec	Jana Penickova penickova@termizo.cz	TERMIZO a.s. 250000	Dr. Milady Horakove 571/56 46006 Liberec 7
Praha	Pavel Beran beranp@psas.cz	Pražské služby, a.s.	Pod Šancemi 444/1 180 77 Praha 9

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp.,°C
Brno	1	semi-dry	1989	ZVVZ Milevsko	1994	ABB Flakt	145
	2	semi-dry	1989	ZVVZ Milevsko	1994	ABB Flakt	145
	3	semi-dry	1989	ZVVZ Milevsko	1994	ABB Flakt	145
Liberec	1	wet, FF, ESP, SNCR	1999	ZVVZ Milevsko	1999	Von Roll Zürich, ZVVZ Milevsko, EVECO Brno	45
Praha	1	Wet, ESP, SNCR	1998	ZVVZ Milevsko	1998	CKD Dukla	110
	2	Wet, ESP, SNCR	1998	ZVVZ Milevsko	1998	CKD Dukla	110
	3	Wet, ESP, SNCR	1998	ZVVZ Milevsko	1998	CKD Dukla	110
	4	Wet, ESP, SNCR	1998	ZVVZ Milevsko	1998	CKD Dukla	110

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Brno	24.196	5.063	305.742	1.726	241.651	156.989		189.804
Liberec	35.503	1.064	268.949	15.074	239.066		5.702	168.769
Praha	54.459		608.609	-	488.648	421.026	-	336.146

Number of plants: 34

Average capacity: 17 t/h

Quantity treated 2004: 3.010.000 t

Denmark
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Esbjerg	L90 Affaldsforbrænding www.L90.dk	Måde Industrivej 35 6705 Esbjerg Ø	+45 7915 1300 +45 9626 1510
Frederikshavn	Frederikshavns Affaldskraftvarmeværk A/S www.elsamkraft.dk	Vensysselsvej 201 9900 Frederikshavn	+45 7924 1020
Glostrup	I/S Vestforbrænding www.vestfor.dk	Ejbymosevej 219 2600 Glostrup	+45 4485 7000 +45 4485 7001
Grenaa	Grenaa Forbrændingsanlæg	Kalorievej 9 8500 Grenaa	+45 8759 2813 +45 8759 2819
Haderslev	Haderslev Kraftvarmeværk www.elsamkraft.dk	Dybkær 2, Marstrup 6100 Haderslev	+45 7924 1160 +45 7924 1170
Hadsund	Hadsund Bys Fjernvarmeværk	Fabriksvej 1 9560 Hadsund	+45 9857 1632 +45 9857 4432
Hammel	Hammel Fjernvarme A.m.b.a. www.hammelfjernvarme.dk	Irlandsvej 6 8450 Hammel	+45 8696 9766 +45 8696 9766
Herning	Knudmose Værket	Miljøvej 2 7400 Herning	+45 9926 8211 +45 9926 8212
Hjørring	Forbrændingsanlæg AVV www.avv.dk	Mandøvej 8 9800 Hjørring	+45 9623 6644 +45 9623 6611
Hobro	I/S Fælles Forbrænding www.isff.dk	Hvedemarken 13, Postboks 130 9500 Hobro	+45 9657 6100 +45 9657 6101
Holstebro	Måbjergværket A/S www.elsamkraft.dk	Energivej 2 7500 Holstebro	+45 7924 1120 +45 7924 1140
Horsens	Horsens Kraftvarmeværk A/S www.elsamkraft.dk	Endelavevej 7 8700 Horsens	+45 7924 1060 +45 7924 1070
Høje-Taastrup	Vestforbrænding I/S (Taastrup) www.vestfor.dk	Lervangen 1-3 2630 Høje Taastrup	+45 4350 0000 +45 4350 0090
Hørsholm	Nordforbrænding I/S www.nordf.dk	Savsvinget 2 2970 Hørsholm	+45 4516 0500 +45 4516 0511
Kolding	Kolding Forbrændingsanlæg www.tas-is.dk	Bronzevej 6 6000 Kolding	+45 7632 5000 +45 7632 5055
København	I/S Amagerforbrænding www.amfor.dk	Kraftværksvej 31 2300 København S	+45 3268 9300 +45 3268 9393
Leirvik	Brennistøðin á Hagaleiti www.irf.fo	Hagaleiti, Postboks 39 FO-520 Leirvik	+298 473300 +298 473340
Middelfart	Vestfyns Forbrændingsanlæg www.tas-is.dk	Fynsvej 52 5500 Middelfart	+45 7632 5000 +45 7632 5055
Nykøbing F	I/S REFA www.refa.dk	Energivej 4 4800 Nykøbing F.	+45 5484 1400 +45 5484 1414
Næstved	I/S FASAN www.fasan.dk	Ved Fjorden 20 4700 Næstved	+45 5575 0800 +45 5575 0825
Odense	Odense Kraftvarmeværk A/S www.elsamkraft.dk	Havnegade 120, Postboks 928 5000 Odense C	+45 7924 1080 +45 6590 3812
Roskilde	KARA www.kara.dk	Håndværkervej 70 4000 Roskilde	+45 4634 7500 +45 4634 7510
Rønne	BOFA I/S www.bofa.dk	Almegårdsvej 8 3700 Rønne	+45 5693 3228 +45 5695 9203
Skagen	Skagen Forbrænding	Buttervej 66 9990 Skagen	+45 9844 5496 +45 9845 1600
Skanderborg	Renosyd i/s www.renosyd.dk	Norgesvej 13 8660 Skanderborg	+45 8652 5211 +45 8652 5241

Denmark

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Esbjerg	Jan Fletcher Hansen l90@l90.dk	L90 612.000	Poppelvej 1 7400 Herning
Frederikshavn	Poul Engling-Poulsen pcp@elsam.com	Elsam Kraft A/S 55.000	Overgade 45 7000 Fredericia
Glostrup	Henrik Ørnebjerg hoe@vestfor.dk	I/S Vestforbrænding 875.000	Ejbymosevej 219 2600 Glostrup
Grenaa	Ehlers Brodersen ebo@grenaakommune.dk	Grenaa kommune 82270	Torvet 3 8500 Grenaa
Haderslev	Harry Hansen hh@elsam.com	Elsam A/S 125000	Overgade 45 7000 Fredericia
Hadsund	Ejnar Sand hadsund_fjernvarme@mail.dk	Consumer-owned	
Hammel	Niels Haugaard nh@hammelfjernvarme.dk	Hammel Fjernvarme A.m.b.a.	Irlandsvej 6 8450 Hammel
Herning	Ove H. Jespersen ohj@egjylland.dk	EG. Jylland	Dalgas Alle 3 7400 Herning
Hjørring	Christen Pedersen cp@avv.dk	AVV I/S	Mandøvej 4 9800 Hjørring
Hobro	Thomas Nielsen tn@isff.dk	I/S Fælles Forbrænding	Hvedemarken 13, Postboks 130 9500 Hobro
Holstebro	Erik Tranberg et@elsam.com	Elsam A/S	Overgade 45 7000 Fredericia
Horsens	Leif Sørensen les@elsam.com	Elsam A/S	Overgade 45 7000 Fredericia
Høje-Taastrup	Poul Erik Sørensen ps@vega-affald.dk	Vestforbrænding	Ejbymosevej 219 2600 Glostrup
Hørsholm	Henrik Bo Christiansen nordf@nordf.dk	I/S Nordforbrænding	Savsvinget 2 2970 Hørsholm
Kolding	Jan Højte Nielsen jhn@tas-is.dk	TAS I/S	Bronzevej 6 6000 Kolding
København	Poul Bach Olsen pbo@amfor.dk	I/S Amagerforbrænding 530000	Kraftværksvej 31 2300 København S
Leirvik	Poul Andrias Joensen poul@irf.fo	IRF, Interkommunali Renovatiónsfelagsskapurin L/F 29029	Hagaleiti, Postboks 39 FO-520 Leirvik
Middelfart	Jan Højte Nielsen jhn@tas-is.dk	TAS	Bronzevej 6 6000 Kolding
Nykøbing F	Bjørn Stender bls@refa.dk	I/S REFA 116000	Energivej 4 4800 Nykøbing F.
Næstved	Leif F. Mortensen lfm@fasan.dk	I/S FASAN 192.000	Ved Fjorden 20 4700 Næstved
Odense	Peter C. Graversen pcg@elsam.com	Elsam Kraft A/S	Overgade 45 7000 Fredericia
Roskilde	Stig L. Schmidt kara@kara.dk	I/S KARA 239.000	Håndværkervej 70 4000 Roskilde
Rønne	Jean Soelberg driftsleder@bofa.dk	Municipality of Bornholm	Ullasvej 23 3700 Rønne
Skagen	Lars Østergaard lars.oestergaard@skagen.dk	Municipality of Skagen 10000	Sct. Laurentii Vej 87 9990 Skagen
Skanderborg	Finn Søgaard renosyd@renosyd.dk	Renosyd i/s 94.381	Norgesvej 13 8660 Skanderborg

Denmark
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Slagelse	Energien www.kavo.dk	Dalsvinget 11 4200 Slagelse	+45 5852 6289 +45 5853 3879
Svendborg	Svendborg kraftvarmeværk www.svendborg.dk	Bodøvej 15 5700 Svendborg	+45 6321 5535 +45 6321 5585
Sønderborg	Sønderborg Kraftvarmeværk I/S www.skvv.dk	Vestermark 16 6400 Sønderborg	+45 7442 0200 +45 7442 0211
Thisted	Kraftvarmeværk Thisted I/S www.kvvt.dk	Industrivej 9, Postboks 166 7700 Thisted	+45 9792 1442 +45 9791 1442
Torshavn	Torshavn Forbrændingsanlæg	Á Hjalla, 188 Hoyvik FO-110 Torshavn	+298 302040 +298 302041
Vejen	Vejen Kraftvarmeværk www.elsamkraft.dk	Koldingvej 30B 6600 Vejen	+45 7924 1160 +45 7924 1170
Aalborg	Reno-Nord I/S www.reno-nord.dk	Troensevej 2 9220 Aalborg Øst	+45 9815 6566 +45 9815 1797
Århus	Kraftvarmeanlæg Århus Nord www.aakv.dk	Ølstedvej 20 8200 Århus N	+45 8940 1500 +45 8940 1505
Aars	Aars Fjernvarmeværk www.aarsfjv.dk	Dybvad Møllevej 1 9600 Aars	+45 9998 8070

Denmark

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Slagelse	Ole Andersen oja@kavo.dk	I/S KAVO 140000	Møllesøvej 7 4241 Vemmelev
Svendborg	Peter Boysen affald@svendborg.dk	Svendborg kommune	Ramsherred 5 5700 Svendborg
Sønderborg	Erik Wolff ewo@skvv.dk	Sønderborg Kraftvarmeværk I/S	Vestermark 16 6400 Sønderborg
Thisted	Jørgen Skaarup js@kvvt.dk	I/S Thyra (50%) / Thisted Vandforsyning (50%) 77717	Asylgade 30 / Ringvejen 26 7700 Thisted
Torshavn	Bárdur Michelsen bardur@torshavn.fo	Torshavnar Kommuna 19282	Vaglið FO-100 Torshavn
Vejen	Harry Hansen hh@elsam.com	Elsam A/S	Overgade 45 7000 Fredericia
Aalborg	Henrik Skov hs@reno-nord.dk	I/S Reno-Nord	Troensevej 2 9220 Aalborg Øst
Århus	Juul Meldgaard jm@akv.aarhus.dk	Århus kommunale Værker ca. 300000	Bautavej 1 8210 Århus V
Aars	Per Sørensen pso@aarsfjv.dk	I/S Aars Varmeværk	Dybvad Møllevej 1 9600 Aars

Denmark

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Esbjerg	1	2003		24	11,5	M	Vølund	S	Vølund	400/42	7693
Frederikshavn	1	1994		5		M	Vølund	S		400/48	7922
Glostrup	1	1970		10	11	R	Vølund	HW	Vølund		6110
	2	1970		10	11	R	Vølund	HW	Vølund		6370
	3	1970	2004	10		R	Vølund	HW	Vølund		4390
	4	1975	2004	14		R	Vølund	HW	Vølund		4500
	5	1998		28	11	M	Vølund	S	Vølund	380/52	6700
	6	2004		35	11	M	Fisia Babcock	S	Fisia Babcock	380/52	
Grenaa	1	1981, 2000		2,5	8,4	M	Vølund	HW	Vølund		8125
Haderslev	1	1993		4,5	9,2	M	Krüger	S	Aalborg Boilers	520/65	7352
	2	1993		4,5	9,2	M	Krüger	S	Aalborg Boilers	520/65	7161
Hadsund	1	1984	2005	1,3	11,6	M	Vølund	WW	Vølund		5397
	2	1984	2005	1,3	11,6	M	Vølund	WW	Vølund		6862
Hammel	1	1986		2,5	10,5	M	Vølund	WW	Vølund		
	2	2002		4		M	Vølund	WW	Vølund		
Herning	1	1994		5	11,7	M	Vølund	S	Vølund	400/66	8248
Hjørring	1	1986	2005	3	9,6	M	Vølund	WW	Vølund		
	2	1986		3	9,6	M	Vølund	WW	Vølund		442
	3	1998		6	12	M	Krüger	S	BWE	400/48	8027
Hobro	1	1981		3	10,5	M	B&S	WW	Vølund		8639
	2	2001		3,9	10	M	Vølund	WW	Vølund		
Holstebro	1	1992		9	11	M	Vølund	S	Vølund	412/67	7490
	2	1992		9	11	M	Vølund	S	Vølund	412/67	7811
	3	1992		10	14	M	Vølund	S	Vølund	412/67	
Horsens	1	1992	2019	5	10	M	Vølund	S	Vølund	425/48	8252
	2	1992	2019	5	10	M	Vølund	S	Vølund	425/48	8315
Høje-Taastrup	1	1989	2005	2,5	12,5	M	Vølund	WW	Vølund		
	2	1989	2005	2,5	12,5	M	Vølund	WW	Vølund		
Hørsholm	1	1989		3	10	M	Vølund	WW	Vølund		
	2	1988		3	10	M	Vølund	WW	Vølund		
	3	1987		3	10	M	Vølund	WW	Vølund		
	4	1999		10	12,5	M	ABB Enertech	S	Alstom	400/50	
Kolding	1	1982	2005	4	8,4	M	B&S	W	DSV		6066
	2	1982	2005	4	8,4	M	B&S	W	DSV		5406
	3	1993		9,2	10	M	Krüger	S	Aalborg Boilers	425/55	8155
København	1	1971, 2001		15		M	Vølund	S	Vølund	380/46	7021
	2	1971, 2001		15		M	Vølund	S	Vølund	380/46	6708
	3	1971, 2000		15		M	Vølund	S	Vølund	380/46	7044
	4	1990, 1999		15		M	Vølund	S	Vølund	380/46	7140
Leirvik	1	1989		2,5	8,4	M	Vølund	WW	Vølund		7670
Middelfart	1	1972	2005	2	8,4	M	B&S	WW	Danstoker		7862
	2	1974	2005	2	8,4	M	B&S	WW	Danstoker		7862
Nykøbing F	1	1983		4	9,4	M	Vølund	WW	Vølund		4750
	2	1983		4	9,4	M	Vølund	WW	Vølund		4478
	3	1999		9	12	M	Vølund	S	Vølund	400/40	7873

Denmark

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Esbjerg	1	FF+WET	2003		2003	FLS	60
Frederikshavn	1	ESP+WET+WetESP	1994	FLS	2005	FLS	
Glostrup	1	SNCR+ESP+FF+WET	1970	Rothemühle	2000	Götaverken	110
	2	SNCR+ESP+FF+WET	1970	Rothemühle	2000	Götaverken	110
	3		1970	Rothemühle			
	4		1974	Rothemühle			
	5	SNCR+ESP+WET+FF	1998	FLS Miljoe	1998	ABB	110
	6	SNCR+FF+WET	2004		2004	Götaverken	110
Grenaa	1	DRY+FF			1992/	ABB/Alstom	140
Haderslev	1	FF+WET			1993	FLS	58
	2	FF+WET			1993	FLS	58
Hadsund	1	ESP+WET	1984	FLS	1995	ABB	62
	2	ESP+WET	1984	FLS	1995	ABB	62
Hammel	1	DRY+FF			2002	Alstom	
	2	DRY+FF			2002	Alstom	
Herning	1	ESP+WET	1994	ABB	1994	ABB	50
Hjørring	1	ESP+WET		Flåkt		ABB	60
	2	DRY+FF			2005	Simatek	140
	3	DRY+FF			2005	Simatek	140
Hobro	1	ESP+WET				ABB	175
	2	ESP+WET				FLS/ABB	175
Holstebro	1	SNCR+ESP+WET	1992	ABB	92/04	ABB/Götaverken	75-85
	2	SNCR+ESP+WET	1992	ABB	92/04	ABB/Götaverken	75-85
	3	FF			1992	ABB	95
Horsens	1	DRY+FF			1992	ABB/Fläkt	140
	2	DRY+FF			1992	ABB/Fläkt	140
Høje-Taastrup	1	DRY+FF				FLS/Vølund	142
	2	DRY+FF				FLS/Vølund	142
Hørsholm	1	SNCR+DRY+FF				Fläkt	120
	2	SNCR+DRY+FF				Fläkt	120
	3	SNCR+DRY+FF				Fläkt	120
	4	SNCR+ESP+WET+FF	1999	FLS	1999	FLS	120
Kolding	1	ESP+WET	1982	Flåkt	1989	FLS	60
	2	ESP+WET	1982	Flåkt	1989	FLS	60
	3	DRY			2004	Simatek	140
København	1	SNCR+SD+FF			1990	Vølund+Fläkt+Niro	130
	2	SNCR+SD+FF			1990	Vølund+Fläkt+Niro	130
	3	SNCR+SD+FF			1990	Vølund+Fläkt+Niro	130
	4	SNCR+SD+FF			1990	Vølund+Fläkt+Niro	130
Leirvik	1	ESP	1989		1989		
Middelfart	1	DRY+FF			1989	Fläkt	140
	2	DRY+FF			1989	Fläkt	140
Nykøbing F	1	SD+FF	1983		2004	Filcon	140
	2	SD+FF	1983		2004	Filcon	140
	3	SD+FF	1999		1999	FLS	140

Denmark

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Næstved	1	1983	2005	4,5	10,5	M	Vølund	S	Vølund	410/70	5980
	2	1995		4,5	10,5	M	Vølund	S	Vølund	400/50	7341
	3	1995		4,5	10,5	M	Vølund	S	Vølund	400/50	7581
	4	2005		8	12	M	Vølund	S	Vølund	400/50	
Odense	1	1996		8	10,5	M	B&S	S	BWE/B&S	380/65	7882
	2	1996		8	10,5	M	B&S	WW	BWE/B&S	380/65	8299
	3	2000		16	11,5	M	BBPE	WW	BBPE	380/65	7889
Roskilde	1										
	3	1980		7	10,5	M+R	Vølund	WW	Vølund		2762
	4	1988		7	10,5	M+R	Vølund	WW	Vølund		0
	5	1999		20	11,5	M	ABB Enertech	S	ABB	400/40	7748
Rønne	1	1991		2,5	9,2	F	B&S	WW	B&W		7859
Skagen	1	1979		2		M	B&S	WW	Vølund		7915
Skanderborg	1	1983		4,5	8,8	M	B&S	WW	Aalborg Boilers		4545
	2	1992		5,5	10,4	M	B&S	S	Aalborg Boilers	400/46	7730
Slagelse	1	1990	2021	6	10,5	M	B&S (Vølund)	S	Aalborg Industries	430/67	7182
	2	1983	2010	4	10,5	M	B&S (Vølund)	WW	Danstoker		8200
Svendborg	1	1999		6	12	M	Vølund	S	Vølund	400/50	8140
Sønderborg	1	1996		8	10,5	M	Krüger	S	BWE	420/60	7913
Thisted	1	1991		6,36	9,21	M	Vølund	S	Vølund	400/46	8325
Torshavn	1	1987		2,5	10,5	M	B&S	WW	Aalborg Boilers		6997
Vejen	1	1991		4,3	11,9	M	Vølund	S	Vølund	410/51	8474
Aalborg	1	1980	2005	8	10,5	M/R	Vølund	HW	Vølund		4282
	2	1980	2005	8	10,5	M/R	Vølund	HW	Vølund		4541
	3	1991		11	10,5	M	B&S	S	Aalborg Boilers	425/50	8100
	4	2005		20	12	M	Vølund	S	Vølund	425/50	
Århus	1	1995		7,6	10,5	M	B&S	S	Aalborg Boilers	430/66	7620
	2	1994		7,6	10,5	M	B&S	S	Aalborg Boilers	430/66	7991
	3	1992	2004	8	10,5	M	B&S	HW	Vølund		6392
	4	2004		16	11	M	Fisia-Babcock	S	Fisia-Babcock	400/40	926
Aars	1	1985		3,5		M	B&S	WW	Aalborg Boilers		
	2	1995		5		M	B&S	S	Aalborg Boilers	430/47	

Denmark

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Næstved	1						
	2	ESP+DRY+FF+WET		ELEX	2005	Alstom	60
	3	ESP+DRY+FF+WET		ELEX	2005	Alstom	60
	4	SNCR+DRY+FF+WET			2005	Alstom	60
Odense	1	SNCR+ESP+WET+FF	1996	ABB	1996	ABB	98
	2	SNCR+ESP+WET+FF	1996	ABB	1996	ABB	96
	3	SNCR+FF+WET			2000	BBPE	66
Roskilde	1						
	3	SNCR+SD+FF				FLS	150
	4	SD+FF				FLS	150
	5	SNCR+ESP+WET+FF	1999	ABB	1999	ABB	120
Rønne	1	SD+FF				Fläkt	140
Skagen	1	ESP+DRY+FF			1992	ABB	140
Skanderborg	1	ESP+FF+WET	1983	Research-Cottrell	2005	ABB/Fläkt/Alstom	65
	2	ESP+FF+WET	1992	ABB Flakt	2005	ABB/Fläkt/Alstom	65
Slagelse	1	DRY+FF			2004	Simatek	140
	2	DRY+FF			2005	Simatek	140
Svendborg	1	ESP+WET	1999	ABB	1999	LAB	65
Sønderborg	1	ESP+WET	1996	ABB		ABB+LAB	65
Thisted	1	FF+WET+FGC			2002	Götaverken	60
Torshavn	1	ESP		Fläkt		Fläkt	200
Vejen	1	DRY+FF			2004	Filcon	135
Aalborg	1	SD+ESP				FLS	150
	2	SD+ESP				FLS	150
	3	SD+ESP				FLS	150
	4	SNCR+ESP+WET+FGC	2005	Alstom	2005	LAB	54
Århus	1	SNCR+DRY+FF			2005	Alstom	130
	2	SNCR+DRY+FF			2005	Alstom	130
	3	SD+ESP		FLS		FLS	130
	4	SNCR+FF+WET			2004	Fisia-Babcock	
Aars	1	NO INFO					
	2	NO INFO					

Denmark

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Esbjerg	181635			0	0	0	0	O:388000
Frederikshavn	35295							O:25700
Glostrup	466000						bonemeal	
Grenaa	20975	12493	6166				2240	B:76
Haderslev	56292							G:13677
Hadsund	20092	12648	4845					B:2599
Hammel	29501							
Herning	39341							G:1004194
Hjørring	61270	31718	26338	0	2735	479	0	
Hobro	25450	15745	9705	0	0	0	0	G:10812 B:487
Holstebro	142957							
Horsens	70713							B:313
Høje-Taastrup	53356							
Hørsholm	109493	51304	28835	0	137	0	29218	G:74919
Kolding	94169	36786	55659				829	B:895
København	401823	208807	177411	0	0	1942	13663	
Leirvik	16116							O:18637
Middelfart	21098	8700	12330					B:68
Nykøbing F	105000	40000	53000	0	0	0	6000	O:180000 B:6000
Næstved	89458	48961	40316	63				B:118
Odense	26498	100790	109740				57968	O:664000
Roskilde	198443							G:239622
Rønne	21158							
Skagen	11116							
Skanderborg	57002							O:116299
Slagelse	60152			0	0	0	0	
Svendborg	54000	21900	23500			400	8200	G:53000
Sønderborg	65918							
Thisted	51821	22474	28479					B:868
Torshavn	14365							
Vejen	38164							
Aalborg	134774	74025	60749					
Århus	183047	92973	90274			361		O:339521 B:1476
Aars	53461							

Denmark

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Esbjerg	36225	4111				0	94178	398925
Frederikshavn	12312	810		18065	75194		14935	75083
Glostrup	95000	15200		107000	1168000		107000	1063000
Grenaa	3900	433			49493			
Haderslev	9893	770		32216	100554		26702	86111
Hadsund	3490	222			46618			43221
Hammel	5088	1106			77918			
Herning	6295	743		27728	85630		27728	85630
Hjørring	13676	655		34763	112435			106180
Hobro	5360	404	0	0	68900	0	0	47623
Holstebro	27589	2419		158392	452500		141650	432200
Horsens	15924	1741		44463	151873		40683	128126
Høje-Taastrup	10064	1271		0	134705			
Hørsholm	17728	3365		49560	236518			214099
Kolding	15431	1923		49401	206750		44681	188294
København	80365	21655		149417	813941		149417	792340
Leirvik	2365	124						
Middelfart	4194	338			48330			48330
Nykøbing F	21000	2100	0	40600	211500	0	40600	184900
Næstved	16904	1387		41406	223726		37348	197427
Odense	53479	4092		178371	530833		156893	530278
Roskilde	41358	5627		104200	381518		104200	381518
Rønne	3102	355			58333			47346
Skagen	2445	240			27835			19530
Skanderborg	9986	1183		22147	120050		22147	107275
Slagelse	11013	1417		21787	135278			
Svendborg	9600	950		32600	111300		28600	100100
Sønderborg	11882	630		38235	127449			
Thisted	9014	1183		20516	116483		16453	103583
Torshavn	1562	290						
Vejen	7520	1089		19069	71944		16086	58333
Aalborg	36422	4538		41545	283508		36510	283508
Århus	30472	4399		63067	374303		60217	374113
Aars	9298	699		17625			17625	58978

Number of plants: 1

Average capacity: 8 t/h

Quantity treated 2004: 49.000 t

Finland

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Turku	Orikedon Jätteenpolttolaitos www.turko.fi	Polttolaitoksenkatu 13 20380 Turku	+358 2262 4640

Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace		Boiler		Steam Data oC/bar	Hours of Operat.2004
						Type	Supplier	Type	Supplier		
Turku	1	1975/ 1995	2009	4	10	M	von Roll	HW	Volund		7300
	2	1975/ 1995	2009	4	10	M	von Roll	HW	Volund		7300

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Turku	49.000	49.000						O:5000

Finland

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Turku	Esko Pohjanen esko.pohjanen@turku.fi	Turkun Kaupunki (Turkun city) 175000	Linnankatu 55 20100 Turku Finland

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp.,°C
Turku	1	SD	1975	ABB	1995	ABB	135
	2	SD	1975	ABB	1995	ABB	135

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Turku	10.000	2.000			104.700			

Number of plants:	127
Average capacity:	15 t/h
Quantity treated 2004:	8.238.000 t

France
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Amilly	Montargis www.novergie.fr	215 rue de Paucourt 45200	+33 02 38 87 37 38 +33 02 38 87 37 39
Antibes	Antibes www.sidom.fr	route de Grasse 06600	+33 04 93 65 48 07 +33 04 93 95 8178
Argenteuil	Argenteuil www.novergie.fr	2 rue du Chemin Vert 95100	+33 01 34 11 70 31 +33 01 34 11 70 32
Arrabloy	Gien www.groupe-tiru.com	Les Gatines 45500	+33 02 38 29 81 40 +33 02 38 38 38 20
Aurillac	Aurillac	19 rue du Docteur Mallet 15000	+33 04 71 46 86 30 +33 04 71 48 71 08
Bayonne	Bayonne www.novergie.fr	CIVD des Bacheforès, Chemin de Loustaounou 64100	+33 05 59 44 26 44 +33 05 59 44 26 45
Bègles	Bordeaux (Bègles) www.novergie.fr	rue Louis Blériot 33323	+33 05 57 35 16 80 +33 05 57 35 16 81
Bellegarde sur valserine	Bellegarde sur valserine www.novergie.fr	ZI Arlod Chantavril 01200	+33 04 50 56 67 30 +33 04 50 56 67 37
Bellentre	Bourg St Maurice (Valezan) www.novergie.fr	RN 90 - Lieu Dit Le Praz 73210	+33 04 79 09 80 56
Benesse-Maremne	Benesse Maremne sitcom40.fr	 40230	+33 05 58 72 03 94 +33 05 58 72 47 57
Besançon	Besançon www.novergie.fr	8 rue Edouard Belin 25000	+33 03 81 21 15 60 +33 03 81 21 15 61
Bessières	Bessières (Econotre) www.novergie.fr	ZA des Turquès - Route de Montauban 31660	+33 05 34 26 03 00 +33 05 34 26 03 01
Béthune	Labeuvrière	 62411	+33 03 21 61 50 00 +33 03 21 61 50 43
Blois	Blois 2	161 avenue de Chateaudun 41000	+33 02 54 74 62 53 +33 02 54 74 62 26
Bourgoin Jallieu	Bourgoin Jallieu	3 rue du Pont Rouge - BP 594 38314	+33 04 74 43 27 89 +33 04 74 93 70 20
Bourogne	Belfort (Bourogne)	 90140	+33 03 84 36 46 90 +33 03 84 36 46 92
Brest	Brest	179 Boulevard de l'Europe 29200	+33 02 98 34 32 10 +33 02 98 34 32 51
Briec de l'Odet	Briec (Quimper)	ZI Luminoc'h 29510	+33 02 98 98 88 76 +33 02 98 52 02 53
Brive la Gaillarde	Brive	 19100	+33 05 55 17 65 10 +33 05 55 17 65 19

France

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Amilly	M. BOUTON jeanfrancois.bouton@wanadoo.fr	SMIRTOM	Parc de Chaumont 45700 Pannes
Antibes	M. Dominique LAURENT dominique.laurent@sidom.fr	SIDOM d'Antibes 240000	Route de Grasse - BP 63 06602 Antibes Cedex
Argenteuil	Mme. FAVROU par courrier	Syndicat Azur à Argenteuil	2 rue du Chemin Vert 95100 Argenteuil
Arrabloy	M. Jacques BERRY jacques.berry@groupe-tiru.com	SIDEME 170000	Les Gatines 45500 Arrabloy
Aurillac	Melle Isabelle GUILLAUME i_guillaume@agglo-aurillac.org	Communauté d'agglomération du Bassin d'Aurillac	3 Place des Carmes - BP 501 15005 Aurillac
Bayonne	M. Dominique CARRERE biltagarbi@wanadoo.fr	Syndicat Mixte Biltagarbi	7 rue Candelé 64990 Saint Pierre d'Irube
Bègles	M. Thierry LAMOTTE thierry.lamotte@novergie.fr	ASTRIA	rue Louis Blériot 33323 Bègles
Bellegarde sur valserine	M. Vincent COLIN vincentcolin@sidefage.fr	SIDEFAGE	Z.I. Arlod - 5 Chemin du Tapey 01200 Bellegarde sur Valserine
Bellentre	pas de réponse	SITOM de Aime	RN 90 - Lieu Dit Le Praz 73210 Aime
Benesse-Maremne	M. TOULLEC accueil@sitcom40.fr	SITCOM DE LA COTE SUD DES LANDES	62 Chemin du Bayonnais 40230 Benesse-Maremne
Besançon	M. LE PRESIDENT - envoi par courrier anne-laure.grandjean@besancon.fr	SYBERT	La City - 4 rue Gabriel Plançon 25043 Besançon
Bessières	M. LEONARD	ECONOTRE	ZA des Turquès - Route de Montauban 31660 Bessières
Béthune	M. Le Président alain.wacheux@agglo-artoiscomm.fr	Communauté d'agglomération de l'Artois	Hôtel Communautaire - 100 avenue de Londres - bp 548 62411 Béthune Cedex
Blois	M. Jean-Paul VERRIER val-eco41@wanadoo.fr	Val Eco - Syndicat Intercommunal de Traitement des Déchets du Blésois	1 rue Honoré de Balzac 41000 Blois
Bourgoin Jallieu	M. Alain COTTALORDA sitom.ni@wanaddo.fr	SITOM Nord Isère	3 rue du Pont Rouge - BP 594 38314 Bourgoin Jallieu Cedex
Bourogne	M. BRIQUET pbriquet@sertrid.fr	SERTRID	Zone Industrielle de Bourogne - BP 10 90140 Bourogne
Brest	M. Bertrand Huguen contact@brest-metropole-oceane.fr	CUB - Communauté Urbaine de Brest	Hôtel de CUB - 24 rue Coat Ar Gueven - BP 9224 29222 Brest Cedex 2
Briec de l'Odet	M. Le Président ou Mme Mélane BAUME melane.baume@mairie-quimper.fr	SIDEPAQ	Mairie - 44 Place Saint Corentin - BP 17059 29107 Quimper cedex
Brive la Gaillarde	M. PITTMAN ppittman@cg19.fr	SITOM 19	22 rue Berlioz 19100 Brive la Gaillarde

France

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Carhaix	Carhaix www.novergie.fr	Site de Kervoazou 29270	+33 02 98 99 35 00 +33 02 98 99 35 19
Carrières sous Poissy	Carrières sous Poissy www.novergie.fr	RD 190 Les Bouveries 78955	+33 01 30 06 30 30 +33 01 30 06 30 40
Carrières sur Seine	Carrières sur Seine www.novergie.fr	2 rue de l'Union 78420	+33 01 39 15 88 74 +33 01 39 15 88 41
Cenon	UIOM de Cenon	rue Jean Cocteau 33150	+33 05 56 99 10 57 +33 05 56 99 10 58
Cergy Pontoise	Cergy Pontoise	Parc d'activités les Bétunes 2 - ave. du Fief - BP 9111 - St Ouen L'Aumône 95073	+33 01 34 48 56 02 +33 01 34 48 56 01
Chambéry	Chambéry	73026	+33 04 79 96 86 20 +33 04 79 96 86 21
Chateaudun	Chateaudun	28200	+33 02 37 45 61 55 +33 02 37 66 00 64
Chaumont	Chaumont	ZI de la Dame Huguenotte 52000	+33 03 25 01 69 69 +33 03 25 01 69 60
Colmar	Colmar	68000	+33 03 69 99 55 90 +33 03 69 99 55 94
Colombelles	Caen (Colombelles) www.novergie.fr	9 rue Francis de Pressencé 14460	+33 02 31 30 45 57 +33 02 31 30 45 38
Concarneau	Concarneau	Le Poteau Vert - Rue Neuve 29900	+33 02 98 50 50 14 +33 02 98 60 53 30
Confort Meilars	Confort-Meilars (Douarnenez) www.groupe-tiru.com	Menez Gourret 29790	+33 02 98 75 51 53
Coueron	Nantes (Ouest)	La Cité Navale 44220	+33 02 40 85 36 78 +33 02 40 85 36 71
Cran Gevrier	Annecy	74962	+33 04 50 66 77 99 +33 04 50 66 78 00
Créteil	Créteil www.novergie.fr	10 rue de Malfourches 94000	+33 01 48 98 55 11 +33 01 48 98 48 83
Dieppe	Dieppe	76203	+33 02 35 06 61 32 +33 02 32 14 01 60
Dijon	Dijon www.grand-dijon.fr	rue alexander fleming 21075	+33 03 80 76 40 76 +33 03 80 76 40 80
Douchy les Mines	Douchy	7 route de Lourches 59282	+33 03 27 43 78 99 +33 03 27 43 86 67
Dunkerque	Dunkerque	rue A Carrel 59386	+33 03 28 62 70 85 +33 03 28 62 71 76

France

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Carhaix	M. Patrick POULIQUEN patrick.pouliquen@equipement.gouv.fr	SIRCOB - Syndicat Intercantonnal de repurgation du centre ouest bretagne	21 Route de Gourin 29270 Carhaix
Carrières sous Poissy	M. Jack FAIVRE jack.faivre@novergie.fr	SIDRU	Azalys - RD 190 Les Bouveries 78955 Carrières sous Poissy
Carrières sur Seine	M. POLI sitru.poli@wanadoo.fr	SITRU TRAITEMENT RESIDUS URB BOUCLE DE LA SEINE	2 rue de l'Union 78420 Carrières sur Seine
Cenon	M. BATZ so.co.gest@wanadoo.fr	SO.CO.GEST	40 rue de Belfort 33000 BORDEAUX
Cergy Pontoise	Stéphane PIERCOURT stéphane.piercourt@veolia-proprete.fr	(SAN) SYNDICAT AGGLO NOUVELLE DE CERGY PONTOISE	Parc d'activités les Bétunes 2 - ave. du Fief - BP 9111 - St Ouen L'Aumône 95073 Cergy Pontoise cedex
Chambéry	M. Pierre TOURNIER pierre.tournier@chambery-metropole.fr	Communauté d'agglomération de Chambéry Métropole	474 rue Aristide Bergès 73026 Chambéry Cedex
Chateaudun	M. Thibaut ROGER SICTOM.28200@wanadoo.fr	SICTOM DE LA REGION DE CHATEAUDUN	Route de Sancheville 28200 Chateaudun
Chaumont	Michel ROUYER michel.rouyer@veolia-proprete.fr	SHMVD	ZI de la Dame Huguenotte 52000 Chaumont
Colmar	Mme. Sylvia MORON s.moron@agglo-colmar.fr	SITDCE (Syndicat Intercommunal de traitement des déchets de Colmar et	environs) 32 Cours Sainte Anne 68000 Colmar
Colombelles	M. Le Président sydevac@ville-caen.fr	SYDEVAC	Hôtel de Ville - Esplanade Jean Marie Louvel 14000 Caen
Concarneau	M. KAUFMANN sicom3@wanadoo.fr	SICOM DE LA REGION SUD EST DU FINISTERE	Stang Argant - BP 111 29181 Concarneau Cedex
Confort Meilars	M. Jérôme CHAUVIN jchauvin.sitom@wanadoo.fr	SITOM Ouest de Cornouaille 45000	75 rue Ar Veret - BP 225 29172 Douarnenez cedex
Coueron	Emmanuel ALLORENT emmanuel.allorent@veolia-proprete.fr	Agglomération Nantaise	ARC EN CIEL - La Cité Navale 44220 Coueron
Cran Gevrier	M. Hugues De Calignon hugues.de-calignon@sila.fr	Syndicat Mixte du Lac d'Annecy (SILA)	7 rue des Terrasses - BP 39 74962 Cran Gevrier cedex
Créteil	M. Paul MAURY paul.maury@novergie.fr	CIE de Créteil	10 rue de Malfourches 94000 Créteil
Dieppe	Mme. MARSAULT - Direction Technique m.marsault@mairie-dieppe.fr	COMMUNE DE DIEPPE	Mairie-Parc Jehan Ango - BP 226 76203 Dieppe cedex
Dijon	M. ROUMILHAC proumilhac@grand-dijon.fr	Communauté de l'Agglomération Dijonnaise (COMADI - Grand Dijon) 350000	40 avenue du Drapeau - BP 17510 21075 Dijon
Douchy les Mines	M. Bernard NICOULAUD bernard.nicoulaud@siaved.fr	SIAVED - Syndicat intercommunal élimination des ordures ménagères 200000	5 route de Lourches 59282 Douchy Les Mines
Dunkerque	Fabrice MAZOUNI fabrice.mazouni@cud.fr	Communauté Urbaine de Dunkerque 210000	Pertuis de la Marine - BP 5530 59386 Dunkerque cedex 1

France
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
ECHILLAIS	Rochefort	Chemin Rural n° 12 17620	+33 05 46 82 17 83 +33 05 46 99 76 30
Fort de France - Martinique	Martiniquaise de Valorisation	ZAC Rivière Roche 97200	+33 05 96 75 38 05 +33 05 96 75 87 06
Fourchambault	Nevers (Sonirval)	38 route de Vauzelles 58600	+33 03 86 90 79 40 +33 03 86 90 79 49
Grand Quevilly	Rouen 2	Boulevard de Stalingrad 76120	+33 02 32 10 26 80 +33 02 32 10 26 81
Grenoble	Grenoble (La Tronche)	 38031	+33 04 76 59 59 59 +33 04 76 42 33 43
Guerville	Mantes (Valene)	Route Départementale 113 78390	+33 01 34 97 93 51 +33 01 30 92 72 81
Guichainville	Evreux Sud www.novergie.fr	V.C.6 - Lieu Dit Saint Laurent 27930	+33 02 32 23 47 47 +33 02 32 23 47 46
Halluin	Halluin (Lille)	Rocade de la Valée de la Lys - RD 191 - BP 302 59433	+33 03 20 21 27 61 +33 03 20 21 30 48
Henin-Beaumont	Hénin-Beaumont www.groupe-tiru.com	chemin de la buisse 62253	+33 03 21 79 72 27 +33 03 21 79 66 60
Issy-Les-Moulineaux	Issy-les-Moulineaux www.groupe-tiru.com	167 Quai de Stalingrad 92130	+33 01 40 13 17 00 +33 01 42 33 40 47
La Couronne	Angoulême	Route de Saint Michel, Le Mas 16400	+33 05 45 38 60 80 +33 05 45 38 60 59
La Rochelle	La Rochelle	Rue du Chef de Baie 17041	+33 05 46 43 18 52 +33 05 46 51 50 93
La Séguinière	Cholet	Lieu Dit l'établère - BP 5 49280	+33 02 41 63 76 16 +33 02 41 56 25 77
La Veuve	Aureade (La Veuve)	Avenue des Crayères - ZI de la Veuve 51520	+33 03 26 26 16 20 +33 03 26 26 16 29
Lasse	Lasse Sivert	RD 139 - Route de Mouliherne à Clefs 49490	+33 02 41 82 17 32 +33 02 41 82 26 68
Le Fayet	Chedde-Passy www.novergie.fr	1159 route de la Centrale 74190	+33 04 50 78 10 48 +33 04 50 78 09 11
Le Mans	Le Mans	206 rue de l'Angevinière 72024	+33 02 43 86 01 50 +33 02 43 85 72 96
Lens	Noyelles sous Lens	 62302	+33 03 21 77 41 41 +33 03 21 77 41 00

France

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
ECHILLAIS	Mme. Catherine JOURDY c.jourdy@cda-paysrochefortais.fr	Communauté Communes du Pays Rochefortais	10 rue du Docteur Pujos - BP 224 17304 Rochefort
Fort de France - Martinique	M. Ronald BRITHEMER ronald.brithemer@cacem-mq.com	CACEM - Communauté d'agglomération du centre de la Martinique	Immeuble Cardinal - Chateauboeuf Est - BP 407 97204 Fort de France - Martinique
Fourchambault	Stéphane BIAUSQUE - Jacques FOURNIER stephane.biausque@veolia-proprete.fr	SONIRVAL	38 route de Vauzelles 58600 Fourchambault
Grand Quevilly	M. Bruno GAUTIER bruno.gautier@smedar.fr	SMEDAR	149 boulevard de l'Yser 76000 Rouen
Grenoble	M. GABET-FOURNIER jeanbernard.gabetfournier@la-metro.org	Grenoble Alpes Métropole	3 rue Malakoff 38031 Grenoble cedex 01
Guerville	Yves MAHOUAS yves.mahouas@veolia-proprete.fr	VALENE	Route Départementale 113 78390 Guerville
Guichainville	M. NAZON direction@setom.fr	SETOM Sud de l'Eure 248000	V.C.6 - Lieu Dit Saint Laurent 27930 Guichainville
Halluin	M. Jean-Luc MUSILLI jlmusilli@cudl-lille.fr	Communauté Urbaine de Lille Métropole	1 rue du Ballon - BP 749 59034 Lille cedex
Henin-Beaumont	Sébastien Chapelet sebastien.chapelet@agglo-henincarvin.fr	Communauté d'agglomération d'Hénin-Carvin 156 000	242 boulevard Schweitzer 62 110 hénin-beaumont
Issy-Les-Moulineaux	Mme. LECAT lecat@syctom-paris.fr	SYCTOM de l'agglomération Parisienne 1250000	35 Boulevard de Sébastopol 75001 Paris
La Couronne	M. CHIELLET b.chiellet@comaga.org	Communauté d'agglomération du Grand Angoulême	25 Boulevard Besson Bey 16008 Angoulême
La Rochelle	M. Stéphane MAIEGELLEN stephane.maiegellen@agglo-larochelle.fr	Communauté de l'agglomération de la Rochelle	6 rue Saint Michel - BP 1287 17086 La Rochelle
La Séguinière	Emmanuel BRIET pas d'adresse émail	SAS INCINERATION BOUYER LEROUX	Lieu Dit l'établère - BP 5 49280 La Séguinière
La Veuve	M. Yves DETRAIGNE y.detraigne@senat.fr	Syndicat Départemental Traitement des déchets ménagers (SYVALOM)	13 rue Carnot 51000 Châlons en Champagne
Lasse	Eric DELALANDE / Hervé JAMET eric.delalande@veolia-proprete.fr	SAVED SALAMANDRE	RD 139 - Route de Mouliherne à Clefs 49490 Lasse
Le Fayet	Mme. SINCERETTI sitom2@wanadoo.fr	SITOM DES VALLEES DU MONT BLANC	1159 route de la Centrale 74190 Passy
Le Mans	Jean-Michel VAUVY / David L'HOSTIS jean-michel.vauvy@veolia-proprete.fr	SEC	206 rue de l'Angevinière 72024 Le Mans Cedex
Lens	M. René DUFOUR lpeliks@agglo-lenslievin.fr	Communauté d'agglomération de Lens-Liévin	21 rue Marcel Sembat - BP 65 62302 Lens

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General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Lescar	Pau www.novergie.fr	rue d'Arsonval - ZI Induspal 64320	+33 05 59 11 50 50 +33 05 59 11 50 51
Limoges	Limoges	Centrale Energie Déchets - Avenue de Faugeras 87280	+33 05 55 35 48 81 +33 05 55 35 53 57
Livet	Bourg d'Oisans	 38220	+33 04 76 11 01 09 +33 04 76 11 01 65
Lons-le-Saunier	Lons-le-Saunier www.novergie.fr	ZI - rue René Maire 39000	+33 03 84 47 44 41 +33 03 84 24 01 47
Ludres	Nancy Energie	226 rue Victor Grignard - ZI 54710	+33 03 83 26 50 60 +33 03 83 26 12 23
Lunel-Viel	Lunel www.novergie.fr	Lieu Dit Les Roussels, RN 113 34400	+33 04 67 83 59 49 +33 04 67 83 59 48
Lyon 7ème	Lyon Sud	 69007	+33 04 72 71 55 20 +33 04 78 58 01 21
Mainvilliers	Chartres 2 (Orisane) www.novergie.fr	La Mare Corbonne 28300	+33 02 37 91 35 20 +33 02 37 91 35 49
Marignier	Cluses/Marignier	164 Impasse des Gravières 74970	+33 04 50 98 43 14 /04 50 34 6 +33 04 50 98 70 57
Massy	Massy	 91743	+33 01 69 30 38 51 +33 01 64 47 03 39
Maubeuge	Maubeuge www.smiaa.fr	ZI des Terres du Pont Rouge 59600	+33 03 27 58 83 22 +33 03 27 62 23 52
Mère	Vernou-en-Sologne	 41500	+33 02 54 81 41 38 +33 02 54 81 40 89
Messanges	Messanges sitcom40.fr	 40660	+33 05 58 72 03 94 +33 05 58 72 47 57
Metz	Metz	 57071	+33 03 87 20 10 12 +33 03 87 39 07 50
Montauban	Montauban www.novergie.fr	786 avenue Gasseras 82000	+33 05 63 22 12 35 +33 05 63 93 58 00
Montbéliard	Montbéliard	Rue du Champ du Cerf 25280	+33 03 81 90 20 97 +33 03 81 90 55 01
Montereau Fault Yonne	Montereau	ZI - 22 rue des Grandes Haies 77130	+33 01 64 32 67 23 +33 01 64 32 08 12
Monthyon	Monthyon (Somoval)	La Croix Gillet 77122	+33 01 64 36 54 60 +33 01 64 36 54 61
Mourenx	Mourenx	 64150	+33 05 59 60 03 46 +33 05 59 60 06 93
Nantes	Nantes (Est) www.novergie.fr	350 rue de l'Etier 44326	+33 02 40 52 50 00 +33 02 40 52 52 25

France

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Lescar	M. Bernard LAJUS b.lajus@agglo-pau.fr	Communauté d'Agglomération de Pau Pyrénées	bassin Est - 2 bis Place Royale - BP 547 64000 Pau
Limoges	Christian CHIELENS christian.chielens@veolia-proprete.fr	STVL	Centrale Energie Déchets - Avenue de Faugeras 87280 Limoges
Livet	Mme. REYNAUD oisans.sei@wanadoo.fr	SITOM de l'Oisans	Place de L'Eglise - BP 50 38220 Le Bourg d'Oisans
Lons-le-Saunier	M. MARTIN direction@letri.com	SYDOM - Syndicat départemental de traitement des OM du Jura	Juratrom 350 rue René Maire - BP 340 39000 Lons-le-Saunier
Ludres	Eric CALVET eric.calvet@veolia-proprete.fr	COMMUNAUTE URBAINE DU GRAND NANCY	226 rue Victor Grignard - ZI 54710 Ludres
Lunel-Viel	M. Claude MARGUET claude.marguet@novergie.fr	Syndicat Pic & Etang	OCREAL - Lieu-Dit 34400 Lunel-Viel
Lyon 7ème	M. ROUSMANS crousmans@grand-lyon.org	Communauté Urbaine de Lyon	7 rue Dole 69007 Lyon 7ème
Mainvilliers	M. Jean-Michel MOSKOVOY jmmoskovoy@agglo-chartres.fr	Communauté d'agglomération de Chartres Métropole	3 rue Charles Brune - BP 90085 28112 Lucé
Marignier	M. André BRECHET andre.brechet@veolia-proprete.fr	SIVOM DE LA REGION DE CLUSES	155 Rue du Stade - BP 161 74300 Cluses cedex
Massy	M. Hervé CHARNIGUET hervé.charniguet@elyo.fr	CURMA UIOM	Zone Industrielle de Bonde - Route de Bonde 91743 Massy Cedex
Maubeuge	Mme. Céline MORLAND contact@smiaa.fr	SMIAA (Syndicat MIxte de l'Arrondissement d'Avesnes) 220000	32 Boulevard de l'Europe - BP 81251 59607 Maubeuge Cedex
Mère	Melle. Céline JOLY sieom@ville-de-mere.com	SIEOM - Syndicat Intercommunal Elimination des Ordures Ménagères du	Groupement de Mère - Hôtel de Ville 41500 Mère
Messanges	M. TOULLEC accueil@sitcom40.fr	SITCOM DE LA COTE SUD DES LANDES 40000	62 Chemin du Bayonnais 40230 Messanges
Metz	M. Laurent GADEYNE lgadeyne@ca2m.com	Communauté d'Agglomération Metz Métropole (CA2M)	Pôle Environnement & Déchets - 2 rue Thomas Edison - BP 55025 57071 Metz Cedex 3
Montauban	M. Renaud PERIN rperin@ville-montauban.fr	SIRTOMAD	Rue de l'Hôtel de Ville - BP 764 82013 Montauban Cedex
Montbéliard	Régis LAMORLETTE regis.lamorlette@veolia-proprete.fr	MONTVALOR	Rue du Champ du Cerf 25280 Montbéliard
Montereau Fault Yonne	M. LEFIER par courrier	SIRMOTOM	Hôtel de l'Intercommunalité - 4 rue Edouard Branly 77130 Montereau Fault Yonne
Monthyon	Anne THEVENOT - Patrick SERRE anne.thevenot@veolia-proprete.fr	SMITOM DU NORD SEINE ET MARNE MONTHYON 334000	Chemin de la Croix Gillet 77122 Monthyon
Mourenx	Mme. Sylvie BROUAT s-brouat@cc-lacq.fr	Communauté des Communes de Lacq	Rond Point des Chênes - BP 73 64150 Mourenx
Nantes	M. GAUVAIN francoise.marianneau@novergie.fr	VALORENA	350 rue de l'Etier - BP 62633 44326 Nantes cedex 3

France

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Nice	Nice	33 Boulevard de l'Ariane 06000	+33 04 93 54 90 61 +33 04 93 27 28 23
Nîmes	Nîmes (EVOLIA)	Lieu dit Mas de Mayan - Chemin du Mas de Cheylon 30900	+33 04 66 70 95 20 +33 04 66 70 95 21
Ouarville	Rambouillet (Ouarville) www.novergie.fr	Chemin Saint Mathurin 28150	+33 02 37 18 31 83 +33 02 37 18 31 89
Paris	Ivry www.groupe-tiru.com	43, rue Bruneseau 75013	+33 01 40 13 17 00 +33 01 42 33 40 47
Pessac	Agen www.novergie.fr	Monbusc 47520 Le Passage	+33 05 57 26 59 79 +33 05 57 26 15 97
Pithiviers	Pithiviers	45300	+33 02 38 06 02 88 +33 02 38 32 76 22
Planguenoual	Lamballe (Planguenoual) www.novergie.fr	Les landes lambert 22400	+33 02 96 50 13 55 +33 02 96 31 39 25
Plouharnel	Plouharnel	Kernévé 56720	+33 02 97 52 39 39 +33 02 97 52 40 88
Pluzunet	Pluzunet Lannion	Site de Quelven 22140	+33 02 96 54 65 10 +33 02 96 54 65 18
Poitiers	Poitiers	Route Edouard Branly - Saint Eloi 86000	+33 05 49 52 35 35 +33 05 49 52 37 06
Pontarlier	Pontarlier www.novergie.fr	ZI Les Petits Planchants 25300	+33 03 81 46 49 66 +33 03 81 46 95 21
Pontcharra	Pontcharra	ZI du Pré Brun 38530	+33 04 76 97 19 52 +33 04 76 97 92 93
Pontivy	Pontivy www.groupe-tiru.com	Rue Vicat, Zone Industrielle Le Sourn 56300	+33 02 97 25 01 70 +33 02 97 25 63 69
Pontmain	Pontmain www.novergie.fr	Route de Fougères 53220	+33(0)2 43 66 52 85 +33(0)2 43 66 52 31
Pontx-les-Forges	Born 2 (Pontenx) www.groupe-tiru.com	Lieu dit Larrouza, Chemin Départemental 49 40200	+33 05 58 78 56 00 +33 05 58 78 91 36
Rambervillers	Epinal (Rambervillers)	Route de Romont 88700	+33 03 29 65 31 65 +33 03 29 65 46 81
Reims	Reims	Chemin du Moulin de Vrilly - ZI des Essilards 51689	+33 03 26 85 56 70 +33 03 26 85 47 60
Rennes	Rennes	Avenue Charles Tillon 35000	+33 02 99 59 09 17 +33 02 99 59 47 65

France

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Nice	Georges MARRON - Pascal ROUMEGUERE g.marron@sonitherm.com	SONITHERM	33 Boulevard de l'Ariane 06000 Nice
Nîmes	Olivier DANAT - Philippe GABAS olivier.danat@veolia-proprete.fr	EVOLIA	Lieu dit Mas de Mayan - Chemin du Mas de Cheylon 30900 Nîmes
Ouarville	M. Jean-Pierre AMAT jean-pierre.amat@novergie.fr	SITREVA	Valoryele - Chemin Saint Mathurin 28150 Ouarville
Paris	Mme. LECAT lecat@syctom-paris.fr	SYCTOM de l'agglomération Parisienne 1600000	35 Boulevard de Sébastopol 75001 Paris
Pessac	Mme. Nathalie FRANCO nathalie.franco@novergie.fr	SOGAD	Envoi Courrier : Novergie - 28 avenue Léonard de Vinci - Parc Technologique 47520 Le Passage
Pithiviers	M. Le Président bgv4@wanadoo.fr	SITOM DE L'ARRONDISSEMENT DE PITHIVIERS	Route Bouzonville en Beauce 45300 Pithiviers
Planguenoual	Romuald TOUSSAINT lamballe@lamballe-communaute.com	SMICTOM DE PENTHIEVRE-MENE	50 rue d'Armor - BP 90456 22404 Lamballe cedex
Plouharnel	Melle Carole SOUBITEZ carole.soubitez@sivomabq.fr	Syndicat Mixte D'AURAY-BELZ-QUIBERON (SIVOM)	31 Avenue de l'Océan - BP 6 56720 Plouharnel
Pluzunet	M. BARDINI bardini@valorys.smitred.com	SMITRED OUEST ARMOR	Valorys - Site Quelven Convenant Le Grand 22140 Pluzunet
Poitiers	M. FREISSEIX j.freisseix@agglo-poitiers.fr	Communauté d'agglomération de Poitiers	Hôtel de Ville - 15 Place du Maréchal Leclerc - BP 569 86021 Poitiers Cedex
Pontarlier	M. Le Président smetom25@wanadoo.fr	SMETOM - Syndicat mixte d'étude et de traitement des OM du Haut Doubs 115 000	ZI Les Petits Planchants - BP 235 25303 Pontarlier cedex
Pontcharra	M. HUGUENOTTE dg@ville-pontcharra.fr	SIBRECSA - Zone Industrielle - 411 avenue Champollion	Envoi Courrier : Mairie - 95 avenue de la gare 38530 Pontcharra
Pontivy	M. Bastien GILLARD info@pays-pontivy.com	Communauté de communes du pays de Pontivy (SITTOM-MI) 100 000	31 rue Jean Moulin - BP 96 56303 Pontivy cedex
Pontmain	Mr. Laurent GENEAU laurent.geneau@cg53.fr	Conseil Général de la Mayenne	Datae Sender - Hôtel du Département - 39 rue Mazagran - BP 1429 53014 Laval Cedex
Pontx-les-Forges	M. Le Président sivom.parentis@wanadoo.fr	SIVOM DES CANTONS DU PAYS DE BORN 87 000	Place du Général de Gaulle 40161 Parentis-en-Born Cedex
Rambervillers	Georges GUITTONNEAU georges.guittonneau@veolia-proprete.fr	SOVVAD	Route de Romont 88700 Rambervillers
Reims	Jérôme ROUSSEL - Stéphane HELAWEL jerome.roussel@veolia-proprete.fr	REMIVAL	Chemin du Moulin de Vrilly - ZI des Essilards 51689 Reims Cedex
Rennes	Claude BIBARD / Sébastien MATHEY claude.bibard@veolia-proprete.fr / sebastien.mathe	SOBREC	Avenue Charles Tillon 35000 Rennes

France

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Rillieux La Pape	Lyon Nord (Valorly) www.novergie.fr	1110 route du Mas Rillier 69140	+33 04 78 95 88 00 +33 04 78 95 88 26
Rosiers d'Egletons	Rosiers-d'égletons www.novergie.fr	Lieu dit les Chaux - RD 12 19300	+33 05 55 17 67 30 +33 05 55 17 67 39
Rungis	Rungis	1 rue du Four - Secteur Marée - BP 10328 94569	+33 01 58 42 73 60 +33 01 58 42 73 69
Saint Ouen	Saint Ouen www.groupe-tiru.com / www.syctom-paris.fr	22 rue Ardoin 93400	+33 01 40 13 17 00 +33 01 42 33 40 47
Saint Pourcain sur Sioule	Bayet	Les Bouillots - BP 32 03500	+33 04 70 45 51 67 +33 04 70 45 63 01
Saint Saulve	Valenciennes www.groupe-tiru.com	Zone Industrielle - 4 rue du Galibot 59880	+33 03 27 47 02 33 +33 03 27 47 02 60
Sainte Gemmes sur Loire - ANGERS	Angers	Quartier de la Roseraie- 36, rue d'Arbrissel 49130	+33 02 41 05 50 45 +33 02 41 05 51 25
Saint-Jean-De-Folleville	Saint Jean de Folleville (Le Havre)	76170	+33 02 35 39 55 00 +33 02 35 39 55 09
Salins-les-Thermes	Moutiers www.novergie.fr	Route de la Rageat, Villarlurin 73600	+33 04 79 24 41 41 +33 04 79 22 81 33
Saran	Saran (Orléans)	651 rue de la Motte Pétrée 45770	+33 02 38 56 97 45 +33 02 38 56 97 58
Sarcelles	Sarcelles (Saren)	1 rue de Tissonvilliers 95200	+33 01 34 19 15 57 +33 01 34 19 15 99
Sausheim	Mulhouse 2 www.novergie.fr	1 route de Chalampé 68390	+33 03 89 43 21 30 +33 03 89 59 75 70
Schweighouse sur Moder	Haguenau www.novergie.fr	ZI du Reid 67590	+33 03 88 72 04 47 +33 03 88 72 61 71
Sens	Sens	Rue des Longues Raies - Z.I. des Vauguillettes 89100	+33 03 86 65 89 00 +33 03 86 65 89 30
Sète	Sète	ZI des Eaux Blanches 34200	+33 04 67 43 09 55 +33 04 67 43 09 40
St Pierre d'Oléron	Saint Pierre Oléron 17310		+33 05 46 47 24 68 +33 05 46 47 12 88
St Thibault des Vignes	Lagny sietrem.fr	3 rue Grand Pommeraye - ZA la Courtillière 77400	+33 01 60 94 21 71 +33 01 64 30 11 00
Strasbourg	Strasbourg www.strasbourg.fr	3 route du Rohrschollen 67000	+33 3 88 60 90 45 +33 3 88 60 95 21

France

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Rillieux La Pape	M. ROUSMANS crousmans@grand-lyon.org	Le Grand Lyon (Courly)	83 Cours Liberté 69003 Lyon 3ème
Rosiers d'Egletons	M. Henri VERLHAC hverlhac@cg19.fr	SYTTOM 19	22 rue Berlioz 19100 Brive la Gaillarde
Rungis	M. Manuel BOUILLOUX manuel.BOUILLOUX@sicio.com	SIEVD	15 rue des Hautes Bornes 94310 Orly
Saint Ouen	Mme. LECAT lecat@syctom-paris.fr	SYCTOM de l'agglomération Parisienne 1 400 000	35 boulevard de Sébastopol 75001 Paris
Saint Pourcain sur Sioule	M. Gérard LAPLANCHE sthevegniot@sictom-sud-allier.fr	SICTOM SUD ALLIER	Les Bouillots - BP 32 03500 Bayet
Saint Saulve	M. Bernard MINEUR bernard.mineur@groupe-tiru.com	SIVDMHV 287000	ECOVALOR - Zone Industrielle - 4 rue du Galibot 59880 Saint Saulve
Sainte Gemmes sur Loire - ANGERS	M. Jacques MARY jacques.mary@angersloiremetropole.fr	Communauté d'agglomération Angers Loire Métropole 280000	83 rue du Mail - BP 80529 49105 Angers Cedex 02
Saint-Jean-De-Folleville	M. ALLAIN sevede@wanadoo.fr	SEVEDE	Oréade - ZAC de Port Jéröme II - BP 60048 76170 Saint-Jean-De-Folleville
Salins-les-Thermes	M. Nouare KISMOUNE sivomoutiers@wanadoo.fr	SITOM de la Région de Moutiers	53 Place de l'Hôtel de Ville 73600 Moutiers
Saran	Mme. Laurence DUDOIT ldudoit@agglo-orleans.fr	Communauté d'agglomération Orléans Val de Loire	33 rue Hatton 45000 Orléans
Sarcelles	Jean-Luc DELWARTE jean-luc.delwarte@veolia-proprete.fr	SAREN	1 rue de Tissonvilliers 95200 Sarcelles
Sausheim	M. GIRY r.giry@sivom-mulhouse.fr	SIVOM de l'Agglomération Mulhousienne	25 avenue du Président Kennedy 68100 Mulhouse
Schweighouse sur Moder	M. Christian HEY smitom.hey@wanadoo.fr	Syndicat Mixte pour le Traitement des OM Secteur de Haguenau Saverne	(SMITOM) - ZI Secteur du Ried - BP 364 - Schweighouse/Moder 57507 Haguenau Cedex
Sens	M. PERETTI nperetti@cc-senonais.fr	Communauté de communes du Sénonais 42000	La Poterne - BP 552 - 21 boulevard du 14 juillet 89100 Sens
Sète	Michel ROY michel.roy@veolia-proprete.fr	SETOM	ZI des Eaux Blanches 34200 Sète
St Pierre d'Oléron	M. Le Président accueil@cdc-oleron.fr	Communauté de communes de l'Ile d'Oléron	59 route des Allées - BP 85 17310 St Pierre d'Oléron
St Thibault des Vignes	Mme. VINCENT sietrem2@wanadoo.fr	SIETREM DE LAGNY SUR MARNE	3 rue Grand Pommeraye - ZA la Courtillière 77400 St Thibault des Vignes
Strasbourg	M. Philippe JORDAN philippe.jordan@cus-strasbourg.net	Communauté Urbaine de Strasbourg 460000	1 Parc de l'Etoile - BP 1049 / 1050 F 67076 STRASBOURG Cedex

France
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Surgères	Paille	 17700	+33 05 46 07 16 66 +33 05 46 07 11 13
Taden	Dinan 2	Lieu Dit Les Landes Basses - Route de Ploubalay 22100	+33 02 96 85 25 46 +33 02 96 85 87 10
Thiverval-Grignon	Thiverval Grignon	Chemin latéral n° 18 78850	+33 01 34 94 67 86 +33 01 34 94 67 74
Thonon Les Bains Cedex	Thonon Les Bains	ZI de Vongy 74203	+33 04 50 70 69 68 +33 04 50 26 54 51
Tignes	Tignes	Croisement des Brévières 73320	+33 04 79 41 01 63 +33 04 79 41 06 77
Toulon	Toulon www.novergie.fr	Chemin Gaëtan Gastaldo - Quartier Escaillon 83200	+33 04 94 89 98 10 +33 04 94 22 58 80
Toulouse Mirail	Toulouse	11 Chemin de Perpignan 31100	+33 05 61 19 09 60 +33 05 61 19 09 69
Tronville en Barrois	Tronville en Barrois www.novergie.fr	Route Nationale 55310	+33 03 29 78 84 33 +33 03 29 78 18 71
Vaux-le-Penil	Melun www.lombric.com	Route de Nangis - ZAC du Tertre de Chérisy 770000	+33 01 64 83 58 60 +33 01 64 83 58 69
Vedène	Avignon www.novergie.fr	CVDM Route du Pontet 84270	+33 04 90 31 04 05 +33 04 90 31 57 91
Vert le Grand	Vert le Grand www.semardel.fr	Ecosite 91810	+33 01 69 14 16 00 +33 01 69 14 16 47
Villefranche sur Saône	Villefranche/Saône sytraival.com	132 rue benoit Frachon 69400	+33 04 74 68 82 59 +33 04 74 68 94 04
Villejust	Villejust 1 & 2 www.siom.fr	Route Départementale 118 91140	+33 01 60 14 09 34 +33 01 69 31 33 87
Villiers Saint Paul	Esiane (Villiers Saint-Paul) www.novergie.fr	avenue Frédéric et Irène Joiliot Curie 60870	+33 03 44 25 20 64 +33 03 44 29 34 17
Vitré	Vitré www.novergie.fr	ZI de la Haie Robert 35500	+33 02 99 74 44 47 +33 02 99 75 05 58

France

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Surgères	M. GABRIEAU info@vals-aunis.com	SMICTOM de Surgères (Syndicat Mixte Collecte et Traitement Ordures	Ménagères) 41 bis rue Bernard Palissy 17700 Surgères
Taden	Jacques GUIHARD jacques.guihard@veolia-proprete.fr	IDEX FASSA Environnement	Lieu Dit Les Landes Basses - Route de Ploubalay 22100 Taden
Thiverval-Grignon	M. Le Président sidompe.behoust@wanadoo.fr	SIDOMPE SI DESTRUCTION OM DE PLAISIR ET ENVIRONS 280000	Place du Village 78910 Behoust
Thonon Les Bains Cedex	M. PARIS stoc@ville-thonon.fr	STOC - Syndicat de Traitement des Ordures du Chablais	Hôtel de Ville - BP 517 74203 Thonon Les Bains Cedex
Tignes	M. Le Président sivom@sivomhautetarentaise.fr	SIVOM de la Haute Tarentaise	Chef Lieu - BP 1 73707 Seez Cedex
Toulon	M. DE GAULEJAC par courrier	SITTOMAT	CCUAT - Chemin Gaëtan Gastaldo - Quartier Escaillon 83200 Toulon
Toulouse Mirail	Hélène MAILLE - Alain NARDO helene.maille@veolia-proprete.fr	SETMI	11 Chemin de Perpignan 31100 Toulouse
Tronville en Barrois	M. Le Directeur Technique par courrier	NOVERGIE NORD EST	Meuse Energie - Route Nationale 55310 Tronville en Barrois
Vaux-le-Penil	M. DIDION kschott@lombric.com	SMITOM Centre Ouest Seine et Marnais 280 000	Route de Nangis - ZAC du Tertre de Chérisy 77000 Vaux-le-Penil
Vedène	M. PELLET par courrier	SIDOMRA	Novergie - CVDM Route du Pontet 84270 Védène
Vert le Grand	M. FRANCHINO cfranchino.pse@wanadoo.fr	SEMARDEL 700000	PSE - CITD Ecosite de Vert Le Grand - Chemin Butte - BP 2 91810 Vert le Grand
Villefranche sur Saône	M. Marc JANIN marc.janin@sytraival.fr	Syndicat Mixte d'Elimination de Traitement et de Valorisation de Déchet 240000	Beaujolais Dombes (SYTRAIVAL) - 130 rue Benoît Frachon - Z.I. portuaire 69400 Villefranche sur Saône
Villejust	Mme. Véronique PERRET veronique.perret@siom.fr	SIOM de la Vallée de Chevreuse 170000	CD 118 91140 Villejust
Villiers Saint Paul	Jean-Christophe GUERIN jean-christophe.guerin@novergie.fr	Esiane	avenue Frédéric et Irène Joiliot Curie 60870 Villiers Saint Paul
Vitré	Mme. CHEHABEDDINE vitre.sictom@wanadoo.fr	SMICTOM DU SUD-EST DE L'ILLE ET VILAINE	1 Place Notre Dame 35500 Vitré

France

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Amilly	1	1969		2,8		M					
Antibes	1	1970	?	19	9,63	M	CNIM (Martin)	S	-		7859
Argenteuil	1	1975		7,5		M	VON ROLL	S	CITTIC CAROSSO	220	
	2	1975		7,5		M	VON ROLL	S	CITTIC CAROSSO	220	
	3	1998		9		M	INOR VON ROLL	S	FIRE POWER	360	
Arrabloy	1	1999		5		FB	ABT France	S	FIRE POWER	350/36	
	2	1999		5		FB	ABT France	S	FIRE POWER	350/36	
Aurillac	1	1988		1	8,372	O	FRAPY	WW	PYROTHERM	80°C	
Bayonne	1	1990		3,2		M		S			
	2	1990		0,3		M		S			
Bègles	1	1998		11		M	ABB	S	FIRE POWER	360	
	2	1998		11		M	ABB	S	FIRE POWER	360	
	3	1998		11		M	ABB	S	FIRE POWER	360	
Bellegarde sur valserine	1	1998		8		M	TNEE	S	ACMA	385	
	2	1998		8		M	TNEE	S	ACMA	385	
Bellentre	1	1991		3,3		M	NOVERGIE (TRIGA)		-		
Benesse-Maremne	1	1972		3		M	SOGEA		-		
	2	1985		4,5		M	SOGEA		-		
Besançon	1	1976		3		M	LURGI	S	SEUM	220	
	2	2002		4		M	LURGI	S	SEUM	220	
Bessières	1	2001		11,4		M	ALSTOM	S			
	2	2001		11,4		M	ALSTOM POWER	S			
Béthune	1	1979		5		M	INOR	S	LARDET	300	
	2	1979		5		M	INOR	S	LARDET	300	
	3	1996		10		M	Itisa Volund	S	Leroux Lotz	300	
Blois	1	2000		5,5		M	ALSTOM POWER	S	ALSTOM POWER	360/45	
	2	2000		5,5		M	ALSTOM POWER	S	ALSTOM POWER	360/45	
Bourgoin Jallieu	1	1986		5	8,372	M	VOLUND	S	CAROSSO	209/18	
	2	1995		6	8,372	M	VOLUND	S	FIRE POWER	240/19	
Bourogne	1	1975		4		M	STEIN	S	Coméco		
	2	1988		4		M	STEIN	S	STEIN FASEL	350	
Brest	1	1988		9	7,326	M	VON ROLL	S	CITTIC CARROSSO	290/32	
	2	1988		9	7,326	M	VON ROLL	S	CITTIC CARROSSO	290/32	
Briec de l'Odet	1	1996		4	7,326	M	VOLUND	S	LEROUX & LOTZ	350/40	
	2	1996		4	7,326	M	VOLUND	S	LEROUX & LOTZ	350/40	
Brive la Gaillarde	1	1973		3,5		M	INOR	S	Stein Fasel	180	
	2	1973		3,5		M	INOR	S	Stein Fasel	180	
	3	1983		3,5		M	INOR	S	Wanser	180	
Carhaix	1	1994		4		M	ITISA ANSALDO VOLUND	S	BERI	340/28	

France

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Amilly	1	DRY				SPEIC VINCI	
Antibes	1	ESP-SD-FF-O	1970		1998	CNIM EGIDE	170
Argenteuil	1	ESP+WET				SPEIC	
	2	ESP+WET				SPEIC	
	3	ESP+WET				SPEIC	
Arrabloy	1	SD+FF			1999	GENEVET	
	2	SD+FF			1999	GENEVET	
Aurillac	1	DRY+FF			1990	NEU	
Bayonne	1	DRY+FF					
	2	DRY+FF					
Bègles	1	ESP+WET				LAB	
	2	ESP+WET				LAB	
	3	ESP+WET				LAB	
Bellegarde sur valserine	1	WET				-	
	2	WET				-	
Bellentre	1	DRY+FF				GENEVET	
Benesse-Maremne	1	ESP+WET				SULZER	
	2	ESP+WET				SULZER	
Besançon	1	DRY+FF				VINCI	
	2	DRY+FF				VINCI	
Bessières	1	WET				LAB	
	2	WET				LAB	
Béthune	1	WET				LAB	
	2	WET				LAB	
	3	WET				LAB	
Blois	1	SD				ALSTOM POWER	
	2	SD				ALSTOM POWER	
Bourgoin Jallieu	1	SD+ESP+FF	1996	WALTER	2006	LAB	
	2	SD+ESP+FF	1996	WALTER	2006	LAB	
Bourogne	1	ESP				ROTHEMÜHLE	
	2	ESP				ROTHEMÜHLE	
Brest	1	DRY+ESP+FF+SCR	1988	ABB Flakt	2006	SPEIC	
	2	DRY+ESP+FF+SCR	1988	ABB Flakt	2006	SPEIC	
Briec de l'Odet	1	DRY+FF+SNCR			2006	HAMON+VOLUND	
	2	DRY+FF+SNCR			2006	HAMON+VOLUND	
Brive la Gaillarde	1	CYC+ESP+WET+D/F				GENEVET	
	2	CYC+ESP+WET+D/F				GENEVET	
	3	CYC+ESP+WET+D/F				PRAT	
Carhaix	1	DRY+FF				LAB	

France

Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace Type	Furnace Supplier	Boiler Type	Boiler Supplier	Steam Data oC/bar	Hours of Operat.2004
Carrières sous Poissy	1	1998		7,5		M	ALSTOM	S	ALSTOM	360	
	2	1998		7,5		M	ALSTOM	S	ALSTOM	360	
Carrières sur Seine	1	1978		10		F	LUCHAIRE	S	BABCOCK	295	
	2	1987		10		F	ITISA	S	BERI	270	
Cenon	1	1983		8		R	VKW	S	BABCOCK	265	7728
	2	1983		8		R	VKW	S	BABCOCK	265	7859
Cergy Pontoise	1	1995		10,5	9,209	M	CNIM (MARTIN)	S	CNIM	390/41	
	2	1995		10,5	9,209	M	CNIM (MARTIN)	S	CNIM	390/41	
Chambéry	1	1977		4,2		M	ALBERTI				
	2	1977		4,2		M	ALBERTI				
	3	1996		6		M	SOGEA	S	FIRE POWER		
Chateaudun	1	1976		3,4		M	INOR Von Roll				
Chaumont	1	1998		5	8,372	M	CNIM (MARTIN)	S	CNIM	350/35	
	2	1998		5	8,372	M	CNIM (MARTIN)	S	CNIM	350/35	
Colmar	1	1988		6		M	CNIM MARTIN	S	CNIM	250	
	2	1988		6		M	CNIM MARTIN	S	CNIM	250	
Colombelles	1	1972		7,8		M	CNIM	HW	CNIM	1900/24	
	2	1972		7,8		M	CNIM	HW	CNIM	1900/24	
Concarneau	1	1989		3,9	7,535	M	VON ROLL	S	CITTIC CARROSSO	220/23	
	2	1989		3,9	7,535	M	VON ROLL	S	CITTIC CARROSSO	220/23	
Confort Meilars	1	1973		3		M	FERBECK VINCENT				
Coueron	1	1994		7	8,372	M	CNIM (MARTIN)	S	CNIM	350/35	7798
	2	1994		7	8,372	M	CNIM (MARTIN)	S	CNIM	350/35	8059
Cran Gevrier	1	1986		4,2		M	SOGEA	S	SOGEA	260	
	2	1986		4,2		M	SOGEA	S	SOGEA	260	
	3	1994		6		M	SOGEA		-		
Créteil	1										
	3	1994		2,6		O	FDI (MAGUIN)	S	Fire Power	210	
	4	2000		15		M	ABB	S	Leroux & L	360	
	5	2000		15		M	ABB	S	Leroux & L	360	
Dieppe	1	1971		3		M	INOR VON ROLL	S	SOCOMAS	180	
	2	1971		3		M	INOR VON ROLL	S	SOCOMAS	180	
Dijon	1	1974		9,1	9,6	M	INOR	S	VON ROLL - INOVA	218	
	2	1974		9,1	9,6	M	INOR	S	VON ROLL - INOVA	218	
Douchy les Mines	1	1977		5,5		M	MARTIN	S	LEROUX ET LOTZ	360/40	
	2	1977		5,5		M	MARTIN	S	LEROUX ET LOTZ	360/40	
Dunkerque	1	1971	1998	4		M	OFAG		-		7069
	2	1972	1998	4		M	OFAG		-		6700
	3	1977	1998	5		M	OFAG		-		7249

France
Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Carrières sous Poissy	1	ESP+WET+SCR				LAB	
	2	ESP+WET+SCR				LAB	
Carrières sur Seine	1	ESP+SD+FF				ABB Energie	
	2	ESP+SD+FF				ABB Fläkt	
Cenon	1	ESP+WET	1983	NEU Electrofiltre	1993	LAB	60
	2	ESP+WET	1983	NEU Electrofiltre	1993	LAB	60
Cergy Pontoise	1	WET+FF+SCR			2006	ALSTOM+LAB	
	2	WET+FF+SCR			2006	ALSTOM+LAB	
Chambéry	1	FGC				SPEIC	
	2	FGC				SPEIC	
	3	FGC				SPEIC	
Chateaudun	1	SD				Inova France	
Chaumont	1	DRY+FF+SCR			2006	CNIM+AFEI+HAMON	
	2	DRY+FF+SCR			2006	CNIM+AFEI+HAMON	
Colmar	1	ESP+SD				CNIM	
	2	ESP+SD				CNIM	
Colombelles	1	WET				SULZER	
	2	WET				SULZER	
Concarneau	1	DRY+FF			2006	SPEIC	
	2	DRY+FF			2006	SPEIC	
Confort Meilars	1	FF			1973	GENEVET/AREA IMPIATI	
Coueron	1	WET / ESP / FF / SCR	1994	NEU ELECTROFILTRE	2006	CT Environnement / LAB	180
	2	WET / ESP / FF / SCR	1994	NEU ELECTROFILTRE	2006	CT Environnement / LAB	180
Cran Gevrier	1	ESP+FGC				SPEIC	
	2	ESP+FGC				SPEIC	
	3	ESP+FGC				SPEIC	
Créteil	1						
	3	FGC				SPEIC	
	4	ESP+WET				CT environnement	
	5	ESP+WET				CT environnement	
Dieppe	1	CYC				PRAT	
	2	CYC				PRAT	
Dijon	1	ESP+WET+SCRF		Neu Electrofiltre	2004	CT environnement + Concept Technik Unwelt	180
	2	ESP+WET+SCRF		Neu Electrofiltre	2004	CT environnement + Concept Technik Unwelt	180
Douchy les Mines	1	ESP+DRY+FF	2004		1988	NEU/NPI	
	2	ESP+DRY+FF	2004		1988	NEU/NPI	
Dunkerque	1	ESP				ROTHEMUHLE	
	2	ESP				ROTHEMUHLE	
	3	ESP				DRESSER	

France

Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace Type	Furnace Supplier	Boiler Type	Boiler Supplier	Steam Data oC/bar	Hours of Operat.2004
ECHILLAIS	1	1990		2,5	7,116	M	SOGEA	S	CITTIC CARROSSO	191/12	
	2	1990		2,5	7,116	M	SOGEA	S	CITTIC CARROSSO	191/12	
Fort de France - Martinique	1	2002		7	8,372	R	VINCI	S	CTC	350/40	
	2	2002		7	8,372	R	VINCI	S	CTC	350/40	
Fourchambault	1	2002		6,6	8,791	M	VOLUND	S	LEROUX ET LOTZ	350/38	
Grand Quevilly	1	2000		14,5	9,628	M	VON ROLL	S	FIRE POWER ENTREPROSE	395/36	
	2	2000		14,5	9,628	M	VON ROLL	S	FIRE POWER ENTREPROSE	395/36	
	3	2000		14,5	9,628	M	VON ROLL	S	FIRE POWER ENTREPROSE	395/36	
Grenoble	1	1995		8		R	DBA	S	ACMA	285	
	2	1996		8		R	DBA	S	ACMA	285	
	3	1994		8		R	DBA	S	ACMA	285	
Guerville	1	1997		3,3	9,209	FB	TMC	S	RAFACO	390/40	
	2	1997		3,3	9,209	FB	TMC	S	RAFACO	390/40	
	3	1997		3,3	9,209	FB	TMC	S	RAFACO	390/40	
Guichainville	1	2003		5,6		M	INOVA FRANCE / VON ROLL	S	INOVA FRANCE / VON ROLL	380/40	
	2	2003		5,6		M	INOVA FRANCE / VON ROLL	S	INOVA FRANCE / VON ROLL	380/40	
Halluin	1	2000		14,5	9,209	M	ALSTOM (City 2000)	S	ALSTOM	370/42	
	2	2000		14,5	9,209	M	ALSTOM (City 2000)	S	ALSTOM	370/42	
	3	2000		14,5	9,209	M	ALSTOM (City 2000)	S	ALSTOM	370/42	
Henin-Beaumont	1	1974		4,5		M	MARTIN	-	-	-	
	2	1974		4,5		M	MARTIN				
Issy-Les-Moulineaux	1	1965		18,8		M	CNIM (Martin)	S	CNIM	410/50	
	2	1965		18,8		M	CNIM (Martin)	S	CNIM	410/50	
	3	1965		18,8		M	CNIM (Martin)	S	CNIM	410/50	
	4	1965		18,8		M	CNIM (Martin)	S	CNIM	410/50	
La Couronne	1	1986		4,2		M	SOBEA	S	CITTIC CAROSSO	215	
La Rochelle	1	1988		4	8,372	M	VON ROLL	S	CITTIC modifiée LEROUX	220/24	
	2	1988		4	8,372	M	VON ROLL	S	CITTIC modifiée LEROUX	220/24	
La Séguinière	1	1983	2005	4	2000	O	Laurent BOUILLET	-	-	-	6995
La Veuve	1	2006		12,5	10,05	M	CNIM (MARTIN)	S	CNIM	400/60	
Lasse	1	2004		12,5	10,05	M	CNIM (MARTIN)	S	CNIM	400°C / 60	
Le Fayet	1	1995		7,5		M	ITISA VOLUND	S	LEROUX & LOTZ	350	

France

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP		Flue Gas Cleaning		Flue Gas Temp., °C
			Year	Supplier	Year	Supplier	
ECHILLAIS	1	DRY+ESP+FF	1990	SPEIC	2006	AREA IMPIANTI	
	2	DRY+ESP+FF	1990	SPEIC	2006	AREA IMPIANTI	
Fort de France - Martinique	1	WET+FF+SNCR			2002	CT ENVIRONNEMENT	
	2	WET+FF+SNCR			2002	CT ENVIRONNEMENT	
Fourchambault	1	DRY+FF+SNCR			2002	VOLUND / PROCEDAIR / PETRO MILJÖ	
Grand Quevilly	1	SD+ESP+FF+SCR	2000	ABB	2000	ABB	
	2	SD+ESP+FF+SCR	2000	ABB	2000	ABB	
	3	SD+ESP+FF+SCR	2000	ABB	2000	ABB	
Grenoble	1	WET				DBA	
	2	WET				DBA	
	3	WET				DBA	
Guerville	1	DRY+FF+SNCR			2004	CNIM / FLS / CNIM	
	2	DRY+FF+SNCR			2004	CNIM / FLS / CNIM	
	3	DRY+FF+SNCR			2004	CNIM / FLS / CNIM	
Guichainville	1	DRY	2003		2003	INOVA	
	2	DRY	2003		2003	INOVA	
Halluin	1	WET+FF+SCR			2000	ALSTOM	
	2	WET+FF+SCR			2000	ALSTOM	
	3	WET+FF+SCR			2000	ALSTOM	
Henin-Beaumont	1	FF			2002	LAB-GENEVET	
	2	FF			2002	LAB-GENEVET	
Issy-Les-Moulineaux	1	ESP+WET			1992	LURGI / LAB	
	2	ESP+WET			1992	LURGI / LAB	
	3	ESP+WET			1992	LURGI / LAB	
	4	ESP+WET			1992	LURGI / LAB	
La Couronne	1	ESP				WALTHER	
La Rochelle	1	DRY+FF+SNCR			2000	ABB+Fuel Tech	
	2	DRY+FF+SNCR			2000	ABB+Fuel Tech	
La Séguinière	1	DRY+FF			1995	GENEVET/NP1	
La Veuve	1	SD+FF+SNCR			2006	LAB+CNIM	
Lasse	1	SD / FF / SCR		-	2004	CNIM - SIDAC - LAB	180°C
Le Fayet	1	SD+FF				NKK + GENEVET	

France

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Le Mans	1	1975	2005	8	7,535	M	VON ROLL		-		
	2	2002		9	9,628	M	VON ROLL	S	LEROUX ET LOTZ	350/25.1	
	3	1991		12	7,116	M	VON ROLL	S	CITTIC CARROSSO	350/25.1	
Lens	1	1973		6,7		M	CNIM (MARTIN)		-		
	2	1973		6,7		M	CNIM (MARTIN)		-		
Lescar	1	1987		5		F	TRIGA ABB	S	Leroux et lotz	370	
	2	1997		6		F	TRIGA ABB	S	Leroux et lotz	370	
Limoges	1	1989		5	7,786	M	VOLUND	S	LEROUX & LOTZ	280/25	
	2	1989		5	7,786	M	VOLUND	S	LEROUX & LOTZ	280/25	
	3	1992		5	8,791	M	VOLUND	S	LEROUX & LOTZ	280/25	
Livet	1	1998		2,5	7,535	M	SOBEA				
Lons-le-Saunier	1	1994		5		M	CNIM (MARTIN)	S	CNIM	330	
Ludres	1	1995		8	8,372	M	ALSTOM (City 2000)	S	ALSTOM	400/40	
	2	1995		8	8,372	M	ALSTOM (City 2000)	S	ALSTOM	400/40	
Lunel-Viel	1	1999		8		M	ALSTOM	S	ALSTOM	360	
	2	1999		8		M	ALSTOM	S	ALSTOM	360	
Lyon 7ème	1	1990		12		M	MARTIN CNIM	S	CNIM	354	
	2	1990		12		M	MARTIN CNIM	S	CNIM	354	
	3	1990		12		M	MARTIN CNIM	S	CNIM	354	
Mainvilliers	1	1999		7,5		M	ALSTOM	S	ALSTOM	360/45	
	2	1999		7,5		M	ALSTOM	S	ALSTOM	360/45	
Marignier	1	1991		5	9,628	M	VOLUND	S	MATEC (Fire Power)	330/27	
Massy	1	1985		5,5		M	INOR Von Roll	S	CITTIC	230	
	2	1986		5,5		M	INOR Von Roll	S	CITTIC CARROSO	230	
Maubeuge	1	DEMANTELEE									
	2	2002		5,5	9,209	M	VON ROLL	S	conception VON ROLL, construction CCT	360°C /36	8187
	3	2001		5,5	9,209	M	VON ROLL	S	Conception VON ROLL, construction CCT	360°C /36	8076
Mère	1										
Messanges	1										
Metz	1	1970		6		M	Martin	S	CNIM		
	2	1970		6		M	Martin	S	CNIM		
Montauban	1	1986		5		O	LBI	S	LBI Cyclergie	194	
Montbéliard	1	1987		4	8,372	O	Laurent Bouillet	S	STEIN FASEL	260 / 16	8100
	2	1987		4	8,372	O	Laurent Bouillet	S	STEIN FASEL	260 / 16	8100
Montereau Fault Yonne	1	1973		3,2	8,791	M	SOBEA	-	-	-	
Monthyon	1	1997		7	9,209	M	CNIM (MARTIN)	S	CNIM	390/40	1843
	2	1997		7	9,209	M	CNIM (MARTIN)	S	CNIM	390/40	
	3	1998		4	9,209	FB	TMC	S	TMC	390/40	
Mourenx	1										

France

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP		Flue Gas Cleaning		Flue Gas Temp., °C
			Year	Supplier	Year	Supplier	
Le Mans	1	ESP+DRY			2001	SPEIC	
	2	DRY+FF+SCR			2002	VON ROLL / ETM	
	3	DRY+FF+SCR			2003	VON ROLL / ETM	
Lens	1	DRY				ABB Alsthom	
	2	DRY				ABB Alsthom	
Lescar	1	ESP+WET				Procedair	
	2	ESP+WET				Procedair	
Limoges	1	DRY+WET+FF+SNCR			2006	CNIM+AREA	
	2	DRY+WET+FF+SNCR			2006	CNIM+AREA	
	3	SD+FF			2006	ITISA/AREA+DCE	
Livet	1	DRY+ESP+FF	1999	PROCEDAIR	2006	AREA IMPIANTI	
Lons-le-Saunier	1	SD+ESP				CNIM	
Ludres	1	DRY+ESP+FF+SCR	1995	LURGI	2006	HAMON	
	2	DRY+ESP+FF+SCR	1995	LURGI	2006	HAMON	
Lunel-Viel	1	WET				SPEIC	
	2	WET				SPEIC	
Lyon 7ème	1	ESP+WET				LAB	
	2	ESP+WET				LAB	
	3	ESP+WET				LAB	
Mainvilliers	1	SD				ALSTOM	
	2	SD				ALSTOM	
Marignier	1	DRY+ESP+FF+SNCR	1992	WALTER	2006	IRH+WALTER+LUHR+IRH	
Massy	1	WET				LAB	
	2	WET				LAB	
Maubeuge	1						
	2	DRY - FF - SNCR			2005	VON ROLL + ROTHEMULE + AERA IMPIANTI	
	3	DRY - FF - SNCR			2005	VON ROLL + ROTHEMULE + AERA IMPIANTI	
Mère	1						
Messanges	1						
Metz	1	ESP				LURGI	
	2	ESP				LURGI	
Montauban	1	DRY+FF				ALSTOM NPI	
Montbéliard	1	DRY / FF			1997	LBI+Lodge Cotrell	160
	2	DRY / FF			1997	LBI+Lodge Cotrell	160
Montereau Fault Yonne	1	DRY+FF			2003	SPEIC	
Monthyon	1	DRY+FF+SNCR			2006	CNIM	
	2	DRY+FF+SNCR			2006	CNIM	
	3	DRY+FF+SNCR			2006	TMC / CNIM	
Mourenx	1						

France

Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace		Boiler		Steam Data oC/bar	Hours of Operat.2004
						Type	Supplier	Type	Supplier		
Nantes	1	1987		9,5		M	CNIM MARTIN	HW	CNIM	200/29	
	2	1987		9,5		M	CNIM MARTIN	HW	CNIM	200/29	
Nice	1	1977		12	8,372	M	CNIM (MARTIN)	S	CNIM	350/31	
	2	1977		12	8,372	M	CNIM (MARTIN)	S	CNIM	350/31	
	3	1982		12	8,372	M	CNIM (MARTIN)	S	CNIM	350/31	
	4	1998		18	8,372	M	CNIM (MARTIN)	S	CNIM	350/31	
Nîmes	1	2004		14	9,628	M	ALSTOM (City 2000)	S	ALSTOM	400/46	
Ouarville	1	2000		8		M	LURGI	S	LURGI	360	
	2	2000		8		M	LURGI	S	LURGI	360	
Paris	1	1969		50		M	CNIM (Martin)	S	CNIM	475/75	
	2	1969		50		M	CNIM (Martin)	S	CNIM	475/75	
Pessac	1	1991		5		M	VOLUND	S	MATEC (Fire Power)	330/27	
Pithiviers	1	1985		3,25		M	INOR VON ROLL	S	CITTIC		
Planguenoual	1	1993		5,6		M	LBI	S	STEIN FASEL	350/35	
Plouharnel	1	1971		4,2	9,209	M	ALBERTI FRONSARD	-	-	-	
Pluzunet	1	1997		7	9,209	M	VOLUND	S	LEROUX/LOTZ	350/40	
Poitiers	1	1984		3,3	8,372	M	BRUN & SORENSEN	S	LEROUX ET LOTZ	180/18	
	2	1984		3,3	8,372	M	BRUN & SORENSEN	S	LEROUX ET LOTZ	180/18	
Pontarlier	1	1989		5		M	ITISA VOLUND	ES	BABCOCK		
Pontcharra	1	1977		2,7	7,535	M	SOBEA				
Pontivy	1	1990		4		O	CYCLERGIE	S	STEIN FASEL	220/23	
Pontmain	1	1984		3,2			VINCI ENVIRONNEMENT	S	CITTIC	20 bars	8035
	2	2003		4			VINCI ENVIRONNEMENT	S	LEROUX ET LOTZ	350/40	8332
Pontx-les-Forges	1	1997		5,3		O	CYCLERGIE	S	Leroutx et Lotz	355/34	
Rambervillers	1	1983		3	7,702	M	BRUN ET SORENSEN	S	LARDET BABCOCK	335/36	
	2	1983		3	7,702	M	BRUN ET SORENSEN	S	LARDET BABCOCK	335/36	
	3	2002		6	9,628	M	STEINMULLER	S	THERMIC ENGINERING	380/36	
Reims	1	1989		6,5	7,535	R	TUNZINI	S	BERRY	290/25	
	2	1989		6,5	7,535	R	TUNZINI	S	BERRY	290/25	
Rennes	1	1968		5	10,47	M	CNIM (Martin)	S	CNIM	228/27	
	2	1968		5	10,47	M	CNIM (Martin)	S	CNIM	228/27	
	3	1996		8	9,209	M	CNIM (Martin)	S	CNIM	380/27	
Rillieux La Pape	1	1989		12		M	CNIM	S	STEIN FASEL	380	
	2	1989		12		M	CNIM	S	STEIN FASEL	380	
Rosiers d'Egletons	1	1997		5,3		O	L.B.I	S	Leroux et Lotz	360	

France

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP		Flue Gas Cleaning		Flue Gas Temp., °C
			Year	Supplier	Year	Supplier	
Nantes	1	ESP+WET				CNIM	
	2	ESP+WET				CNIM	
Nice	1	WET+ESP+SCR	1977	WALTER	2006	ALSTOM / WALTER / LAB	
	2	WET+ESP+SCR	1977	WALTER	2006	ALSTOM / WALTER / LAB	
	3	WET+ESP+SCR	1982	WALTER	2006	ALSTOM / WALTER / LAB	
	4	WET+ESP+SCR	1998	NEF	2006	ALSTOM / NEF / LAB	
Nîmes	1	SD+FF+SCR			2004	ALSTOM	
Ouarville	1	WET				ALSTOM NPI	
	2	WET				ALSTOM NPI	
Paris	1	ESP+WET			1996	LURGI / LAB	230
	2	ESP+WET			1996	LURGI / LAB	230
Pessac	1	WET+ESP			1992	LAB WALTER	
Pithiviers	1	SD				INOR VON ROLL	
Planguenoual	1	FF+DRY				GENEVET	
Plouharnel	1	DRY+FF			2000	PROCEDAIR	
Pluzunet	1	WET+FGC+ESP+SCR			2000	SULZER+CT ENVIRONNEMENT	
Poitiers	1	SD+FF			1997	FABRICOM / GENEVET	
	2	SD+FF			1997	FABRICOM / GENEVET	
Pontarlier	1	SD+ESP				ALSTOM NPI	
Pontcharra	1	DRY+FF			2002	LAB	
Pontivy	1	FF+DRY			1990	CYCLERGIE HAMON	
Pontmain	1	DRY				SPEIC	
	2	DRY				SPEIC	
Pontx-les-Forges	1	DRY			1997	LAB GENEVET	
Rambervillers	1	WET+FF			2002	INOR / CT ENVIRONNEMENT	
	2	WET+FF			2002	INOR / CT ENVIRONNEMENT	
	3	WET+FF			2002	CT ENVIRONNEMENT	
Reims	1	DRY+FF			1996	ALSTOM	
	2	DRY+FF			1996	ALSTOM	
Rennes	1	SD+DRY+ESP+FF+SCR	1992	ABB Flakt	2006	ABB Flakt + VON ROLL	
	2	SD+DRY+ESP+FF+SCR	1992	ABB Flakt	2006	ABB Flakt + VON ROLL	
	3	SD+DRY+ESP+FF+SCR	1992	ABB Flakt	2006	ABB Flakt + VON ROLL	
Rillieux La Pape	1	ESP+WET				LAB	
	2	ESP+WET				LAB	
Rosiers d'Egletons	1	DRY+FF				Genevet	

France

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Rungis	1	1985		8,5	7,535	M	CNIM (MARTIN)	HW	CNIM	180/20	
	2	1985		8,5	7,535	M	CNIM (MARTIN)	HW	CNIM	180/20	
Saint Ouen	1	1990		28		M	STEIN ALSTOM	S	STEIN	380/40	
	2	1990		28		M	STEIN ALSTOM	S	STEIN	380/40	
	3	1990		28		M	STEIN ALSTOM	S	STEIN	380/40	
Saint Pourcain sur Sioule	1	1982		4	7,535	M	ITISA VOLUND	S	BELIARD CRIGHTON	209/18	
	2	1988		5	7,535	M	ITISA VOLUND	S	LEROUX & LOTZ	209/18	
Saint Saulve	1	1977		5,5		M	CNIM MARTIN	S	BABCOCK	360/40	
	2	1977		5,5		M	CNIM MARTIN	S	BABCOCK	360/40	
	3	1977		5,5		M	CNIM MARTIN	S	LURGI	360/40	
Sainte Gemmes sur Loire - ANGERS	1	1974	2010	5	8,4	M	VON ROLL	S	CITTIC CARROSSO	202/16	7182
	2	1974	2010	5	8,4	M	VON ROLL	S	CITTIC CARROSSO	202/16	7196
	3	1974	2010	5	8,4	M	VON ROLL	S	CITTIC CARROSSO	202/16	7094
Saint-Jean-De-Folleville	1	1970		8		M	VKW	S	STEIN	235	
	2	1970		8		M	VKW	S	STEIN	235	
	3	1975		8		M	VKW		/		
Salins-les-Thermes	1	1991		0,95		M					
Saran	1	1995		7	8,372	M	VOLUND	S	LEROUX & LOTZ	355/38	
	2	1995		7	8,372	M	VOLUND	S	LEROUX & LOTZ	355/38	
Sarcelles	1	1978		10	8,372	M	VOLUND	S	STEIN	310/33	
	2	1978		10	8,372	M	VOLUND	S	STEIN	310/33	
Sausheim	1	1999		11,5		FB		S			
	2	1999		11,5		FB		S			
Schweighouse sur Moder	1	1990		5		M	ITISA VOLUND	S	ACMA	320	
	2	1990		5		M	ITISA VOLUND	S	ACMA	320	
Sens	1	1988		3	7,953	M	VOLUND	S	VOLUND	200/16	
Sète	1	1992		5,6	7,953	M	VON ROLL	S	MATEC (Fire Power)	230/27	
St Pierre d'Oléron	1	1976		2,5		M	ITISA		-		
	2	1979		2,5		M	BS FRANCE		-		
St Thibault des Vignes	1	1985		8		R	TNEE	S	FIRE POWER	260	7187
	2	1995		12		R	TNEE	S	FIRE POWER	260	7388
Strasbourg	1	1975		11,3		M	VON ROLL	S	SACM	330/30	
	2	1975		11,3		M	VON ROLL	S	SACM	330/30	
	3	1975		11,3		M	VON ROLL	S	SACM	330/30	
	4	1975		11,3		M	VON ROLL	S	SACM	330/30	
Surgères	1	1981		3,5		O	Laurent Bouillet		-Néant		

France
Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Rungis	1	DRY+ESP+FF+SCR			2006	SPEIC	
	2	DRY+ESP+FF+SCR			2006	SPEIC	
Saint Ouen	1	ESP+WET			1990	WALTER HAMON / TNEE	
	2	ESP+WET			1990	WALTER HAMON / TNEE	
	3	ESP+WET			1990	WALTER HAMON /TNEE	
Saint Pourcain sur Sioule	1	DRY+WET+ESP+FF+SCR	1998	WALTER	2006	LAB	
	2	DRY+WET+ESP+FF+SCR	1998	WALTER	2006	LAB	
Saint Saulve	1	ESP+WET			1998	WALTER/NEU	
	2	ESP+WET			1995	WALTER/NEU	
	3	ESP+WET			1994	WALTER/NEU	
Sainte Gemmes sur Loire - ANGERS	1	SD-FF			2000	ABB Flakt	
	2	SD-FF			2000	ABB Flakt	
	3	SD-FF			2000	ABB Flakt	
Saint-Jean-De-Folleville	1	ESP				AIR INDUSTRIE	
	2	ESP				AIR INDUSTRIE	
	3	ESP				AIR INDUSTRIE	
Salins-les-Thermes	1	DRY+FF					
Saran	1	DRY+ESP+FF	1995	LAB	2006	SPEIC	
	2	DRY+ESP+FF	1995	LAB	2006	SPEIC	
Sarcelles	1	DRY+ESP			1990	ABB FLÄKT	
	2	DRY+ESP			1990	ABB FLÄKT	
Sausheim	1	WET+ESP					
	2	WET+ESP					
Schweighouse sur Moder	1	SD+ESP				ALSTOM NPI	
	2	SD+ESP				ALSTOM NPI	
Sens	1	DRY+ESP+FF			2002	AREA IMPIATI	
Sète	1	DRY+ESP+FF	1992	SPEIC	2006	VON ROLL	
St Pierre d'Oléron	1	CYC				PRAT	
	2	CYC				GENEVET	
St Thibault des Vignes	1	ESP+DRY+FF+SNCR			2003	HAMON	190
	2	ESP+DRY+FF+SNCR			2003	HAMON	190
Strasbourg	1	ESP+WET			1995	CECA/HAMON + LAB	
	2	ESP+WET			1995	CECA/HAMON + LAB	
	3	ESP+WET			1995	CECA/HAMON + LAB	
	4	ESP+WET			1995	CECA/HAMON + LAB	
Surgères	1	CYC				PRAT	

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Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Taden	1	1998		7	8,372	M	ABB	S	LEROUX ET LOTZ	350/35	8074
	2	1998		7	8,372	M	ABB	S	LEROUX ET LOTZ	350/35	7829
Thiverval-Grignon	1	1974		10		M	CNIM Martin	HW	CNIM	210/35	
	2	1974		10		M	CNIM Martin	HW	CNIM	210/35	
	3	1993		14		M	CNIM Martin	S	CNIM	380/45	
Thonon Les Bains Cedex	1	1988		5	1800	M	ITISA VOLUND	S	SITTIC CARROSSO	198/15	
Tignes	1	1985		1,5	8,372	Sol fixe	SOBEA				
	2	1985		1,5	8,372	Sol fixe	SOBEA				
Toulon	1	1984		12		M	CNIM Martin	S	CNIM	385	
	2	1984		12		M	CNIM Martin	S	CNIM	385	
	3	1993		14		M	CNIM Martin	S	CNIM	385	
Toulouse Mirail	1	2003		10	9,628	M	CNIM (MARTIN)	S	CNIM	250/17	
	2	2005		10	9,628	M	CNIM (MARTIN)	S	CNIM	250/17	
	3	2006		10	9,628	M	CNIM (MARTIN)	S	CNIM	250/17	
	4	1997		14	9,628	R	VINCI	S	FIRE POWER	250/17	
Tronville en Barrois	1	1983		4		O	LAURENT BOUILLET	S	STEIN FASER	226/25	
Vaux-le-Penil	1	2003		8	9,837	M	ALSTOM	S	LEROUX ET LOTZ	380°/42 ba	8000
	2	2003		8	9,837	M	ALSTOM	S	LEROUX ET LOTZ	380°/42 ba	8000
Vedène	1	1995		6		M	CNIM (MARTIN)	S	CNIM	350	
	2	1995		6		M	CNIM (MARTIN)	S	CNIM	350	
	3	1997		6		M	CNIM (MARTIN)	S	CNIM	320	
Vert le Grand	1	1999		14	9,2	M	IVRF	S	IVRF	400	
	2	1999		14	9,2	M	IVRF	S	IVRF	400	
Villefranche sur Saône	1	2002		6,5		M	CNIM MARTIN	S	CNIM	360/44	
	2	2003		4,5		M	CNIM MARTIN	S	CNIM	360/44	
Villejust	1	1972		5	2400	M	CNIM MARTIN				
	2	1984		6	2400	M	CNIM MARTIN	HW	CNIM	180	
Villiers Saint Paul	1	2004		11		M		S			
	2	2004		11		M		S			
Vitré	1	1988		4		M	LBI	S	LARDET BABCOCK	310/35	

France
Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Taden	1	WET+FF			1998	ALSTOM	
	2	WET+FF			1998	ALSTOM	
Thiverval-Grignon	1	ESP+WET			1993	CNIM	
	2	ESP+WET			1993	CNIM	
	3	FF+WET			1993	CNIM	
Thonon Les Bains Cedex	1	DRY+ESP+FF			1988	LODGE COTTRELL/DCE	
Tignes	1	DRY+FF			2001	LAB	
	2	DRY+FF			2001	LAB	
Toulon	1	SD+FF				CNIM /ABB	
	2	SD+FF				CNIM	
	3	SD+FF				CNIM /AAF	
Toulouse Mirail	1	DRY+WET+FF+SNCR			2006	SULZER/LAB + CNIM	
	2	DRY+WET+FF+SNCR			2006	SULZER/LAB + CNIM	
	3	DRY+WET+FF+SNCR			2006	SULZER/LAB + CNIM	
	4	DRY+WET+FF+SNCR			2004	SULZER/LAB + CNIM	
Tronville en Barrois	1	WET				CT Environnement	
Vaux-le-Penil	1	SD+FF+SNCR			2003	ALSTOM	140
	2	SD+FF+SNCR			2003	ALSTOM	140
Vedène	1	ESP+SD				CNIM	
	2	ESP+SD				CNIM	
	3	ESP+SD				CNIM	
Vert le Grand	1	ESP+D/F+SD+FF+SNCR	1999	ABB	1999	ABB	120
	2	ESP+D/F+SD+FF+SNCR	1999	ABB	1999	ABB	120
Villefranche sur Saône	1	DRY+FF			2002		
	2	DRY+FF			2003		
Villejust	1	SD+FF				CNIM	
	2	SD+FF				CNIM	
Villiers Saint Paul	1	DRY+ESP+FF					
	2	DRY+ESP+FF					
Vitré	1	DRY				LAB	

France

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Amilly								
Antibes	135067	135067	0	0	0	0	0	
Argenteuil	173000							
Arrabloy	53707	41683	8933		3091			
Aurillac	6840	6700	140					
Bayonne								
Bègles	275000							
Bellegarde sur valserine								
Bellentre								
Benesse-Maremne								
Besançon	50000	55000			6000			
Bessières	155000	155000						
Béthune								
Blois							20000	
Bourgoin Jallieu								
Bourogne								
Brest								
Briec de l'Odet	52800							
Brive la Gaillarde								
Carhaix								
Carrières sous Poissy	115000							
Carrières sur Seine								
Cenon	134242	123138	0	0	11104	0	0	
Cergy Pontoise	152300	143500	8800					
Chambéry								
Chateaudun								
Chaumont	73100	73100						
Colmar								
Colombelles								
Concarneau	46000	46000						
Confort Meilars	18809	18332	477					
Coueron	98954	59217	35882	0	0	0	3855	O:50200
Cran Gevrier								
Créteil								
Dieppe								
Dijon								
Douchy les Mines	39295	33608	2157			3530		
Dunkerque	83353	79981	3221					O:19100
ECHILLAIS	29750	29750						
Fort de France - Martinique								
Fourchambault	20650	20650						
Grand Quevilly	293215	290460	2755					
Grenoble								
Guerville	52365	52365						
Guichainville	90000							
Halluin	332976							
Henin-Beaumont	54443	48478	5964					

France

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Amilly	4000	250						
Antibes	29168	5717	0	0	0	0		
Argenteuil	45000	4000		33000	64000			
Arrabloy	4661	4484		12067	123321		4490	
Aurillac					11800			8700
Bayonne	13540	900		6000				
Bègles	47000	6580		135000				
Bellegarde sur valserine	25000	1300		55000				
Bellentre	4200	1600						
Benesse-Maremne								
Besançon	12000	1500		5000	50000			
Bessières	32000	3700		80000				
Béthune								
Blois	20000	4000						73000
Bourgoin Jallieu								
Bourogne								
Brest								
Briec de l'Odet	12493			17563			14010	
Brive la Gaillarde								
Carhaix	6500	725		7500				
Carrières sous Poissy	24000	2800		50000				
Carrières sur Seine	25000	5000		17000	48000			
Cenon	35358	3108	304331	8102	108417	0	0	108417
Cergy Pontoise	37000			46800	165000		34850	165000
Chambéry								
Chateaudun								
Chaumont	14000			30500			25000	
Colmar								
Colombelles	31560	1638			105000			
Concarneau	5213				85000			33700
Confort Meilars	4573	461						
Coueron	23882	2066	277931	21055	239791	51517	15015	
Cran Gevrier								
Créteil								
Dieppe								
Dijon								
Douchy les Mines	9295	1236						
Dunkerque	24858	1743						
ECHILLAIS	6875							17250
Fort de France - Martinique								
Fourchambault				2333			1905	
Grand Quevilly	73500			172160			137520	
Grenoble								
Guerville	7366			22276	145000		12806	
Guichainville	23500	2800		42000			31000	
Halluin	84310			170459			127110	
Henin-Beaumont	12035	1843						

France

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Issy-Les-Moulineaux	537094	533411	3683		532			
La Couronne								
La Rochelle	59000	59000						
La Séguinière	29185	29185						
La Veuve								
Lasse								
Le Fayet								
Le Mans	103840	97712	6128					
Lens								
Lescar	82000	82000						
Limoges	87727	87727						
Livet	16022	16022						
Lons-le-Saunier								
Ludres	101200	96040	5160					
Lunel-Viel								
Lyon 7ème								
Mainvilliers								
Marignier	41928	41928						
Massy								
Maubeuge	87379	71314	16065					
Mère								
Messanges								
Metz								
Montauban	37500							
Montbéliard	53200							
Montereau Fault Yonne	15321							
Monthyon	122126							
Mourenx								
Nantes								
Nice	325900	322000	3900					
Nîmes								
Ouarville								
Paris	690123	684844	5279		990			
Pessac								
Pithiviers								
Planguenoual								
Plouharnel	23000	23000						
Pluzunet	52000	52000						
Poitiers	37200	37200						
Pontarlier	32680	37500						
Pontcharra	18059	18059						
Pontivy	27877	27589	288					
Pontmain	62946	61240	1706					O:29663
Pontx-les-Forges	39866	38475	1391					
Rambervillers	95000							
Reims	80550	80550						
Rennes	132709	132709						

France

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Issy-Les-Moulineaux	128291	12068		82853	918711		41236	847870
La Couronne	7500	1850						
La Rochelle	16080				140700			57200
La Séguinière	6995	1743		0	59388			
La Veuve								
Lasse								
Le Fayet	10000	1900		24000				
Le Mans	29317			10262	160500		4217	17518
Lens								
Lescar	20000	2000		25000				
Limoges	17530			10500	157000		3700	34500
Livet								
Lons-le-Saunier	5500	1500		5000	37000			
Ludres	25600			35000	257000		25000	82000
Lunel-Viel	35000	3500		65000				
Lyon 7ème								
Mainvilliers	24900	4500		54300			46500	
Marignier	7764			6838				4724
Massy								
Maubeuge	19888	3716	226429	43510	0		36323	
Mère								
Messanges								
Metz								
Montauban	5500	1500			17000			
Montbéliard	7840	2980		0	86520			53500
Montereau Fault Yonne	4742							
Monthyon	32000	4200		36054	46758			
Mourenx								
Nantes	35000	3100			120000			
Nice				67000			43000	118000
Nîmes								
Ouarville	30000	3600		50000				
Paris	152046	15922		181385	1266643		134759	930764
Pessac	8000	1000			11			
Pithiviers								
Planguenoual	7925	1900		13770				
Plouharnel	6405							
Pluzunet	10000			17639			12900	6000
Poitiers					57000			46400
Pontarlier	4700	1300			60000			23000
Pontcharra	2236							
Pontivy	4286	1226	69435			52466		
Pontmain	16921	2340	170361			116318		
Pontx-les-Forges	7826	1850	97647	13436			13436	
Rambervillers	20000	2000		16000			16000	
Reims				3550	47000			47000
Rennes				37996	256177		26193	81571

France

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Rillieux La Pape								
Rosiers d'Egletons								
Rungis	118390	118390						
Saint Ouen	622653	619226	3427		463			
Saint Pourcain sur Sioule	51300	39500	11800					
Saint Saulve	128679	126155	2524					
Sainte Gemmes sur Loire - ANGERS	83489	81333	2156					
Saint-Jean-De-Folleville								
Salins-les-Thermes								
Saran	99380	97900	1480					
Sarcelles	154101	154101						
Sausheim								
Schweighouse sur Moder	70000							
Sens	17700	17700						
Sète	39200	38000	1200					
St Pierre d'Oléron								
St Thibault des Vignes	147953	127169	20784					
Strasbourg	282329	255041	27288					
Surgères								
Taden	103200		8245		9525			
Thiverval-Grignon	191000	128000	57000		5600			
Thonon Les Bains Cedex	38700	38700						
Tignes	8900	8900						
Toulon								
Toulouse Mirail	209600	205000	4600					
Tronville en Barrois	30000							
Vaux-le-Penil	128000	126000	2000					
Vedène								
Vert le Grand								
Villefranche sur Saône	78301	76262	397		1004	287		
Villejust	81500	59600	21900					
Villiers Saint Paul								
Vitré	26500	28000						

France

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Rillieux La Pape	35000	3500		42000	105000			
Rosiers d'Egletons	6000	1600		13000				
Rungis	23343				170586			105600
Saint Ouen	143753	11482	1647549	59591	1210120		22136	1248783
Saint Pourcain sur Sioule	9500				121000			80600
Saint Saulve	29562	2183	84160	40139			32146	
Sainte Gemmes sur Loire - ANGERS	19911	2954						64836
Saint-Jean-De-Folleville								
Salins-les-Thermes	800	100						
Saran	22600			44500			37000	
Sarcelles	35053			5733	196805		501	113971
Sausheim	9000	2500		85800				
Schweighouse sur Moder	18500	2500		10000	60000			
Sens	3550				26500			17500
Sète					52000			11500
St Pierre d'Oléron								
St Thibault des Vignes	33188	5494	427474	11432			3155	226
Strasbourg	77449	7911	921498	85601	607300	261830	67889	
Surgères								
Taden	0	2350	126785	35398				
Thiverval-Grignon	37500	5210		45300	66700		28300	66700
Thonon Les Bains Cedex	6330				82900			50500
Tignes								
Toulon	73000	9000		107000	13000			
Toulouse Mirail	50800			246000	360000		10000	150000
Tronville en Barrois	6500	600			28000			
Vaux-le-Penil	33000	5000	385000	70000	0		61700	
Vedène	34000	6500		63000				
Vert le Grand								
Villefranche sur Saône	17632	2743	227541	16237	173663	22678	13340	
Villejust	27000				68000			
Villiers Saint Paul	43200	2200	10000	80000				
Vitré	4400	1200		1200	25250			25250

Number of plants:	68
Average capacity:	36 t/h
Quantity treated 2004:	15.260.000 t

Germany
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Augsburg	AVA - Abfallverwertung Augsburg GmbH www.ava-augsburg.de	Am Mittleren Moos 60 86167 Augsburg	+49 0821/7409-102 +49 0821/7409-100
Bamberg	Müllheizkraftwerk Bamberg www.mhkw.bamberg.de	Rheinstr. 6 96052 Bamberg	+49 0951/6041-11 +49 0951/6041-12
Berlin-Ruhleben	Abfallbehandlungswerk Nord (Berlin) www.bsr.de	Freiheit 24-25 13597 Berlin	+49 030/7592-5201 +49 030/7592-5208
Bielefeld	Müllverbrennungsanlage Bielefeld-Herford GmbH www.interargem.de	Schelpmilser Weg 30 33609 Bielefeld	+49 05221/283-200 +49 05221/283-219
BKB Hannover	BKB Hannover	Moorwaldweg 310 30659 Hannover	
Bonn	MVA Müllverwertungsanlage Bonn GmbH www.stadtwerke-bonn.de	Immenburgerstr 22 53121 Bonn	+49 0228/7255-200 +49 0228/7255-205
Bremen	Müllheizwerk Bremen www.ano-bremen.de	Oken 2 28219 Bremen	+49 0421/6189-140 +49 0421/6189-149
Bremerhaven	Müll-Heiz-Kraftwerk (Bremerhaven) www.beg-entsorgungsgesellschaft.de	Zur Hexenbrücke 16 27570 Bremerhaven	+49 0471/186-0 +49 0471/186-112
Burgau	Müllverschwelungsanlage Burgau	Remharter Straße 89331 Unterknöringen	+49 08221/95-482 +49 08221/95-480
Burgkirchen	Müllheizkraftwerk Burgkirchen www.zas-burgkirchen.de	Bruck 110 84508 Burgkirchen	+49 08679/308-0 +49 08679/308-308
Böblingen	Restmüllheizkraftwerk Böblingen www.rbb.info	Musberger Sträßle 11 71032 Böblingen	+49 07031/2118-100 +49 07031/2118-111
Coburg	Müllheizkraftwerk Coburg www.zaw-coburg.de	Glender Str 30 96450 Coburg	+49 09561/5530-0 +49 09561/5530-39
Darmstadt	Müllheizkraftwerk Darmstadt www.zas-darmstadt.de	Otto-Röhm-Str 19 64293 Darmstadt	+49 06151/701-4320 +49 06151/701-4309
Düsseldorf	Stadtwerke Düsseldorf AG www.swd-ag.de	Flinger Broich 25 40235 Düsseldorf	+49 0211/821-6860 +49 0211/821-3035
Eschbach	TREA Breisgau	Heitersheimerstrasse 2 79427 Eschbach	
Eschweiler	MVA Weisweiler www.mva-weisweiler.de	Zum Hagelkreuz 22 52249 Eschweiler	+49 02403.991-101 +49 02403-991-103
Essen	Müllheizkraftwerk Essen-Karnap www.rwe.de	Arenbergstr. 45 45329 Essen	+49 0201/8386-0 +49 0201/8386-3481
Frankfurt	AVA Nordweststadt www.fes-frankfurt.de	Heddernheimer Landstr. 157 60439 Frankfurt a. Main	+49 069-212-32112 +49 069-212-32050
Greppin	Gemeinschaftsklärwerk Bitterfeld-Wolfen www.gkw-bitterfeld-wolfen.de	Salegaster Chaussee 2 06803 Greppin	+49 03493/77913 +49 03493/72187
Göppingen	Müllheizkraftwerk Göppingen www.bkb-goeppingen.de	Iltishofweg 40 73037 Göppingen	+49 07161-6716222 +49 07161-6716210
Hagen	Müllverbrennungsanlage Hagen www.heb-hagen.de	Am Pfannenofen 39 58097 Hagen	+49 02331/207-3868 +49 02331/882028
Hamburg	Müllverwertung Borsigstraße	Borsigstr 6 22113 Hamburg	+49 040/73189-101 +49 040/73189-115

Germany
General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Augsburg	Barth	AVA - Abfallverwertung Augsburg GmbH 1.000.000	Am Mittleren Moos 60 86167 Augsburg
Bamberg	Externbrink	Zweckverband Müllheizkraftwerk Stadt und Landkreis Bamberg 500.000	Kettenbrückstr. 1 96052 Bamberg
Berlin-Ruhleben	Dr. Oldenstein	Berliner Stadtreinigungsbetriebe (BSR)	Ringbahnstr. 96 12103 Berlin
Bielefeld	Michael Kahl michael.kahl@interargem.de	Interargem-Entsorgungs-GmbH 1.000.000	Goebenstr. 3 - 7 32052 Herford
BKB Hannover		500.000	
Bonn	Becker	Stadtwerke Bonn GmbH 300.000	Theaterstr. 24 53111 Bonn
Bremen	Römhild	ANO Abfallbehandlung Nord GmbH 600.000	Oken 3 28219 Bremen
Bremerhaven	Kaletka	Bremerhavener Entsorgungsgesellschaft mbH 650.000	Zur Hexenbrücke 16 27570 Bremerhaven
Burgau	Schmid	Landkreis Günzburg 121.000	Bismarckstr. 9 89312 Günzburg
Burgkirchen	Herr Holl info@zas-burgkirchen.de	ZV Abfallverwertung Südostbayern 949.000	Bruck 110 84508 Burgkirchen
Böblingen		IGORA Verwaltungsgesellschaft mbH 500.000	Südliche Münchner Str. 24 82031 Grünwald
Coburg	Georg Papa g.papa@zaw-coburg.de	Zweckverband für Abfallwirtschaft in Nordwest-Oberfranken, D 346000	Von-Werthern-Str. 6 96487 Dörfles-Esbach
Darmstadt	Mielke	ZV Abfallverwertung Südhessen, Darmstadt 1.000.000	Frankfurter Str. 100 64293 Darmstadt
Düsseldorf	Hansmann ghansmann@swd-ag.de	Stadtwerke Düsseldorf AG 650.000	Flinger Broich 25 40235 Düsseldorf
Eschbach		SOTEC GmbH 400.000	Hafenstr. 25 66111 Saarbrucken
Eschweiler	U. Koch / A Fries	MVA Weisweiler GmbH & Co KG 550.000	Zum Hagelkreuz 22 52249 Eschweiler
Essen		RWE Power AG- Kraftwerke Region West-MHKW Essen-Karnap 1.227.537	Arenbergstr. 45 45329 Essen
Frankfurt	Fechner	Stadt Frankfurt - Umweltamt - 1.300.000	Seehofstr. 41 60594 Frankfurt a. Main
Greppin	Dr. Basse info@gkw-bitterfeld-wolfen.de	GKW Gemeinschaftsklärwerk Bitterfeld-Wolfen 420.000	Salegaster Chaussee 2 06803 Greppin
Göppingen	Althaus	Müllheizkraftwer Göppingen GmbH 250.000	Iltishofweg 40 73037 Göppingen
Hagen		Hagener Entsorgungsbetrieb HEB GmbH 300.000	Fuhrparkstr. 14 - 20 58089 Hagen
Hamburg	Kaulbarsch	Müllverwertung Borsigstraße GmbH 680.000	Borsigstraße 6 22113 Hamburg

Germany
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Hamburg	Müllverwertungsanlage Rugenberger Damm www.mvr-hh.de	Rugenberger Damm 1 21129 Hamburg	+49 040/74186-100 +49 040/74186-115
Hamburg	Müllverbrennungsanlage Stellinger Moor www.srhh.de	Schnackenburgallee 100 22525 Hamburg	+49 040/25763301 +49 040/2576-3300
Hameln	Enertec Hameln GmbH www.interargem.de	Am Kraftwerk 1 31789 Hameln	+49 05151/810 +49 05151/812-922
Hamm	MHB Hamm Betriebsführungsges. mbH www.mva-hamm.de	Am Lausbach 2 59075 Hamm	+49 02381/9770232 +49 02381/70087
Helmstedt	TRV Buschhaus www.bkb.de	Schöninger Str 2/3 38350 Helmstedt	+49 05351/18-0 +49 05351/18-4740
Herten	RZR Herten www.agr.de	Im Emscherbruch 11 45699 Herten	+49 02366/300-219 +49 02366/300-400
Ingolstadt	Müllverwertungsanlage Ingolstadt www.mva.ingolstadt.de	Am Mailinger Bach 141 85055 Ingolstadt	+49 0841/3784820 +49 0841/3784849
Iserlohn	Müllheizkraftwerk Iserlohn www.amk-mhkw.de	Giesestr 10 58636 Iserlohn	+49 02371/4301-119 +49 02371/4301-113
Kamp-Lintfort	Abfallentsorgungszentrum (AEZ) Kreis Wesel www.aez-asdonkshof.de	Graftstr. 25 47475 Kamp-Lintfort	+49 2842/940-267 +49 2842/940-200
Kassel	Müllheizkraftwerk Kassel www.mhkw-kassel.de	Am Lossewerk 8-10 34123 Kassel	+49 0561/7824030 +49 0561/7824026
Kassel	Kassel 2	Am Lossewerk 8-10 34123 Kassel	+49 0561/782-2611 +49 0561/782-2610
Kempten	ZAK Energie GmbH www.zak-kempten.de	Dieselstr. 20 87437 Kempten	+49 0831/5714814 +49 0831/5714850
Kiel	Müllheizkraftwerk Kiel www.mvkiel.de	Theodor-Heuss-Ring 30 24114 Kiel	+49 0431/5942-046 +49 0431/5942-910
Krefeld	EGK Krefeld www.egk.de	Parkstr. 234 47829 Krefeld	+49 2151/495-500 +49 2151/495-495
Köln	AVG Köln	Geestemünder Str. 23 50735 Köln	+49 0221/7170-0 +49 0221/7170-333
Landshut	Landshut	Am Lurzenhof 31 84036 Landshut	+49 0871/14362400
Lauta	Thermische Abfallbehandlung Lauta T-A-Lauta.de	Straße B, Nr. 5 D- 02991 Lauta	+49 35722 933 301 +49 35722 933 390
Leuna	MVV TREA Leuna	An der B 19. Tor 12. Bau 1207 06237 Leuna	
Leverkusen	AVEA MHKW Leverkusen GmbH & Co. KG www.avea.de	Im Eisholz 3 51373 Leverkusen	+49 214/8668-316 +49 214/8668-100
Ludwigshafen	GML Abfallwirtschaftsgesellschaft mbH	Lagerplatzweg 67059 Ludwigshafen	+49 (0) 621/5054-930 +49 (0) 621/5054-960
Magdeburg	Müllheizkraftwerk Rothensee www.mhkw-rothensee.de	Kraftwerk-Privatweg 7 39126 Magdeburg	+49 391-5872795 +49 391-5871764
Mainz	Abfallverbrennungsanlage Mainz		

Germany

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Hamburg	Dr. Zwahr / Frau Menke	MVR Müllverwertung Rugenberger Damm GmbH & Co KG 1.200.000	Rugenberger Damm 1 21129 Hamburg
Hamburg	Franck	Stadtreinigung Hamburg 600.000	Schnackenburgallee 100 22525 Hamburg
Hameln	Lähälme	Interargem-Entsorgungs-GmbH 250.000	Schelpmilser Weg 30 33609 Bielefeld
Hamm		MVA Hamm Eigentümer GmbH 1.050.000	Am Lausbach 2 59075 Hamm
Helmstedt		Braunschweigische Kohlen-Bergwerke AG 1.000.000	Schöninger Str. 2/3 38350 Helmstedt
Herten	von dem Berge	AGR Abfallentsorgungsgesellschaft Ruhrgebiet mbH, 754.000	Gildehofstr. 1 45127 Essen
Ingolstadt	Meier gerhard.meier@mva.ingolstadt.de	ZV Müllverwertungsanlage Ingolstadt 700.000	Am Mailinger Bach 141 85055 Ingolstadt
Iserlohn	Schumacher	AMK-Abfallentsorgungsgesellschaft des Märkischen K 460.000	Giesestr. 10 58636 Iserlohn
Kamp-Lintfort	Spohn spohn@aez-asdonkshof.de	Kreis Weseler Abfallgesellschaft mbH & Co KG 480.000	Graftstr. 25 47475 Kamp-Lintfort
Kassel	Hr. Themann	MHKW Kassel GmbH 350.000	Königstor 3 - 13 34117 Kassel
Kassel			
Kempten	Witt	ZAK Energie GmbH 289.700	Immenstädter Str. 79a 87435 Kempten
Kiel	U. Günther	1 Versorgung und Verkehr Kiel GmbH, 433.000	Werftstr. 233 - 234 24143 Kiel
Krefeld	Dr. Mützenich muetzenich@egk.de	EAG Entsorgungsanlagengesellschaft Krefeld GmbH & Co. KG 1.000.000	Parkstr. 234 47829 Krefeld
Köln	Dr. Rolf	AVG Abfallentsorgungs- und Verwertungsgesellschaft Köln mbH 1.000.000	Geestemünder Str. 23 50735 Köln
Landshut		Stadtwerke Landshut	
Lauta	Herr Jäger hartmut.jaeger@vattenfall.de	Thermische Abfallbehandlung Lauta VEAG/STEAG Aktiengesellschaft oHG 1.100.000	Chausseesraße 23 D-10115 Berlin
Leuna	trea1@leuna.de	400.000	
Leverkusen	Austel au@avea.de	AVEA GmbH & Co. KG 800.000	Im Eisholz 3 51373 Leverkusen
Ludwigshafen	Westermann westermann@gml.frm.de	GML Abfallwirtschaftsgesellschaft mbH, Ludwigshafe 680.000	Bürgermeister-Grünzweig-Straße 87 67059 Ludwigshafen
Magdeburg	Herr Oesterhoff Oesterhoff@mhkw-rothensee.de	Müllheizkraftwerk Rothensee GmbH 900.000	Kraftwerk-Privatweg 7 39126 Magdeburg
Mainz			

Germany
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Mannheim	Müllheizkraftwerk Mannheim www.mvv.de	Otto-Hahn-Str. 1 68169 Mannheim	+49 0621/290-0 +49 0621/290-4606
Neunkirchen	Abfallheizkraftwerk Neunkirchen www.sotec.de	Am Blücherflöz 12 66538 Neunkirchen	+49 06821/8698-0 +49 06821/8698-119
Neustadt	MHKW Neustadt www.zv-aw.de	Industrieweg 9 - 11 23730 Neustadt / Holstein	+49 04561/399-412 +49 04561/399-387
Nürnberg	ASN Nürnberg www.asn.nuernberg.de	Hintere Marktstr. 4 904441 Nürnberg	+49 0911/231-7707 +49 0911/231-7708
Oberhausen	Gemeinschafts-Müll-Verbrennungsanlage Niederr.	Buschhausener Strasse 46018 Oberhausen	+49 0208/8594-100 +49 0208/8594-210
Offenbach	Müllheizkraftwerk Offenbach www.evo-ag.de	Dietzenbacher Str. 189 63069 Offenbach	+49 069/8060-2522 +49 069/8060-2599
Olching	AHKW Geiselbullach (Olching) www.mva-geislbullach.de	Josef-Kistler-Weg 22 82140 Olching	+49 08142/2867-0 +49 08142/2867-92
Pirmasens	MHKW Pirmasens www.sotec.de	Staffelberg 2-4 66954 Pirmasens	+49 06331/5536-10 +49 06331/5536-60
Rosenheim	Stadtwerke Rosenheim GmbH & Co. KG www.stadtwerke-rosenheim.de	Färberstr. 47 83022 Rosenheim	+49 08031/36-2501 +49 08031/15883
Schwandorf	Zweckverband Müllverwertung Schwandorf (ZMS) www.z-m-s.de	Alustr. 7 92421 Schwandorf	+49 09431/631-555 +49 09431/631-595
Schweinfurt	GKS Schweinfurt www.gks-schweinfurt.de	Hafenstr. 30 97424 Schweinfurt	+49 09721/6580-133 +49 09721/6580-160
Solingen	EntsorgungsBetriebe Solingen- MHKW - www.entsorgungsbetriebe.solingen.de	Sandstr. 16a 42655 Solingen	0212/2719-112 0212/2719-111
Stapelfeld	MVA Stapelfeld www.bkb-stapelfeld.de	Ahrensburger Weg 4 22145 Stapelfeld	+49 0406/7576-813 +49 0406/7576-549
Stassfurt	EVZA Stassfurt	An der Loderburger Bahn 39418 Stassfurt	
Stuttgart	Restmüllheizkraftwerk Stuttgart-Münster	Voltastr. 45 70376 Stuttgart	+49 0711/289-44517 +49 0711/289-47714
Stuttgart	Hauptklärwerk Mühlhausen www.stuttgart.de	Aldinger Str. 212 70378 Stuttgart	+49 0711/289-44517 +49 0711/289-47714
Tornesch	Müllheizkraftwerk Tornesch-Ahrenlohe www.gab-tornesch.de	Hasenkamp 15 25436 Tornesch-Ahrenlohe	+49 04120/709-111 +49 04120/709-100
Ulm	Müllheizkraftwerk Ulm-Donautal www.zv-tad.de	Siemensstr. 1 89079 Ulm	+49 0731/185-1285 +49 0731/185-1265
Unterföhring	HKW Nord München www.awm.muenchen.de	Münchener Str. 22 85774 Unterföhring	+49 089/9925-8310 +49 089/2361-8229
Völklingen	Betriebsgesellschaft AVA Velsen GmbH www.ava-velsen.de	Alte Grube Velsen 66333 Völklingen	+49 06898/946-112 +49 06898/946-111
Weißenfels	SITA Abfallverwertung GmbH www.sita-deutschland.de	Bayerische Straße 20 D-06679 Zorbau	+49-34441-505-0 +49-34441-505-210

Germany

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Mannheim	Michael Horix m.horix@mvv.de	MVV RHE AG 1.047.440	Luisenring 49 68159 Mannheim
Neunkirchen		SOTEC-Vermietungsgesellschaft MVA Neunkirchen mbH & Co. 400.000	Tölzer Straße 15 82031 Grünwald
Neustadt	Rappl hans.rappl@zv-aw.de	ZVO Abfallwirtschafts GmbH 205.000	Postfach 13 53 23663 Timmendorfer Strand
Nürnberg	Wittek	Abfallwirtschaft und Stadtreinigungsbetrieb Nürnberg - ASN 850.000	90425 Nürnberg
Oberhausen	Ernek	Gemeinschafts-Müll-Verbrennungsanlage Niederrhein GmbH 800.000	Postfach 10 26 37 46018 Oberhausen
Offenbach	Kneisel joerg.kneisel@evo-ag.de	Energieversorgung Offenbach AG 1.000.000	Andréstr. 71 63067 Offenbach
Olching		GfA Gesellschaft für Abfallwirtschaft mbH 331.851	Josef-Kistler-Weg 22 82140 Olching
Pirmasens		Abfallbehandlungs GmbH & Co. KG 450.000	Südliche Münchner Str. 24 82031 Grünwald
Rosenheim	Dr. Götz Brühl info-stadtwerke@rosenheim.de	Stadtwerke Rosenheim GmbH & Co. KG 100.000	Bayerstr. 5 83022 Rosenheim
Schwandorf	Denk	Zweckverband Müllverwertung Schwandorf (ZMS) 1.650.544	Alutstr. 7 92421 Schwandorf
Schweinfurt	Walter	Gemeinschaftskraftwerk Schweinfurt GmbH 1.000.000	Hafenstr. 30 97424 Schweinfurt
Solingen		Stadt Solingen 160.000	Der Oberbürgermeister
Stapelfeld	Schwarz	MVA Stapelfeld GmbH 950.000	Ahrensburger Weg 4 22145 Stapelfeld
Stassfurt			
Stuttgart	Eberle	EnBW Kraftwerke AG 600.000	Voltastr. 45 70376 Stuttgart
Stuttgart	Eberle	Landeshauptstadt Stuttgart, Tiefbauamt/SES 1.260.000	Hohe Straße 25 70176 Stuttgart
Tornesch	Doose	GAB Gesellschaft für Abfallwirtschaft und Behandlung 290.000	Bundesstr. 301 25495 Kummerfeld
Ulm	Stefan Freibauer info@zv-tad.de	ZV Thermische Abfallverwertung Donautal, Ulm 1.000.000	Schillerstr. 30 89077 Ulm
Unterföhring		Landeshauptstadt München 3.100.000	Georg-Brauchle-Ring 29 80992 München
Völklingen	Feld	EVS Gesellschaft für Abfallverwertungsanlagen mbH 600.000	Untertürkheimer Str. 21 66117 Saarbrücken
Weißenfels	Josef Staus sks.zorbau@sita-deutschland.de	SITA Abfallverwertung GmbH 1.4 Mio	Industriestraße 161 D-50999 Köln

Germany
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Weißenhorn	Müllkraftwerk Weißenhorn www.awb-neu-ulm.de	Daimlerstr. 36 89264 Weißenhorn	+49 07309/878-207 +49 07309/878-216
Wuppertal	AWG Abfallwirtschaftsgesellschaft mbH Wuppertal www.awg.wuppertal.de	Korzert 15 42349 Wuppertal	+49 0202/4042-145 +49 0202/4042-177
Würzburg	Müllheizkraftwerk Würzburg www.zvaws.de	Gattinger Str. 31 97076 Würzburg	+49 0931/36-2511 +49 0931/36-1513

Germany

General Information

Location	**Contact Person** **E-mail**	**Owner of plant** **No. of inhab. served**	**Owners** **Address**
Weißenhorn	Brugger	Landkreis Neu-Ulm, Weißenhorn 300.000	Kantstr. 8 89231 Neu-Ulm
Wuppertal		AWG Abfallwirtschaftsgesellschaft mbH Wuppertal 1.000.000	Postfach 10 18 80 42108 Wuppertal
Würzburg	Dima	Zweckverband Abfallwirtschaft Raum Würzburg 380.000	Eichhornstr. 5 97070 Würzburg

Germany

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Augsburg	1	1996		10	9,2	M	W+E	S	Baumgarte	400/40	
	2	1996		10	9,2	M	W+E	S	Baumgarte	400/40	
	3	1996		10	9,2	M	W+E	S	Baumgarte	400/40	
Bamberg	1	1978		6	9	M	DBA	S	DBA	227/27	
	2	1978		6	9	M	DBA	S	DBA	227/27	
	3	1981		6	9	M	DBA	S	DBA	227/27	
Berlin-Ruhleben	1	1995		31	9	M	Babcock	S	Babcock	470/75	
	2	1997		32	9	M	Babcock	S	Babcock	470/75	
	3	1996		32	9	M	Babcock	S	Babcock	470/75	
	4	1996		32	9	M	Babcock	S	Babcock	470/75	
	5	1996		24	9	M	Babcock	S	Babcock	470/75	
	6	1996		24	9	M	Babcock	S	Babcock	470/75	
	7	1997		24	9	M	Babcock	S	Babcock	470/75	
	8	1997		24	9	M	Babcock	S	Babcock	470/75	
Bielefeld	1	1981		16	12,4	M	W+E	S	EWB	385/40	
	2	1981		16	12,4	M	W+E	S	EWB	385/40	
	3	1981		16	12,4	M	W+E	S	EWB	385/40	
BKB Hannover	1									400/40	
Bonn	1	1991		10	10	M	Von Roll	S	Lendjes/ Baumgarte	400/40	
	2	1991		10	10	M	Von Roll	S	Lendjes/ Baumgarte	400/40	
	3	1991		10	10	M	Von Roll	S	Lendjes/ Baumgarte	400/40	
Bremen	1	1969		15	8,4	M	Balcke/Dürr	S	Bremer Vulkan	215/22	
	2	1969		15	8,4	M	Balcke/Dürr	S	Bremer Vulkan	215/22	
	3	1969		15	8,4	M	Balcke/Dürr	S	Bremer Vulkan	215/22	
	4	1976		20	12,5	M	Balcke/Dürr	S	Bremer Vulkan	215/22	
Bremerhaven	1	1976		15	10	M	Von Roll	S	MAN-Seebeckwerft	400/40	
	2	1976		15	10	M	Von Roll	S	MAN-Seebeckwerft	400/40	
	3	1976		15	10	M	Von Roll	S	MAN-Seebeckwerft	400/40	
Burgau	1	1983		3	9,5	P	Babcock	S	Babcock	400/25	
	2	1983		3	9,5	P	Babcock	S	Babcock	400/25	
Burgkirchen	1	1994		15	10,56	M	Steinmüller	S	Steinmüller	400/80	7819
	2	1994		15	10,56	M	Steinmüller	S	Steinmüller	400/80	7668
Böblingen	1	1999		9,43		M	LCS	S	LCS	400/40	7560
	2	1999		9,43		M	LCS	S	LCS	400/40	7728
Coburg	1	1988		11	11	M	Martin	S	Wehrle	400/40	
	2	1988		11	11	M	Martin	S	Wehrle	400/40	
Darmstadt	1	1967		11	8,5	M	Von Roll	S	Noell/Wamser	350/38	
	2	1967		8,3	8,5	M	Von Roll	S	Noell/Wamser	350/38	
	3	1977		11	8,5	M	Von Roll	S	Noell/Wamser	350/38	
Düsseldorf	1	1991		12,5	10,9	M	VKW/Babcock	S	Lentjes	500/80	
	2	1991		12,5	10,9	M	VKW/Babcock	S	Lentjes	500/80	
	3	1989		12,5	10,9	M	VKW/Babcock	S	Lentjes	500/80	
	4	1989		12,5	10,9	M	VKW/Babcock	S	Lentjes	500/80	
	5	1995		12,5	10,9	M	VKW/Babcock	S	Lentjes	500/80	
	6	1980		12,5	10,9	M	VKW/Babcock	S	Lentjes	500/80	
Eschbach	1									400/40	

Germany

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Augsburg	1	DRY.WET. SCR.FF.ESP			1995	ABB	120
	2	DRY.WET. SCR.FF.ESP				ABB	120
	3	DRY.WET. SCR.FF.ESP				ABB	120
Bamberg	1	ESP.WET.FF.SCR				DBA/ABB	150
	2	ESP.WET.FF.SCR				DBA/ABB	150
	3	ESP.WET.FF.SCR				DBA/ABB	150
Berlin-Ruhleben	1	DRY.FF.O(CAT)				Fläkt/ABB	145
	2	DRY.FF.O(CAT)				Fläkt/ABB	145
	3	DRY.FF.O(CAT)				Fläkt/ABB	145
	4	DRY.FF.O(CAT)				Fläkt/ABB	145
	5	DRY.FF.O(CAT)				Fläkt/ABB	145
	6	DRY.FF.O(CAT)				Fläkt/ABB	145
	7	DRY.FF.O(CAT)				Fläkt/ABB	145
	8	DRY.FF.O(CAT)				Fläkt/ABB	145
Bielefeld	1	ESP.WET. SCR.FF	1981	DBA	1994	DBA	110
	2	ESP.WET. SCR.FF	1981	DBA	1994	DBA	110
	3	ESP.WET. SCR.FF	1981	DBA	1994	DBA	110
BKB Hannover	1						
Bonn	1	ESP.WET.FF				Von Roll	108
	2	ESP.WET.FF				Von Roll	108
	3	ESP.WET.FF				Von Roll	108
Bremen	1	SD.FF. ESP				Lurgi	
	2	SD.FF. ESP				Lurgi	
	3	SD.FF. ESP				Lurgi	
	4	SD.FF. ESP				Lurgi	
Bremerhaven	1	SNCR.ESP.WET.FF				Lurgi/Von Roll	120
	2	SNCR.ESP.WET.FF				Lurgi/Von Roll	120
	3	SNCR.ESP.WET.FF				Lurgi/Von Roll	120
Burgau	1	FF.SNCR.SD.O				Babcock	
	2	FF.SNCR.SD.O				Babcock	
Burgkirchen	1	ESP.WET.SCR.FF	1994	Lurgi	1994	Lurgi	140
	2	ESP.WET.SCR.FF	1994	Lurgi	1994	Lurgi	140
Böblingen	1	FF.WET. O(CAT)				LCS	175
	2	FF.WET. O(CAT)				LCS	175
Coburg	1	ESP.WET. FF.SNCR				Lurgi	75
	2	ESP.WET. FF.SNCR				Lurgi	75
Darmstadt	1	DRY.WET.SCR.ESP				Von Roll/Lurgi	105
	2	DRY.WET.SCR.ESP				Von Roll/Lurgi	105
	3	DRY.WET.SCR.ESP				Von Roll/Lurgi	105
Düsseldorf	1	ESP.WET. FF.SCR				Babc/Lentjes	180
	2	ESP.WET. FF.SCR				Babc/Lentjes	180
	3	ESP.WET. FF.SCR				Babc/Lentjes	180
	4	ESP.WET. FF.SCR				Babc/Lentjes	180
	5	ESP.WET. FF.SCR				Babc/Lentjes	180
	6	ESP.WET. FF.SCR				Babc/Lentjes	180
Eschbach	1						

Germany

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Eschweiler	1	1996		16	10,1	M	DBA	S	LCS	400/40	
	2	1996		16	10,1	M	DBA	S	LCS	400/40	
	3	1996		16	10,1	M	DBA	S	LCS	400/40	
Essen	1	1987		26,3	9	M	VKW	S	VKW	400/41	
	2	1987		26,3	9	M	VKW	S	VKW	400/41	
	3	1987		26,3	9	M	VKW	S	VKW	400/41	
	4	1993		26,3	9	M	VKW	S	VKW	400/41	
Frankfurt	1	1966		15	9	M	Von Roll	S	Von Roll	500/60	
	2	1966		15	9	M	Von Roll	S	Von Roll	500/60	
	3	1966		15	9	M	Von Roll	S	Von Roll	500/60	
	4	1966		15	9	M	Von Roll	S	Von Roll	500/60	
Greppin	1	1997		2	10	FB	Tölke	S	Bertsch	180/10	7800
Göppingen	1	1975		18	10,5	M	Babcock	S	VKW	410/39	
Hagen	1	1966		6	8,3	O	VKS	S	VKS	190/13,5	7126
	2	1966		6	8,3	O	VKS	S	VKS	190/13,5	6887
	3	1966		6	8,3	O	VKS	S	VKS	190/13,5	7183
Hamburg	1	1999		21,5	9,75	M	Steinmüller	S	Steinmüller	400/42	
Hamburg	1	1972		19	6,28	M	Martin	S	Walther	410/40	
Hamburg	1	1994		21,5	9	M	Steinmüller	S	Steinmüller	380/19	8111
	2	1994		21,5	9	M	Steinmüller	S	Steinmüller	380/19	8086
Hamburg	2	1999		21,5	9,75	M	Steinmüller	S	Steinmüller	400/42	
Hamburg	2	1972		19	6,28	M	Martin	S	Walther	410/40	
Hameln	1	1977		10	10,5	M	VKW	S	VKW	420/40	
	2	1984		10	10,5	M	VKW	S	VKW	420/40	
	3	1993		10	10,5	M	EVT	S	EVT	420/40	
Hamm	1	1985		9,4	8,8	M		S		400/40	
	2	1985		9,4	8,8	M		S		400/40	
	3	1985		9,4	8,8	M		S		400/40	
	4	1985		9,4	8,8	M		S		400/40	
Helmstedt	1	1998		22,5	9,2	M	Alstom	S	Alstom	400/40	
	2	1998		22,5	9,2	M	Alstom	S	Alstom	400/40	
Herten	1	1982		20	9,4	M	Steinmüller	S	Steinmüller	320/32	
	2	1990		20	9,4	M	Kablitz	S	MAB Lentjes	320/32	
Ingolstadt	1	1996		12	10,5	M	Martin	S	Wehrle	400/40	8035
	2	1996		12	10,5	M	Martin	S	Wehrle	400/40	7059
	3	1983		8	10,5	M	W+E	S	Wamser	400/40	5957
Iserlohn	1	1988		8	8,4	M	Koch	S	Lurgi	280/18	
	2	1989		8	8,4	M	Technip/Koch	S	Lurgi	280/18	
	3	1996		16	8,4	M	Koch	S	Lurgi	280/18	
Kamp-Lintfort	1	1997		16,6	9,2	F	DBA	S	DBA	400/40	7990
	2	1997		16,6	9,2	F	DBA	S	DBA	400/40	7970
Kassel	1										
Kassel	1	1968		10	7	M	Dürr	S	Dürr	420/42	
	2	1968		10	7	M	Dürr	S	Dürr	420/42	
	3	1968		10	7	M	Dürr	S	Dürr	420/42	
	4	1968		10	7	M	Dürr	S	Dürr	420/42	
Kempten	1	1996		8,5	13,4	M	Martin	S	Wehrle	400/38	8070
Kiel	1	1996		8,75	9	M	Babcock	S	Babcock	400/40	
	2	1996		8,75	9	M	Babcock	S	Babcock	400/40	

Germany

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Eschweiler	1	SD.FF. WET.SCR				DBA	
	2	SD.FF. WET.SCR				DBA	
	3	SD.FF. WET.SCR				DBA	
Essen	1	ESP.WET. FF.SCR				DBA/EVT	160
	2	ESP.WET. FF.SCR				DBA/EVT	160
	3	ESP.WET. FF.SCR				DBA/EVT	160
	4	ESP.WET. FF.SCR				DBA/EVT	160
Frankfurt	1	SD.FF. ESP				Lurgi	120
	2	SD.FF. ESP				Lurgi	120
	3	SD.FF. ESP				Lurgi	120
	4	SD.FF. ESP				Lurgi	120
Greppin	1	ESP.WET.FF	1997	BEHT	1997	Götaverken Miljö	65
Göppingen	1	SD.FF. WET.O(CAT)					
Hagen	1	SD.ESP. SCR.FF				Babcock	180
	2	SD.ESP. SCR.FF				Babcock	180
	3	SD.ESP. SCR.FF				Babcock	180
Hamburg	1	FF.WET.WET.FF				Steinmüller	130
Hamburg	1	WET.ESP.SCR				Von Roll. Lentjes	120
Hamburg	1	FF.WET				Steinmüller	
	2	FF.WET				Steinmüller	
Hamburg	2	FF.WET.WET.FF				Steinmüller	130
Hamburg	2	WET.ESP.SCR				Von Roll. Lentjes	120
Hameln	1	DRY.ESP.FF.O(CAT)				Lentjes	140
	2	DRY.ESP.FF.O(CAT)				Lentjes	140
	3	DRY.ESP.FF.O(CAT)				Lentjes	140
Hamm	1	SD					170
	2	SD					170
	3	SD					170
	4	SD					170
Helmstedt	1	FF. WET				Lurgi	65
	2	FF. WET				Lurgi	65
Herten	1	WET.ESP.O(CAT)				Bischoff/ Lentjes	
	2	WET.ESP.O(CAT)				Bischoff/ Lentjes	
Ingolstadt	1	FF.WET. O(CAT)			1996	Von Roll	145
	2	FF.WET. O(CAT)			1996	Von Roll	145
	3	ESP.WET.O(CAT).FF		Elex	1992	Von Roll	125
Iserlohn	1	ESP.WET.O(CAT).FF				Lurgi	150
	2	ESP.WET.O(CAT).FF				Lurgi	150
	3	ESP.WET.O(CAT).FF				Lurgi	150
Kamp-Lintfort	1	2XESP, 2XWET, SCR, ACR	1997	DBA	1997	LCS	100
	2	2XESP, 2XWET, SCR, ACR	1997	DBA	1997	LCS	100
Kassel	1						
Kassel	1	SD, ESP, FF, O				KRC, LCS	
	2	SD, ESP, FF, O				KRC, LCS	
	3	SD, ESP, FF, O				KRC, LCS	
	4	SD, ESP, FF, O				KRC, LCS	
Kempten	1	ESP.WET.SCR.FF	1996	Noell KRC	1996	Noell KRC	135
Kiel	1	ESP,WET,SCR,FF				NOELL	40
	2	ESP,WET,SCR,FF				NOELL	40

Germany

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Krefeld	1	1975		12	8,5	M	VKW	S	DBA	375/21	4997
	2	1975		12	8,5	M	VKW	S	DBA	375/21	4342
	3	1982		12	8,5	M	DBA	S	DBA	375/21	7150
	4	1997		18,43	~ 9.5	M	Steinmüller DBA	S	Steinmüller	420/42	8001
Köln	1	1997		18	11,3	M	DBA	S	DBA	400/40	
	2	1997		18	11,3	M	DBA	S	DBA	400/40	
	3	1997		18	11,3	M	DBA	S	DBA	400/40	
	4	1997		18	11,3	M	DBA	S	DBA	400/40	
Landshut	1	1971	2006	3	8,5	M	Von Roll	S	Wamser	380/21	
	2	1974	2006	3	8,5	M	Von Roll	S	Wamser	380/21	
	3	1984	2006	6	8,5	M	Von Roll	S	Wamser	380/21	
Lauta	1	2004	-	15	9,5	-	-	S	ALSTOM Power Boiler Conversion GmbH	400/40	5320
	2	2004	-	15	9,5	-		S	ALSTOM Power Boiler Conversion GmbH	400/40	4950
Leuna	1									400/40	
Leverkusen	1	1970		10	8,79	M	Von Roll	S	MAN	300/17	7608
	2	1970		10	8,79	M	Von Roll	S	MAN	300/17	7500
	3	1986		12	10,5	M	DBA	S	Lentjes	300/17	7135
Ludwigshafen	1	1996		9	12	M	System Düsseldorf Walzenrost	S	ML	420/42	
	2	1989		12	8	M		S	VKW	420/42	
	3	1989		12	8	M		S	VKW	420/42	
Magdeburg	1									400/40	
Mainz	1										
Mannheim	1										
	2	1965		12	9,2	F	EVT	S	EVT	500/120	
	3	1965		12	9,2	F	EVT	S	EVT	500/120	
	4	1997		25	9,6	F	EVT	S	EVT	500/120	
	5	2003		25	9,6	F	Seghers/Rafako	S	Seghers	265/27	
Neunkirchen	1	1969		5	8	m	Martin.Mchn	S		400/40	
	2	1977		10	8	M	Martin.Mchn	S		400/40	
	3	1999		8,5	8	M	Martin.Mchn	S		400/40	
Neustadt	1	1984		8	10	M	Von Roll	S	Baumgarte	420/42	8070
Nürnberg	1	1968		12,5	8,5	M	Von Roll	S	EVT	400/40	
	2	1968		12,5	8,5	M	Von Roll	S	EVT	400/40	
	3	1968		12,5	8,5	M	Von Roll	S	EVT	400/40	
	4	1979		20	8,5	M	Martin	S	EVT	400/40	
Oberhausen	1	1997		24,5	6,3	M	Babcock	S	Babcock	480/60	
	2	1997		24,5	6,3	M	Babcock	S	Babcock	480/60	
	3	1972		22	7	M	Babcock	S	Babcock	480/60	
	4	1985		22	7	M	Babcock	S	Babcock	480/60	
Offenbach	1	1997		10	9,2	M	Lentjes-Kablitz	S	Baumgarte	405/40	
	2	1996		10	9,2	M	Lentjes-Kablitz	S	Baumgarte	405/40	
	3	1996		10	9,2	M	Lentjes-Kablitz	S	Baumgarte	405/40	

Germany

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Krefeld	1	FF.WET. SCR			1995	DBA	118
	2	FF.WET. SCR			1995	DBA	118
	3	FF.WET. SCR			1995	DBA	118
	4	FF.WET. SCR					
Köln	1	FF.WET.O(CAT)				DBA/LCS/ABB	100
	2	FF.WET.O(CAT)				DBA/LCS/ABB	100
	3	FF.WET.O(CAT)				DBA/LCS/ABB	100
	4	FF.WET. CAT.				DBA/LCS/ABB	100
Landshut	1	ESP.WET				Von Roll	90
	2	ESP.WET				Von Roll	90
	3	ESP.WET				Von Roll	90
Lauta	1	SD + SCR	-	-	2004	Austrian Energy	175
	2	SD + SCR	-	-	2004	Austrian Energy	175
Leuna	1						
Leverkusen	1	ESP/WET.FF/O(CAT)				Rothemühle/LCS	130
	2	ESP/WET.FF/O(CAT)				Rothemühle/LCS	130
	3	ESP/WET.FF/O(CAT)				Rothemühle/LCS	130
Ludwigshafen	1	NO INFO					
	2	NO INFO					
	3	NO INFO					
Magdeburg	1						
Mainz	1						
Mannheim	1						
	2	ESP.WET.SCR.				DBA.EVT	135
	3	ESP.WET.SCR.				DBA.EVT	135
	4	FF.WET.SCR.				Noell	135
	5	ESP.WET.SCR.				DBA.EVT	135
Neunkirchen	1	ESP.WET.SCR				Wamser	120
	2	ESP.WET.SCR				Martin	120
	3	ESP.WET.SCR				Martin	120
Neustadt	1	SD.WET. FF.O(CAT)				Von Roll	115
Nürnberg	1	ESP.SD. FF				Lurgi	120
	2	ESP.SD. FF				Lurgi	120
	3	ESP.SD. FF				Lurgi	120
	4	SD/FF				Lurgi	120
Oberhausen	1	WET.SCR.FF				Babcock	115
	2	WET.SCR.FF				Babcock	115
	3	WET.SCR.FF				Babcock	115
	4	WET.SCR.FF				Babcock	115
Offenbach	1	WET.ESP.O(CAT)				Babcock. Lurgi	150
	2	WET.ESP.O(CAT)				Babcock. Lurgi	150
	3	WET.ESP.O(CAT)				Babcock. Lurgi	150

Germany

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Olching	1	1975		6	11,5	M	Keller & Peukert	S	Baumgarte	400/40	
	2	1985		6	11,5	M	Von Roll	S	Baumgarte	400/40	
	3	1985		6	11,5	M	Von Roll	S	Baumgarte	400/40	
Pirmasens	1	1999			7,5	M	Von Roll	R	Baumgarte	400/40	
Rosenheim	1	1988		10	10	M	W+E	S	Wehrle	410/61	7918
Schwandorf	1	1982		18,7	7,9	M	W+E	S	Steinmüller	410/72	
	2	1982		18,7	7,9	M	W+E	S	Steinmüller	410/72	
	3	1982		18,7	7,9	M	W+E	S	Steinmüller	410/72	
	4	1994		23,2	10,5	M	W+E	S	Eisenw Baumgarte	410/72	
Schweinfurt	1	1994		8	8,5	M	KK NOELL	S	NOELL	450/65	
	2	1994		8	8,5	M	KK NOELL	S	NOELL	450/65	
	3	1994		8	8,5	M	KK NOELL	S	NOELL	450/65	
Solingen	1	1969		7,6	10,5	M	Von Roll	S	Von Roll	440/42	
	2	1992		12	10,5	M	EVT	S	EVT	440/42	
Stapelfeld	1	1979		22,5	9	R	Steinmüller	S	Steinmüller	370/26	
	2	1979		22,5	9	R	Steinmüller	S	Steinmüller	370/26	
Stassfurt	1									400/40	
Stuttgart	1	1980		3	11	FB	Raschka	S	Raschka	180/10	
Stuttgart	1	1965		20	9,3	M	Martin	S	EVT	520/60	
Stuttgart	2	1992		4	11	FB	Raschka	S	Raschka	180/10	
Stuttgart	2	1971		20	9,3	M	VKW	S	EVT	520/60	
	3	1994		20	9,3	M	DBA	S	EVT/DBA	520/60	
Tornesch	1	1987		5,5	9	M	Noell	S	Baumgarte	400/40	7962
	2	1987		5,5	9	M	Noell	S	Baumgarte	400/40	8252
Ulm	1	1997		8,6	9,2	M	Von Roll	S	Baumgarte	360/40	7858
	2	1997		8,6	9,2	M	Von Roll	S	Baumgarte	360/40	7864
Unterföhring	1	1964		20	8,4	M	Martin	S	EKW	400/40	
	2	1964		20	8,4	M	Martin	S	EKW	400/40	
	3	1992		35	8,4	M	Martin	S	EKW	400/40	
	4	1992		35	8,4	M	Martin	S	EKW	400/40	
Völklingen	1	1997		15	10	M	Von Roll	S	EWB	400/40	7555
	2	1997		15	10	M	Von Roll	S	EWB	400/40	7701
Weißenfels	1	2005	-	19,6	10	fixed		steam	Von Roll Inova/Ziomar Podolsk	400/40	
	2	2005	-	19,6	10	fixed		steam	Von Roll Inova/Ziomar Podolsk	400/40	
Weißenhorn	1	1991		6,5	6,3	M	Alstom	S	DBA	400/40	
	2	1991		6,5	6,3	M	Alstom	S	DBA	400/40	
Wuppertal	1	1998		15	10,5	R	Lentjes	S	Lentjes	340/28	
	3	1975		10	10,5	R	VKW	S	VKW	340/28	
	4	1997		15	10,5	R	Lentjes	S	Lentjes	340/28	
	5	1990		15	10,5	R	Lentjes	S	Lentjes	340/40	
	6	1995		15	10,5	R	Lentjes	S	Lentjes	340/40	
Würzburg	1	1984		12,5	8,5	M	Stiefel	S	EVT	415/42	
	2	1984		12,5	8,5	M	Martin	S	EVT	415/42	
	3	1998		15,5	8,5	M	Noell	S	Baumgarte	415/42	

Germany

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Olching	1	SD.FF. O(CAT)				Fläkt	
	2	SD.FF. O(CAT)				Fläkt	
	3	SD.FF. O(CAT)				Fläkt	
Pirmasens	1	ESP.WET.FF				Von Roll	130
Rosenheim	1	SD.FF. SNCR				Lurgi	150
Schwandorf	1	SD.FF.SCR				ABB.Fläkt.LUT	150
	2	SD.FF.SCR				ABB.Fläkt.LUT	150
	3	SD.FF.SCR				ABB.Fläkt.LUT	150
	4	SD.FF.SCR				ABB.Fläkt.LUT	150
Schweinfurt	1	FF.WET.O				KRC NOELL	80
	2	FF.WET.O				KRC NOELL	80
	3	FF.WET.O				KRC NOELL	80
Solingen	1	SD.ESP.				Niro Atomicer / EVT	140
	2	FF/CAT				Niro Atomicer / EVT	140
Stapelfeld	1	ESP.WET.SCR				Rothemühle	
	2	ESP.WET.SCR				LCS	
Stassfurt	1						
Stuttgart	1	ESP.SD				Lentjes GEA Wiegand	70
Stuttgart	1	SD.SCR. WET				Von Roll	150
Stuttgart	2	ESP.SD				Lentjes GEA Wiegand	70
Stuttgart	2	SD.SCR. WET				Von Roll	150
	3	SD.SCR. WET				KRC NOELL	150
Tornesch	1	ESP.WET.FF.SNCR				LLUT Noell	100
	2	ESP.WET.FF.SNCR				LLUT Noell	100
Ulm	1	ESP.WET.FF				Von Roll Rothemühle	120
	2	ESP.WET.FF				Von Roll Rothemühle	120
Unterföhring	1	SD,ESP,WET,FF,O(CAT)				Babcock	
	2	SD,ESP,WET,FF,O(CAT)				Babcock	
	3	SD,ESP,WET,FF,O(CAT)				Babcock	
	4	SD,ESP,WET,FF,O(CAT)				Babcock	
Völklingen	1	ESP.WET.O.CAT.FF				VR / LET	120
	2	ESP.WET.O.CAT.FF				VR / LET	120
Weißenfels	1	SD	-	-	2005	Von Roll Inova	max. 150°C
	2	SD	-	-	2005	Von Roll Inova	max. 150°C
Weißenhorn	1	SD.WET. FF. O.CAT. AC				Fläkt	130
	2	SD.WET. FF. O.CAT. AC				Fläkt	130
Wuppertal	1	WET / SD / ESP /SCR				Lurgi / Lentjes / BSH	150
	3	WET / SD / ESP /SCR				Lurgi / Lentjes / BSH	150
	4	WET / SD / ESP /SCR				Lurgi / Lentjes / BSH	150
	5	WET / SD / ESP /SCR				Lurgi / Lentjes / BSH	150
	6	WET / SD / ESP /SCR				Lurgi / Lentjes / BSH	150
Würzburg	1	FF.DRY.SCR				Noell	140
	2	FF.DRY.SCR				Noell	140
	3	FF.DRY.O. CAT				Noell	140

Germany
Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Augsburg	201879							
Bamberg	114000							
Berlin-Ruhleben	520000							
Bielefeld	325000							
BKB Hannover	230000							
Bonn	240000							
Bremen	310300							
Bremerhaven	300000							
Burgau								
Burgkirchen	212372	117000	95000					G:198000
Böblingen	139775							O:524,5
Coburg	117886							
Darmstadt	177516							
Düsseldorf	413000	323922	89043					O:1179911
Eschbach	150000							
Eschweiler	368007							
Essen	668773							
Frankfurt	211000							
Greppin	16600				12456			G:546100
Göppingen	120000							
Hagen	119500							
Hamburg	323400							
Hamburg	325590							
Hamburg	150000							
Hameln	159366							
Hamm	255370							
Helmstedt	298000							
Herten	262023							
Ingolstadt	211000	106665	57970				6183	G:170090 B:40146
Iserlohn	230000							
Kamp-Lintfort	221145				4700			O:2100000
Kassel	150000							
Kassel								
Kempten	76661	36645	27922			514	11580	O:101000 G:476000
Kiel	133000							
Krefeld	346231	281124	24542		16873	1263	22429	O:1888000 G:7787083
Köln	671698							
Landshut								
Lauta	225000							O:168
Leuna	195000							
Leverkusen	210000							
Ludwigshafen	150300							
Magdeburg	300000							
Mainz	200000							
Mannheim	317102	236115	80987					O:268527 G:9570321
Neunkirchen	121000							

Germany

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Augsburg	48242		681100					
Bamberg	27000		400000				9500	72600
Berlin-Ruhleben			1000000					
Bielefeld	82000		1229316				118402	299647
BKB Hannover	60000		468000				159000	45000
Bonn	62902		742548					
Bremen	74700		1150000				1457	190669
Bremerhaven	95000		980000				66000	230000
Burgau								
Burgkirchen	46129	6600	729498	105000		93473	73917	
Böblingen	27912	3145	473000	53375			34956	120801
Coburg	28218		336866				33259	85051
Darmstadt	47283		600000				34024	62880
Düsseldorf	94000	24120	1058000			1019836		
Eschbach								
Eschweiler	99269		1164538					
Essen	163976		2009000				176939	481373
Frankfurt	51000		500000					
Greppin	8000		45000			25000		
Göppingen	30000						40000	70000
Hagen	40000	3767	340000					70000
Hamburg	84,084	12,202			769520			664072
Hamburg	72000		970000				48600	444270
Hamburg	41000		471000				40500	64000
Hameln	37000		522314				13590	285000
Hamm	66300		642000				82000	
Helmstedt	80000		930000				150000	
Herten	64861		1028868				80539	9882
Ingolstadt	54000	4711	690000	105795			78000	128000
Iserlohn	65357		457000				62586	151028
Kamp-Lintfort	59613		767887	111000	111000		81100	116391
Kassel	36755		514912				72552	154396
Kassel								
Kempten	19147		302253	50871	41078		36345	41078
Kiel	33464						19972	212694
Krefeld	96954	10332	993043	131983	305741		75281	179431
Köln	146147		2199289				316705	277279
Landshut								
Lauta	56000	10038	675000	58000	0	0	120000	0
Leuna	54600		660000				120000	
Leverkusen	56	2,3	620000	44			9,5	150
Ludwigshafen	45000		470000					
Magdeburg							170000	300000
Mainz	62000		720000					
Mannheim	82690	7336	1250000	59146	884844	717958	65000	680000
Neunkirchen	31893		384537				43779	41607

Germany
Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Neustadt	59449	37544	16169			668	5068	G:727000
Nürnberg	216000							
Oberhausen	496000							
Offenbach	190000							
Olching	92961							
Pirmasens	170000							
Rosenheim	58568							O:373710
Schwandorf	388900							
Schweinfurt	155000							
Solingen	94500							
Stapelfeld	350000							
Stassfurt	300000							
Stuttgart	195000							
Stuttgart	27320							
Tornesch	76000	46200	22500				7300	G:590000
Ulm	111625	68412	44679					
Unterföhring	644142							
Völklingen	210488	188132	19134		452	2270		O:227782 G:3060133
Weißenfels	300000							
Weißenhorn	91419							
Wuppertal	389900							
Würzburg	155000							

Germany

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Neustadt	15083	1204	194000	26000	29600		17600	29200
Nürnberg	46000		740000					490000
Oberhausen	130000		1400000				178000	150000
Offenbach	49463		500000				44465	138817
Olching	23974		314502				33234	9479
Pirmasens	47400		554000				71600	13300
Rosenheim	12600	5929	195000				28000	116000
Schwandorf	79946		1334350				142287	38997
Schweinfurt	41540		460000				42700	231960
Solingen	21010						41650	30061
Stapelfeld	100000		980000				82000	150000
Stassfurt	90000		930000				71836	156800
Stuttgart	39452		566500				86500	243700
Stuttgart	6785							
Tornesch	18050	2240	205000	28200	49800		10500	48500
Ulm	25665	3075	383792	51489			32455	98899
Unterföhring	153307						108481	838144
Völklingen	56540	8428	646790	119470			91629	
Weißenfels	80000		987000				160000	3100
Weißenhorn	18456						40000	
Wuppertal	106000		1308000				135700	30100
Würzburg	38500		474000				62800	32850

Number of plants:	22
Average capacity:	18 t/h
Quantity treated 2004:	873.000 t

Great Britain
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Bexley, London	Bexley www.coryenvironmental.co.uk		+44 (0) 20 7417 5200 +44 (0) 20 7417 5222
Billingham	Teeside EfW Plant	Haverton Hill Road, Billingham, Teesside TS23 1PY	+44 (0) 164 220 2300 +44 (0) 164 220 2301
Birmingham	Tyseley Waste Disposal Ltd www.onyxgroup.co.uk	James Road, Tyseley B11 2AB	+44 (0) 20 7812 5000
Bolton	Bolton Thermal Recovery Facility www.gmwaste.co.uk.		+44 (0) 1204 654611 +44 (0) 1204 653350
Chineham	Chineham www.onyxgroup.co.uk	Integra North ERF, Whitmarsh Lane, Chineham, Basingstoke RG24 8LL	+44 (0) 20 7812 5000
Colnbrook	Lakeside Energy from Waste Ltd.	Lakeside Rd, Colnbrook Berkshire	+44 870 44 38 278
Coventry	Coventry & Solihull www.cswdc.co.uk	Bar Road CV3 4AN COVENTRY	+44 (0) 2476 507 400 +44 (0) 2476 506 154
Douglas (Isle of Man)	Douglas (Isle of Man) www.sita.co.im	Richmond Hill, Douglas, Isle of Man IM4 1JH	+44 (0) 1624 695260 +44 (0) 1624 660252
Dudley	DUDLEY www.mes-e.co.uk	Lister Road DY2 8JT DUDLEY - West Midlands	+44 (0)1384 457 321 +44 (0)1384 457 124
Dundee	Dundee		+44 (0) 1382 483600
Grimsby	Grimsby		+44 (0) 1472 500270
Huddersfield	Kirklees www.sita.co.uk		+44 (0) 1484 541355 +44 (0) 1484 425 395
London	SELCHP www.selchp.com	Landmann Way, Off Surrey Canal Road, Deptford SE14 5RS	+44 (0) 207 394 4770 +44 (0) 207 252 2986
London	Edmonton www.londonwaste.co.uk	Angel Road, Edmonton N18 3AG	+44 (0) 208 803 1322 +44 (0) 208 884 5512
Maidstone	Kent www.kentenviropower.com.uk		+44 (0) 845 601 5432 +44 (0) 1732 834 071
Marchwood, Southampton	Marchwood ERF www.onyxgroup.co.uk	Integra South West ERF, Oceanic Way, Marchwood Industrial Park, Normandy Wa SO40 4BD Marchwood, Southampton	+44 (0) 20 7812 5000
Nottingham	Eastcroft Energy from Waste Facility www.wrg.co.uk	Incinerator Road, Off Meadow Lane NG2 3AF	00441604 826200
Portsmouth	Portsmouth ERF www.onyxgroup.co.uk	Integra South East ERF, Quartremaine Road PO3 5QH Portsmouth	+44 (0) 20 7812 5000
Sheffield	Onyx Sheffield ERF www.onyxsheffield.co.uk	Bernard Road S4 7YX Sheffield	+44 (0) 114 228 3660
Shetland Islands	Lerwick Energy Recovery Plant www.shetland.gov.uk	Greenhead ZE1 0NT Lerwick	+44 (0) 1595 600448 +44 (0) 1595 690025

Great Britain
General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Bexley, London		Riverside Resource Recovery, Cory Environmental	2 Coldbath Square EC1R 5HL London
Billingham	Graham Ingleson graham.ingleson@sita.co.uk	SITA UK	
Birmingham	Stuart Sim ssim@onyxgroup.co.uk	Onyx UK Ltd	Onyx House, 154A Pentonville Road N1 9PE London
Bolton		Greater Manchester Waste Ltd	PO Box 151, Higher Swan Lane BL3 3WW Bolton
Chineham		Onyx (UK) Ltd.	Onyx House, 154A Pentonville Road N1 9PE London
Colnbrook		Grundon Waste Management	
Coventry	Mr Mash Mistry mash@cswdc.co.uk	Coventry & Solihull Waste Disposal Co Ltd	Bar Road, Whitley, Coventry, Warwickshire CV3 4AN
Douglas (Isle of Man)		SITA Isle of Man	Richmond Hill, Douglas, Isle of Man IM4 1JH
Dudley	Roger Sowden (Plant Manager) maria@mesenvironmental.co.uk	DUDLEY WASTE SERVICES	Crown Street WV1 1QB WOLVERHAMPTON - West Midlands
Dundee		Dundee Energy Recycling Ltd	Forties Rd DD4 0NS Dundee
Grimsby		Newlincs Development Ltd	Fishermans Wharf/Alexandra Dock, Grimsby DN311UL South Humberside
Huddersfield	sita-in-uk@sita.co.uk	SITA UK	Diamond Street , Kirklees, Huddersfield HD1 6BZ
London	Steve Tower stower@onyxgroup.co.uk	SELCHP Ltd	Landmann Way, Off Surrey Canal Road SE14 5RS
London	Wendy Lord wendy.lord@londonwaste.co.uk	London Waste Ltd	Advent Way, Edmonton N18 3AG
Maidstone		Kent Enviropower Ltd.	White Ladies Office, Teston Road, Offham ME19 5PF Kent
Marchwood, Southampton		Onyx UK Ltd	Onyx House, 154A Pentonville Road N1 9PE London
Nottingham	Keith Whittle keith.whittle@wrg.co.uk	WRG	
Portsmouth		Onyx UK Ltd	Onyx House, 154A Pentonville Road N1 9PE London
Sheffield		Onyx Sheffield Ltd	Lumley Street, Sheffield S4 7ZJ
Shetland Islands	W. Spence william.spence@sic.shetland.gov.uk	Shetland Islands Coucnil 40000	Town Hall Lerwick ZE1 0NT

Great Britain
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Stoke on Trent	Stoke on Trent www.mes-e.co.uk	Campbell Road, Sideway ST4 4DX Stoke-on-Trent	+44 (0) 1782 412 131 +44 (0) 1782 747 897
Wolverhampton	Wolverhampton www.mes-e.co.uk	Crown Street WV1 1QB WOLVERHAMPTON - West Midlands	+44 01902 458 888 +44 01902 458 999

Great Britain
General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Stoke on Trent	John Hulme (Plant Manager) maria@mesenvironmental.co.uk	HANDFORD WASTE SERVICES	Campbell Road, Sideway ST4 4DX Stoke-on-Trent
Wolverhampton	Roger Sowden (Plant Manager) maria@mesenvironmental.co.uk	WOLVERHAMPTON WASTE SERVICES	Crown Street, Wolverhampton, West Midlands WV1 1QB

Great Britain
Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace Type	Furnace Supplier	Boiler Type	Boiler Supplier	Steam Data oC/bar	Hours of Operat.2004
Bexley, London	1										
Billingham	1	maj-98	2020	14	10	Fixed	Ansaldo Volund	Steam	Ansaldo Volund	400°c	7642
	2	maj-98	2020	14	10	Fixed	Ansaldo Volund	Steam	Ansaldo Volund	400°c	7466
Birmingham	1										
Bolton	1										
Chineham	1	2003		12					CNIM		
Colnbrook	1										
Coventry	1	1975		12					martin grate / babcock boiler	208 / 17.5	
	2	1975		12					martin grate / babcock boiler	208 / 17.5	
	3	1975		12					martin grate / babcock boiler	208 / 17.5	
Douglas (Isle of Man)	1	2004	2029	8,25	10700	Moving Gra	Babcock	S	Babcock	400/40	
	2	2005	2029	1	8,5	Steppe d He	Techtrol	S	Techtrol	400/7	
Dudley	1										
Dundee	1	2000	2025	8	10	FB	Kvaerner	S	Kvaerner	400C/ 40ba	
	2	2000	2025	8	10	FB	Kvaerner	S 40bar 40	Kvaerner	400C/40bar	
Grimsby	1										
Huddersfield	1	apr-02		17	9	Movea ble	Lurgi	Steam	Lurgi	400/41	8116
London	1	1970		15	9,5	R	VKW	S	Yarrow	415/43	7796
London	1	1994		29	8,5	M	Martin	S	CNIM	395/46	
London	2	1970		15	9,5	R	VKW	S	Yarrow	415/43	7453
London	2	1994		29	8,5	M	Martin	S	CNIM	395/46	
London	3	1970		15	9,5	R	VKW	S	Yarrow	415/43	6734
	4	1970		15	9,5	R	VKW	S	Yarrow	415/43	5031
	5	1970		15	9,5	R	VKW	S	Yarrow	415/43	7317
Maidstone	1										
Marchwood, Southampton	1	2004		22					CNIM		
Nottingham	1	1973		10	9,5	F		S	Head	/	
	2	1973		10	9,5				Head	/	
Portsmouth	1	2005		22					CNIM		
Sheffield	1	2006		29					CNIM		
Shetland Islands	1	2000	2025	3,3	9,5	M	FLS Miljo	WW	Danfos		7765
Stoke on Trent	1	1997		12	9,2	Grille typ	MARTIN Gmbh	vertica le	CNIM SA France	395° C, 45	
	2	1997		12	9,2	Grille typ	MARTIN Gmbh	vertica le	CNIM SA France	same	
Wolverhampton	1	1998		7	9,2	Grille typ	MARTIN Gmbh	vertica le	CNIM SA France	355°C, 45	
	2	1998		7	9,2	Grille typ	MARTIN Gmbh	vertica le	CNIM SA France	same	

Great Britain
Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Bexley, London	1						
Billingham	1	SD, FF	-	None	01-maj	F.L.S. Miljo	130°c
	2	SD, FF	-	None	01-maj	F.L.S. Miljo	130°c
Birmingham	1						
Bolton	1						
Chineham	1						
Colnbrook	1						
Coventry	1	DRY Scrubbing with fabric filter			1996	SAS Procedair	140
	2	dry scrubbing with fabric filter			1996	SAS Procedair	140
	3	dry scrubbing with fabric filter			1996	SAS Procedair	140
Douglas (Isle of Man)	1	SD				Seghers	
	2	SD				Seghers	
Dudley	1						
Dundee	1	DRY	2000	N/A	2000	Procedair	145C
	2	DRY	2000	N/A	2000	Procedair	145C
Grimsby	1						
Huddersfield	1	Semi Dry; SNCR deNox, Urea injection, bagfilters		N/A	2002	BHS Cincenatti, Lurgi and Others	140
London	1	ESP/SD/FF	1970	peabody sturgevant	1994	Procedair	140
London	1	SD				CNIM	150
London	2	ESP/SD/FF	1970	peabody sturgevant	1994	Procedair	140
London	2	SD				CNIM	150
London	3	ESP/SD/FF	1970	peabody sturgevant	1994	Procedair	140
	4	ESP/SD/FF	1970	peabody sturgevant	1994	Procedair	140
	5	ESP/SD/FF				Procedaire	140
Maidstone	1						
Marchwood, Southampton	1						
Nottingham	1	DRY + FF				ABB	130
	2	DRY + FF				ABB	130
Portsmouth	1						
Sheffield	1						
Shetland Islands	1	wet	2000	Hammond Research Cottrell	2000	Hammond research cottrell	100
Stoke on Trent	1	semi dry flue gas cleaning process			1997	CNIM SA France	135° C
	2	same			1997	CNIM SA france	135° C
Wolverhampton	1	semi dry flue gas cleaning process			1998	CNIM SA France	140° C
	2	semi dry flue gas cleaning process			1998	CNIM SA France	140° C

Great Britain
Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Bexley, London								
Billingham	230361	-	-	-	-	-	-	O:256568
Birmingham								
Bolton								
Chineham								
Colnbrook								
Coventry								
Douglas (Isle of Man)								
Dudley								
Dundee								
Grimsby								
Huddersfield	135814	-	-	-	-	-	-	O:410173
London								
London	485111			0	0			O:173400 G:13619
Maidstone								
Marchwood, Southampton								
Nottingham								
Portsmouth								
Sheffield								
Shetland Islands	21511	17702	3793			16		O:23000
Stoke on Trent								
Wolverhampton								

Great Britain
Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Bexley, London								
Billingham	66642	7446	-	155579	-	-	142360	-
Birmingham								
Bolton								
Chineham								
Colnbrook								
Coventry								
Douglas (Isle of Man)								
Dudley								
Dundee								
Grimsby								
Huddersfield	31637	5397	-	85824	-	-	74823	-
London								
London	118767	17201	1311928	262442	N/A	N/A	222442	N/A
Maidstone								
Marchwood, Southampton								
Nottingham								
Portsmouth								
Sheffield								
Shetland Islands	4936	403			51459			51459
Stoke on Trent								
Wolverhampton								

Number of plants: 1

Average capacity: 60 t/h

Quantity treated 2004: 160.000 t

Hungary

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Budapest	Budapest	Mélyfúró u. 10-12. 1151 Budapest	+36 1 3271128 +36 1 3271310

Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace		Boiler		Steam Data oC/bar	Hours of Operat.2004
						Type	Supplier	Type	Supplier		
Budapest	1	1981		15	8	M	Lurgi Lentjes	S	Lurgi Lentjes/Baumgarte BS	405/40	3923
	2	1981		15	8	M	Lurgi Lentjes	S	Lurgi Lentjes/Baumgarte BS	405/40	3673
	3	1981		15	8	M	Lurgi Lentjes	S	Lurgi Lentjes/Baumgarte BS	405/40	2014
	4	1981		15	8	M	Lurgi Lentjes	S	Lurgi Lentjes/Baumgarte BS	405/40	1955

Operational data, 2004

Location	**Total Incinerated Waste Quantity**							**Aux. Fuels**
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Budapest	160.054							G:1952869

Hungary

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Budapest	Mrs Dorottya Nick	Municipality of Budapest 1,200,000	Városház u. 9-11 1056 Budapest

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp.,°C
Budapest	1	SD, SNCR	2004		2004	Lurgi Lentjes	140
	2	SD, SNCR	2004		2004	Lurgi Lentjes	140
	3	SD, SNCR	2005		2005	Lurgi Lentjes	140
	4	SD, SNCR	2005		2005	Lurgi Lentjes	140

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Budapest	38.125	4.177	391.539	54.068	301.048		40.291	47.684

Number of plants: 51

Average capacity: 14 t/h

Quantity treated 2004: 4.454.000 t

Italy

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Arezzo	Arezzo www.aisaspa.com	vicinale dei Mori località San Zeno 52040	+39 0575998612 +39 0575998612
Bergamo	Bergamo www.bas.bg.it	via Goltara, 23 24100	+39 035351773 +39 035351755
Bolzano	Bolzano www.eco-center.it	via Lungo Isaco 57 39100	+39 0471915550 +39 0471932660
Brescia	Brescia www.asm.brescia.it	via Malta 25/R 25124	 +39 0303553 212
Busto Arsizio (VA)	Busto Arsizio www.accam.it	Strada Comunale di Arconate, 121 21052	+39 0331341979 +39 0331343520
Castelnuovo Garfagnana (LU)	Castelnuovo Garfagnana www.severa.it	Loc. Belvedere 55032	+39 0583-6442-80 +39 0583-6443-10
Colleferro (Roma)	Colleferro 1 www.consorziogaia.it	Via Vittorio Emanuele snc 00034 Colleferro (RM)	+39 06 972041 +39 06 97710007
Colleferro (Roma)	Colleferro 2 www.consorziogaia.it	Via Vittorio Emanuele snc 00034 Colleferro (Roma)	+39 06 972041 +39 06 97710007
Como	Como www.acsm.it	Località La Guzza 22100	+39 031529169 +39 031521861
Coriano (RN)	Coriano	via Ralbano 32 47040	+39 0541-361305 +39 0541-657-710
Corteolona (PV)	Corteolona	Loc. Manzola Fornace 27014 Corteolona (PV)	+39 0382-727611 +39 0382-727636
Cremona	Cremona www.aemcremona.it	via Antichi Budri 26100	+39 0372418206 +39 0372412720
Dalmine BG)	Dalmine www.readalmine.it	Via Dossi 24044 Dalmine (BG)	+39 035 4157411 +39 035 4157432
Desio (MI)	Desio www.beabrianza.it	via Gaetana Agnesi n. 272 20033	+39 0362620643 +39 0362627039
Ferrara	Ferrara Conchetta www.gruppohera.it	Via Conchetta, 100 44100 Malborghetto (FE)	+39 0532-780272 +39 0532-780276
Ferrara	Ferrara Casal Bianco www.gruppohera.it	Via C. Diana ,44 ZONA P.m.i. 44100 Cassana (Ferrara)	+39 0532-780272 +39 0532-780276
Forli	Forli www.gruppohera.it	via Grigioni 19 47100	+39 0543 790832 +39 0543 790811
Gioia Tauro (Reggio Calabria)	Gioia Tauro www.termomeccanica.it	Contrada Cicerna 89013 Gioia Tauro (Reggio Calabria)	+39 0966 506092 +39 0966 506548
Granarolo Emilia (BO)	Granarolo Emilia www.feafrullo.it	via Frullo 5 40057	+39 051287946 +39 051287932
Livorno	Livorno	Via dell'artigianato 32 Livorno	
Macchiareddu (CA)	Macchiareddu www.casic.it	Strada Dorsale Consortile km 10500 09032 Macchiareddu (CA)	+39 070246341 +39 07024634301

Italy

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Arezzo	Ing. Marzio Lasagni AISA.SANZENO@VIRGILIO.IT	Aisa S.p.A.	via Trento e Trieste, 163 52100 Arezzo
Bergamo	Simone Malvezzi baspower@bas.bg.it	BAS Power S.r.l.	via Codussi, 46 24100 Bergamo
Bolzano	Ing. Alessandro De Carli inc.bolzano@eco-center.it	ECO-Center SpA 350000	via Lungo Isaco 57 39100 Bolzano
Brescia	Lorenzo Zaniboni lzaniboni@asm.brescia.it	Asm S.p.A. 1100000	via Lamarmora, 230 25124 Brescia
Busto Arsizio (VA)	Ing. Giosafatte Mondelli accam@accam.it	Accam S.p.A. 422099	Strada Comunale di Arconate, 121 21052 Busto Arsizio (VA)
Castelnuovo Garfagnana (LU)	Dott. Oscar Guidi guidi@severa.it	Se.Ver.A. SpA 43000	Località Belvedere, 1 55032 Castelnuovo di Garfagnana (LU)
Colleferro (Roma)	Dott. Paolo Meaglia paolo.meaglia@consorziogaia.it	Mobilservice Srl	Via Colledoro, 45-47 00034 Colleferro (Roma)
Colleferro (Roma)	Dott. Paolo Meaglia paolo.meaglia@consorziogaia.it	EP Sistemi SpA	Via Colledoro, 45-47 00034 Colleferro (Roma)
Como	Donatella Celsi donatella.celsi@acsm.it	ACSM S.p.A.	via Stazzi, 2 22100 Como
Coriano (RN)	Ing. Marcello Mini marcello.mini@gruppohera.it	HERA SpA 283239	via C. Barti Pichat, 2/4 Bologna
Corteolona (PV)	Dott. Giuseppe Puglisi b.puglisi@ecodeco.it	ECOENERGIA Srl	Loc. Manzola Fornace 27014 Corteolona (PV)
Cremona	Ing. Fiorenzo Bassi info@aemcremona.it	Aem S.p.A. 320000	viale Trento e Trieste, 38 26100 Cremona
Dalmine BG)	rea@readalmine.it	REA Rifiuti Energia Ambiente 670000	Via Dossi snc 24044 Dalmine (BG)
Desio (MI)	Lorena Fraccaroli segreteria.generale@beabrianza.it	BEA S.p.A. 280000	via Gaetana Agnesi n. 272 20033 Desio (MI)
Ferrara	Andrea Carletti andrea.carletti@hera.it	HERA SpA 131000	Viale C. Berti Pichat 2/4 40100 Bologna
Ferrara	Andrea Carletti andrea.carletti@gruppohera.it	HERA SpA 131000	Viale C. Berti Pichat 2/4 40100 Bologna
Forli	Lorenzo Missiroli lorenzo.missiroli@gruppohera.it	HERA SpA 160000	Via Berti Pichat, 2/4 Bologna
Gioia Tauro (Reggio Calabria)	ing. Stefano Danieli tec.danieli@virgilio.it	Ufficio del Commissario per l'emergenza rifiuti della Calabria 630000	Via delle Repubbliche Marinare 89063 Catanzaro Lido (Catanzaro)
Granarolo Emilia (BO)	Paolo Cecchin barbara.folchi@gruppohera.it	Frullo Energia Ambiente	Via Berti Pichat 4 40127 Bologna
Livorno	Ing. Fabio Belluchi belluchi@aamps.livorno.it	AAMPS SpA 160000	Via Bandi 15 57100 Livorno
Macchiareddu (CA)	Dott. Salvatore Montis casic@casic.it	Tecnocasic SpA	Viale Diaz 86 09125 Cagliari

Italy

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Macomer (NU)	Macomer www.tossilo.it	Loc. Tossilo 08015 Macomer	
Massafra (TA)	Massafra	Contrada Console 74016 Massafra (TA)	+39 0998804187 +39 0998804168
Melfi PZ)	Melfi www.fenicespa.com	Strada Vicinale Montelungo 85025 Melfi (PZ)	+39 0972 762543 +39 0972 78159
Mergozzo (VB)	Mergozzo www.conservco.it	LOC. PRATO MICHELACCIO- Mergozzo 28028 Mergozzo (VB)	+39 032380295 +39 032380838
Milano	Milano www.amsa.it	via Silla 249 20153	+39 0227298702 +39 0227298737
Modena	Modena www.meta.mo.it	via Cavazza 45 41100	+39 059 407358 +39 059 407369
Montale/Agliana (PT)	Montale/Agliana www.cis-spa.it	via W. Tobagi, 16 51037	+39 05734431 +39 0573443231
Ospedaletto (PI)	Ospedaletto www.geofor.it	Via di Granuccio 56014 Ospedaletto (PI)	+39 05097590 +39 050985375
Padova	Padova www.acegas-aps.it	V.Le Navigazione Interna 34 31030	+39 0497-7921313 +39 0498-7921300
Parona PV)	Parona	Str. Vicinale per Vigevano 27020 Parona	+39 0384 25431 +39 0384 2543245
Piacenza	Piacenza	Via Borgoforte, 22 29100 Piacenza	+39 0523 505012 +39 0523 505009
Pietrasanta /LU)	Falascaia www.termomeccanica.it	Via delle Colmate 55045 Pietrasanta (Lucca)	+39 0584283313 +39 0584284119
Poggibonsi (SI)	Poggibonsi www.sienambiente.it	Pian de Foci 53036 Poggibonsi (SI)	+39 0577 248073 +39 0577 248045
Potenza	Potenza	C.da San Luca Branca 85100 Potenza (PZ)	+39 097150029
Ravenna	Ravenna www.gruppohera.it	SS. 309 Romea 48100 Ravenna	+39 0544 541447 +39 0544 241324
Reggio Emilia	Reggio Emilia www.eniaspa.it	via Gonzaga 46 42100 Reggio Emilia	+39 0522 297252 +39 0522 381396
Rufina/Pontassieve (FI)	Rufina/Pontassieve	SS Tosco Romagnola km 103.700 50068 Rufina (FIRENZE)	
San Vittore del Lazio (FR)	San Vittore del Lazio	Località Valle Porchio 3040 San Vittore del Lazio (FR)	+39 0776-344758 +39 0776-34223
Scarlino	Cogeneratore di Scarlino	???? Scarlino	
Schio (VI)	Schio www.altovicentinoambiente.it	Via Lago di Pusiano,4 36015 Schio (VI)	+39 0445 575707 +39 0445 575813
Sesto S. Giovanni (MI).	Sesto San Giovanni www.coresesto.it	via Manin, 181 20099	+39 0224417026 +39 022485370
Statte (TA)	Statte www.termomeccanica.it	S.S. 7 Appia, km 642 74010 Statte (TA)	+39 099 4700170 +39 099 4717004
Terni	Terni	Via Ratini 6 05100 Terni	+39 0744 391306 +39 0744 391306
Tolentino/Pollenza (MC)	Tolentino/Pollenza www.cosmari.sinp.net	Loc. Piane di Chienti 62029 Tolentino (MC)	+39 0733 203504 +39 0733 204014

Italy

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Macomer (NU)	tosservice@tiscali.it	Consorzio Industriale di Macomer	08015 Macomer
Massafra (TA)	Antonio Albanese		Via Libertini 63 74016 Massafra (TA)
Melfi PZ)	Ing. Ruggero De Fazio ruggero.defazio@fenicespa.com	Fenice SpA 100000	Via Acqui, 86 10090 Cascine Vica Rivoli
Mergozzo (VB)	Ing. Daniele Pasquali daniele.pasquali@conservco.it	CONSERVCO 101529	Via Olanda 55 28922 - Verbania Pallanza (VB)
Milano	Corrado Vicardi amsa@amsa.it	Amsa S.p.A.	via Olgettina, 25 20132 Milano
Modena	Dott. Roberto Paparella rpaparella@meta.mo.it	Modena Muncipality 427000	Via Razzaboni, 80 41100 Modena
Montale/Agliana (PT)	Ing. Alfredo Perruccio info@cis-spa.it	CIS S.p.A. 50000	via W. Tobagi, 16 51037 Montale (PT)
Ospedaletto (PI)	Ing. Giuseppe Battiato giuseppe.battiato@geofor.it	Geofor SpA 150000	Via Scolmatore Gello
Padova	ing. Giuseppe Righetti	ACEGAS APS Padova	Via Maestri del Lavoro 8 34123 Trieste
Parona PV)	Dott. Emilio Lorena emilio.lorena@lomellinaenergia.it	Lomellina Energia	Via Caboto , 1 20094 Corsico (MI)
Piacenza	Dott. Claudio Mazzari tecnoborgo@tecnoborgo.com	Tecnoborgo SpA 250000	Via Borgoforte, 22 29100 Piacenza
Pietrasanta /LU)	Ing. Carlo Gasparini tev.falascaia@termomeccanica.it	Comune di Pietrasanta	Piazza Matteotti 55045 Pietrasanta (Lucca)
Poggibonsi (SI)	Dott Iacopo Vigevani i.vigevani@sienambiente.it	Siena Ambiente SpA	Località Salceto 55 53036 Poggibonsi (SI)
Potenza	Ing. Bruno	Comune di Potenza	Piazza Matteotti 85100 Potenza (PZ)
Ravenna	Ruggero Panizzolo ruggero.panizzolo@gruppohera.it	HERA SpA	Via Berti Pichat 2/4 40100 Bologna
Reggio Emilia	Ing. Luca Benassi luca.benassi@eniaspa.it	Enia SpA 400000	Strada S. Margherita, 6/A 43100 Parma
Rufina/Pontassieve (FI)	Ing. Santoni admni@aerweb.it	AER SpA 56058	
San Vittore del Lazio (FR)	Giordano Bruno eallsrl@virgilio.it	E.A.L.L.	5100 Terni
Scarlino			???? Scarlino
Schio (VI)	Dott. Roberto Zanotto zanotto@altovicentinoambiente.it	Alto Vicentino Ambiente s.r.l. 200000	Via Lago di Pusiano,4 36015 Schio (VI)
Sesto S. Giovanni (MI).	Eros Busato info@coresesto.it	Core S.p.A. 269000	via Manin, 181 20099 Sesto San Giovanni (MI)
Statte (TA)	Ing. Francesco Taveri tme.ta@termomeccanica.com	Comune di Taranto 250000	P.zza Castello, 1 74100 Taranto
Terni	Leonardo Carloni	ASM Terni SpA 150000	Via Ratini, 6 05100 Terni
Tolentino/Pollenza (MC)	Ing. Gianpaoli cosmari@cosmari.sinp.net	COSMARI	Loc. Piane di Chienti

Italy

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Trezzo sull	Trezzo sull www.termotrezzo.it	Via Pastore snc 20056 Trezzo sull	+39 02 92004303 +39 02 92994305
Trieste	Trieste www.acegas-aps.it	via Errera, 11 34147	+39 0407793 901 +39 0407793 910
Valmedrara (LC)	Valmadrera	via Leonardo Vassena 6 23852 Valmadrera	+39 0341 583314 +39 0341 583559
Venezia	Venezia/Fusina		
Vercelli	Vercelli www.atenapatrimonio.net	Via per Asigliano, 6 13100 Vercelli	+39 0161 214544 +39 0161 266156
Verona	Verona www.agsm.it	via Sasse 37132	+39 0458952211 +39 0458952255

Italy

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Trezzo sull	Ing. Augusto Feliciani feliciani.ambiente 2000@wtetrezzo.it	Prima Srl 750000	Via G.E. Falck, 63 20099 Sesto San Giovanni (MI)
Trieste	Ing. Stefano Gregorio info.ts@acegas-aps.it	Acegas - Aps S.p.A. 483581	via Maestri del Lavoro, 8 34123 Trieste
Valmedrara (LC)	 info@sileaspa.it	Silea SpA 310000	via Leonardo Vassena 6 23852 Valmadrera (LC)
Venezia			
Vercelli	Ing. Stefano Danieli tecnitalia@plion.it	A.T.En.A. Patrimonio spa 179836	Corso Palestro, 126 13100 Vercelli
Verona	Ing. Stefano Nicolò impiantorsu@agsm.it	Agsm S.p.A. 419443	lungadige Galtarossa 37133 Verona

Italy

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Arezzo	1	2000				M		S	Crugnola	380/40	8055
Bergamo	1	2003		9	15000	FB	CCT/EPI	HW	CCT	280/67	6269
Bolzano	1	1988	2010	5	10,45	M	Lurgi	S	Sices	42/304	
	2	1994	2010	7,5	10,45	M	Lurgi	S	Sices	42/304	
Brescia	1	1998		34,5	9,21	M	Martin	S	Ansaldo	460/70	7696
	2	1998		34,5	9,21	M	Martin	S	Ansaldo	460/70	7791
	3	2004		34,5	10,47	M	Martin	S	Ansaldo Caldaie	460/70	6609
Busto Arsizio (VA)	1	2000		10,5	9,2	M	W+E	S	CEI INSTEAM - COMEF	380/40	266
	2	2000		10,5	9,2	M	W+E	S	CEI INSTEAM - COMEF	380/40	262
Castelnuovo Garfagnana (LU)	1	1997		1,5	10,98	M	Alberti Fonsar	S	Sprinco	40/250	7415
Colleferro (Roma)	1	2003		12	16	O	ATI Lurgi Pianimpianti	HW	CCT Srl	/	6300
Colleferro (Roma)	1	2002		12	16	O	ATI Lurgi Pianimpianti	HW	CCT Srl	/	7200
Como	1	1967		5	8,372	M	DB	HW	Galleri	240/40	7713
	2	1997		6,25	8,372	M	DB	HW	Galleri	240/40	7034
Coriano (RN)	1	1994		5	10,46	M	Von Roll	S	Crugnola	45/259	7104
	2	1994		5	10,46	M	Von Roll	S	Crugnola	45/259	7752
	3	2001		8,33	10,46	M	Public Consult	S	Ruths	49/265	6816
Corteolona (PV)	1	2004		8,16	15	F		S		40/410	4500
Cremona	1	1997		6,25	10,99	M		S		385/40	6975
	2	2001		6,25	10,99	M		S		385/40	7141
Dalmine BG)	1	2001		8,33	10,88	M	NOYVALESINA ENG. SPA	S	Macchi	67/430	7894
	2	2001		8,33	10,88	M	NOYVALESINA ENG. SPA	S	Macchi	67/430	7934
Desio (MI)	1	2003		5		M	Forni ed Impianti Industriali De Bartolomeis Spa	S	Mariotti spa	221/24	6996
	2	2003		5		M	Forni ed Impianti Industriali De Bartolomeis Spa	S	Mariotti spa	221/24	7152
Ferrara	1	2002		3,9	10,46	M	De Bartolomeis	S		/	6864
Ferrara	1	1999		6,25	10,46	M	De Bartolomeis		De Bartolomeis	380/37	7176
Forli	1	2000	2007	4,2		M	EMIT	S	Public Consult	370/40	6837
	2	2000	2007	4,2		M	EMIT	S	Public Consult	370/40	6455
Gioia Tauro (Reggio Calabria)	1	2005		8,64	15	FB	Kvaerner	S	Kvaerner/CGT	41/405	
	2	2005		8,64	15	FB	Kvaerner	S	Kvaerner/CGT	41/405	

Italy

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Arezzo	1	SNCR - SD - FF				BOLDROCCHI-FUEL TECH - CMT	150
Bergamo	1	FF - DRY - FF - SCR				AREA IMPIANTI	130
Bolzano	1	FF - WET - SCR - FF - WET - SCR					150
	2	FF - WET - SCR - FF - WET - SCR					150
Brescia	1	SCR - DRY - FF				Abb	133
	2	SCR - DRY - FF				Abb	133
	3	SCR - DRY - FF				Alstom	133
Busto Arsizio (VA)	1	SCR - WET - FF - WET					110
	2	SCR - WET - FF - WET					110
Castelnuovo Garfagnana (LU)	1	DRY-FF				Boldrocchi	
Colleferro (Roma)	1	SD-FF-SCR	2003			Gioia Hamon	160
Colleferro (Roma)	1	SD-FF-SCR	2002		2002	Gioia Hamon	160
Como	1	ASTER				ESP - FF - SCR	85,9
	2	ASTER				ESP - FF - SCR	85,9
Coriano (RN)	1	SNCR-DRY-ESP-FF				De Bartolomeis	150
	2	SNCR-DRY-ESP-FF				De Bartolomeis	150
	3	SNCR-DRY-ESP-FF				De Bartolomeis	150
Corteolona (PV)	1	SCR-O-DRY-FF				REDECAM	
Cremona	1	SNCR - SD - O - FF - O					125
	2	SNCR - SD - O - FF - O					125
Dalmine BG)	1	ESP-DRY-FF-SCR	2001		2001	NOVYALLESINA ENG. SPA	167
	2	ESP-DRY-FF-SCR	2001		2001	NOVYALLESINA ENG. SPA	167
Desio (MI)	1	DRY - FF - ESP - SNCR				Secit Flakt	147
	2	DRY - FF - ESP - SNCR				Secit Flakt	147
Ferrara	1	ESP+DRY+FF		AREA		AREA	150
Ferrara	1	SNCR+SD+FF+WS				Termomeccanica	60
Forli	1	SNCR+ESP+WS+FF				Public Consult / Snam Progetti	120
	2	SNCR+ESP+WS+FF				Public Consult / Snam Progetti	120
Gioia Tauro (Reggio Calabria)	1	SNCR+O+DRY+FF					96
	2	SNCR+O+DRY+FF					96

Italy

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Granarolo Emilia (BO)	1	2004		12,5	11,7	M	Von Roll		CCT	440/50	
	2	2004		12,5	11,7	M	Von Roll		CCT	440/50	
Livorno	1	2003		2,75	15	M	SECIT	S	SECIT/FRASSI	370/40	6849
	2	2003		2,75	15	M	SECIT	S	SECIT/FRASSI	370/40	
Macchiareddu (CA)	1	1995		6,25		M	Montgomery Watson	S	Frassi De Ferraris		7536
	2	1995		6,25		M	Montgomery Watson	S	Frassi De Ferraris		7632
	3	1995		3,33		R	Montgomery Watson	S	Frassi De Ferraris		7512
Macomer (NU)	1	1998		3		FB	CTIP	HW	KTI	370/35	6828
	2	1998		3		FB	Termomeccanica	HW	Frassi & De Ferraris	370/35	6936
Massafra (TA)	1										5670
Melfi PZ)	1	1999		5	15	M	FISIA Italimpianti	S	Macchi	35/350	6800
	2	1999		4,5	15	R	FISIA Italimpianti	S	Macchi	35/350	6500
Mergozzo (VB)	1	1997		2,2	12,558	M	De Bartolomeis	S	De Bartolomeis	360/40	7606
	2	1997		2,2	12,558	M	De Bartolomeis	S	De Bartolomeis	360/40	7606
Milano	1	2000		20	11	M	ABB W&E	S	ABB	440/52	6364
	2	2000		20	11	m	ABB W&E	S	ABB	440/52	6649
	3	2000		20	11	M	ABB W&E	S	ABB	440/52	6481
Modena	1	1994		6	9,63	M	Von Roll	S	CCT srl	20/360	7824
	2	1994		6	9,63	M	Von Roll	S	CCT srl	20/360	8208
	3	1995		10,41	10	M	Von Roll	S	MAW	20/360	8232
Montale/Aglian a (PT)	1	1978		4,5			Tecnitalia - Secit - RK	S	Crugnola	350/30	7656
	2	2001		6,5			Tecnitalia - Secit - RK	S	Crugnola	350/30	
Ospedaletto (PI)	1	2000		4,33	11,7	M	Alstom / De Bartolomeis	S	Saporiti	38/377	7529
	2	2000		4,33	11,7	M	Alstom / De Bartolomeis	S	Saporiti	38/377	7252
Padova	1	2000		4,54		M	Public Consult	S	Fr.de Pennam	/	
	2	1970		4,54		M				/	
Parona PV)	1	2000		19	16	F	Forster Wheeler	S	Forster Wheeler	63/440	6916
Piacenza	1	2002		7,5	10,89	M	Martin	S	CNIM	40/390	8013
	2	2002		7,5	10,89	M	Martin	S	CNIM	40/390	7039
Pietrasanta /LU)	1	2002		3,75	12,5	F	Termomeccanica	S	Termomeccanica	40/400	6597
	2	2002		3,75	12,5	F	Termomeccanica	S	Termomeccanica	40/400	6700
Poggibonsi (SI)	1	1997		1,46	10,5	M		S		40/360	7500
	2	1997		1,46	10,5	M		S		40/360	
Potenza	1			1,5	8	M	De Bartolomeis	S	Frassi & De Ferarri	40/390	
	2			1,5	8	M	De Bartolomeis	S	Frassi & De Ferarri	40/390	
Ravenna	1	2000		6,5	15	FB	EPI		CCT	390/40	7383

Italy

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Granarolo Emilia (BO)	1	FF+WS+SCR					130
	2	FF+WS+SCR					130
Livorno	1	SNCR+DRY+FF				CEFLA	170
	2	SNCR+DRY+FF				CEFLA	170
Macchiareddu (CA)	1	WET					
	2	WET					
	3	WET					
Macomer (NU)	1	SD+FF+SCR					160
	2	SD+FF+SCR					160
Massafra (TA)	1						
Melfi PZ)	1	DRY-W-FF-SCR	1999	Fisia Italimpianti SpA		Fisia Italimpianti SpA	140
	2	DRY-W-FF-SCR	1999	Fisia Italimpianti SpA		Fisia Italimpianti SpA	140
Mergozzo (VB)	1	SD+FF+SNCR				UNIECO	105
	2	SD+FF+SNCR				UNIECO	105
Milano	1	SNCR - ESP - DRY - FF				ABB FLACKT	136
	2	SNCR - ESP - DRY - FF				ABB FLACKT	136
	3	SNCR - ESP - DRY - FF				ABB FLACKT	136
Modena	1	SNCR-ESP-DRY				ATS	100
	2	SNCR-ESP-DRY				ATS	100
	3	SNCR-ESP-DRY				ATS	100
Montale/Aglian a (PT)	1	DRY - FF - ESP				tecnitalia	140
	2	DRY - FF - ESP				tecnitalia	140
Ospedaletto (PI)	1	SNCR-O-DRY-FF-FGC				ALSTOM/DANECO	116
	2	SNCR-O-DRY-FF-FGC				ALSTOM/DANECO	125
Padova	1	SNCR+DRY+ESP+WS					
	2	SNCR+ESP+DRY+FF					
Parona PV)	1	DRY-FF	2000		2000	Procedair	145
Piacenza	1	SNCR-ESP-FF				CNIM	180
	2	SNCR-ESP-FF				CNIM	180
Pietrasanta /LU)	1	SNCR-O-FF-WS				Termomeccanica	110
	2	SNCR-O-FF-WS				Termomeccanica	110
Poggibonsi (SI)	1	SNCR-DRY-FF					147
	2	SNCR-DRY-FF					147
Potenza	1	SNCR-DRY-FF				Fochi Set	150
	2	SNCR-DRY-FF				Fochi Set	150
Ravenna	1	SNCR+CY+DRY+FF+WS				Procedair	

Italy

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Reggio Emilia	1	2004		4,16	10,8	M	De Bartolomeis	S	Carimati/Sprinco	10/280	
	2	2005		4,16	10,8	M	De Bartolomeis	S	Carimati/Sprinco	10/280	
Rufina/Pontassieve (FI)	1	1995		1,5	7,53	M				/	
San Vittore del Lazio (FR)	1	2002		12	15	MGWC	Lurgi		CCT Marcegaglia	415/42	7705
Scarlino	1			5,7	9,12	FB					
	2			5,7	9,12	FB					
	3			5,7	9,12	FB					
Schio (VI)	1	2004		1,5	14,6	M	Snamprogetti*	HW			2488
	2	1992		2,5	14,6	M	Snamprogetti*	HW		/	8100
	3	2004		4,2	14,6	M	Atzwanger-Publiconsult*	HW			6550
Sesto S. Giovanni (MI).	1	2001		3,3	11,352	M	De Bartolomeis	S	Grugnola Termosud	360/40	6583
	2	2001		3,3	11,352	m	De Bartolomeis	S	Grugnola Termosud	360/40	6563
	3	2001		3,3	11,352	M	De Bartolomeis	S	Grugnola Termosud	360/40	7122
Statte (TA)	1	2001		4,16	11,51	M	Von Roll	S	Fontana Sud	39/390	
	2	2001		4,16	11,51	M	Von Roll	S	Fontana Sud	39/390	
Terni	1	1998		2,1	12	M	SECIT	WW	Crugnola	360/42	6174
	2	1998		2,1	12	M	SECIT	WW	Crugnola	360/42	5691
Tolentino/Pollenza (MC)	1	2003		1,79	15	M		S		320/30	3808
Trezzo sull	1	2002		10,42	14,21	M	Von Roll	S	Hamon	40/400	7702
	2	2002		10,42	14,21	M	Von Roll	S	Hamon	40/400	7146
Trieste	1	2000		8,5	9,21	M	W+E	S	INSTEAM	385/39	6345
	2	2000		8,5	9,21	M	ABB	S	COMEF	385/39	6226
	3	2004		8,5	9,21	M	MARTIN	S	RUTHS	385/39	7284
Valmedrara (LC)	1	1981		5	8,3	M	De Bartolomeis	S	De Bartolomeis	20/350	7296
	2	1981		5	8,3	M	De Bartolomeis	S	De Bartolomeis	20/350	7680
	3			6,7	10,4	M	De Bartolomeis	S	De Bartolomeis	20/350	
Venezia	1	1998		7,3	8,58	M	ABB	S		42/380	8080
Vercelli	1	2004		3,13	11,3	M	Babcock	S	Frassi e De Ferrari	34/360	4296
	2	2003		3,13	11,3	M	Babcock	S	Frassi e De Ferrari	34/360	7932
	3	2004		3,13	11,3	M	Babcock	S	Sices	32/340	7416
Verona	1	1999		12	10,5	FB	Thyssen	S	Fontana	380/54	3727
	2	1999		12	10,5	FB	Thyssen	S	Fontana	380/54	3352

Italy

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Reggio Emilia	1	SCR-ESP-DRY-FF				EMIT/Sogeni	170
	2	SCR-ESP-DRY-FF				EMIT/Sogeni	170
Rufina/Pontassieve (FI)	1	DRY+FF					
San Vittore del Lazio (FR)	1	SNCR+SD+FF					138
Scarlino	1	SNCR+DRY+WS+ESP					
	2	SNCR+DRY+WS+ESP					
	3	SNCR+DRY+WS+ESP					
Schio (VI)	1	SNCR-SD-ESP-FF					100
	2	ESP-WS					100
	3	SNCR-ESP-FF					130
Sesto S. Giovanni (MI).	1	SNCR - ESP - WET - FF				Boldrocchi	115
	2	SNCR - ESP - WET - FF				Boldrocchi	115
	3	SNCR - ESP - WET - FF				Boldrocchi	115
Statte (TA)	1	SNCR-ESP-SD-FF	2001		2001	Termomeccanica SpA	140
	2	SNCR-ESP-SD-FF	2001		2001	Termomeccanica SpA	140
Terni	1	SNCR+WS+FF+WS				SECIT	60
	2	SNCR+WS+FF+WS				SECIT	60
Tolentino/Pollenza (MC)	1	ESP+WS+FF					
Trezzo sull	1	SNCR-DRY-FF-WS				Hamon	125
	2	SNCR-DRY-FF-WS				Hamon	125
Trieste	1	SNCR - DRY - O - FF - WET - O					120
	2	SNCR - DRY - O - FF - WET - O					120
	3	SNCR - DRY - O - FF - WET - O					120
Valmedrara (LC)	1	ESP-WS					82
	2	ESP-WS					82
	3	ESP-WS					82
Venezia	1	SNCR+SD+CA+FF+WS				ECOSESTO	110
Vercelli	1	SNCR-ESP-FF-WS		De Cardenas		Area Impianti, Tecnitalia, Koch	85
	2	SNCR-ESP-FF-WS		De Cardenas		Area Impianti, Tecnitalia, Koch	85
	3	SNCR-ESP-FF-WS		Flakt		Area Impianti, Tecnitalia, Koch	85
Verona	1	SNCR - O - SD - FF				De Cardenas	130
	2	SNCR - O - SD - FF				De Cardenas	130

Italy

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Arezzo	38000	38000						
Bergamo	48000			48000				G:399000
Bolzano	81000							G:1378000
Brescia	721000	420000	43000					G:2200000 B:258000
Busto Arsizio (VA)	94898	81955	8811				4132	G:1324776000
Castelnuovo Garfagnana (LU)	11600	11600						G:1200
Colleferro (Roma)	69000			69000				G:785000
Colleferro (Roma)	72000			72000				G:749000
Como	72268	72268						G:305559
Coriano (RN)	126027	119852				0,847	5,328	O:65000
Corteolona (PV)	37400			37400				G:1200
Cremona	64996	53836	10630			529		
Dalmine BG)	137500	113300	24200					G:2008
Desio (MI)	49019		10			3152	45857	
Ferrara	20500	19887				613		O:87240
Ferrara	38840							
Forli	41400	35000	6400					G:233
Gioia Tauro (Reggio Calabria)								
Granarolo Emilia (BO)	179676	164536				2418	15076	
Livorno	44806			44806				G:302
Macchiareddu (CA)	212600	190000	13600		9000			
Macomer (NU)	79000	76800	1300		500		400	
Massafra (TA)	44190			44190				
Melfi PZ)	47000	25000				2000	12000	
Mergozzo (VB)	28999							
Milano	335000							G:1626422
Modena	122042	115000	2000			5000	0,042	G:61380
Montale/Agliana (PT)	33300	28600	3090				1340	G:96000
Ospedaletto (PI)	57944	52293	2126			3525		O:113500
Padova	60376	54999	2385			2992	2804	
Parona PV)	186800	137300	49500					
Piacenza	111409	108866				750	1793	G:124586
Pietrasanta /LU)	46849			46849				G:245
Poggibonsi (SI)	20436	16960	748	2728				
Potenza								
Ravenna	169954	117712	7633	44601		8,7		G:192
Reggio Emilia								
Rufina/Pontassieve (FI)	9878	9759	88			31	100	
San Vittore del Lazio (FR)	80300			80300				G:1717000
Scarlino	51600							B:51600
Schio (VI)	57470			30900		4700	19500	O:190
Sesto S. Giovanni (MI).	60300	60300						G:31500
Statte (TA)	48700	48700						O:20

Italy

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Arezzo	9723	1226		16800			15193	
Bergamo				49352				
Bolzano	21764	1350		35577	24431		23590	24431
Brescia	141200	33400		537000	394000		475000	394000
Busto Arsizio (VA)	17299	3702		51880			37938	
Castelnuovo Garfagnana (LU)	3640	260		2420			901	
Colleferro (Roma)	11000	6000		71472			63623	
Colleferro (Roma)	9000	4000		31816			27632	
Como	16181	1469		26091	712		25945	
Coriano (RN)	36964	2331		57048			46527	
Corteolona (PV)	2393	5345		40288			36283	
Cremona				18380	47014		18380	47014
Dalmine BG)	23800	5300		109552			102672	
Desio (MI)	13761	31		7399			1438	
Ferrara	5871	480						
Ferrara	10374	1569		11904			11205	
Forli	9900	2090		8933	7736		8933	7736
Gioia Tauro (Reggio Calabria)								
Granarolo Emilia (BO)				39619	59391			
Livorno	10134	1392		18608			7538	
Macchiareddu (CA)				43880			25936	
Macomer (NU)				7010			6505	
Massafra (TA)	23000	7686		39648			37488	
Melfi PZ)								
Mergozzo (VB)	7797	575		9476			3462	
Milano	55968	5681	36317	281403			232176	36317
Modena	31880	3655		31689			30511	
Montale/Agliana (PT)	8318	1048		3681			3635	
Ospedaletto (PI)	14451	1559		26242				
Padova				23269				
Parona PV)				121859			102629	
Piacenza	22133	3131		63692			53907	
Pietrasanta /LU)				32766			29699	
Poggibonsi (SI)				4068			3054	
Potenza								
Ravenna	685			32109			31752	
Reggio Emilia								
Rufina/Pontassieve (FI)								
San Vittore del Lazio (FR)	12300	5800		74392			65971	
Scarlino				24860				
Schio (VI)	16000	2000		21850			13800	
Sesto S. Giovanni (MI).	13971	473		30025			21161	
Statte (TA)	13250	1240		8276			4198	

Italy

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Terni	27000	25600	400			1200		
Tolentino/Pollenza (MC)	18983	18983						
Trezzo sull	152540			152540				O:438.64
Trieste	138200	118600	17400	1000			1300	
Valmedrara (LC)	62300	56700				5600		
Venezia	52448	50357	2086					O:29500
Vercelli	58890	49200		1530		2600	5560	O:31.78
Verona	131300	119600	300	7800	700		3000	G:18584

Italy

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Terni	4920	655		9863			8562	
Tolentino/Pollenza (MC)								
Trezzo sull	29898	6429		113599			107214	
Trieste	40000			67654			67564	
Valmedrara (LC)				20592			14414	
Venezia	13041	1700		12734			9013	
Vercelli	15900	1200		14480			10690	
Verona	4600	3400		83428	1922		69106	

Number of plants:	11
Average capacity:	61 t/h
Quantity treated 2004:	5.159.000 t

Netherlands

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Alkmaar	NV Huisvuilcentrale N-H www.huisvuilcentrale.nl	Jadestraat 1 1812RD Alkmaar	+317254 11311 +317254 11344
Amsterdam	Amsterdam www.afvalenergiebedrijf.nl	Australiehavenweg 21 Amsterdam	+31 2058 76299 +31 2058 76200
Dordrecht	Gevudo Afvalverwerking www.gevudo.nl	Baanhoekweg 40 3313 LA Dordrecht	+33 78 6216800 +33 78 6216888
Duiven	Duiven www.avr.nl	Rivierweg 20 6921 PZ Duiven	+31 2631 71111 +31 2631 10137
Hengelo	Hengelo www.twence.nl	Boelderhoekweg 51 7554 RT Hengelo	+33 74 2404496 +33 74 2404333
Moerdijk	Afvalverbranding Zuid-Nederland (AZN) www.nvAZN.nl	Postbus 21 4780 AA	+31 1683 85400
Roosendaal	SITA ReEnergy Roosendaal www.sita.nl	Potendreef 2 4703 RK Roosendaal	+33 165 534492 +33 165 559270
Rotterdam	AVR Afvalverwerking Rotterdam www.avr.nl	Brielselaan 175 (havennummer 1365) 3081 AC Rotterdam	+33 181 274865 +33 181 274867
Rozenburg	AVR Afvalverwerking Rozenburg www.avr.nl	Prof. Gerbandyweg 10 (havennummer 4506) 3197 KK Rozenburg	+33 181 275843 +33 181 275504
Weurt	ARN Nijmegen www.arnbv.nl	Nieuwe Pieckelaan 1 Nijmegen	+33 24 3717171 +33 24 3779769
Wijster	Wijster www.essent.nl	Vamweg 7 Wijster	+31 5935 63486 +31 5935 63920

Netherlands

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Alkmaar	ing. P.J.M. Maas p.maas@huisvuilcentrale.nl	Municipalities 1.500.000	Postbus 9199 1800GD Alkmaar
Amsterdam	Ing W. Sierhuis sierhuis@afvalenergiebedrijf.nl	City of Amsterdam 1.800.000	Amstel 1 1011 PN Amsterdam
Dordrecht	C. Schop c.schop@gevudo.nl	ENECO	
Duiven	ing. F.A. Smedema ferry.smedema@avr.nl	N.V. AVR-AVIRA	PO box 147 6920 AC Duiven
Hengelo	J.A. Bruggeman j.bruggeman@twence.nl	Municipalities Twente, 30% Essent	
Moerdijk	T.G.J. van den Ham t.vd.ham@nvAZN.nl	49,9% Essent, 30% Deltan, 20,1% BOM	Middenweg 34 Moerdijk
Roosendaal	C.J. Stuart casper.stuart@sita.nl	SITA	
Rotterdam	S. Rutten stefan.rutten@avr.nl	AVR	
Rozenburg	R. Oosschot rini.oosschot@avr.nl	AVR	
Weurt	A.A.F. van Winden T.vanWinden@arnbv.nl	ARN BV	PO Box 7006 6503 GM Nijmegen
Wijster	Ir. D.J. Spanjaard dick.spanjaard@essent.nl	Essent Milieu unknown	PO Box 5 9418 ZG Wijster

Netherlands

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Alkmaar	1	1996	2021	18,5	10	M	De Schelde	S	Von Roll / De Schelde	400/40	7933
	2	1996	2021	18,5	10	M	De Schelde	S	Von Roll / De Schelde	400/40	8191
	3	1996	2021	18,5	10	M	De Schelde	S	Von Roll / De Schelde	400/40	8152
	4	2005		27,5	9,8		EisenWerk Baumgarte	S	Von Roll / EisenWerk Baumgarte	400/	
Amsterdam	1	1993		26	9,7	M	W&E	S	NEM	430/43	8573
	2	1993		26	9,7	M	W&E	S	NEM	430/43	7879
	3	1993		26	9,7	M	W&E	S	NEM	430/43	8011
	4	1993		26	9,7	M	W&E	S	NEM	430/43	8547
Dordrecht	1	1992		8	8,4	M	Martin	S	Wehrle	400/40	8110
	2	1973		7	8,4	M	Martin		Wehrle		8110
	3	1973		7	8,4	M	Martin		Wehrle		8110
	4	1990		8	8,4	M	Martin	S	Wehrle	400/40	8110
Duiven	1	1975		15	8,4	R	De Schelde	S	Durr/DBA	400/40	7454
	2	1975		15	8,4	R	De Schelde	S	Durr/DBA	400/40	8163
	3	1975		15	8,4	R	Stork Ketels	HW	Durr/DBA	180/15	7858
Hengelo	1	1997		18	10	M		S		415/40	8150
	2	1997		18	10	M		S		415/40	8150
Moerdijk	1	1997		26,5	11	M	Von Roll	s	vRoll/De Schelde (KMS)	400/100	7949
Roosendaal	1	1995		4	8,4	M		WW		/	8032
	2	1995		4	8,4	M		WW		/	8033
Rotterdam	1	1962		13,5	8,4	M	Martin	S	Wehrle	360/30	8168
	2	1962		13,5	8,4	M	Martin	S	Wehrle	360/30	7682
	3	1962		13,5	8,4	M	Martin	S	Wehrle	360/30	7916
	4	1962		13,5	8,4	M	Martin	S	Wehrle	360/30	8134
Rozenburg	1	1972		25	7,5	M	Babcock Dürr	S	Babcock Dürr	370/27	
	2	1972		25	7,5	M	Babcock Dürr	S	Babcock Dürr	370/27	
	3	1972		25	7,5	M	Babcock Dürr	S	Babcock Dürr	370/27	
	4	1972		25	7,5	M	Babcock Dürr	S	Babcock Dürr	370/27	
	5	1972		25	7,5	M	Babcock Dürr	S	Babcock Dürr	370/27	
	6	1972		25	7,5	M	Babcock Dürr	S	Babcock Dürr	370/27	
	7	1994		31,3	9,3	M	Babcock	S	Babcock NEM	370/27	
Weurt	1	1987		9	15,5	M	Noell	S	Standaard Fasel	400/40	8060
	2	1995		21	13,5	M	Noell	S	NEM	400/40	8060
Wijster	1	1996		24	9	M	Lurgi (Lentjes)	S	J. Stiefel/ Lentjes Industriekessel	405/41 (g)	8240
	2	1996		24	9	M	Lurgi (Lentjes)	S	J. Stiefel/ Lentjes Industriekessel	405/41 (g)	7640
	3	1996		24	9	M	Lurgi (Lentjes)	S	J. Stiefel/ Lentjes Industriekessel	405/41 (g)	8073

Netherlands

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Alkmaar	1	ESP/SD/WET/O/FF/SCR	1996	Lurgi	1996	Von Roll	140
	2	ESP/SD/WET/O/FF/SCR	1996	Lurgi	1996	Von Roll	140
	3	ESP/SD/WET/O/FF/SCR	1996	Lurgi	1996	Von Roll	140
	4		2005	Elex	2005	Von Roll	
Amsterdam	1	ESP/SD/WET/AC/SNCR	1993	Lurgi	1993	LAB	60
	2	ESP/SD/WET/AC/SNCR	1993	Lurgi	1993	LAB	60
	3	ESP/SD/WET/AC/SNCR	1993	Lurgi	1993	LAB	60
	4	ESP/SD/WET/AC/SNCR	1993	Lurgi	1993	LAB	60
Dordrecht	1	ESP/WET/DeNOx				Lurgi	
	2	ESP/WET/DENOX				Lurgi	
	3	ESP/WET/DENOX				Lurgi	
	4	ESP/WET/DENOX				Lurgi	
Duiven	1	SNCR/ESP/WET	1975	Lurgi	1994	von Roll	65
	2	SNCR/ESP/WET	1975	Lurgi	1994	von Roll	65
	3	SNCR/ESP/WET	1975	Lurgi	1994	von Roll	70
Hengelo	1	ESP/SD/WET/FF/SCR					
	2	ESP/SD/WET/FF/SCR					
Moerdijk	1	ESP/WET/SNCR/AC+FF		Rothemuehle		Von Roll / Thyssen	100
Roosendaal	1	ESP, SD, FF, AC, SCR					
	2	ESP, SD, FF, AC, SCR					
Rotterdam	1	ESP/WET/AC/DeNOx				Steinmüller	
	2	ESP/WET/AC/DENOX				Steinmüller	
	3	ESP/WET/AC/DENOX				Steinmüller	
	4	ESP/WET/AC/DENOX				Steinmüller	
Rozenburg	1	ESO/WET/AC/SCR					300
	2	ESO/WET/AC/SCR					300
	3	ESO/WET/AC/SCR					300
	4	ESO/WET/AC/SCR					300
	5	ESO/WET/AC/SCR					300
	6	ESO/WET/AC/SCR					300
	7	ESO/WET/AC/SCR					
Weurt	1	ESP/SD/WET/SCR/FF				Noell	
	2	ESP/SD/WET/SCR/FF				Noell	
Wijster	1	ESP/SD/FF/WET/SCR/O(CAT)	1996	Lurgi	1996	Lurgi	235
	2	ESP/SD/FF/WET/SCR/O(CAT)	1996	Lurgi	1996	Lurgi	235
	3	ESP/SD/FF/WET/SCR/O(CAT)	1996	Lurgi	1996	Lurgi	235

Netherlands

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Alkmaar	458218				0	0	0	G:5445906
Amsterdam	877351	528963	283552	0	23981	9733	31122	
Dordrecht	206991	123100	83891					
Duiven	335738	207815	127923					O:110075
Hengelo	307029	216029	91000					
Moerdijk	655791	478553	177238	0	0	0	0	G:979459
Roosendaal	55166	yes	yes	none	99	none	none	G:1071950
Rotterdam	385000	75%	25%	0	0	some	some	
Rozenburg	1125000	80%	20%	none	none	none	liquid was	
Weurt	269585			269585				
Wijster	483119	not specif	not specif	0	0	0	0	

Netherlands

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Alkmaar	117789	6013	1449557	311114	0	0	233777	0
Amsterdam	261203	10965	2649987	591568	39512		508080	39512
Dordrecht	53900	4140	331000	65433				
Duiven	85247	6539		159524			113707	
Hengelo	73800	8461	941000	181000			153000	
Moerdijk	150721	15886	2118344	0	0	2118344	0	0
Roosendaal	35042	1230		none	140000		none	52806
Rotterdam	80000	5400	850000	183000	none	none	115000	none
Rozenburg	253000	42000	2952000	497000	none	not known	429000	567500
Weurt	60701	16080	982000	190838			158677	
Wijster	140104	9600	1645448	355971	7180	0	299016	0

Number of plants:	13
Average capacity:	6 t/h
Quantity treated 2004:	767.000 t

Norway
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Averøy	Nordmøre Energigjenvinning KS (www.norenergy.no)	Kristvika 6530 Averøy	+47 71 51 44 44 +47 71 51 44 45
Bergen	BIR Avfallsenergi, Bergen www.bir.no	Fanavegen 217 5239 Rådal	+4755527116 +475552 7101
Frederikstad	Frederikstad www.frevar.com	Postboks 1430 1632 Gml. Frederikstad	+47 6935 7300 +47 6935 7301
Lenvik	Senja Avfallselskap IKS	Botnhågen 9300 Finnsnes	+4777850650 +4777850651
Oslo (Brobekk)	Brobekk Energigjenvinningsanlegg www.ege.oslo.kommune.no	Brobekkveien 87 0583 Oslo	+4723483800 +4723483801
Oslo (Klemetsrud)	Klemetsrud Energigjenvinningsanlegg www.ege.oslo.kommune.no	Klemetsrudveien 1 1278 Oslo	+4723483900 +4723483901
Oslo (Viken)	Oslo/Viken www.vikenfjernvarme.no	Brobekkveien 87 0582 Oslo	+4721626217 +4721626201
Sandnes	Forus Energigjenvinning KS www.forusenergi.no	Forusbeen 202 N-4313 Sandnes	+47 51678400 +47 51630039
Sarpsborg	Sarpsborg Energigjenvinning AS www.ostfoldenergi.no	Oskar Petersens vei 10 N-1701 Sarpsborg	+ 47 69 11 25 00 + 47 69 15 65 12
Spjelkavik	Ålesund www.kraftvarme.no	Serviceboks 1 6025 Ålesund	+ 47 70 10 07 00 + 47 7010 07 10
Trondheim	Trondheim www.tev.no	Østre Rosten 82 7075 Tiller	+47 73961015 +47 73961605
Ål	Ål www.hallingdalrenovasjon.no	Kleivi 3570 Ål	+47 3208 6110 +47 3208 6119
Årdal	Årdal	Postboks 40 6881 Årdalstangen	+47 57 66 51 11

Norway
General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Averøy	Odd Willy Sakshaug ows@norenergy.no	Energos AS, Nordmøre Interkommunale renovasjonsselskap 65 700	
Bergen	Jan Egil Bredsten bir@bir.no	BIR AS 300000	Postboks 6004 Postterminalen N5892 Bergen
Frederikstad	Pål Mikkelsen pama@fredrikstad.kommune.no	FREVAR KF 300000	postboks 1430 1602 Fredrikstad
Lenvik	Are Lorentsen are@senja-avfall.no	Senja avfallsselskap IKS 27000	Botnhågen 9300 Finnsnes
Oslo (Brobekk)	Runar Madsen Runar.Madsen@ege.oslo.kommune.no	Oslo Kommune Energigjenvinningsetaten	Postboks 54, Mortensrud 1215 OSLO
Oslo (Klemetsrud)	Thorbjørn Løkkevik thorbjorn.lokkevik@ege.oslo.kommune.no	Oslo Kommune Energigjenvinningsetaten	Postboks 54, Mortensrud 1215 OSLO
Oslo (Viken)	Rune Volla rune.volla@vikenfjernvarme.no	Viken Fjernvarme AS 520000	Postboks7034 St. Olavs Plass 0130 Oslo
Sandnes	Rune Dirdal rune.dirdal@forusenergi.no	Forus Energigjenvinning KS 275000	Forusbeen 202 N-4313 Sandnes
Sarpsborg	Johnny Pedersen johnny.pedersen@ostfoldenergi.no	Østfold Energi AS N/A	P.O.Box 17 N-1701 Sarpsborg
Spjelkavik	Odd Helland odd.helland@tafjord-kraft.no	Tafjord Kraftvarme AS 120 000	Serviceboks 1 6025 Ålesund
Trondheim	Egil Evensen egil.evensen@tev.no	Trondheim Energiverk Fjernvarme AS	Sluppenveien 6 N-7005 Trondheim
Ål	Birger Sorteberg firmapost@hallingdalrenovasjon.no	Hallingdal renovasjon IKS 20000	Kleivi 3570 Ål
Årdal	Arne Kjos akj@ardal.kommune.no	Årdal kommune	

Norway

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Averøy	1	2000	2020	4	10,5	G	Energos	S	Parat Anders Halvorsen AS	375/21	748
Bergen	1	1999		14	10,5	M	von Roll	S	Moss	400/40	7855
Frederikstad	1	1984	2025	10	12	M	Wimer&Ernst	S	Moss Rosenberg	400/40	8415
Lenvik	1	1985	2006								5000
	2	2006		1,92	11,5	O, fast bu	Envikraft AS	S	Envikraft	mettet/13	
Oslo (Brobekk)	1	1967		6,5	8,3	M	W&E	HW	Moss-Rosenberg	/	8248
	2	1967		6,5	8,3	M	W&E	HW	Moss-Rosenberg	/	8342
Oslo (Klemetsrud)	1	1985		10	8,3	M	Moss-Rosenberg	S	W&E/Moss-Rosenberg	360/40	8150
	2	1985		10	8,3	M	Moss-Rosenberg	S	W&E/Moss-Rosenberg	360/40	8153
Oslo (Viken)	1	2002		7,3	14,8	FB	Foster Wheeler	HW	Foster Wheeler		4053
Sandnes	1	2002	2022	5	10,5	G	Energos	S	Boiler : PARAT Halvorsen	380/21	7451
Sarpsborg	1										
Spjelkavik	1										8200
Trondheim	1										8330
Ål	1	1984		3	10,5	M	Vølund	WW	Vølund	/	7720
Årdal	1										

Norway

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP		Flue Gas Cleaning		Flue Gas Temp., °C
			Year	Supplier	Year	Supplier	
Averøy	1	FF	-	-	2000	Simatek AS	140
Bergen	1	ESP, WET, FF				von Roll	125
Frederikstad	1	ESP-WET-FF	1984	Rico	1984	Rico (1982)-von Roll (1989)-Flebu Ticon (1998)	100
Lenvik	1						
	2	DRY				Envikraft	
Oslo (Brobekk)	1	FF/WET/SNCR				Babcock Borsig Power	60
	2	FF/WET/SNCR				Babcock Borsig Power	60
Oslo (Klemetsrud)	1	FF/WET/SNCR				Babcock Borsig Power/Peabody	60
	2	FF/WET/SNCR				Babcock Borsig Power/Peabody	60
Oslo (Viken)	1		2002		2002		
Sandnes	1	FF	2002	NA	2002	SIMATEK	140
Sarpsborg	1						
Spjelkavik	1						
Trondheim	1						
Ål	1	SD + FF			1995/	FLS-miljø + Simatek	150
Årdal	1						

Norway

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Averøy	32124							O:13360
Bergen	105000	85000	18700			1300		O:225000
Frederikstad	80381	3424	76957			760		O:195000
Lenvik	5050	2250	2803			120		
Oslo (Brobekk)	110268	95492	10961				3815	O:210300
Oslo (Klemetsrud)	148161	114912	23537			1677	8035	O:336400
Oslo (Viken)	34356						34356	O:157280
Sandnes	38596	30737	7859					G:392000
Sarpsborg	62517							O:140000
Spjelkavik	34658	30121	4328			210		O:232
Trondheim	97012	57509	39503					
Ål	18600	12400	6200					O:24800
Årdal								

Norway
Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Averøy	4963	1375		6672	72000		6672	21578
Bergen	17400	2200		41250	276000		41250	96271
Frederikstad	15000	1600	240000	4000	208000	207000	4000	173
Lenvik	880	94			10000			2200
Oslo (Brobekk)	17717	3289			282507			246803
Oslo (Klemetsrud)	26574	5470		68318	288691		68318	176987
Oslo (Viken)	6314	3504			109994			101775
Sandnes	7346	1558	105000	12353	89858		12353	15081
Sarpsborg	9322	3615		N/A	165000		N/A	154000
Spjelkavik	4185	1048			81120			60000
Trondheim	19661	1848			242065			201804
Ål	3460	425		0	31200			7
Årdal								

Number of plants:	3
Average capacity:	68 t/h
Quantity treated 2004:	648.000 t

Portugal

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Funchal	Madeira www.valorambiente.pt	Rua dos Murças 15 9000 - 058 Funchal	+351 291 214 860 +351 291 214 861
Moreira da Maia	Central de Valorização Energética - LIPO www.lipor.pt	Lugar de Cretins P.O. Box 3102 4471-907	+351 22 977 0100 +351 22 975 6038
S. Joao de Talha	Central de Tratamento de Residuos Soli www.valorsul.pt	Plataforma Ribeirinha da CP 2696-801	+351 219535900 +351 219535935

Technical Information on the Plant

Location	Line No.	Establ. Year	Closure Year	Capac. t/h	Nom CV GJ/t	Furnace		Boiler		Steam Data oC/bar	Hours of Operat.2004
						Type	Supplier	Type	Supplier		
Funchal	1	2004	2027	8	7,5	F	Lurgi (Walzenrost system - Wupertal)	HW	Roller Grate/EWBeisenwerke Banmgarte	400/40	805
	2	2004	2027	8	7,5	F	Lurgi (Walzenrost system - Wupertal)	HW	Roller Grate/EWBeisenwerke Banmgarte	400/40	775
Moreira da Maia	1	1999		24,7	7,7	M	Martin	S	CNIM	395/43	
	2	1999		24,7	7,7	M	Martin	S	CNIM	395/43	
S. Joao de Talha	1	2000		28	7,8	M	Detroit Stoker	S	Foster Wheeler	420/52.7	6960
	2	2001		28	7,8	M	Detroit Stoker	S	Foster Wheeler	420/52.7	6827
	3	2002		28	7,8	M	Detroit Stoker	S	Foster Wheeler	420/52.7	7077
	4	2003		28	7,8	M	Detroit Stoker	S	Foster Wheeler	420/52.7	
	5	2004		28	7,8	M	Detroit Stoker	S	Foster Wheeler	420/52.7	

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Funchal	113.823							O:286071
Moreira da Maia								
S. Joao de Talha	534.640	534.640						G:912671

Portugal

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Funchal	Engª Joana Rodrigues geral@valorambiente.pt	Estação de Tratamento de Resíduos S	Sítio da Meia Serra 9135 - 400 Camacha
Moreira da Maia	Paula Mendes paula.mendes@lipor.pt	LIPOR - Serviço Intermunicipalizado d 970.000	P.O.Box 1510 4435-996 Baguim do Monte
S. Joao de Talha	Dra. Ana Loureiro ana.loureiro@valorsul.pt	Valorsul, SA.	Plataforma Ribeirinha da CP 2696-801

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp.,°C
Funchal	1	SNCR, SD, FF	2004	---	2004	BHS / Lurgi / Gutsche	140
	2	SNCR, SD, FF	2004	---	2004	BHS / Lurgi / Gutsche	140
Moreira da Maia	1	SD/FF				CNIM/Hamon Reach-Contrell	155
	2	SD/FF				CNIM/Hamon Reach-Contrell	155
S. Joao de Talha	1	SNCR+SD+FF				EXXON/Alstrom	140-190
	2	SNCR+SD+FF				EXXON/Alstrom	140-190
	3	SNCR+SD+FF				EXXON/Alstrom	140-190
	4	SNCR+SD+FF				EXXON/Alstrom	
	5	SNCR+SD+FF				EXXON/Alstrom	

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Funchal	22.638	3.477	260.240	48.475		35.070		
Moreira da Maia								
S. Joao de Talha	100.076	19.132	1.498.936	286.408		247.656		

Number of plants:	10
Average capacity:	25 t/h
Quantity treated 2004:	2.221.000 t

Spain
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Barcelona	Planta Energètica de Sant Adrià del Besòs www.tersa.com		+34 93 462 78 70 +34 93 462 78 72/73
Bilbao	Zabalgarbi en construción	Camino de Artigas, 10 48002 Bilbao	+34 94 4155288 +34 94 4151969
Cerceda (A Coruña)	Sogama www.sogama.es	Morzós, 10 bajos 15187 San Román - Encrovas. Cerceda, A Coruña	+34 981 698500 +34 981 586064
Girona	TRARGISA	Paratge De Campdorà, S/N 17461 GIRONA	+34 972 217433 +34 972 223153
Madrid	TIRMADRID	Cañada Real De Merinas, S/N (Valdemingomez) 28051 Madrid	+34 91 3324131 +34 91 3322780
Mataró	TRM www.plantabrossa-maresme.com	C/ de la Teixidora, 83 Pl Les Hortes del Camí Ral 08302	+34 93 7411515 +34 93 7995216
Melilla	REMESA www.remesa.es	Horcas Doradas C/D, s/n 52002 MELILLA	+34 952 680561 +34 952 685808
Meruelo (Cantabria)	Cantabria www.urbaser.com	Bº La Verna, s/n 39192	+34 942 674898 +34 942 637073
Palma De Mallorca	TIRME www.tirme.com	Ctra. De Sóller, KM 8,2 07120 Palma	+34 971 435050 +34 971 438672
Tarragona	SIRUSA www.sirusa.es	C/ Coure s/n. Polg.Ind.Riu Clar 43206 Tarragona	+34 977 550696 +34 977 546647

Spain

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Barcelona	Sr. Francesc Gatuellas	TERSA	Avda. Eduard Maristany 08930 Sant Adrà del Besòs
Bilbao	General: Fidel Bikandi/ Medioambiente: Inés Alonso General: dcfb@zabalgarbi.com Medioamb.: ines.alon	Zabalgarbi, S.A. 670000	48002 Bilbao
Cerceda (A Coruña)		Unión Fenosa (49%) y Xunta de Galicia (51%) 2054190	Morzós, 10 bajos 15187 San Román - Encrovas. Cerceda, A Coruña
Girona	D. Alfred Viñas i Folch (gerente) a.vinas@eic.ictnet.es	Ayuntamientos de Girona, Salt i Sarrià de Ter 110.000	
Madrid	María Jesús Ramírez Gonzalo tirmadrid@tirmadrid.es	TIRMADRID, SA 1.000.000	Cañada Real De Merinas, S/N (Valdemingomez) 28051 Madrid
Mataró	Juan Balagué Pons trm@trm.es	Consorci Per Al Tractament De Rsu Del Maresme 350.000	C/ de la Teixidora, 83 Pl Les Hortes del Camí Ral 08302
Melilla	D. Miguel Moralejo Vidal mmoralejo@remesa.es	Residuos de Melilla, S.A. 80000	Horcas Doradas C/D, s/n 52002 MELILLA
Meruelo (Cantabria)	Jose Antonio Gomez acanoc@urbaser.com	Public franchise 550.000	39001 Santander
Palma De Mallorca	Angel Fernández Homar gerencia@tirme.com	Consell Insular De Mallorca /TIRME 732.000	
Tarragona	Sr. Ramón Nadal sirusa@sirusa.es	Mancomunitat D'Incineracio De Residus Urbans - SIRUSA 300.000	43206 Tarragona

Spain

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Barcelona	1	1975		15	8,4					400/40	8000
	2	1975		15	8,4					400/40	8000
	3	1975		15	8,4					400/40	8000
Bilbao	1	2005	2030	30	8,3	M	CNIM	AQUOTUBULA	MARTIN/CNIM	326/103	5760
Cerceda (A Coruña)	1	2002		23		FB					6500
	2	2002		23		FB					
Girona	1	1984		3		M	Martin	S	Aitesa	/	
Madrid	1	1997	2020	9,17	14,65	FB	EBARA	S	Vulcano/ERK	420/48	7849
	2	1997	2020	9,17	14,65	FB	EBARA	S	Vulcano/ERK	420/48	
	3	1997	2020	9,17	14,65	FB	EBARA	S	Vulcano/ERK	425/48	
Mataró	1	1994		10	8,38	M	Martin	S	MARTIN/CNIM	380/61	7395
	2	1994		10	8,38	M	Martin	S	MARTIN/CNIM	380/61	7428
Melilla	1	1996		4,5	9,1	M	Von Roll	S	Von Roll	400/40	8000
Meruelo (Cantabria)	1	2005		12	11,72		LURGI LENTJES	ACUTUBULAR	LURGI LENTJES	420/48	
Palma De Mallorca	1	1997	2025	18,75	6.4-7.5	M	DEUTSCHE BABCOCK	S	DEUTSCHE BABCOCK / MACHI-DBA	396/42	8735
	2	1997	2025	18,75	6.4-7.5	M	DEUTSCHE BABCOCK	S	DEUTSCHE BABCOCK / MACHI-DBA	396/42	8646
Tarragona	1	1990		9,6		M	DBA	S	DBA/Eckrokessel	360/40	8064
	2	1990		9,6		M	DBA	S	DBA/Eckrokessel	360/40	8016

Spain

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Barcelona	1	SD	1975	DEFISA	1998	SEGHERS	150
	2	SD	1975	DEFISA	1998	SEGHERS	150
	3	SD	1975	DEFISA	1998	SEGHERS	150
Bilbao	1	SNCR+SD+FF			2005	CNIM	140
Cerceda (A Coruña)	1	SD+FF					140
	2	SD+FF					140
Girona	1	ESP + DRY + FF				Defisa	140
Madrid	1	SD+FF			1997	H-ABT	180
	2	SD+FF			1997	H-ABT	180
	3	SD+FF			1997	H-ABT	180
Mataró	1	SD/FF			1994	ABB Fläkt (reactor); DEFISA (filter)	160
	2	SD/FF			1994	ABB Fläkt (reactor); DEFISA (filter)	160
Melilla	1	SD				Procedair	130
Meruelo (Cantabria)	1	ABSORBEDOR +FF				LURGI LENTJES	140'
Palma De Mallorca	1	SD+FF			1997	ABB Fläkt	145-150
	2	SD+FF			1997	ABB Fläkt	145-150
Tarragona	1	SD			1996	FL Miljø	140
	2	SD			1996	FL Miljø	140

Spain

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Barcelona	328832	328832						G:118892
Bilbao	157808	157808	-	-	-	-	-	
Cerceda (A Coruña)	506247							
Girona	30620							
Madrid	291675			291675				O:1128600
Mataró	149218							G:62876
Melilla	46227							
Meruelo (Cantabria)	244639	244639		90				
Palma De Mallorca	328747	326691			2056			O:418628
Tarragona	137205	137205						O:47750

Spain

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Barcelona	69388	11516	704858	174037		30859	135366	
Bilbao	34828	6312	-	521785	-	-	494295	-
Cerceda (A Coruña)	68647	32180		319909			288069	
Girona	6736	798		5985000			2959700	
Madrid	15540	28547		228501			173377	
Mataró	36772	6382	365138	75521			64462	
Melilla	11094	739		12459			9086	
Meruelo (Cantabria)	4290	7485	300000	81000			66000	
Palma De Mallorca	78721	26684	796666	173887			145810	
Tarragona	32775	3292		55594	342999		44895	

Number of plants:	30
Average capacity:	17 t/h
Quantity treated 2004:	3.078.000 t

Sweden
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Avesta	Källhagsverket i Avesta www.fortum.se	Ab Fortum Värme Industrigatan 40 774 35 AVESTA	+46 226 360 00 +46 226 360 13
Boden	Värmeverket i Boden www.bodensenergi.se	Degerbergsvägen 2 961 40 BODEN	+46 0921 621 92 +46 0921 521 35
Bollnäs	Säverstaverket i Bollnäs www.bollnas.se	Bollnäs kommun Värmeverket 821 80 BOLLNÄS	+46 027825 519 +46 027825 690
Borlänge	Bäckelundsverket www.borlange-energi.se	Ritargatan 1 781 78 BORLÄNGE	+46 243 73 000 +46 243 86 304
Eksjö	Eksjö Energi AB www.eksjo.se/kommun	Eksjö Energi AB 575 80 Eksjö	+46 0381 - 36 000 / 0381 - 36 +46 0381 - 135 48
Göteborg	Sävenäsverket i Göteborg www.renova.se	Renova Box 156 401 22 Göteborg	+46 03161 80 01 +46 03161 86 27
Halmstad	Kristinehedsverket i Halmstad www.renhallningsbolaget.halmstad.se	Renhållningsbolaget Box 8005 300 08 Halmstad	+46 035190 190 +46 035190 110
Haninge	Bollmora Värmeverk www.vattenfall.se	Vattenfall Drefviken Värme AB Box 606 136 26 Haninge	+46 08 707 08 00 +46 08 742 32 12
Hässleholm	Beleverket i Hässelholm www.hfab.nu	Hässleholm Fjärrvärme AB Tippvägen 7 281 41 HÄSSLEHOLM	+46 0451 26 70 00 +46 0451 843 60
Jönköping	Jönköping Energi www.jonkopingenergi.se		+46 036 10 82 00 +46 036 19 07 32
Karlskoga	Karlskoga Kraftvärmeverk www.karlskogaenergi.se	Karlskoga Kraftvärmeverk AB Box 155 691 23 Karlskoga	+46 0586617 90 +46 0586620 10
Karlstad	Avfallsvärmeverket på Heden www.karlstadsenergi.se	Hedenverket 651 84 Karlstad	+46 54295000 +46 54297362
Kil	Kils Energi AB www.kils-energi.se	Kils Energi AB Box 88 665 23 Kil	+46 0554 191 00 +46 0554 191 97
Kiruna	Kiruna Värmeverk www.kiruna.se	Kiruna Värmeverk AB Box 60 981 21 Kiruna	+46 0980707 15 +46 0980181 25
Kumla	Sydkraft SAKAB www.sydkraft.se	Sydkraft SAKAB AB 692 85 Kumla	+46 019 30 51 00 +46 019 57 70 27
Köping	Norsaverket www.vafab.se	Norsavägen 13 731 98 KÖPING	+46 0221252 24 +46 022115770
Landskrona	Hetvattencentralen i Landskrona	Landskrona kommun Tekniska verken 261 80 Landskrona	+46 0418 47 08 53 +46 0418 47 08 56
Lidköping	Lidköpings Värmeverk www.lidkoping.se	Lidköpings Värmeverk AB Sjöhagsvägen 8 531 88 Lidköping	+46 0510770 290 +46 0510770 882
Linköping	Gärstadverket i Linköping www.tekniskaverken.linkoping.se	Tekniska Verken i Linköping AB Box 1500 581 15 Linköping	+46 01320 80 00 +46 01320 80 06
Ljungby	Ljungsjöverket i Ljungby www.ljungby-energi.se	Ljungsjöverket Märta Ljungbergsvägen 61 341 35 Ljungby	+46 0372 789 591, 0733 739 591 +46 0372 827 65
Malmö	SYSAV Sydskånes Avfallsaktiebolag www.sysav.se	Box 503 44 203 13 MALMÖ	+46 40 635 18 50 +46 40 635 18 90

Sweden

General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Avesta	Bernt-Ove Öhman bernt-ove.ohman@fortum.com	AB Fortum Värme samägt med Stockholms stad 12000	Industrigatan 40 774 35 Avesta
Boden	Ulf Öberg ulf.oberg@bodensenergi.se	Bodens Energi AB 150 000	Slipvägen 7 961 38 Boden
Bollnäs	Mikael Strandberg mikael.strandberg@bollnas.se	Bollnäs Kommun 26000	 821 80 Bollnäs
Borlänge	Anders Åberg anders.aberg@borlange-energi.se	AB Borlänge Energi 48 000	Box 834 781 28 Borlänge
Eksjö	Bo Axelsson / Hans-Åke Tilly bo.axelsson@eksjo.se / hansake.tilly@eksjo.se		
Göteborg	Christer Lundgren christer.lundgren@renova.se		
Halmstad	Lars Jacobsson lars.jacobsson@rhb.halmstad.se	Halmstad kommun 95	
Haninge	Sten Gustavsson sten.gustavsson@vattenfall.com		
Hässleholm	Alf Persson alf.persson@hassleholm.se	Hässleholm Fjärrvärme AB 7770	Tippvägen 7 281 41 Hässleholm
Jönköping	Inger Andersson inger.andersson@en.jonkoping.se	Jönköping Energi AB	Jönköping Energi AB Box 5150 550 05 JÖNKÖPING
Karlskoga	Lennart Johansson lennart.johansson@karlskogaenergi.se	50 125000	BOX 155 691 23
Karlstad	Peter Lind peter.lind@karlstad.se	Karlstads Energi AB	 651 84 KARLSTAD
Kil	Jan-Erik Dahlström jan-erik.dahlstrom@kils-energi.se		
Kiruna	Kenneth Larsson kenneth.larsson@tekniskaverkenikiruna.se		
Kumla	Raimo Huhtala raimo.huhtala@sydkraft.se		
Köping	Sven Englund sven.englund@vafabmiljo.se	Vafab Miljö AB 47000	 721 87 Västerås
Landskrona	Bengt Hansson bengt.hansson@tv.landskrona.se		
Lidköping	Jan-Eric Isaksson jan-eric.isaksson@lidkoping.se		
Linköping	Henrik Lindståhl henrik.lindstahl@tekniskaverken.se		
Ljungby	Peter Salomonsson peter.salomonsson@ljungby-energi.se	Ljungby Energi AB	BOX 262 341 25 Ljungby
Malmö	Jonas Eek jonas.eek@sysav.se	Sysav 650000	Box 503 44 202 13 Malmö

Sweden

General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Mora	Utmelandsverket www.sydkraft.se	Box 183 792 23 Mora	+46 250 297 01 +46 250 297 19
Norrköping	Sydkraft P14 AB, Händelöverket www.eon.se	Sydkraft Östvärme AB 601 71 NORRKÖPING Energigatan 5	+46730499301 +46 011 23 44 91
Stockholm	Högdalenverket i Stockholm www.fortum.se	Kvicksundsvägen 16 124 59 Bandhagen	+46 08 671 70 00 +46 08 671 82 82
Sundsvall	Korstaverket i Sundsvall www.sundsvallenergi.com	Sundsvall Energi Box 823 851 23 Sundsvall	+46 060 19 22 00 +46 060 56 64 43
Södertälje	Igelstaverket www.soderenergi.se	Nynäsvägen 43 152 07 Södertälje	+46 08 553 05 500 +46 08 553 05 690
Uddevalla	Lillesjöverket www.uddevallaenergi.se	Uddevalla Energi AB Strömberget 451 81 UDDEVALLA	+46 0522 69 60 00 +46 0522 69 62 00
Umeå	Ålidhemsanläggningen och Dåva kraftvärmeverk www.umeaenergi.se	Doktorsvägen 6, Energivägen 1 Box 224, 901 05 UMEÅ	+46 90 16 38 00 +46 90 16 48 77
Uppsala	Vattenfall Värme Uppsala AB www.vattenfall.se	Vattenfall Värme AB 753 82 Uppsala	+46 018 26 90 00 +46 018 14 66 57
Västervik	Stegeholmsverket i Västervik www.vastervik.se	Västerviks Värmeverk AB Värmeverksgatan 5 593 50 Västervik	+46 0490 25 70 20 +46 0490 25 70 21

Sweden

General Information

Location	**Contact Person** **E-mail**	**Owner of plant** **No. of inhab. served**	**Owners** **Address**
Mora	Kjell-Åke Wallström, Sydkraft MälarVärme kjell-ake.wallstrom@sydkraft.se	SAKAB EcoPlus AB 45 000	205 09 Malmö
Norrköping	Bengt Heikne bengt.heikne@eon.se	Sydkraft Östvärme AB	Energigatan 5 601 71 Norrköping
Stockholm	Julia Sundberg, Fortum julia.sundberg@fortum.com	AB Fortum Värme samägt med Stockholms stad	115 77 STOCKHOLM
Sundsvall	Maria Vamling maria.vamling@serva.se		
Södertälje	Katarina Ferbeek katarina.ferbeek@soderenergi.se	Söderenergi AB	Box 7074 152 07 Södertälje
Uddevalla	Bo Kvartsberg bo.kvartsberg@uddevallaenergi.se	Uddevalla Energi AB 30 000	Strömberget 451 81 Uddeavalla
Umeå	Ulf Kullh ulf.kullh@umeaenergi.se	Umeå Energi AB ca 73 000	Box 224 901 05 UMEÅ
Uppsala	Hans Sollenberg hans.sollenberg@vattenfall.com		
Västervik	Bo Thunström bo.thunstrom@vastervik.se		

Sweden

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Avesta	1	1980		3	10	M	Bruun & Sørensen	HW	Maskinverken	/	1935
	2	1980		3	10	M	Bruun & Sørensen	HW	Maskinverken	/	0
	3			9	10	M	Babcock &Vilcox Völund	HW	Babcock %Vilcox Völund		7168
Boden	1	1997		8	14	M	Generator/Völund	WW			7200
Bollnäs	1	1983		5	10,1	FB	Generator	HW	Generator	200/21	4224
	2	1983		5	10,1	FB	Generator	HW	Generator	200/21	4484
Borlänge	1	1982		5,5	12,5	M	K+K Noell	HW	Maskinverken	/	6500
Eksjö	1										
Göteborg	1	1972	2001	15	9,4	M	von Roll	S	(Kvaener) von Roll, Generator AB	212/20	7725
	4	1994		22	10,9	M	von Roll		Kvaener	400/40	7752
	5	1995		22	10,9	M	von Roll		Kvaener	400/40	7509
	6	2001		15	10,9	M	MARTIN GmbH		MARTIN Gmbh	400/40	
Halmstad	1	1971		5	11,5	M	Martin	HW	Martin/Generator		4215
	2	1971		5	11,5	M	Martin	HW	Martin/Generator		3705
	3	2003		15	12	M	Fisia Babcock Environment GmbH	HW	Fisia Babcock Environment GmbH	400/40	7489
Haninge	1	1968		25	17	M		WW		/	
Hässleholm	1	2003	-	ca 5		roster	Vølund	S	Vølund	217/16	7400
Jönköping	1	2006		20	11	M	FBE	S	FBE	380/40	
Karlskoga	1	1986	-	5	9,7	M	Noell	S	Götaverken	300/25	8100
Karlstad	1	1986		7	11,3	M	Noell	HW	Generator	/	8080
	2	1986		7	10,5	M	Babcook & Wilcox Völund Aps ('02)	HW	Generator ('86) / Conv. B&WV ('02)		
Kil	1										
Kiruna	1	1985		2,2	6,1	m	Völund			/	
	2	1985		2,2	6,1	M	Völund			/	
Kumla	1										
Köping	1									/	
	2	1972		5	10,5	M	Kockum	HW	ÅPS	/	7141
Landskrona	1										
Lidköping	1	1985		6	10	FB	Kvaerner	HW	Kvaerner	/	
	2	1984		6	10	FB	Kvaerner	HW	Kvaerner	/	
Linköping	1	1981		5,7	10,44	M	von Roll	S	Generator	/	7923
	2	1982		9,3	10,44	M	von Roll	S	Generator	/	7712
	3	1983		9,5	10,44	M	von Roll	S	Generator	/	7544
Ljungby	1										6271
Malmö	1	1973		12	10,2	M	Martin	HW	Wehrle Werk	/	6765
	2	1973		12	10,2	M	Martin	HW	Wehrle Werk	/	7535
	3	2003		25	12,5	M	Martin	S	Wehrle Werk	400/40	7631
Mora	1	1981		3,15	8	M	B&S	WW	Danstoker	/	8344

Sweden

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Avesta	1	ESP, FF, WET	1980			ABB	65
	2	ESP, FF, WET	1980			ABB	65
	3	ESR,FF,WET	2002		1988	ABB	65
Boden	1	Wet,ESP,SNCR,FGS			1997	Pronea Miljöteknik/ FLS Miljö	55
Bollnäs	1	FF,WET,SNCR				AAF, Radscan Intervex	170
	2	FF,WET,SNCR				AAF, Radscan Intervex	170
Borlänge	1	FGC+FF	1982	Elex, industrifilter	90 /	Fagersta Energetics, ABB	90
Eksjö	1						
Göteborg	1	SNCR+ESP+WET FGC+FF		Svenska Fläkt AB	1988	von Roll+Svenka Fläkt AB+Götaverken+ABB	100
	4	SNCR+ESP+WET FGC+FF		Rothemuhle	1989	von Roll+Svenka Fläkt AB+Götaverken+ABB	95
	5	SNCR+ESP+WET FGC+FF		Rothemuhle	1989	von Roll+Svenka Fläkt AB+Götaverken+ABB	95
	6	SNCR+ESP+WET FGC+FF		Rothemuhle	1988	von Roll+Svenka Fläkt AB+Götaverken+ABB	95
Halmstad	1	ESP/FF/WET/FGC				Götaverken Fagersta	65
	2	ESP/FF/WET/FGC				Götaverken Fagersta	65
	3	ESP/WET/FF/SCR				Fisia Babcock Environment GmbH	90
Haninge	1	DRY				ABB Fläkt	120
Hässleholm	1	SNCR + FF + (DRY; NID)	2003	-	2003	ALSTOM (FF, NID) & PETRO (SNCR)	130 -150
Jönköping	1	DRY/FF(NID)/WET/SNCR/FGC			2006	Alstom	<65
Karlskoga	1	DRY			1993	ABB, Fläkt	135
Karlstad	1	FF				ABB/Fläkt	135
	2	FF ('86) + FGC ('04)			1986	ABB Fläkt ('86) + Götaverkan Miljö AB ('04)	35
Kil	1						
Kiruna	1	Wet				Götaverken Miljö	70
	2	Wet				Götaverken Miljö	70
Kumla	1						
Köping	1	NO INFO					110
	2	FF				Fläkt	110
Landskrona	1						
Lidköping	1	DRY				IF	140
	2	DRY				IF	140
Linköping	1	WET+ESP+FF				Fagersta Energetiks, Rothemühle, Fläkt	70
	2	WET+ESP+FF				Fagersta Energetiks, Rothemühle, Fläkt	70
	3	WET+ESP+FF				Fagersta Energetiks, Rothemühle, Fläkt	70
Ljungby	1						
Malmö	1	DRY+WET+FF+SNCR			2005	ABB+Götaverken	80
	2	DRY+WET+FF+SNCR			2005	ABB+Götaverken	80
	3	WET+ESP+SCR	2003	Rotemühle	2003	LAB + SA	70
Mora	1	DRY				Fläkt	140

Sweden

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Norrköping	1	2002		24	12,6	CFB	Kvaerner Power	S	Kvaerner Power	470/65	6667
Stockholm	1	1970		11	10	R	VKW	S		430/35	7706
	2	1970		11	10	R	VKW	S		430/35	6930
	3	1986		15	10	M	Martin	S		430/35	7662
	4	2000		34	10	CFB	Foster Wheeler	S		480/60	6313
	5	2005		34	10	M	Völund	S		430/35	-
Sundsvall	1	1984		6		CFB	Götaverket	S	Götaverket	/	
Södertälje	1	(1982) 1994			18,5	M	Alström	HW	Svenska Maskinverken ombyg av Noell	/	7115
Uddevalla	1	2009		11	12,6	Moveable		S		400°C / 40	
Umeå	1										
	3	1985		7,8		M	K+K	HW	Götaverken		5359
	4	2000		20		M	von Roll	S	von Roll	400/40	6910
Uppsala	1	1983		15	11	M	W+E	S	BWE	200/16	
	2	1965		5	11	M	Völund	S	SMV	200/16	
	3	1971		5	11	M	B&S	S	SMV	200/16	
	4	1982		10	11	M	W+E	S	BWE	200/16	
Västervik	1										

Sweden

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Norrköping	1	O, NID+SNCR on boiler			2002	Alstom	145
Stockholm	1	DRY, WET, FF, FGC				ABB Fläkt	80
	2	DRY, WET, FF, FGC				ABB Fläkt	80
	3	DRY, WET, FF, FGC				ABB Fläkt	80
	4	DRY, WET, FF, FGC				ABB Environmental Systems	80
	5	ESP,WET,FGC		LAB		LAB	80
Sundsvall	1	FF				Sv Fläkt	
Södertälje	1	ESP+SD+FF				Fläkt	30
Uddevalla	1	WET,ESP, SCR, FGC	2009		2009		
Umeå	1						
	3	DRY+FF				Svenska Fläkt	135
	4	SNCR+DRY+FF+WET+FGC				Götaverken	60
Uppsala	1	ESP+WET+FF				FLS+Fagersta+ABB	60
	2	ESP+WET+FF				FLS+Fagersta+ABB	60
	3	ESP+WET+FF				FLS+Fagersta+ABB	60
	4	ESP+WET+FF				FLS+Fagersta+ABB	60
Västervik	1						

Sweden

Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Avesta	46800	25600	21300					
Boden	58000	48000	10000					
Bollnäs	37099	25963	11136					
Borlänge	34951	13353	21598					
Eksjö	19080							
Göteborg	433700							O:581000
Halmstad	146804	76396	68714		1224		470	O:580000
Haninge	14110							
Hässleholm	34137	22044	12093					
Jönköping								
Karlskoga	42600	30000	10400			200		
Karlstad	50408							O:519000
Kil								
Kiruna	53120							
Kumla	136970							
Köping	25653	13478	12175					
Landskrona	30330							
Lidköping	82000							
Linköping	217214							O:2315 B:6824
Ljungby		40550		2000				O:119000
Malmö	385879	202206	156160			1700	25813	O:270000 G:490
Mora	16455	11500	4955	0	0	0	0	
Norrköping	163700	98535	59091					O:1117000 B:6074
Stockholm	520221	339306	180915					O:1565000 B:5788
Sundsvall	44790							
Södertälje	249211		113538	135673				O:486000
Uddevalla								
Umeå	188074							O:795000
Uppsala								
Västervik	46600							

Sweden

Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Avesta	7600	1124			136000			
Boden	10000	1000			158000		247000	
Bollnäs	1883	4393	16200		81806	16180		118884
Borlänge	3703	609			116382			116382
Eksjö				3670	47650			
Göteborg	77532	14915		213150	1172660		153351	1057672
Halmstad	2490	373		55277	344173		41014	283658
Haninge				0	61950			
Hässleholm	5659	1378		4536	92136			
Jönköping								
Karlskoga								
Karlstad	7794	1610			144217			144217
Kil								
Kiruna				11430	98890			
Kumla				41340	229210			
Köping	4461	458			75149			75149
Landskrona				0	103070			
Lidköping				11400	227770			
Linköping	46639	6570		14463	634688		0	568050
Ljungby	6177	802		6500	79500		4030	70000
Malmö	82680	15996		137677	1030136		107516	996962
Mora	2634	378	0	0	41494	0		39860
Norrköping	14920	13805		57717	352319		40252	349197
Stockholm	63666	27287		219700	1404900			
Sundsvall				19570	90870			
Södertälje	12000	25000	75000		938086	75000		1810451
Uddevalla								
Umeå	30181	6810		64658	470189		30886	457590
Uppsala								
Västervik				0	116220			

Number of plants:	30
Average capacity:	16 t/h
Quantity treated 2004:	3.025.000 t

Switzerland
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Aire-la-ville	UIOM Cheneviers www.sig-ge.ch	Route de Verbois 40 1288 Aire-la-ville	+41 22 727 41 11 +41 22 727 41 12
Basel	KVA Basel www.iwb.ch	Margarethenstrasse 40 4008 Basel	+41 61 275 51 11 +41 61 322 61 71
Bazenheid	KVA Bazenheid www.zab.ch	Zwizach 9602 Bazenheid	+41 71 932 12 12 +41 71 932 12 10
Bern	KVA Bern www.ewb.ch	Warmbächliweg 2 3008 Bern	+41 31 321 95 11 +41 31 321 95 95
Biel	KVA Biel www.mueve.ch	Portstrasse 40 2503 Biel	+41 032 366 50 70 +41 032 366 50 75
Brig-Gils	KVA Oberwallis n.a.	Kiesweg 1 3900 Gamsen	+41 027 923 12 33 +41 027 923 09 50
Buchs AG	KVA Buchs AG www.kva-buchs.ch	Postfach 5033 Buchs AG	+41 62 834 77 00 +41 62 834 77 01
Buchs SG	KVA Buchs SG www.vfa-buchs.ch	Langäulistrasse 24 9470 Buchs SG	+41 81 756 73 91 +41 81 756 16 84
Colombier	UIOM Colombier www.saiod.ch	Cottendart 2013 Colombier	+41 32 843 82 11 +41 32 843 82 10
Dietikon	KVA Limmattal www.kvldietikon.ch	Reservatstrasse 5 8953 Dietikon	+41 44 745 64 64 +41 44 745 64 60
Emmenbrücke	KVA Luzern www.kva-luzern.ch	Reusseggstrasse 15 6020 Emmenbrücke	+41 41 429 12 12 +41 41 429 12 13
Horgen	KVA Horgen www.kvahorgen.ch	Zugerstrasse 165 8810 Horgen	+41 44 718 24 24 +41 44 718 24 44
Kezo	KVA Hinwil www.kezo.ch	Wildbachstrasse 2 8340 Hinwil	+41 44 938 31 02 +41 44 938 31 08
La Chaux-de-Fonds	UIOM La Chaux-de-Fonds www.cridor.ch	Rue du Collège 31 2300 La Chaux-de-Fonds	+41 32 967 6801 +41 32 967 6656
Lausanne	UIOM Lausanne www.lausanne.ch/assainissement	Place du Vallon 7 1005 Lausanne	+41 021 315 79 61 +41 021 315 79 65
Lausanne	Centre TRIDEL www.lausanne.ch/assainisement	Rue du Vallon 35 1005 Lausanne	+41 21 315 79 11 +41 21 315 79 65
Monthey	UIOM Monthey www.satom-monthey.ch	Zone Industrielle Boeuferrant 1870 Monthey	+41 24 427 77 77 +41 24 427 82 02
Niederurnen	KVA Linthgebiet www.kva-linthgebiet.ch	im Fennen 1A 8867 Niederurnen	+41 55 617 2740 +41 55 617 2749
Oftringen	KVA Oftringen www.erzo.ch	Alte Strasse 40 4665 Oftringen	+41 62 789 50 25 +41 62 789 50 22
Posieux	UIOM Fribourg www.saidef.ch	Route de Châtillon 70 1725 Posieux	+41 26 409 73 33 +41 26 409 73 39
St. Gallen	KVA St. Gallen www.kva.stadt.sg.ch	Rechenwaldstrasse 30 9014 St. Gallen	+41 71 274 31 11 +41 71 274 31 10
Thun	KVA Thun www.avag.ch	Allmendstrasse 166 3600 Thun	+41 33 226 56 56 +41 33 226 56 10

Switzerland
General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Aire-la-ville	Hervé Guignand herve.guignand@sig-ge.ch	Service de l'environnement, SIG n.a.	Case postale 25 1288 Aire-la-ville
Basel	Jörg Stolz joerg.stolz@iwb.ch	Industrielle Werke Basel 700'000	Margarethenstrasse 40 Basel
Bazenheid	Dr. Rainer Heiniger info@zab.ch	Zweckverband Abfallverwertung Bazenheid ZAB 165'000	Zwizach 9602 Bazenheid
Bern	Peter Magnaguagno info@ewb.ch	Fernwärmeversorgung und Kehrichtverwertung 310'000	Monbijoustrasse 11, Postfach 3001 Bern
Biel	Stephan Birbaumer info@mueve.ch	Müve Biel-Seeland AG 131'480	Portstrasse 40 2503 Biel
Brig-Gils	Kurt Ruppen n.a.	Gemeindeverband Oberwallis für die Abfallbewirtschaftung 66'000	Postfach 679 3900 Brig-Gils
Buchs AG	Hans Suter info@kva-buchs.ch	Gemeindeverband für Kehrichtbeseitigung GEKAL 255'000	Postfach 5033 Buchs AG
Buchs SG	Karl Hollenstein vfa-buchs@rheintal.ch	Verein für Abfallbeseitigung VFA 170'000	Langäulistrasse 24 9470 Buchs SG
Colombier	Giovanni Tarantino info@saiod.ch	S.A. pour l'incinération des ordures et déchets, SAIOD 169'000	Cottendart 2013 Colombier
Dietikon	E. Schönmann info@kvldietikon	Kläranlageverband Limmattal 150'000	Reservatstrasse 5 8953 Dietikon
Emmenbrücke	Meyer Jürg info@kva-luzern.ch	Gemeindeverband für Kehrichtbeseitigung Region Luzern 196'000	Reusseggstrasse 15 6020 Emmenbrücke
Horgen	Romano Wild Info@kvahorgen.ch	Zweckverband für Abfallverwertung im Bezirk Horgen 90'000	Zugerstrasse 165 8810 Horgen
Kezo	Daniel Böni info@kezo.ch	KEZO Kehrichtverbrennungsanlage Zürcher Oberland 295'000	Wildbachstrasse 2 8340 Hinwil
La Chaux-de-Fonds	Emmanuel Maitre info@cridor.ch	Centre régional d'incinération des ordures, CRIDOR 169'000	Rue du Collège 31 2300 La Chaux-de-Fonds
Lausanne	Armand Claus armand.claus@lausanne.ch	Usine d'incinération des ordures ménagères 147'000	Place du Vallon 7 1005 Lausanne
Lausanne	Armand Claus armand.claus@lausanne.ch	TRIDEL SA 147000	Rue des Terreaux 33 1000 Lausanne 9
Monthey	Blatter Edi info@satom-monthey.ch	SATOM 230'000	Zone Industrielle Boeuferrant 1870 Monthey
Niederurnen	Rico Bertini info@kva-linthgebiet.ch	KVA Linthgebiet 240'000	im Fennen 1A 8867 Niederurnen
Oftringen	Thomas Müller info@erzo.ch	Entsorgung Region Oftringen 188'000	Alte Strasse 40 4665 Oftringen
Posieux	René Lambert info@saidef.ch	SAIDEF 280'000	1725 Posieux Posieux
St. Gallen	Markus Walser kva.sg@stadt.sg.ch	Entsorgungsamt der Stadt St. Gallen 210'000	Rechenwaldstrasse 30 9014 St. Gallen
Thun	Heiner Straubhaar info@avag.ch	AG für Abfallverwertung AVAG 315'000	Allmendstrasse 166 3600 Thun

Switzerland
General Information

Location	Name of Plant Web-site	Address of Plant	Phone Fax
Turgi	KVA Turgi www.kvaturgi.ch	Region Baden-Brugg 5300 Turgi	+41 56 201 9111 +41 56 223 26 65
Untervaz	KVA Trimmis n.a.	 7201 Untervaz-Bahnhof	+41 81 300 01 90 +41 81 300 01 99
Uvrier	UIOM Uvrier uto.direction@tvs2net.ch	Promenade des Berges 10 1958 Uvrier	+41 27 203 19 41 +41 27 203 61 34
Weinfelden	KVA Thurgau www.kvatg.ch	Rüteliholzstrasse 5 8570 Weinfelden	+41 71 626 96 00 +41 71 626 96 10
Winterthur	KVA Winterthur www.energie-winterthur.ch	Scheideggstrasse 50 8404 Winterthur	+41 052 233 16 21 +41 052 232 45 10
Zuchwil	KVA Zuchwil www.kebag.ch	Emmenspitz 4528 Zuchwil	+41 32 686 54 54 +41 32 686 54 40
Zürich	ERZ Heizkraftwerk Hagenholz www.erz.ch	Hagenholzstrasse 110 8050 Zürich	+41 44 645 77 77 +41 44 645 77 78
Zürich	ERZ Heizkraftwerk Josefstrasse www.erz.ch	Josefstrasse 211 8005 Zürich	+41 044 645 77 77 +41 044 645 77 78

Switzerland
General Information

Location	Contact Person E-mail	Owner of plant No. of inhab. served	Owners Address
Turgi	Peter Ender info@kvaturgi.ch	Gemeindeverband Kehrichtverwertung 190'000	5300 Turgi 5300 Turgi
Untervaz	Jürg Looser gevag@grischavision.ch	GEVAG Gemeindeverband für Abfallentsorgung in GR 120'000	7201 Untervaz-Bahnhof
Uvrier	Jules Dayer uto.administration@tvs2net.ch	Usine de traitement des ordures UTO 110'000	Promenade des Berges 10 1958 Uvrier
Weinfelden	Peter Schmid staeheli@kvatg.ch	Verband KVA Thurgau 189'000	Rüteliholzstrasse 5 8570 Weinfelden
Winterthur	Eugen Meile eugen.meile@win.ch	Städtische Werke Winterthur 300'000	Scheideggstrasse 50 8404 Winterthur
Zuchwil	Hans Häfeli info@kebag.ch	KEBAG Kehrichtbeseitigungs-AG 250'000	Emmenspitz 4528 Zuchwil
Zürich	Oswald Looser info@erz.stzh.ch	Entsorgung und Recycling Zürich 320'000	Hagenholzstrasse 110 8050 Zürich
Zürich	Oswald Looser info@erz.stzh.ch	Entsorgung und Recycling Zürich incl. in 0	Hagenholzstrasse 110 8050 Zürich

Switzerland

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Aire-la-ville	1										4648
	3	1978	n.a.	14	13,1	M	Martin	S	Wehrle	400/40	7398
	5	1993	n.a.	18	11,6	M	Von Roll	S	ABB	400/40	
	6	1993	n.a.	18	11,6	M	Von Roll	S	ABB	400/40	
Basel	1										
	2	1998	n.a.	14	12,1	M	ABB	S	ABB	400/40	8177
	3	1998	n.a.	14	12,1	M	ABB	S	ABB	400/40	8164
Bazenheid	1	1976	n.a	3,5	12,5	M	Martin	S	Wamser	210/20	8000
	2	1976	n.a.	3,5	12,5	M	Martin	S	Wamser	210/20	8000
	3	1984	n.a.	3,5	12,5	M	Martin	S	Sulzer	210/20	8000
Bern	1	1975	n.a	7,5	9,6	M	Von Roll	S	Wamser	400/60	7800
	2	1975	n.a.	7,5	9,6	M	Von Roll	S	Wamser	400/60	7800
Biel	1	1991	n.a.	4,89	14,4	M	Noell	S	Baumgartner	350/25	8439
Brig-Gils	1										0
	2	1998	n.a.	5	n.a.	M	Noell	S	Noell KRC	/	7500
Buchs AG	1	1994	n.a	8	12,6	M	Martin	S	Martin	400/40	8205
	2	1984	2010	7,2	12,6	M	Martin	S	Martin	400/40	8200
Buchs SG	1	1974/2002	n.a.	6,6	9,6	M	Von Roll	S	KRB	400/40	4000
	2	1982	n.a.	6,6	10,1	M	W+E	S	Wamser	400/40	8005
	3	1995	n.a.	9	10,44	M	Von Roll	S	Sulzer	400/40	8015
Colombier	1	1991	n.a.	3,7	14,2	M	Noell	S	Wamser	/	8052
	2	1988	n.a.	3,7	14,2	M	Noell	S	Lentjes	/	7958
Dietikon	1	1993	n.a.	4,73	13,3	M	Martin	S	Sulzer	400/40	n.a.
	2	1995	n.a.	4,73	13,3	M	Martin	S	Sulzer	400/40	n.a.
Emmenbrücke	1	1989/1998	n.a.	3	12	M	Stiefel	S	Sulzer	/	8190
	2	1988/1997	n.a.	3	12	M	Stiefel	S	Sulzer	/	8280
	3	1983/1999	n.a.	4	12,6	M	Stiefel	S	Sulzer	/	7820
Horgen	1	1993	n.a.	3	9,3	M	NOELL	S	NOELL	/	8200
	2	1991	n.a.	4	9,6	M	NOELL	S	NOELL	/	8200
Kezo	1	1996	n.a.	11,3	12,6	M	Martin	S	ABB	/	7440
	2	1976	n.a.	6,25	12,5	M	Martin	S	Sulzer	/	1577
	3	1976	n.a.	6,25	12,5	M	Martin	S	Sulzer	/	5441
La Chaux-de-Fonds	1	1994	n.a.	6,3	12,6	M	Martin	S	ABB	360/40	8000
Lausanne	1	2006	n.a.	10	14,4	M	Von Roll Inova	S	Duro Dakovic	400/50	8000
Lausanne	1	1958	2006	2,8	12,3	M	Von Roll	S	SLM	250/20	8200
Lausanne	2	2006	n.a.	10	14,4	M	Von Roll Inova	S	Duro Dakovic	400/50	8000
Lausanne	2	1958	2006	2,8	12,3	M	Von Roll	S	SLM	250/20	8400
Monthey	1	2003	n.a.	10,5	13,1	M	Martin	S	Wehrle	/	6320
	2	1996	n.a.	10,5	12,9	M	Martin	S	Wehrle	/	7712
Niederurnen	1	2000	n.a.	7,5	12,7	M	Stiefel	S	ABB	390/38	8000
	2	1984	n.a.	7,5	12,7	M	Martin	S	Wehrle	390/38	8000
Oftringen	1	1992	n.a.	8	11,6	M	Noell	S	Wamser	400/40	8000
Posieux	1	2001	n.a.	11,4	12,6	M	Martin	S	Wehrle	/	7700
St. Gallen	1	1987	n.a.	5,2	9,7	M	Martin	S	Wehrle	400/40	8170
	2	1988	n.a.	5,2	9,7	M	Martin	S	Wehrle	400/40	8360
Thun	1	2004	n.a.	13	12,6	M	Von Roll	S	Wehrle	400/40	8000

Switzerland

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Aire-la-ville	1						
	3	WET SCR		Fläkt	1995	Lurgi / CTU	60
	5	WET SCR		Lurgi	1993	Lurgi / CTU	60
	6	WET SCR		Lurgi	1993	Lurgi / CTU	60
Basel	1						
	2	WET	1998	Deutsche Babcock	1998	Lab	60
	3	WET	1998	Deutsche Babcock	1998	Lab	60
Bazenheid	1	WET	2002	ELEX	1991	Lurgi	60
	2	WET	2001	ELEX	1991	Lurgi	60
	3	WET	1984	ELEX	1991	Lurgi	60
Bern	1	WET SNCR	1975	Rothemühle	1985	GFE Von Roll	60
	2	WET SNCR	1975	Rothemühle	1986	GFE Von Roll	60
Biel	1	WET SCR	1976	Lurgi	1991	Lurgi / ELEX	60
Brig-Gils	1						
	2	WET SCR	1998	Lurgi	1998	Lurgi	
Buchs AG	1	WET SCR	1994	ELEX	1992	Babcock - AEE_Sulzer	60
	2	WET SCR	1984	ELEX	1992	Babcock - AEE-Sulzer	60
Buchs SG	1	WET SNCR	1974	ELEX	1988	Von Roll	60
	2	WET SNCR	1982	ELEX	1988	Von Roll	60
	3	WET SNCR	1995	ELEX	1988	Von Roll	60
Colombier	1	WET SNCR	1991	Lurgi Fabric Filter	1991	Von Roll	60
	2	WET SNCR	1988	Lurgi Fabric Filter	1988	Von Roll	60
Dietikon	1	WET SNCR	1993	ELEX	1995	Von Roll	60
	2	WET SNCR	1995	ELEX	1995	Von Roll	60
Emmenbrücke	1	WET SCR	1989	Lurgi	1996	ABB-Fläkt	60
	2	WET SCR	1988	Lurgi	1996	ABB-Fläkt	60
	3		1983	Lurgi			
Horgen	1	WET SCR	1990	NOELL	1990	NOELL/KRC	60
	2	WET SCR	1991	KRC	1991	NOELL/KRC	60
Kezo	1	WET SCR	1996	ELEX	1996	Sulzer / ELEX	120
	2	WET SCR	1990	ELEX	1991	Sulzer / ELEX	120
	3	WET SCR	1990	ELEX	1991	Sulzer / ELEX	120
La Chaux-de-Fonds	1	WET SCR	1994	NOELL	1999	LAB	60
Lausanne	1	WET - SCR	2006	ELWO	2006	Von Roll Inova	150
Lausanne	1	WET	1958	ELEX	1982	LAB	60
Lausanne	2	WET - SCR	2006	ELWO	2006	Von Roll Inova	150
Lausanne	2	WET	1958	ELEX	1982	LAB	60
Monthey	1	WET SCR	1989	ELEX	1998	LAB	
	2	WET SCR	1989	ELEX	1996	LAB	
Niederurnen	1	WET SCR and wet ESP	2000	ABB	2000	AEE - CTU	60
	2	WET SCR and wet ESP	2000	ELEX	2000	AEE - CTU	60
Oftringen	1	WET SCR	1992	ELEX	1998	LAB	
Posieux	1	WET SCR	2001	Walther	2001	LAB	60
St. Gallen	1	WET	1987	ELEX	1987	Von Roll	60
	2	WET	1988	ELEX	1988	Von Roll	60
Thun	1	WET SCR	2004	ELEX	2004	Von Roll	130

Switzerland

Technical Information on the Plant

Location	Line	Establ.	Closure	Capac.	Nom CV	Furnace		Boiler		Steam Data	Hours of
	No.	Year	Year	t/h	GJ/t	Type	Supplier	Type	Supplier	oC/bar	Operat.2004
Turgi	1										7160
	3	1983	n.a.	4,6	13,3	M	ABB	S	Wamser	400/40	
	4	1996	n.a.	8,3	13,9	M	ABB	S	ABB	400/40	
Untervaz	1	1990	n.a.	6,4	12	M	ABB/W+E	S	Sulzer	400/40	8300
	2	2005	n.a.	7,8		M	Stiefel	S	Wehrle	400/40	0
Uvrier	1	1971	n.a.	3,5	9,48	M	De Bartolomeis	S	Wehrle	340/32	
	2	1976	n.a.	4	7,11	M	De Bartolomeis	S	Wehrle	340/32	
Weinfelden	1	1996	n.a.	8,4	12,6	M	ABB Enertech	S	ABB Enertech	400/40	8100
	2	1997	n.a.	8,4	12,6	M	ABB Enertech	S	ABB Enertech	400/40	8100
Winterthur	1	1978	n.a.	12,5	10,4	M	Martin	S	Sulzer	400/40	7500
	2	1993	n.a.	12,5	12	M	Martin	S	Sulzer / ABB	400/40	7500
Zuchwil	1	1993	n.a.	10	10,3	M	Von Roll	S	Sulzer	375/37	6575
	2	1992	n.a.	10	10,3	M	Von Roll	S	Sulzer	375/37	6343
	3	1990	n.a.	11	10,3	M	Von Roll	S	Sulzer	375/37	6730
	4	2002	n.a.	10	10,3	M	Von Roll	S	Alstom	375/37	6008
Zürich	1										n.a.
Zürich	1	1995	n.a	13,9	11,3	M	W+E	S	Wehrle	420/37	n.a.
	2	1978	n.a.	13,4	11,7	M	Martin	S	EVT	420/37	n.a.

Switzerland

Technical Information on the Plant

Location	Line No.	Flue Gas Cleaning System	ESP Year	ESP Supplier	Flue Gas Cleaning Year	Flue Gas Cleaning Supplier	Flue Gas Temp., °C
Turgi	1						
	3	WET	1983	ELEX	1989	Lurgi	60
	4	WET	1996	ELEX	1996	Von Roll	60
Untervaz	1	WET SCR and wet ESP	1990	Lurgi	1988	Lurgi	140
	2	WET SCR and wet ESP	2005	ELEX	2005	Lurgi	
Uvrier	1	WET SCR	1994	ELEX	1994	LAB one unit for line 1 & 2	80
	2	WET SCR	1994	ELEX	1999	LAB one unit for line 1 & 2	
Weinfelden	1	WET	1996	RCD	1996	AEE - CTU	160
	2	WET	1997	RCD	1997	AEE - CTU	160
Winterthur	1	WET SNCR	1978	Bischoff	1993	Von Roll/Sulzer	60
	2	WET SNCR	1993	ELEX	1993	Von Roll/Sulzer	60
Zuchwil	1	WET SNCR	1976	Rothemühle	1993	Von Roll	60
	2	WET SNCR	1976	Rothemühle	1992	Von Roll	60
	3	WET SNCR	1990	Rothemühle	1990	Von Roll	60
	4	WET SNCR	2002	Rothemühle	2002	Von Roll	60
Zürich	1						
Zürich	1	WET SCR	1995	ELEX	1995	Von Roll / ELEX	120
	2	SD SCR	1978	ELEX	1986	Niro / ELEX	120

Switzerland
Operational data, 2004

Location	Total Incinerated Waste Quantity							Aux. Fuels
	Total (tonnes)	Household (tonnes)	Commercial /Industrial (tonnes)	RFD, Pellets (tonnes)	Sludge (tonnes)	Hospital Waste (tonnes)	Other (Specify) (tonnes)	O: Oil (l) G: Gas (Nm3) B: Biomass (t) S: Sundry (spec.)
Aire-la-ville	314002							
Basel	189624							
Bazenheid	75233							
Bern	109300							
Biel	40993							
Brig-Gils	27434							
Buchs AG	119500							
Buchs SG	71535							
Colombier	60513							
Dietikon	81180							
Emmenbrücke	84316							
Horgen	59242							
Kezo	163132							
La Chaux-de-Fonds	50552							
Lausanne	44117							
Lausanne	120000	50-100%	0-40%	0-20%	0-10%	0-10%	n.a.	
Monthey	98805							
Niederurnen	99400							
Oftringen	68362							
Posieux	88401							
St. Gallen	75362							
Thun	n.a.							
Turgi	113945							
Untervaz	50396							
Uvrier	52480							
Weinfelden	113097							
Winterthur	145327							
Zuchwil	196534							
Zürich	163613							
Zürich	148452							

Switzerland
Operational data, 2004

Location	Residues		Energy Produced			Energy Sold		
	Bottom Ash (tonnes)	Flue Gas Res. (tonnes)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)	Steam (tonnes)	Electricity (MWh)	Heat (MWh)
Aire-la-ville	72247	7095	1115625	172328		0	129092	0
Basel	34000	4720		43830	545083		19195	443091
Bazenheid	17000	2300		35600	350000		27000	25000
Bern	21500	2150	413700	30400	198000		12400	191100
Biel	8788	1419	164825	20208			14789	15507
Brig-Gils	n.a.	n.a.	n.a.	n.a.	n.a.		n.a.	
Buchs AG	23100	2670					47600	61500
Buchs SG	35000	5560	542000	100000		81000	80000	
Colombier	17000	2531	198367	31668	26530		21985	20771
Dietikon	20000	2500	n.a.	57000	n.a.	0	43000	18000
Emmenbrücke	18600	1520	265600	43800	43600	0	34500	43100
Horgen	n.a.	n.a.	130000	20000	71000		10000	47000
Kezo	35000	7000	680000	100000	308000		70000	20000
La Chaux-de-Fonds	10000	1200		27000	52000			
Lausanne	9846	1004	140502		93855	118108		78872
Lausanne	24600	2400	548000	n.a.	n.a.	0	0	0
Monthey	20800	4960	n.a.	60756	n.a.	0	45000	0
Niederurnen	n.a.	1000	190000	64000		0	50000	
Oftringen	18000	1900	200000	54000	160000	0	41000	0
Posieux	20000	6000		6500	65000		6000	55000
St. Gallen	19000	2200		34200	55000		24300	55000
Thun	20000	600	n.a.	n.a.		n.a.	n.a.	n.a.
Turgi	23433	2985	441500	86950			70260	36080
Untervaz	11300	800	213670	18118	160252	74702	9733	60122
Uvrier	10350	1260	153400	23700		0	14600	
Weinfelden	13885	n.a.	470000	46000	417000	164100	31000	183300
Winterthur	31750	4621	580000	80000	420000		62000	n.a.
Zuchwil	49606	N.A.	727168	656625			40807	233816
Zürich							32728	325711
Zürich							56993	107002

Number of plants:	89
Average capacity:	43 t/h
Quantity treated 2004:	28.700.000 t

The 2004 IWSA Directory Of Waste-To-Energy Plants

INTEGRATED WASTE SERVICES ASSOCIATION

By Jonathan V. L. Kiser
& Maria Zannes

The 2004 IWSA[1] Directory provides updated information about the U.S. Waste-to-Energy industry based on email and telephone surveys with individual facilities and waste-to-energy communities during January 2004 through April 2004. State and federal environmental agencies were also consulted.

There are 89 waste-to-energy facilities[2] operating in 27 states in the U.S. (See Table 1) generating the energy equivalent of nearly 2,700 megawatt-hours (MWh) of electricity and disposing of nearly 29 million tons of trash. Waste-to-energy facilities include the following technologies:

- **Mass Burn (MB)** waste-to-energy plants generate electricity and/or steam from trash by feeding mixed municipal waste into large furnaces dedicated solely to burning trash and producing power.
- **Refuse-Derived Fuel (RDF)** waste-to-energy plants remove recyclable or unburnable materials and shred or process the remaining trash into a uniform fuel. A dedicated combustor, or furnace, may be located on-site to burn the fuel and generate power; or the RDF may be transported off site for use as a fuel in boilers that also burn fossil fuels.
- **Modular (MCU)** waste-to-energy plants are similar to mass burn facilities, but the modular units typically are smaller, prefabricated off-site, and more quickly assembled where they are needed.

Waste-to-energy remains a steady, viable, and environmentally sound method to dispose of trash. Of the 89 waste-to-energy facilities, 65 employ mass burn technology; nine are modular plants; and 10 utilize the RDF process, including processing and combustion on-site. An additional five facilities were identified as generating

[1] Integrated Waste Services Association (IWSA) was formed in 1991 to promote integrated solutions to municipal solid waste management problems. Within this capacity, the association strives to encourage the use of waste-to-energy technology as a key component of community programs. IWSA Board members include American Ref-Fuel Company; Covanta Energy Corporation; Montenay Power Corporation; and Wheelabrator Technologies Inc.

[2] The Directory does not report on incinerators that combust trash but do not recover energy from waste.

TABLE 1

Operating U.S. Waste-to-Energy Plants by Technology

Technology	No. of Operating Plants	Daily Design Capacity (TPD)	Annual Capacity[1] (Million Tons)
Mass Burn	65	71,354	22.1
Modular	9	1,342	0.4
RDF–Processing & Combustion	10	15,428	4.8
RDF–Processing	5	6,075	1.9
RDF–Combustion	5	4,592	1.4
Total U.S. Plants[2]	94	98,791	30.6
Waste-to-Energy Facilities	89	92,716	28.7

[1] Annual Capacity equals daily tons per day (TPD) of design capacity multiplied by 365 (days/year) multiplied by 85 percent. Eighty-five percent of design capacity is a typical system guarantee of annual facility throughput.

[2] Total U.S. Plants include RDF Processing Facilities that do not generate power on-site.

Source: J. V. L. Kiser and M. Zannes, Integrated Waste Services Association, April 2004.

power from RDF that was processed at facilities off-site. Also, five facilities are listed in this Directory as processing RDF for combustion off-site. These processing facilities do not burn the RDF, nor is power generated on-site. Therefore, the RDF processing facilities are not included in waste-to-energy facility total of 89 plants.

Nearly 29 million tons of trash, or about 13 percent of America's solid waste, is being used as fuel to generate the energy equivalent to meet the power needs of nearly 1.98 million homes across the country.[3] Waste-to-energy plants have 2,493 megawatts (MW) of rated electricity generating capacity (i.e., 59,832 MWh of electricity output capability over a 24-hour period) and generate more than 2.5 million pounds of steam per hour. See Table 2.

TABLE 2

Key Facts Pertaining to Operating Waste-to-Energy Facilities

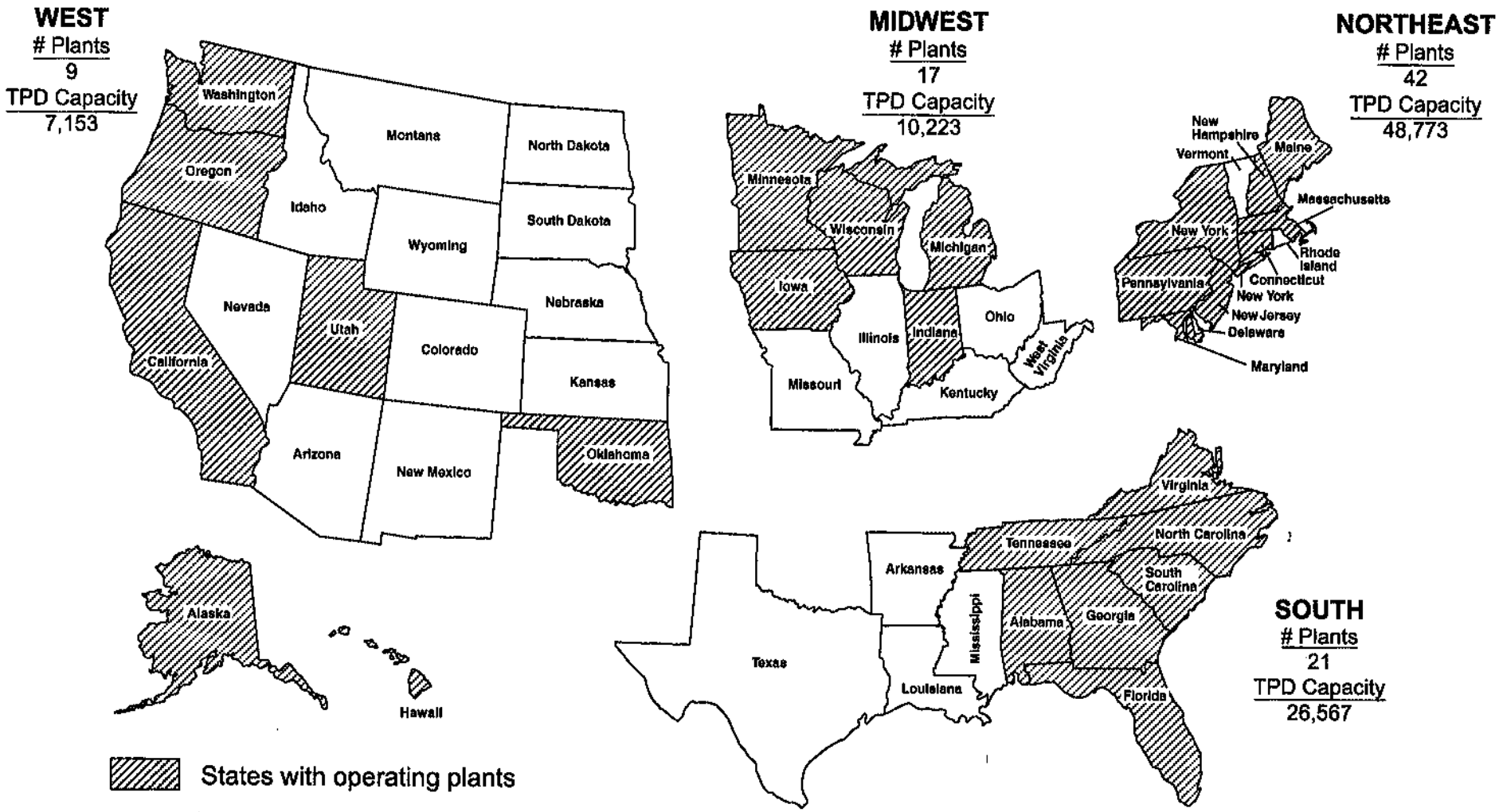
Percent of U.S. Waste Managed by Waste-to-Energy	13 percent
Annual Disposal Capacity of Waste-to-Energy Facilities	28.7 million tons
Number of Waste-to-Energy Facilities	89
Waste Disposal Needs Met by Waste-to-Energy	36 million people
States with Waste-to-Energy Plants	27
Homes Served by Power from Waste-to-Energy Facilities	1.98 million
Total Megawatts Generated[1]	2,689 MW

[1] Includes 2,493 MW of rated electricity generation capacity and the equivalent of 196 MW of rated generation capacity from steam-generating waste-to-energy facilities.

Source: J. V. L. Kiser and M. Zannes, Integrated Waste Services Association, April 2004.

[3] The power estimate is based on 2,493 MW of rated waste-to-energy electricity generating capacity, plus an estimated 196 MW of waste-to-energy electricity generating capacity derived from converting 2.51 million pounds of steam per hour currently generated by various waste-to-energy plants. Electrical consumption per household is based on Department of Energy, Energy Information Administration 2001 data that reports 993 kilowatt-hours (kWh)/household/month (i.e., 1.36 kWh/household/hr). This reflects an increasing demand for electricity per household over previous years and corresponds to a 50 MW waste-to-energy facility serving about 36,800 households.

Figure 1
Operating WTE Plants in the U.S. – By Region



Source: J. V. L. Kiser and M. Zannes, Integrated Waste Services Association, April 2004.

Energy and Greenhouse Gas Benefits of Waste-to-Energy in the U.S.

By Dr. Nickolas J. Themelis, Director, Earth Engineering Center, Columbia University, New York

America's waste-to-energy facilities convert non-recyclable trash to electricity and steam. Combusting one ton of trash in a modern waste-to-energy power plant supplies the grid with 500 kWh of electricity, thus avoiding mining a quarter of a ton of coal or importing one barrel of oil. Waste-to-energy also is the only alternative disposal method to landfill where the decomposing trash generates methane, a potent greenhouse gas, some of which escapes to the atmosphere. Taking into account both of these factors has led several independent studies, including one by U.S. E. P. A. researchers, to conclude that waste-to-energy reduces U.S. greenhouse gas emissions by an estimated 1.3 tons of carbon dioxide per ton of trash combusted in modern waste-to-energy facilities.

In 2003, nearly 30 million tons of trash were combusted in America's waste-to-energy power plants and generated a net of 15 billion kWh of electricity, greater than all other renewable sources of energy, with the exception of hydroelectric and geothermal power. For comparison, wind power amounted to 5.6 billion kWh and solar energy to 0.49 billion kWh (2000 data, www.eia.doe.gov). In addition to the energy benefits, combusting these municipal solid wastes contributed to reducing U.S. greenhouse gas emissions by about forty million tons of carbon dioxide.

Nearly 36 million people in 27 states safely dispose of their trash at waste-to-energy facilities. Communities with waste-to-energy plants recycle an average of 34 percent of their trash, compared with the national average of 30 percent as reported by the U.S. EPA.[1] Waste-to-energy facilities nationwide recover more than 705,700 tons of ferrous metal on-site annually for recycling, before and after the combustion process. Further, more than three million additional tons of material is recovered on-site at waste-to-energy plants for recycling (e.g., nearly 2.94 million tons of this totals is attributed to the reuse of ash). See Figure 2.

Table 3 provides a detailed breakdown of the type and quantity of materials recovered on-site at waste-to-energy plants for recycling. Combustion ash is by far the material recovered most often for beneficial use from waste-to-energy operations. Ferrous metals are a distant second. Green waste, non-ferrous metals, and a full range of other recyclables are also collected on-site for subsequent recycling.

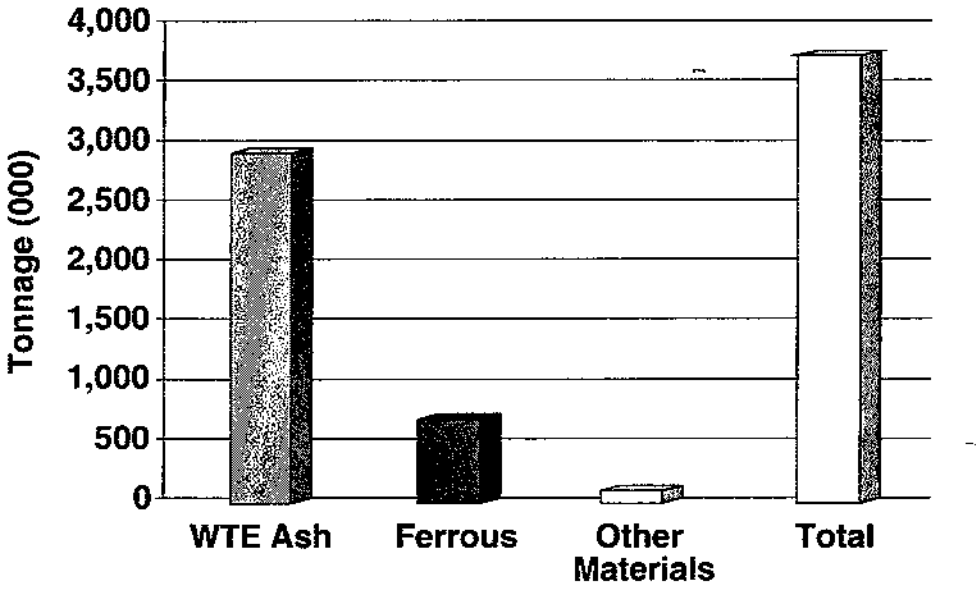
Since the 2002 IWSA Directory was released, the number of waste-to-energy facilities operating in the U.S. decreased by nine to 89. There was a corresponding drop of 0.65 million tons of annual disposal capacity, which is the equivalent of about 2,100 tons per day of daily design capacity. Accounting for this drop was the closure of three mass burn facilities (Key West, FL, Central Wayne in Dearborn Heights, MI, and Harrisburg, PA–which is undergoing retrofit and is scheduled to reopen by 2006), three modular facilities (Blytheville, AR, Osceola, AR, and Cleburne, TX), and two refuse-derived fuel operations (Lakeland, FL and Tacoma, WA). AG Processing in Eagle Grove, IA, was also removed from the Directory since it was determined that they combust industrial-type waste.

Table 4 summarizes the contribution of IWSA member plants and their role in managing the nation's municipal solid waste. More than thirty-one million people in 23 states safely dispose of more than 25 million tons of garbage and trash annually at IWSA member facilities. The 68 IWSA member plants represent 76 percent of the U.S. total and have 88 percent of the U.S. waste-to-energy processing capacity. These facilities have the equivalent rated electricity generating capacity of more than 2,300 MW, which is enough power to meet the power needs of about 1.71 million homes.

[1] This reflects the most recent data reported by U.S. EPA in the agency report titled Municipal Solid Waste in The United States: 2001 Facts and Figures.

FIGURE 2

On-Site Materials Recovery For Recycling at Waste-to-Energy Facilities



Source: J. V. L. Kiser and M. Zannes, Integrated Waste Services Association, April 2004.

TABLE 3

On-Site Waste-to-Energy Materials Recovery Details

Material Recovered	Annual Tons Recovered	Percent of Total
Ash[1]	2,936,346	78%
Ferrous	705,707	19%
Green Waste	42,697	1%
Non-Ferrous	20,956	<1%
Fiber	5,448	<1%
Construction & Demolition	5,400	<1%
White Goods	5,052	<1%
Tires	887	<1%
Glass	412	<1%
Plastic	144	<1%
Antifreeze	37	<1%
Batteries	37	<1%
Used Oil	17	<1%
Carpet Pads	2	<1%
Other Materials[2]	28,125	<1%
Total	3,751,267	100%

[1] Ash is beneficially used primarily as a daily landfill cover material. Other uses include: as a landfill berm and gas-venting layer material, and as a base fill material for concrete and asphalt roads.

[2] A specific material breakdown was not available for these tonnages.

Source: J. V. L. Kiser and M. Zannes, Integrated Waste Services Association, April 2004.

Beneficial Waste-to-Energy Ash Usage

By Jonathan V. L. Kiser

The 2004 IWSA Directory reports upon a significant increase in beneficial use of ash residue from waste-to-energy facilities. All waste-to-energy plants responded to the survey question regarding what happens to the ash generated by the combustion process. Thirty plants (34 percent of the total U. S. facilities) responded that ash from their operation is being beneficially used in some manner. These 30 plants process an estimated 11.95 million tons of municipal solid waste annually (42 percent of the total waste managed by waste-to-energy) and generate 2.94 million tons of ash. Of the thirty plants that beneficially use ash, 80 percent of the operations direct all of their ash for use, while the remaining 20 percent use only a portion of the ash and landfill the remaining portion. Assuming an average 70 percent weight reduction transforming trash into ash, more than one-third of the ash generated by waste-to-energy facilities in the United States is beneficially used.

The types of beneficial use, the annual tonnage associated with each application, and the relative percentage of each type of use are summarized in the following table:

Waste-to-Energy Ash Use Summary Statistics

Beneficial Use Application	Annual Tonnage	Percent of Total Used
Daily Landfill Cover	2,557,119	87%
Construction (Road Fill, Sub-base)	337,131	11%
Landfill Grading Closure Material	35,672	>1%
Landfill Gas Venting Layer	6,424	<1%
Total	2,936,346	100%

Source: J. V. L. Kiser and M. Zannes, Integrated Waste Services Association, April 2004.

Eighty-seven percent of the waste-to-energy ash that is designated for beneficial use is applied as an alternative daily landfill cover. Most of the remainder is used in construction applications such as a sub-base material for parking lots, fill material for roads, and similar applications. A small portion of waste-to-energy ash is used for other purposes at municipal landfills, including as a grading material for landfill closure and as a gas-venting layer.

Depending upon the state in which the waste-to-energy plant is located, communities can receive credit toward their recycling goals for using ash in a beneficial manner. For example, California and Maryland do allow ash that is beneficially used to be included in the recycling formula, while states like Florida and Minnesota do not. More specifically, the Maryland Recycling Act (MRA) Tonnage Reporting System form, that is submitted by counties to the Maryland Department of the Environment, includes a line for reporting the amount of ash recycled. In addition, while metal scrap not ordinarily disposed of at a solid-waste facility are not allowed to count toward the MRA recycling rate, ferrous and non-ferrous metals pulled post combustion at waste-to-energy operations do count.

By comparison, the Florida Department of Environmental Protection reports that ash used as an alternative daily landfill cover is viewed as a form of disposal. In addition, Florida allows use of waste-to-energy ash on outside landfill slopes and as part of roadway applications so long as provisions are taken to prevent any migration of ash residues. Florida also has an official beneficial use guidance document.

An important development on the ash utilization front took place during 2003 when the Waste-to-Energy Research & Technology (WTERT) Council established the University Ash Consortium at the Earth Engineering Center at Columbia University, New York. The Consortium researches, analyzes, reviews, and reports upon ash reuse issues, technologies, and projects. For more information, go to www.columbia.edu/cu/wtert.

TABLE 4

Contribution of IWSA Members in Managing U.S. Waste Disposal

Operating IWSA Waste-to-Energy Plants	68
Combined Daily Combustion Plant Design Capacity	81,158 tons
Annual Net Processing Capacity	25 million tons
IWSA Percent of U.S. Waste-to-Energy Plants	76 percent
IWSA Percent of U.S. Waste-to-Energy Capacity	88 percent
States with IWSA Plants	23
Waste Disposal Needs Met by IWSA Plants	31 million people
Homes Served with Power from IWSA Plants	1.71 million homes
Total Megawatts Generated[1]	2,327 MW

[1] Includes 2,164 MW of rated electricity generation capacity and the equivalent of 163 MW of rated generation capacity from steam-generating waste-to-energy facilities.
Source: J. V. L. Kiser and M. Zannes, Integrated Waste Services Association, April 2004.

IWSA was formed in 1991 to promote integrated solutions to municipal solid waste management problems. Within this capacity, the association strives to encourage the use of waste-to-energy technology as a key component of community programs. IWSA Board members include American Ref-Fuel Company; Covanta Energy Corporation; Montenay Power Corporation; and Wheelabrator Technologies Inc. In addition, IWSA includes more than fifty organizations and local governments who support waste-to-energy.

IWSA membership offers many benefits, including direct access to a Washington, D.C., staff that offers up-to-the-minute information about the industry. For more information about becoming an IWSA member, call (202) 467-6240, or contact IWSA's website at www.wte.org.

TABLE 5

Type of Air Pollution Control (APC) Devices on Operating Waste-to-Energy Plants

Plant Rated Daily Tonnage (Percentage) Equipped With Various APC Devices By Technology Class[1]

Technology	Acid Gas Control Device[2]	Particulate Control Device[3]	Nitrogen Oxides (NO_X) Device[4]	Mercury Control Device[5]
Mass Burn				
71,354 TPD	71,154	71,354	60,845	64,553
(100%)	(99.7%)	(100%)	(85.3%)	(90.5%)
Modular				
1,342 TPD	1,342	1,342	0	1,342
(100%)	(100%)	(100%)	(0%)	(100%)
RDF–P&C				
15,428 TPD	15,418	15,428	5,190	5,688
(100%)	(99.9%)	(100%)	(33.6%)	(36.9%)
RDF–C				
4,592 TPD	4,442	4,592	0	0
(100%)	(96.7%)	(100%)	(0%)	(0%)
Total WTE				
92,716 TPD	92,356	92,716	66,035	71,583
(100%)	(99.6%)	(100%)	(71.2%)	(77.2%)

[1] Waste-to-Energy plants typically employ a combination of air pollution control devices to control acid gases, particulates, nitrogen oxides, metals, and organic emissions. The table reflects both operating air pollution control equipment and specified equipment that will be installed prior to the 2005 deadline established by U.S. EPA to be in compliance with new Clean Air Act standards for small unit facilities.

[2] Includes: Spray Dryer Absorber (SDA), Wet Scrubber, Gas Suspension Absorber (GSA), Duct Sorbent (dry) Injection (DSI), Furnace Sorbent (dry) Injection (FSI), Lime Injection, Flue Gas Recirculation, and Cyclone Separator control devices. These devices also aid in the control of heavy metals (e.g., lead, cadmium, etc.), dioxins, and other trace organics (e.g., hydrocarbons, etc.).

[3] Includes: Compressed Hybrid Particulate Control Devise (COHPAC), Fabric Filter, and Electrostatic Precipitator (ESP) control devices. These devices aid in the control of heavy metals (e.g., lead, cadmium, etc.), dioxins, and other trace organics (e.g., hydrocarbons, etc.).

[4] Includes: Select Non-Catalytic Reduction (SNCR) control devices.

[5] Includes: Carbon Injection (CI) control devices. These devices also aid in the control of dioxins and other trace organics (e.g., hydrocarbons, etc.).

Source: J. V. L. Kiser and M. Zannes, Integrated Waste Services Association, April 2004.

U.S. EPA's maximum achievable control technology (MACT) requirements dictated that waste-to-energy facilities with large units (i.e., >250 TPD) comply with new Clean Air Act standards on or before December 19, 2000. Small unit facilities (i.e., 35 TPD to 250 TPD) will meet similar MACT rules no later than November 6, 2005. MACT technologies include advanced air pollution control for acid gases, particulates, and other pollutants. The combination of modern air pollution control works synergistically to lower all plant emissions. In response to MACT requirements, Table 5 illustrates the following:

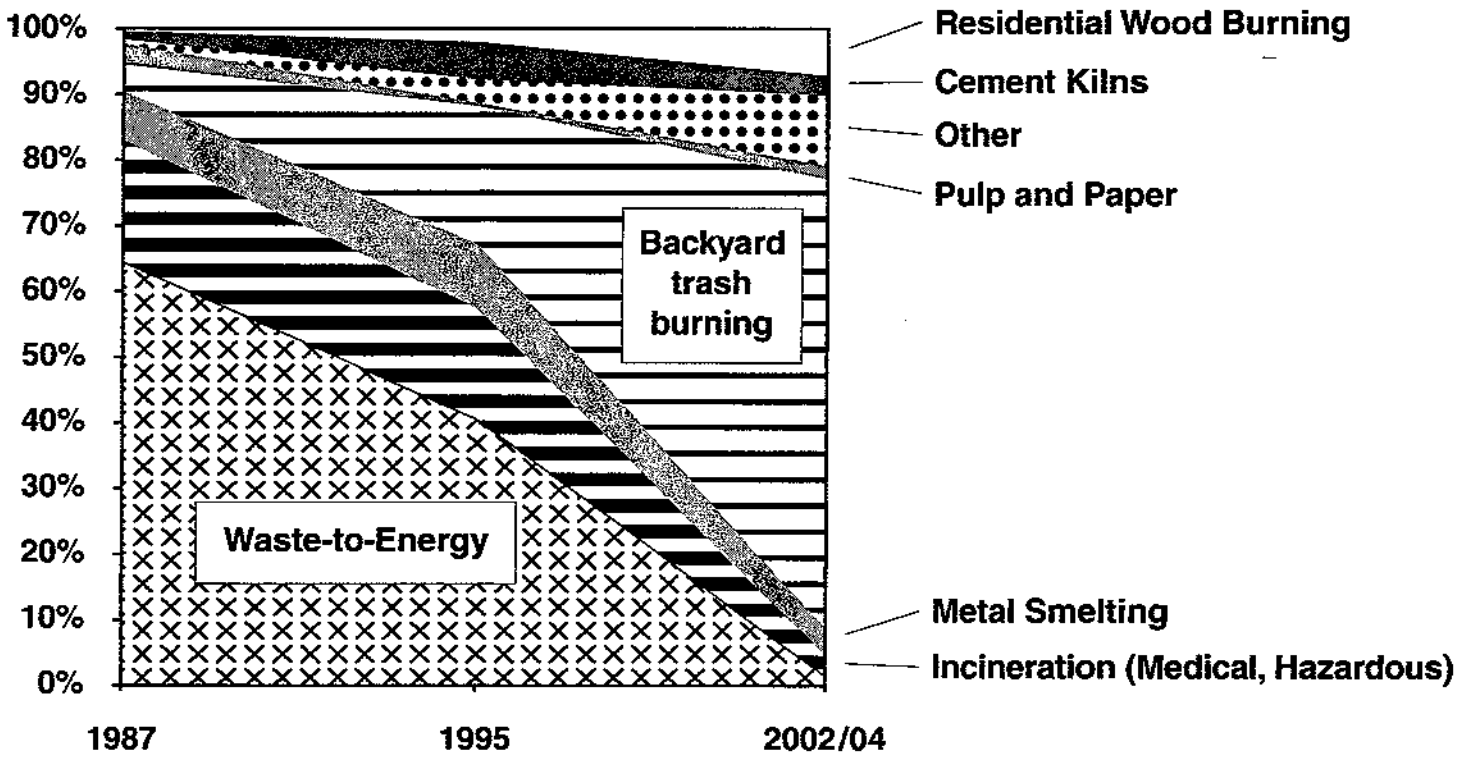
- Nearly all of the material processed at waste-to-energy plants across the country is subject to acid gas controls;
- 100 percent of the materials are subject to particulate control;
- More than 85 percent of the materials handled by mass burn plants are subject to additional NO_X control through the use of Select Non-Catalytic Reduction;
- More than 90 percent of the mass burn plant materials are subject to additional mercury control through the use of Carbon Injection; and
- 100 percent of the modular plant materials are subject to additional mercury control.

Waste-to-Energy Dioxin and Mercury Emissions Drop Significantly

By Dr. Nickolas J. Themelis, Director, Earth Engineering Center, Columbia University

The toxic effects of dioxins and furans became the topic of scientific investigation both in the United States and in Europe in the late 1980s. The Congress in 1990 reauthorized the Clean Air Act, seeking to control dioxin and other emissions from industrial sources. This required existing waste-to-energy facilities to retrofit their air pollution control to meet today's MACT systems, consisting of dry scrubbers, activated carbon injection and fabric bag filters. Retrofits have made these facilities one of the cleanest sources of electricity in the nation, according U.S. EPA data. These data indicate that the "toxic equivalent" emissions of U.S. waste-to-energy plants decreased by a factor of 1,000 to about 12 grams total. In comparison, dioxin emissions from backyard trash burning are estimated at more than 600 grams annually.

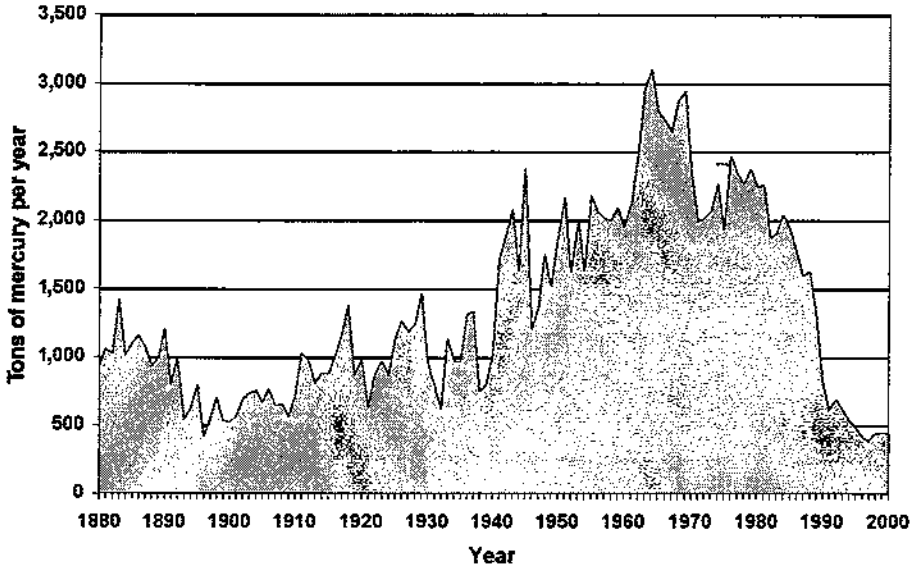
Decrease In U.S. Dioxin Emissions



Source: P. M. S. Deriziotis, Thesis in Earth Resources Engineering, Columbia University, 2004.

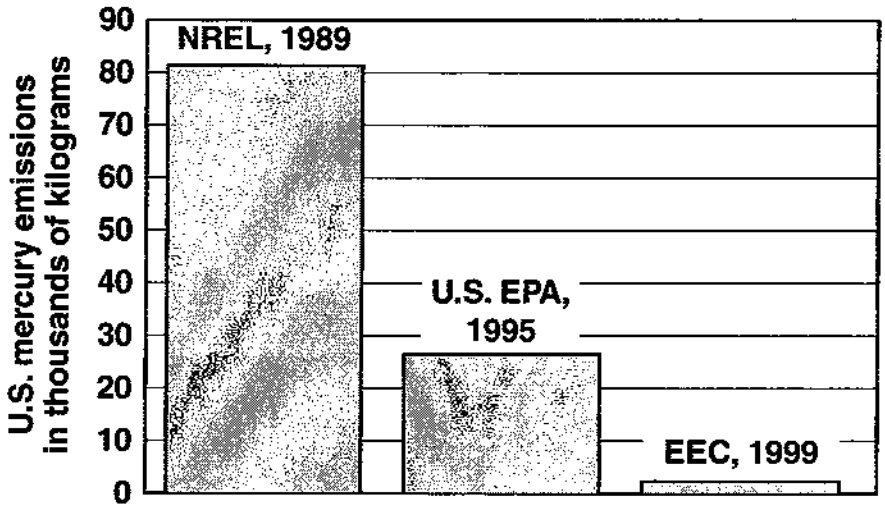
With regard to mercury, its use in U.S. processes and products reached a high of 3,000 tons per year in the 1970s. Its use decreased to less than 400 tons by 2002, due to the phasing out of most applications of this metal as mandated by U.S. EPA. For example, mercury activated switches and thermostats have been substituted. Many communities have put in place strong recycling programs that keep older mercury-containing products out of the trash sent for disposal. This downward trend in mercury use, in addition to the implementation of the MACT regulations, have decreased the mercury emissions of the waste-to-energy facilities from 89 tons of mercury in 1989 to less than one ton in 2004.

U.S. Mercury Consumption–1880 to 2000



Sources: Themelis and Gregory (2001) using data of Rod, Ayres, and Small (1989), and Sznopek and Goonan (2000).

Decrease in U.S. WTE Mercury Emissions–1989 to 1999



Sources: As shown in the figure.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 14 2003

Maria Zannes, President
Integrated Waste Services Association
1401 H Street N.W., Suite 220
Washington, DC 20005

Dear Ms. Zannes:

EPA recognizes the vital role of the nation's municipal waste-to-energy industry, and wishes to thank you for your environmental efforts.

Upgrading of the emission control systems of large combustors to exceed the requirements of the Clean Air Act Section 129 standards is an impressive accomplishment. The completion of retrofits of the large combustion units enables us to continue to rely on municipal solid waste as a clean, reliable, renewable source of energy. With the capacity to handle approximately 15 percent of the waste generated in the US, these plants produce 2800 megawatts of electricity with less environmental impact than almost any other source of electricity. With fewer and fewer new landfills being opened, and capacity controls being imposed on many existing landfills, our communities greatly benefit from the dependable, sustainable capacity of municipal waste-to-energy plants.

We applaud the leadership taken by the Integrated Waste Services Association in coordinating research needs to continue to improve the performance of these plants. Your willingness to work with EPA and the State governments on responses to natural or man-made emergencies, including anthrax, is greatly appreciated. Our staff in the Office of Solid Waste and Emergency Response and the Office of Air and Radiation look forward to working with you on defining your research agenda and in addressing our national security concerns.

Sincerely yours,

Marianne Lamont Horinko
Assistant Administrator
Office of Solid Waste and
Emergency Response

Jeffrey R. Holmstead
Assistant Administrator
Office of Air and Radiation

TABLE 6

Waste-To-Energy Companies[1]

American Ref-Fuel Company
155 Chestnut Ridge Road
Mount Vaile, New Jersey 07645
(201) 690-4800, or
(800) 727-3835
www.ref-fuel.com

Barlow Projects, Inc.
2000 Vermont Drive, Suite 200
Ft. Collins, Colorado 80525
(970) 226-8557
www.barlowgroup.com

Covanta Energy Corporation
40 Lane Road
Fairfield, New Jersey 07007
(973) 882-9000
www.covantaenergy.com

Energy Answers Corporation
79 North Pearl Street
Albany, New York 12207–2289
(518) 434-1227
www.energyanswers.com
email: info@energyanswers.com

Martin GmbH
Leopoldstrasse 248
D-80807 Munich, Germany
+49-89-356-17
fax: +49-89-356-17299

Montenay Power Corporation
1 Pennsylvania Plaza
New York, New York 10119
(212) 947-5824
fax: (212) 947-5828
www.vivendi.com

Wheelabrator Technologies Inc.
4 Liberty Lane West
Hampton, New Hampshire 03842
(800) 682-0026
www.wastemanagment.com

The Research Resource: The WTERT Council

The Waste-to-Energy Research and Technology (WTERT) Council brings together engineers and scientists from universities, industry, and government who are concerned with the recovery of materials and energy from used solids. In particular, the mission of the WTERT Council is to advance both the economic and environmental performance of various waste-to-energy technologies. The Council is headquartered at Columbia University in New York City, and its academic consortium includes the Universities of Stony Brook–SUNY, Temple, Sheffield (U.K.), Delft (Netherlands), Patras (Greece), and Zhejiang (China). The WTERT webpage, http://www.columbia.edu/cu/wtert, links to WTE companies around the world and maintains an information database (WTERT email: earth@columbia.edu). The IWSA is a co-founder of the WTERT Council.

[1] This Table reflects IWSA Members that provide waste-to-energy technology. IWSA includes more than fifty organizations and local governments supporting waste-to-energy.

Waste-to-Energy Directory: Key Terms

State/Plant Name/Location: States and localities are listed in alphabetical order.

Design Capacity (Unit & Total TPD): The design capacity is the rated capacity for each unit housed at a facility. The number of units at a facility is provided, followed by the capacity for each unit (i.e., 2x250 represents a facility with two units, each designed to process 250 tons per day, reflective of a 500 ton-per-day facility). The total daily design capacity is also provided. Annual capacity, as expressed in Table 1 and elsewhere, equals the daily design capacity multiplied by 365 days per year, multiplied by 85%. Eighty five percent is a typical system guarantee of annual throughput.

Continuous Emissions Monitors (CEMS): Facilities with operating or planned continuous emissions monitoring systems are noted, as well as the emissions and other elements monitored on a continuous basis, when available. Also, references to *Link* in this category means those facilities who are connected to the state regulatory agency by way of computer for emissions-monitoring purposes.

Technology Type: An abbreviated summary of the furnace technology employed at a facility is provided. The following technologies are listed in their abbreviated form:

MBWW: Mass Burn, Water Wall furnace

MBRW: Mass Burn, Refractory Wall furnace

MCU: Modular Combustion Unit

RWW: Rotary Water Wall combustor

RRW: Rotary bed combustion chamber, Refractory Wall

RDF: Refuse-Derived Fuel facility that processes and then burns the RDF made from trash

RDF–PROCESSING: Refuse-Derived Fuel facility that processes, but does not combust the RDF

SSWW: Spreader Stoker, Water Wall furnace

Project Status/Startup Year: Actual year of commercial startup is listed, unless otherwise noted. Abbreviation is explained below:

OP: Operational

APC System: This column reflects the Air Pollution Control System in use or planned at the facility. In plants with SDA, DSI, or FSI, calcium-based lime is typically injected to control acid gases. Exceptions are noted. Abbreviations are listed below:

CI: Activated Carbon Injection

COHPAC: Compressed Hybrid Particulate Collection Device

CYC: Cyclone Separator

DSI: Duct Sorbent (dry) Injection (downstream of furnace)

ESP: Electrostatic Precipitator

FF: Fabric Filter

FGR: Flue Gas Recirculation

FSI: Furnace Sorbent (dry) Injection

GSA: Gas Suspension Absorber

SDA: Spray Dryer Absorber, or Scrubber

SNCR: Select Non-Catalytic Reduction for NO_X Control (e.g., aqueous ammonia)

WESPHIX: Fly Ash Stabilization

WS: Wet Scrubber

Energy Output: Expressed in rated gross megawatts (MW) of capacity for electric (ELE)-generating facilities or pounds of steam per hour for steam (STM)-generating facilities. Facilities that generate both electricity and steam are cogeneration (COG) facilities.

Owner/Operator: The owner and operator of a facility are listed. In cases where an owner and operator are the same, only one name is listed in this column.

On-Site Ferrous Recovered (TPY): The tons per year of ferrous metals recovered for recycling as part of plant operations. Refer to Table 3 for more details.

Other On-Site Materials Recovery (TPY): The amount of other recyclable materials recovered for recycling as part of plant operations, including non-ferrous metals, fiber, combustion ash, and other recyclable goods. Refer to Table 3 for more details.

Community Recycling Percentage: The percent of materials diverted from the total waste stream for recycling by the primary service area community disposing of waste at the listed waste-to-energy plant.

The 2004 IWSA Directory Of U.S. Waste-To-Energy Plants

State/Plant Name/ Location	Design Capacity (Unit & Total TPD)	Continuous Emissions Monitors (CEMS)	Technology Type	Project Status/ Startup Year
ALABAMA				
Huntsville WTE Facility/ Huntsville	2x345=690	CO; CO_2; NO_X; O_2; Opacity; SO_2	MBWW	OP/1990
ALASKA				
Eielson Airforce Base/ North Pole	5x2=10 (RDF Portion) 5x10 (Coal Boiler Capacity)	Opacity	RDF (Co-Fired in Coal Boiler)	OP/1995
CALIFORNIA				
Commerce Refuse-to-Energy Facility/ Commerce (Los Angeles County)	1x360=360	CO; NO_X; O_2 Opacity; SO_2	MBWW	OP/1986
Long Beach (SERRF)/ Long Beach	3x460=1,380	CO; CO_2; NO_X; O_2; Opacity; SO_2	MBWW	OP/1988
Stanislaus County Resource Recovery Facility/ Modesto	2x400=800	CO; CO_2; Link; NO_X; Opacity; SO_2	MBWW	OP/1989
CONNECTICUT				
Bristol Resource Recovery Facility/Bristol	2x325=650	CO; CO_2; Link; NO_X; Opacity; SO_2; VOC (Volatile Organic Compounds)	MBWW	OP/1988
Mid-Connecticut Resource Recovery Facility/Hartford	3x675=2,000	CO; CO_2; NO_X; O_2; Opacity; SO_2	RDF–SSWW	OP/1987
Riley Energy Systems of Lisbon Connecticut Corp./Lisbon	2x251=502	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1995

APC System	Energy Capacity/ Output	Owner/Operator	On-Site – Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
SDA; FF; SNCR; CI	STM: 180,000 Lbs/Hr	SWDA of the City of Huntsville/Covanta Huntsville, Inc.			11%
FF	COG; STM: 2,775 Lbs/Hr; ELE: 0.2 MW (RDF Attributed–Peak)	Eielson Airforce Base	60	490[2]	28%
SDA; FF; SNCR	ELE: 11.5 MW	Commerce Refuse-to-Energy Authority/L.A. Sanitation District	2,718	30,400[2]	50%
SDA; FF; SNCR	ELE: 38 MW	Joint Powers Authority (LA County Sanitation District & City of Long Beach)/Montenay Pacific Power Corporation	6,600	167,735[2]	50%
SDA; FF; SNCR; CI	ELE: 22 MW	Covanta Stanislaus, Inc.	5,152		52%
SDA; FF; SNCR; CI	ELE: 16 MW	Covanta Bristol, Inc.	6,157		23%
SDA; FF; SNCR	ELE: 68 MW	Connecticut Resources Recovery Authority/ Covanta Mid-Conn., Inc.	23,698		24%
SDA; FF; SNCR; CI	ELE: 15 MW	Eastern Connecticut Resources Recovery Authority/Riley Energy Systems of Libson Corp. (Wheelabrator Subsidiary)	4,110		20%

[1]Reflects the total amounts recycled in the waste-to-energy community. This includes the residential stream, a combination of residential and commercial streams, reduction credits, etc., depending upon how the data is collected and reported by each community

[2]Includes WTE Ash reused in some fashion (i.e., typically for daily landfill cover)

State/Plant Name/ Location	Design Capacity (Unit & Total TPD)	Continuous Emissions Monitors (CEMS)	Technology Type	Project Status/ Startup Year
CONNECTICUT (continued)				
Southeastern Connecticut Resource Recovery Facility/Preston	2x345=689	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1992
Wallingford Resource Recovery Facility/Wallingford	3x140=420	CO; CO_2; NO_X; Opacity; SO_2; VOC	MBRW	OP/1989
Wheelabrator Bridgeport Company, L.P./Bridgeport	3x750=2,250	CO; CO_2; NO_X; Opacity; SO_2	MBWW	OP/1988
FLORIDA				
Bay Resource Mgt. Center/Panama City	2x245=490	CO; O_2	RWW	OP/1987
Dade County (Expansion)–Biomass Fuel Export/Miami	1x1,200=1,200		RDF–PROCESSING	OP/1997
Dade County Resource Recovery Facility Greater Miami Metro Area/ Miami	4x672=2,688 (RDF Combusted) 3,000 (TPD MSW Processed)	CO; NO_X; O_2; Opacity; SO_2	RDF–SSWW	OP/1982
Hillsborough County Solid Waste Energy Facility/Tampa	3x400=1,200	CO; CO_2; NO_X; O_2; Opacity; SO_2	MBWW	OP/1987
Lake County Resource Recovery Facility/ Okahumpka	2x264=528	CO; CO_2; NO_X; O_2; Opacity; SO_2	MBWW	OP/1991
Lee County Solid Waste Resource Recovery Facility/Fort Myers	2x600=1,200	CO; CO_2; NO_X; O_2; Opacity; SO_2	MBWW	OP/1994
McKay Bay Refuse-to-Energy Facility/Tampa	4x251=1,004	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1985
North County Resource Recovery Facility/ West Palm Beach	2x1,000=2,000	CO; HCl; NO_X; Opacity; SO_2; Temperature	RDF–SSWW	OP/1989
Pasco County Resource Recovery Facility/Hudson	3x350=1,050	CO; CO_2; NO_X; O_2; Opacity; SO_2	MBWW	OP/1991
Pinellas County Resource Recovery Facility/ St. Petersburg	3x1,000=3,000	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1983
Wheelabrator North Broward Inc./ Pompano Beach	3x750=2,250	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1991

APC System	Energy Capacity/ Output	Owner/Operator	On-Site Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
SDA; FF; CI	ELE: 17 MW	American Ref-Fuel Co. of Southeastern CT	4,741	118	22%
SDA; FF; FGR; CI	ELE: 11 MW	Covanta Projects of Wallingford, L.P.			28%
SDA; FF; CI	ELE: 67 MW	Ford Motor Company/ Wheelabrator	13,620	391	20%
SDA; FF; CI[3]	ELE: 12 MW	Bay County/Montenay Bay L.L.C.			22%
FF	Biomass Fuel	Miami–Dade County/ Montenay–ONYX			21%
SDA; FF; SNCR; CI	ELE: 77 MW	Miami–Dade County/ Montenay–ONYX	35,450	3,880	21%
SDA; FF; SNCR; CI	ELE: 29 MW	Hillsborough County/ Covanta Hillsborough, Inc.	8,289	86,796[2]	30%
SDA; FF; SNCR; CI	ELE: 16 MW	Covanta Lake, Inc.	2,433		18%
SDA; FF; SNCR; CI	ELE: 40 MW	Lee County/Covanta Lee, Inc.	9,370	105,948[2]	30%
SDA; FF; SNCR; CI	ELE: 22 MW	City of Tampa/Wheelabrator	8,616	96,193[2]	21%
SDA; ESP	ELE: 60 MW	Solid Waste Authority of Palm Beach County/Palm Beach Co. Resource Recovery Corp. (Subsidiary of Babcock and Wilcox)	35,985	121,097[2]	50%
SDA; FF; SNCR; CI	ELE: 31 MW	Pasco County/Covanta Pasco, Inc.	2,706		16%
SDA; FF; SNCR; CI	ELE: 65 MW	Pinellas County/Wheelabrator	17,200	270,019[2]	28%
SDA; FF; SNCR; CI	ELE: 68 MW	Wheelabrator	5,705		25%

[1] Reflects the total amounts recycled in the waste-to-energy community. This includes the residential stream, a combination of residential and commercial streams, reduction credits, etc., depending upon how the data is collected and reported by each community

[2] Includes WTE Ash reused in some fashion (i.e., typically for daily landfill cover)

[3] Upgrades underway to include all items listed to meet the November 6, 2005 Clean Air Act compliance deadline for small unit facilities

State/Plant Name/ Location	Design Capacity (Unit & Total TPD)	Continuous Emissions Monitors (CEMS)	Technology Type	Project Status/ Startup Year
FLORIDA (continued)				
Wheelabrator South Broward Inc./ Ft. Lauderdale	3x750=2,250	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1991
GEORGIA				
Montenay Savannah Operations, Inc./Savannah	2x251=502	CO; HCl; NO_X; Particulate; SO_2	MBWW	OP/1987
HAWAII				
Honolulu Resource Recovery Venture–HPOWER/ Honolulu	2x854=1,708	CO; NO_X; O_2; Opacity; SO_2	RDF–SSWW	OP/1990
INDIANA				
Indianapolis Resource Recovery Facility/Indianapolis	3x787=2,362	CO; CO_2; Link; NO_X; O_2; Opacity; SO_2	MBWW	OP/1988
IOWA				
Ames (Generates RDF for Ames MEU)/Ames	1x175=175		RDF–PROCESSING	OP/1975
Ames Municipal Electric Utility (MEU–Receives RDF From Ames)/Ames	1x97 + 1x53=150	CO_2; NO_X; O_2; Opacity; SO_2	RDF–Pulverized Coal WW	OP/1975
MAINE				
Maine Energy Recovery Co./ Biddeford	2x300=600	CO; Link; NO_X; O_2; Opacity; SO_2; Temperature	RDF–SSWW	OP/1987
Mid-ME Waste Action Corporation/ Auburn	2x100=200	CO; CO_2; NO_X; Opacity; SO_2; Temperature	RRW (Laurent Bouillet Oscillating Combustor)	OP/1992
Penobscot Energy Recovery Company/Orrington	2x375=750 (Design) 2x360=720 (Permit)	CO; CO_2; NO_X; O_2; Opacity; SO_2	RDF	OP/1988
Regional Waste Systems, Inc./ Portland	2x251=502	CO; CO_2; Link; NO_X; Opacity; SO_2	MBWW	OP/1988
MARYLAND				
Harford County Waste-to-Energy Facility/Joppa (Aberdeen Proving Grounds–Army)	4x90=360	CO; CO_2; Link; NO_X; O_2; Opacity; SO_2	MCU	OP/1988

APC System	Energy Capacity/ Output	Owner/Operator	On-Site Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
SDA; FF; SNCR; CI	ELE: 66 MW	Wheelabrator	579		25%
SDA, FF; SNCR; CI	COG; STM:130,000 Lbs/Hr; ELE: 6 MW	Montenay Savannah Operations, Inc.			5%
SDA; ESP	ELE: 57 MW	Ford Motor Credit Corporation/ Covanta Honolulu Resource Recovery Venture	19,786	2,475	29%
SDA; FF; SNCR; CI	STM: 558,000 Lbs/Hr	Covanta Indianapolis, Inc.	16,447	187,737[2]	7%
FF; CYC	RDF Fuel (Fluff)	City of Ames/Ames Public Works	2,200	108	54%
ESP	ELE: 10 MW (RDF Attributed)	City of Ames/ Ames Municipal Electric System		175[2]	54%
SDA; FF	ELE: 22 MW	Maine Energy Recovery Company/ Casella Waste Systems	8,000	351	47%
SDA; FF; CI	ELE: 3.6 MW	Mid-Maine Waste Action Corporation	2,286	183	24%
SDA; FF	ELE: 25.3 MW	NRG Energy, Inc./ ESOCO Orrington, Inc.	11,000		21%
SDA; ESP; SNCR; CI	ELE: 14 MW	Regional Waste Systems, Inc.		191	53%
DSI (Sodium Bicarbonate); ESP; CI[3]	COG; STM: 100,000 Lbs/Hr; ELE: 1.2 MW	N.E. Maryland Waste Disposal Authority/Energy Recovery Operations, Inc.	211	47,060[2]	56%

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[3]Upgrades underway to include all items listed to meet the November 6, 2005 Clean Air Act compliance deadline for small unit facilities

State/Plant Name/ Location	Design Capacity (Unit & Total TPD)	Continuous Emissions Monitors (CEMS)	Technology Type	Project Status/ Startup Year
MARYLAND (continued)				
Montgomery County Resource Recovery Project/ Dickerson	3x600=1,800	CO; CO_2; HCl; Link; NO_X; O_2; Opacity; SO_2	MBWW	OP/1995
Wheelabrator Baltimore Company, L.P./ Baltimore	3x750=2,250	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1985
MASSACHUSETTS				
Haverhill Resource Recovery Facility/ Haverhill	2x825=1,650	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1989
Pioneer Valley Resource Recovery Facility (eco/Springfield)/ Agawan	3x136=408 (Design) 3x120=360 (Permit)	CO; CO_2; NO_X; Opacity; SO_2	MBRW	OP/1988
Pittsfield Resource Recovery Facility/ Pittsfield	3x120=360 (Design) 3x80=240 (Actual Practice)	CO; NO_X; O_2; Opacity; SO_2	MBRW	OP/1981
SEMASS Resource Recovery Facility/ Rochester	3x1,000=3,000	CO; NO_X; O_2; Opacity; SO_2	RDF–SSWW	OP/1988
Wheelabrator Millbury Inc./ Millbury	2x750=1,500	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1987
Wheelabrator North Andover, Inc./ North Andover	2x750=1,500	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1985
Wheelabrator Saugus, Inc./ Saugus	2x750=1,500	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1975
MICHIGAN				
Greater Detroit Resource Recovery Facility/Detroit	3x1,100=3,300 (Design) 2x1,100=2,200 (Permit)	CO; CO_2; Link; NO_X; O_2; Opacity; SO_2	RDF–SSWW	OP/1989
Jackson County Resource Recovery Facility/Jackson	2x100=200	CO; CO_2; NO_X; O_2; Opacity; SO_2; Temperature[3]	MBWW	OP/1987

[3] Upgrades underway to include all items listed to meet the November 6, 2005 Clean Air Act compliance deadline for small unit facilities

APC System	Energy Capacity/ Output	Owner/Operator	On-Site Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
FSI; SDA; FF; SNCR; CI	ELE: 68 MW	N.E. Maryland Waste Disposal Authority/Covanta Montgomery, Inc.	19,953		35%
SDA; ESP; SNCR; CI	ELE: 60 MW	John Hancock Life Insurance Company/Wheelabrator	7,291	206,369[2]	42%
SDA; FF; SNCR; CI	ELE: 49 MW	Covanta Haverhill Associates/ Covanta Haverhill, Inc.	14,565		24%
FGR; DSI (Dry Lime); FF	COG; STM: 96,000 Lbs/Hr; ELE: 9.4 MW	eco/Springfield L.L.C.	2,950		35%
FGR; WS; ESP; Packed Tower Scrubber (Sodium Bicarbonate-Injected); CI	STM: 66,000 Lbs/Hr	eco/Pittsfield, L.L.C.	1,051	8,034[2]	21%
SDA; ESP; FF (COHPAC); CI (Units 1 & 2); SDA; FF (COHPAC) (Unit 3)	ELE: 78 MW	SEMASS Partnership/ American Ref-Fuel Co. of SEMASS, L.P.	44,520	93,224[2]	22%
SDA; ESP; SNCR; CI	ELE: 46 MW	CIT/Wheelabrator	10,361	295	42%
SDA; FF; SNCR; CI	ELE: 40 MW	Wheelabrator	8,160		35%
SDA; FF; SNCR; CI	ELE: 37.5 MW	Wheelabrator	6,590	23	33%
SDA; FF	COG; STM: 15,000Lbs/Hr; ELE: 65 MW	Phillip Morris Leasing Corp. & G.E. Credit Corp./Michigan Waste Energy, Inc.	32,278		9%
SDA; FF; CI[3]	COG; STM: 49,200 Lbs/Hr (For Southern MI Prison); ELE: 3.7 MW	Jackson County/U.S. Filter, Inc..			15%

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[3] Upgrades underway to include all items listed to meet the November 6, 2005 Clean Air Act compliance deadline for small unit facilities

State/Plant Name/ Location	Design Capacity (Unit & Total TPD)	Continuous Emissions Monitors (CEMS)	Technology Type	Project Status/ Startup Year
MICHIGAN (continued)				
Kent County/ Grand Rapids	2x312.5=625	CO; Link; NO_X; O_2; Opacity; SO_2	MBWW	OP/1990
MINNESOTA				
Elk River Resource Recovery Facility (Generates RDF for Great River Energy in Elk River, Xcel Energy Wilmarth Plant in Mankato, & Xcel Energy Red Wing Plant)/Elk River	2x750=1,500		RDF–PROCESSING	OP/1989
Fergus Falls Resource Recovery Facility/ Fergus Falls	2x47=94	CO; O_2; Opacity; SO_2; Temperature	MCU	OP/1988
Great River Energy–Elk River Station (Receives RDF from Elk River RRF)/ Elk River	2x251 + 1x500=1,002	CO; NO_X; O_2; Opacity; SO_2; Temperature	RDF–SSWW	OP/1989
Hennepin Energy Resource Co./ Minneapolis	2x606=1,212 (Design) 1,000 (Permit)	CO; CO_2; NO_X; Opacity; SO_2	MBWW	OP/1989
NRG Energy, Inc.–Newport (Ramsey–Washington) (Generates RDF for Xcel Energy Red Wing Plant & Xcel Energy Wilmarth Plant in Mankato)/ Newport	1x1,200=1,200		RDF–PROCESSING	OP/1987
Olmsted Waste-to-Energy Facility/ Rochester	2x100=200	CO; CO_2; O_2; Opacity; SO_2	MBWW	OP/1987
Perham Resource Recovery Facility/ Perham	2x58=116	O_2; Opacity; SO_2; Steam Flow; Temperature	MCU	OP/1986; 2002 (Upgrade)
Polk County Resource Recovery Plant/ Fosston	2x40=80	CO; O_2; Opacity	MCU	OP/1988
Pope–Douglas Solid Waste Management/ Alexandria	2x40=80	CO; CO_2; O_2; Opacity	MCU	OP/1987
Red Wing Waste Recovery Facility/Red Wing	2x36=72	CO; CO_2; O_2; Opacity; SO_2; Temperature	MCU	OP/1982
Xcel Energy–Red Wing (Receives RDF From NRG Energy in Newport & Elk River RRF)/Red Wing	2x360=720	CO; NO_X; O_2; Opacity; SO_2	RDF–SSWW	OP/1988

APC System	Energy Capacity/ Output	Owner/Operator	On-Site Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
SDA; FF; SNCR; CI	COG; STM: 76,000 Lbs/Hr; ELE: 8 MW	Kent County/Covanta Kent, Inc.	4,211		50%
FF (Dust Collection)	RDF Fuel (3-inch Pieces)	NRG & Great River Energy/ NRG Energy, Inc.	15,000		39%
SDA; FF; CI	STM: 22,000 Lbs/Hr	City of Fergus Falls	26		65%
SDA; FF	ELE: 48 MW	United Power Association/ Great River Energy			39%
SDA; FF; SNCR; CI	ELE: 38 MW	Hennepin County/Covanta Hennepin Energy Resource Company, L.P.	11,000	33	46%
FF	RDF Fuel (Fluff)	NRG Energy, Inc.	16,800	1,000	47%
SDA; FF; CI	COG; STM: 60,000 Lbs/Hr; ELE: 4 MW	Olmsted County	144	900	40%
DSI; FF; CI	COG; STM: 37,000 Lbs/Hr; ELE: 2.5 MW	City of Perham/Barlow Projects	64		65%
DSI; ESP; CI	STM: 22,000 Lbs/Hr	Polk County	1,027	881	52%
DSI; FF; CI	COG; STM: 35,000 Lbs/Hr; ELE: 0.4 MW	Pope–Douglas Joint Solid Waste Board	700	700	44%
GSA (Between Boiler Outlet & ESP Inlet); ESP; CI	STM: 15,000 Lbs/Hr	City of Red Wing	168	1,221	37%
DSI; FF	ELE: 21 MW	Xcel Energy	566		37%

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State/Plant Name/ Location	Design Capacity (Unit & Total TPD)	Continuous Emissions Monitors (CEMS)	Technology Type	Project Status/ Startup Year
MINNESOTA (continued)				
Xcel Energy–Wilmarth Plant (Receives RDF from Elk River RRF, MN Waste Processing Center in Mankato & NRG Energy in Newport)/ Mankato	2x360=720	CO_2; NO_X; O_2; Opacity; SO_2	RDF–SSWW	OP/1987
NEW HAMPSHIRE				
Wheelabrator Claremont Company, L.P./Claremont	2x100=200	CO; O_2; Opacity	MBWW	OP/1987
Wheelabrator Concord Company, L.P./ Penacock	2x288=575	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1989
NEW JERSEY				
Camden Resource Recovery Facility/ Camden	3x350=1,050	CO; HCl; Link; Nonmethane Hydrocarbons; NO_X; O_2; Opacity; SO_2; Temperature	MBWW	OP/1991
Essex County Resource Recovery Facility/Newark	3x900=2,700	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1990
Union County Resource Recovery Facility/ Rahway	3x480=1,440	CO; CO_2; HCl; Link; NH3; NO_X; O_2; Opacity; SO_2; Temperature	MBWW	OP/1994
Warren Energy Resource Company/ Oxford Township, Warren County	2x224=448	CO; Link; NO_X; O_2; Opacity; SO_2; Temperature	MBWW	OP/1988
Wheelabrator Glouster Company, L.P./ Westville	2x288=575	CO; NO_X; O_2; Opacity; SO_2	MBWW	OP/1990
NEW YORK				
Babylon Resource Recovery Facility/ Babylon	2x375=750	CO; CO_2; NO_X; Opacity; SO_2	MBWW	OP/1989
Dutchess County RRF (Montenay Dutchess L.L.C.)/Poughkeepsie	2x225=450	CO; NO_X; Opacity; Particulate; SO_2; Temperature; Stack Moisture	RWW	OP/1988
Hempstead Resource Recovery Facility/ Westbury	3x835=2,505	CO; CO_2; NO_X; Opacity; SO_2	MBWW	OP/1989
Huntington Resource Recovery Facility/ East Northport	3x251=753	CO; NH3; NO_X; O_2; Opacity; SO_2	MBWW	OP/1991

APC System	Energy Capacity/ Output	Owner/Operator	On-Site Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
SDA; FF	ELE: 22 MW	Xcel Energy			66%
DSI; FF	ELE: 4.5 MW	Wheelabrator			7%
SDA; FF; SNCR; CI	ELE: 14 MW	Wheelabrator		1	11%
SDA; ESP; CI	ELE: 27 MW	Camden County Energy Recovery Associates, L.P./Camden County Energy Recovery Corporation	5,500	700	33%
SDA; ESP; SNCR; CI; WESPHIX	ELE: 70 MW	American Ref-Fuel Company of Essex County	16,680	15,000[2]	54%
SDA; FF; SNCR; CI	ELE: 44 MW	Covanta Union, Inc.	14,348	121,777[2]	50%
SDA; FF; NOx Control; CI[3]	ELE: 13 MW	Covanta Warren Energy Resource Company, L.P.	5,270		33%
SDA; FF; SNCR; CI	ELE: 14 MW	Wheelabrator	4,670		63%
SDA; FF; SNCR; CI	ELE: 17 MW	Covanta Babylon, Inc.	3,942		30%
DSI; FF	COG; STM: 50,000 Lbs/Hr; ELE: 10.5 MW	Dutchess County R.R. Agency/ Montenay Dutchess L.L.C.	8,606	45,663[2]	57%
SDA; FF; SNCR	ELE: 72 MW	American Ref-Fuel Co. of Hempstead	18,543	1,019	31%
SDA; FF; SNCR; CI	ELE: 25 MW	Covanta Huntington, L.P.	9,655		44%

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State/Plant Name/ Location	Design Capacity (Unit & Total TPD)	Continuous Emissions Monitors (CEMS)	Technology Type	Project Status/ Startup Year
NEW YORK (continued)				
Islip (MacArthur Resource Recovery Facility)/Ronkonkoma	2x243=486	CO; CO_2; HCl; NO_x; O_2; Opacity; SO_2	RWW	OP/1990
Niagara Falls Resource Recovery Facility/ Niagara Falls	2x1,125=2,250	CO; NOx; O_2; Opacity; SO_2	MBWW	OP/1996
Onondaga County Resource Recovery Facility/Onondaga County	3x330=990	CO; CO_2; NH3; NO_x; O_2; Opacity; SO_2	MBWW	OP/1995
Oswego County Energy Recovery Facility/Fulton	4x50=200	CO; O_2; Opacity; SO_2	MCU	OP/1986
Wheelabrator Hudson Falls Inc./ Hudson Falls	2x255=510	CO; NO_x; O_2; Opacity; SO_2	MBWW	OP/1991
Wheelabrator Westchester Company, L.P./Peekskill	3x750=2,250	CO; NO_x; O_2; Opacity; SO_2	MBWW	OP/1984
NORTH CAROLINA				
New Hanover County– Wastec/Wilmington	2x100 (Units 1 & 2) + 1x300 (Unit 3)=500	CO; CO_2; NO_x; O_2 Opacity; SO_2	MBWW	Op/1984 (Units 1 & 2); 1991 (Unit 3)
OKLAHOMA				
W.B. Hall Resource Recovery Facility/ Tulsa	3x375=1,125	CO; O_2; Opacity	MBWW	OP/1986
OREGON				
Marion County Solid Waste-to-Energy Facility/Brooks	2x275=550	CO; NO_x; O_2; Opacity; SO_2	MBWW	OP/1986
PENNSYLVANIA				
Delaware Valley Resource Recovery Facility/Chester	6x448=2,688	CO; HCl; Link; NO_x; O_2; Opacity; SO_2	RWW	OP/1992
Lancaster County Resource Recovery Facility/Bainbridge	3x400=1,200	CO; CO_2; HCl; Link; NO_x; O_2; Opacity; SO_2	MBWW	OP/1991

APC System	Energy Capacity/ Output	Owner/Operator	On-Site Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
DSI (Hydrated Lime/Tesisorb); FF	ELE: 12 MW	Islip Resource Recovery Agency/ Montenay	8,350		25%
SDA; FF; SNCR; CI	COG; STM: 350,000 Lbs/Hr; ELE: 50 MW	American Ref-Fuel Co. of Niagara, L.P.	21,323	61,311[2]	13%
SDA; FF; SNCR; CI	ELE: 40 MW	Onondaga County Resource Recovery Agency/Covanta Onondaga, L.P.	10,858	91,065[2]	68%
SDA; FF; CI	COG; STM: 50,000 Lbs/Hr; ELE: 4 MW	Oswego County		25,300[2]	40%
SDA; ESP; CI	ELE: 14.5 MW	Warren & Washington Counties Industrial Development Agency/ Wheelabrator Hudson Falls	2,150	16,568[2]	26%
SDA; FF; SNCR; CI	ELE: 60 MW	Wheelabrator	17,005	55	42%
SDA; FF; CI[3] (Units 1 & 2); SDA; FF; SNCR; CI (Unit 3)	ELE: 10.5 MW	New Hanover County	1,000	50,276[2]	3%
SDA; FF; SNCR; CI	STM: 240,000 Lbs/Hr; or ELE: 16.8 MW	CIT Group/Barlow Projects	5,870		5%
SDA; FF; SNCR; CI	ELE: 13 MW	Covanta Marion, Inc.	4,352		57%
SDA; FF; SNCR; CI	ELE: 78 MW	American Ref-Fuel Co. of Delaware County, L.P.	31,358	333,000[2]	54%
SDA; FSI; FF; SNCR; CI	ELE: 36 MW	Lancaster County Solid Waste Management Authority/Covanta Lancaster, Inc.	6,413	84,513[2]	40%

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PENNSYLVANIA (continued)				
Montenay Energy Resources of Montgomery County, Inc./ Conshohocken	2x608=1,216	CO; HCl; NO_x; O_2; SO_2; Moisture; Opacity; Temperature	MBWW	OP/1991
Montenay York Energy Resource Systems, L.L.C. (York County)/ Manchester Township	3x448=1,344	CO; CO_2; HCl; Link; NO_x; O_2; Opacity; SO_2; Temperature	MBWW	OP/1989
Wheelabrator Falls, Inc./ Morrisville	2x750=1,500	CO; HCl; NO_x; O_2; Opacity; SO_2	MBWW	OP/1994
SOUTH CAROLINA				
Montenay Charleston RRI/ Charleston County	2x300=600	CO; CO_2; NO_x; O_2; Opacity; SO_2	MBWW	OP/1989
TENNESSEE				
Sumner County Resource Authority/ Gallatin	2x100=200		RWW	OP/1981
UTAH				
Davis Energy Recovery Facility (Wasatch Energy Systems)/Layton	2x210=420	CO; NO_x; O_2; Opacity; SO_2	MBRW	OP/1988
VIRGINIA				
Alexandria/Arlington Resource Recovery Facility/Alexandria	3x325=975	CO; NO_x, O_2; Opacity; SO_2	MBWW	OP/1988
Hampton–NASA Steam Plant/ Hampton	2x120=240	CO; O_2; Opacity	MBWW	OP/1980
Harrisonburg Resource Recovery Facility/ Harrisonburg	2x100=200	CO; CO_2; O_2; Opacity; SO_2 Temperature	MBRW	OP/1982
I-95 Energy–Resource Recovery Facility (Fairfax)/Lorton	4x750=3,000	CO; Link; NO_x; O_2; Opacity; SO_2	MBWW	OP/1990
Southeastern Public Service Authority of Virginia (Generates RDF for SPSA Power Plant)/Portsmouth	3x1,000=2,000 (Only Use 2 Units at a Time)	Dust Collection	RDF–PROCESSING	OP/1988

APC System	Energy Capacity/ Output	Owner/Operator	On-Site Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
SDA; FF; SNCR; CI	ELE: 32 MW	Montenay Montgomery Limited Partnership	3,634	124,696[2]	29%
SDA; FF; CI	ELE: 42.5 MW	York County Solid Waste Authority/Montenay York Energy Resource Systems, L.L.C.		170,303[2]	53%
SDA; FF; SNCR; CI	ELE: 53 MW	Wheelabrator	3,493	190,559[2]	28%
SDA; ESP; CI	COG; STM: 50,000 Lbs/Hr; ELE: 13 MW	AT&T/Montenay Charleston RRI	758	44,800[2]	36%
ESP	COG; STM: 54,000 Lbs/Hr; ELE: 0.5 MW	Sumner County & Cities of Gallatin & Hendersonville/Sumner County Resource Authority	2,980	7,420	52%
GSA; ESP	COG; STM: 104,000 Lbs/Hr; ELE: 1.4 MW	Wasatch Energy Systems	896	39,861[2]	52%
SDA; FF; SNCR; CI	ELE: 22 MW	Covanta Alexandria/Arlington, Inc.			28%
SDA; FF[3]	STM: 66,000 Lbs/Hr	NASA & City of Hampton/ City of Hampton			36%
DSI; FF	COG; STM: 43,000 Lbs/Hr; ELE: 2.5 MW	City of Harrisonburg			35%
SDA; FF; SNCR; CI	ELE: 79 MW	Covanta Fairfax, Inc.	24,264	249	32%
FF; Deodorizer (Odor Control)	RDF Fuel	SPSA	8,500		32%

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VIRGINIA (continued)				
Southeastern Public Service Authority of Virginia–Power Plant (Receives RDF from SPSA)/ Portsmouth	4x500=2,000	CO; CO_2; HCl; NO_x; O_2; Opacity; SO_2	RDF–SSWW	OP/1988
WASHINGTON				
Spokane Regional Solid Waste Disposal Facility/Spokane	2x400=800	CO_2; NO_x; O_2; Opacity; SO_2	MBWW	OP/1991
WISCONSIN				
Barron County Waste-to-Energy & Recycling Facility/Almena	2x50=100	Opacity; Temperature	MCU	OP/1986
Xcel Energy Resource Recovery Facility (La Crosse County)/ French Island	2x251=502	CO; Opacity; NO_x; SO_2	RDF–SSWW (Co-Fired with Wood Waste)	OP/1988

APC System	Energy Capacity/ Output	Owner/Operator	On-Site Ferrous Recovered (TPY)	Other On-Site Materials Recovery (TPY)	Community Recycling Percentage[1]
SDA; FF	COG; STM: 25,000 Lbs/Hr; ELE: 50 MW	SPSA	750	148,920[2]	32%
SDA; FF; SNCR; CI	ELE: 26 MW	City of Spokane/Wheelabrator	10,453	37,315	45%
DSI; ESP; CI	COG; STM: 19,000 Lbs/Hr; ELE: 0.265 MW	Barron County/ZAC, Inc.	1,242	1,162	20%
DSI; FF; SNCR	ELE: 32 MW	Xcel Energy	2,300		18%

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INTEGRATED
WASTE SERVICES
ASSOCIATION

The Integrated Waste Services Association is a national trade group located in Washington, D.C. For more information about waste-to-energy and integrated waste management, call IWSA at (202) 467-6240.

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Energy from Waste
State-of-the-Art- Report

5th Edition
Data 2006

This is the fifth edition of the report on waste incineration. The report presents a comparison of the situation in: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Italy, Netherlands, Norway, Poland, Spain, Sweden and Switzerland.

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