



Taking the lead with facts and figures that pay off for municipalities, companies and the environment.

EEW Energy from Waste brief information.



Welcome to EEW Energy from Waste!

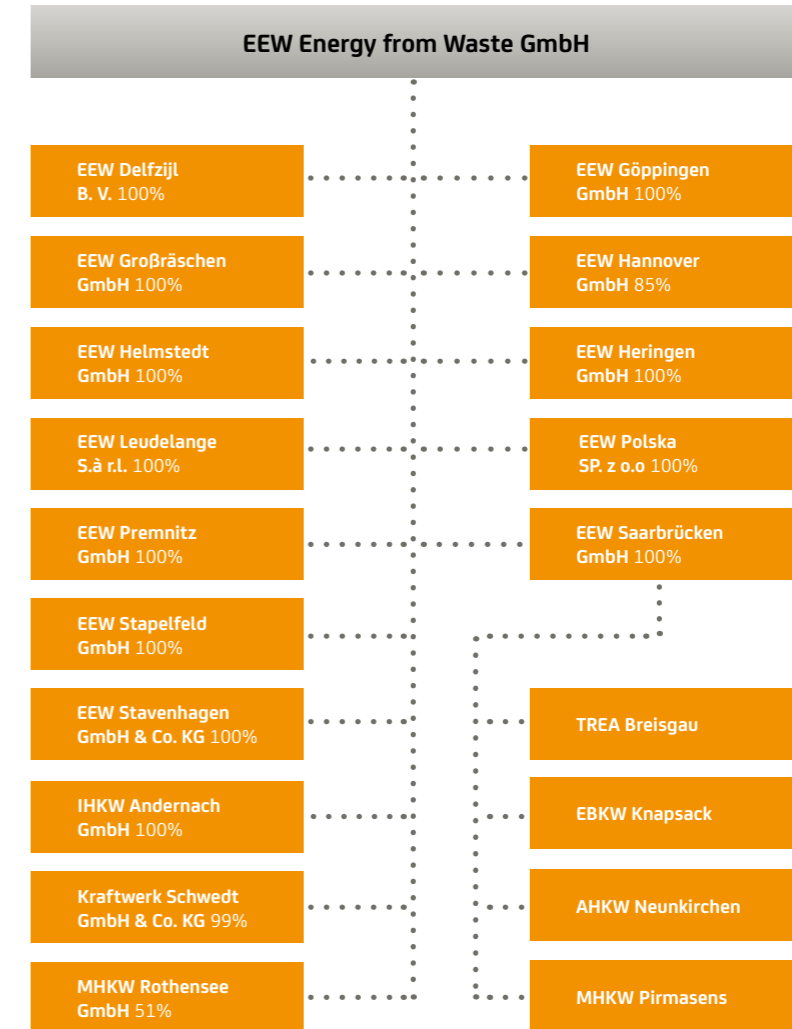
Energy is essential to everyday life. Since supplies of fossil fuels are limited, the use of energy from waste is becoming increasingly important. As Germany's leading company in the production of environmentally friendly energy from thermal waste recovery, it is our mission to take the lead: With ultra-modern energy from waste plants. With state-of-the-art technology that meets the latest environmental standards. With highly qualified, dedicated employees. With good and constructive relationships with citizens, municipalities and companies. And, of course, with environmentally friendly energy from waste.



1 tonne of waste = 600 KWh of power

Power from waste is an important resource. The calorific value of the material is comparable to that of brown coal making it virtually predestined for energy use.

The corporate structure of EEW Energy from Waste (simplified):





Around

1,150

Employees



Approx.

5,000,000

tonnes of energy recycling capacity



18

Plants in Germany and in neighbouring countries



Approx.

3,400,000

megawatt hours of process steam and district heating generated in a resource-friendly manner



Around

2,500,000

megawatt hours of power produced in a climate-friendly manner

Reference:

power, district heating and steam volume produced by our currently 18 EEW Energy from Waste plants in 2018



Taking the lead
with environmentally friendly
energy from waste.



**We tackle the future.
And assume responsibility.**

For around 30 years, the EEW Energy from Waste Group has been planning, building and operating thermal waste treatment plants that set standards across Europe. Our current network of 18 plants in Germany and neighbouring countries has a yearly energy recovery capacity of around 5.0 million tonnes of waste. We efficiently utilise the energy contained in the waste to generate process steam for industrial plants, district heating for residential areas and eco-friendly electricity. EEW's electricity output alone corresponds to the power required by around 700,000 households.*

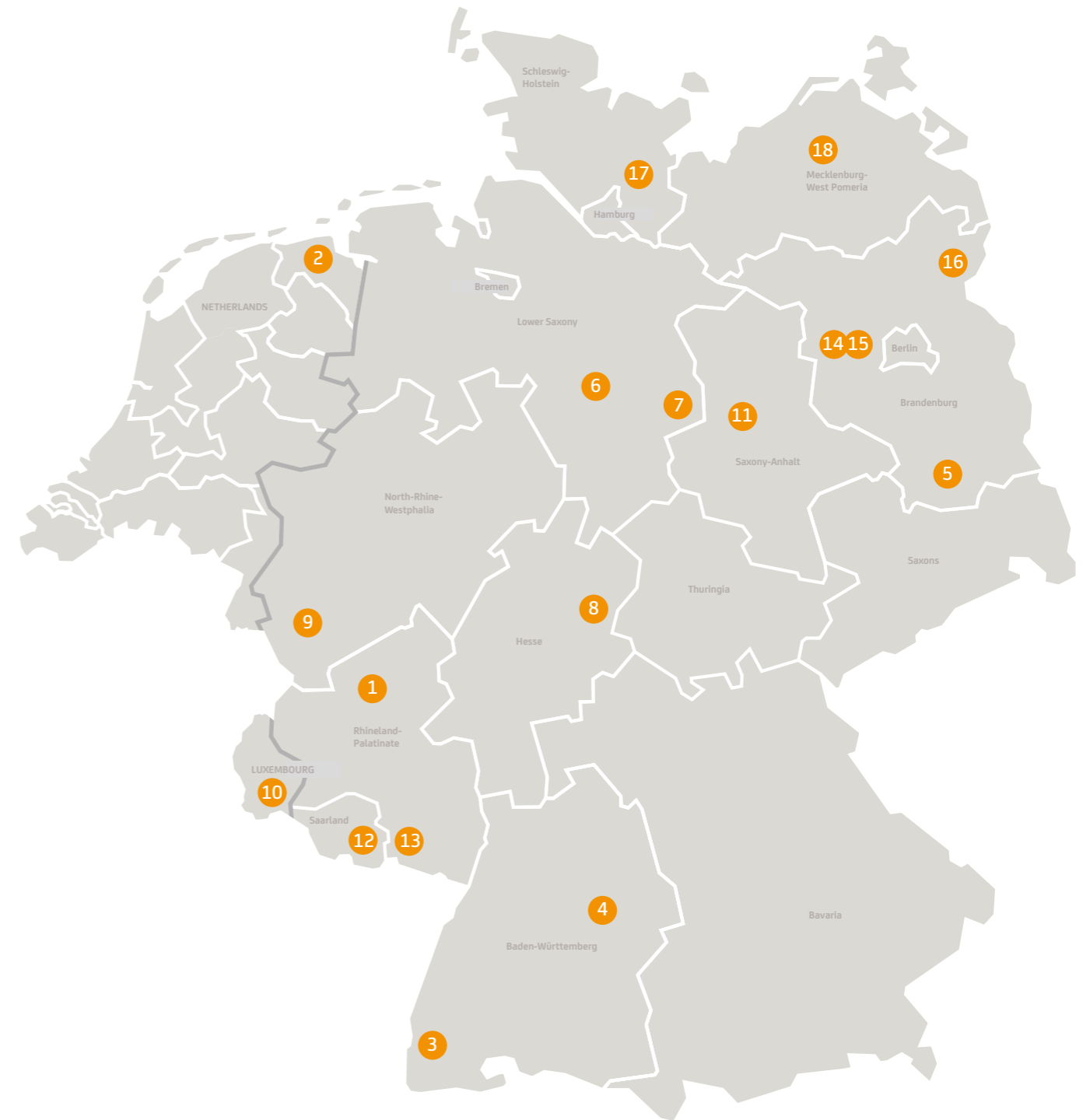
By using state-of-the-art technologies, we ensure a high degree of efficiency, availability and environmental protection. In addition to the expertise that we have acquired over the years, our size is also an advantage for our customers. In EEW's plant network, we have created a unique logistical infrastructure which offers maximum flexibility in acceptance capacity and therefore guarantees reliable waste management in both the short and long term.

For us, taking the lead means being excellent today and even better tomorrow. We want to be measured by our performance, our low emissions and our success.

* Assumed average annual household energy consumption: 3,500 kWh

**EEW plants symbolise high efficiency and low emissions.
In 18 plants in Germany and in neighbouring countries.**

	Location	Commissioning	Lines	Capacity t/a
1	Andernach	2008	1	140,000
2	Delfzijl (Netherlands)	2010	3	576,000
3	Eschbach (Breisgau)	2005	1	175,000
4	Göppingen	1975	1	168,000*
5	Großbräschen	2008	1	260,000
6	Hannover	2005	2	280,000
7	Helmstedt	1998	3	525,000
8	Heringen	2009	2	297,600
9	Knapsack (Hürth)	2009	2	320,000
10	Leudelange (Luxembourg)	2010	1	175,000
11	Magdeburg-Rothensee	2005/2006	4	660,000
12	Neunkirchen	1970	2	160,000
13	Pirmasens	1999	2	180,000
14	Premnitz (fluidised bed firing)	2001	1	120,000
15	Premnitz (grate firing)	2008	1	150,000
16	Schwedt	2010	1	330,000
17	Stapelfeld	1979	2	350,000
18	Stavenhagen	2007	1	140,000
			31	5,006,600





**Taking the lead
for the air purity requirement.**

**We shrink the carbon footprint.
A benefit for the environment.**

Generating energy from waste actively contributes to environmental protection. As waste contains 50 per cent biogenic substances on average, it is recognised that energy from waste plants produce energy from renewable sources pursuant to the Germany's Renewable Energy Sources Act (EEG). By utilising waste as a resource to generate energy, the use of primary energy sources such as coal, natural gas and oil can be avoided. At the same time, the energy recovery of the fuels used in EEW's plants leads to a smaller carbon footprint.

EEW's technologically sophisticated plants provide safe and environmentally friendly waste treatment. In the combustion process, the pollutants contained in the waste are either destroyed or removed from the materials cycle. Filtered-out raw materials and residues, such as bottom ash for road construction, are recovered and brought back into the materials loop. This value-adding process reduces the waste volume in total by approximately 90 per cent. Another area where we take the lead: Emissions from EEW plants are substantially below the strict statutory limits. In most cases, the air that leaves our plants is considerably less contaminated than city air.

**We place a high value on transparency.
Why not come and see for yourself?**

You are cordially invited to visit the EEW site of your choice. Contact us to set up a tour of the plant with expert employees who will be pleased to explain to you the plant technology, environmentally friendly waste recovery and energy generation. We look forward to hearing from you!

Our plants

Andernach



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Technical data

Commissioning	2008/2009
Total investment	€ 85 million
Capacity	140,000 tonnes RDF/year
Number of combustion lines	1
Waste bunker capacity	6,260 cubic metres ≈ 2,191 tonnes
Calorific range of waste	11 - 15 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	84,000 megawatt hours/year ≈ 24,000 households
Process steam generation	294,000 megawatt hours/year

Delfzijl (Netherlands)



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Technical data

Commissioning	2010/2019
Total investment	€ 230 million
Capacity	576,000 tonnes/year
Number of combustion lines	3
Waste bunker capacity	15,000 cubic metres ≈ 13,500 tonnes
Calorific range of waste	8 - 16 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	185,000 megawatt hours/year ≈ 53,000 households
Process steam generation	463,000 megawatt hours/year

Eschbach (Breisgau)



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Technical data

Commissioning	2005
Total investment	€ 83 million
Capacity	175,000 tonnes/year
Number of combustion lines	1
Waste bunker capacity	20,000 cubic metres ≈ 10,000 tonnes
Calorific range of waste	7 - 16 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	123,000 megawatt hours/year ≈ 35,000 households
District heating generation	12,000 megawatt hours/year

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Technical data

Commissioning	1975
Commissioning replacement line	1998
Total investment	€ 75 million
Capacity	168,000 tonnes/year - 3 year average
Number of combustion lines	1
Waste bunker capacity	6,400 cubic metres ≈ 3,200 tonnes
Calorific range of waste	9 - 11 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	88,000 megawatt hours/year ≈ 25,000 households
District heating generation	52,000 megawatt hours/year

Großräschen



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Technical data

Commissioning	2008
Total investment	€ 88 million
Capacity	260,000 tonnes/year
Number of combustion lines	1
Waste bunker capacity	12,000 cubic metres ≈ 6,000 tonnes
Calorific range of waste	11 - 18 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	175,000 megawatt hours/year ≈ 50,000 households
District heating generation	3,000 megawatt hours/year

Hannover



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Technical data

Commissioning	2005
Total investment	€ 100 million
Capacity	280,000 tonnes/year
Number of combustion lines	2
Waste bunker capacity	10,000 cubic metres ≈ 5,000 tonnes
Calorific range of waste	8-17 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	195,000 megawatt hours/year ≈ 56,000 households

Helmstedt



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Technical data

Commissioning	1998
Enlargement	2005
Total investment	€ 241 million
Capacity	525,000 tonnes/year
Number of combustion lines	3
Waste bunker capacity	20,000 cubic metres ≈ 10,000 tonnes
Calorific range of waste	7 - 12 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	283,000 megawatt hours/year ≈ 81,000 households

Heringen



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Technical data

Commissioning	2009
Total investment	€ 130 million
Capacity	297,600 tonnes/year
Number of combustion lines	2
Waste bunker capacity	15,000 cubic metres ≈ 7,500 tonnes
Calorific range of waste	8 - 18 megajoules/kilograms
Combustion temperature	> 850 °C
Process steam generation	918,000 megawatt hours/year

Knapsack (Hürth)



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Technical data

Commissioning	2009
Total investment	€ 105 million
Capacity	320,000 tonnes/year
Number of combustion lines	2
Waste bunker capacity	17,000 cubic metres ≈ 10,000 tonnes
Calorific range of waste	11 - 17 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	214,000 megawatt hours/year ≈ 61,000 households
Process steam generation	65,000 megawatt hours/year

Leudelange (Luxembourg)



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Technical data

Commissioning	2010
Total investment	€ 100 million
Capacity	175,000 tonnes/year
Number of combustion lines	1
Waste bunker capacity	13,000 cubic metres ≈ 7,500 tonnes
Calorific range of waste	8 - 14 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	124,000 megawatt hours/year ≈ 35,000 households

Magdeburg-Rothensee



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Technical data

Commissioning	2005/2006
Total investment	€ 250 million
Capacity	660,000 tonnes/year
Number of combustion lines	4
Waste bunker capacity	24,000 cubic metres ≈ 12,000 tonnes
Calorific range of waste	7.5 - 15 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	390,000 megawatt hours/year ≈ 111,000 households
District heating generation	396,000 megawatt hours/year

Neunkirchen



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Technical data

Commissioning	1969
Renewal	1996 - 2001
Optimization	2010 - 2011
Total investment	€ 175 million
Capacity	160,000 tonnes/year
Number of combustion lines	2
Waste bunker capacity	4,000 cubic metres ≈ 2,500 tonnes
Calorific range of waste	7.5 - 12.5 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	73,000 megawatt hours/year ≈ 21,000 households
District heating generation	24,000 megawatt hours/year

Pirmasens



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Technical data

Commissioning	1999
Total investment	€ 178 million
Capacity	180,000 tonnes/year
Number of combustion lines	2
Waste bunker capacity	5,300 cubic metres ≈ 3,000 tonnes
Calorific range of waste	7 - 15 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	113,000 megawatt hours/year ≈ 32,000 households
District heating generation	26,000 megawatt hours/year

Premnitz (fluidised bed firing)



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Technical data

Commissioning	2001
Capacity	120,000 tonnes/year
Number of combustion lines	1
Calorific range of waste	11 - 20 megajoules/kilograms
Combustion temperature	> 760 °C
Power generation (Premnitz total)	87,000 megawatt hours/year ≈ 25,000 households
District heating generation (Premnitz total)	41,000 megawatt hours/year
Process steam generation (Premnitz total)	92,000 megawatt hours/year

Premnitz (grate firing)



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Technical data

Commissioning	2008
Investment	€ 70 million
Capacity	150,000 tonnes/year
Number of combustion lines	1
Waste bunker capacity	18,000 cubic metres ≈ 9,000 tonnes
Calorific range of waste	8.5 - 16 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation (Premnitz total)	87,000 megawatt hours/year ≈ 25,000 households
District heating generation (Premnitz total)	41,000 megawatt hours/year
Process steam generation (Premnitz total)	92,000 megawatt hours/year

Schwedt



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Technical data

Commissioning	2010
Total investment	160 million euros
Capacity	330,000 tonnes/year
Number of combustion lines	1
Waste bunker capacity	17,000 cubic metres ≈ 5,000 tonnes
Calorific range of waste	8 - 25 megajoules/kilograms
Combustion temperature	> 750 °C
Power generation	178,000 megawatt hours/year ≈ 51,000 households
Process steam generation	661,000 megawatt hours/year

Stapelfeld



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Technical data

Commissioning	1979
Total investment	€ 240 million
Capacity	350,000 tonnes/year
Number of combustion lines	2
Waste bunker capacity	12,000 cubic metres ≈ 6,000 tonnes
Calorific range of waste	7.5 - 12.5 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	133,000 megawatt hours/year ≈ 38,000 households
District heating generation	244,000 megawatt hours/year

Stavenhagen



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Technical data

Commissioning	2007
Total investment	50 million euros
Capacity	140,000 tonnes/year
Number of combustion lines	1
Waste bunker capacity	5,000 cubic metres ≈ 2,500 tonnes
Calorific range of waste	11 - 18 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	55,000 megawatt hours/year ≈ 16,000 households
Process steam generation	109,000 megawatt hours/year

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Taking the lead with excellent services.

Measurable quality is also reflected in certifications. They underline the excellent collaboration and the outstanding performance of our plants and our company headquarters.

- Certified quality management system (ISO 9001)
- Certified occupational safety management system (BS OHSAS 18001)
- Certified environmental management system (ISO 14001)
- Certified energy management system (ISO 50001)
- Our plants are also certified waste management facilities pursuant to the Waste Management Facility Regulation (EfbV)



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2019-10

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A decorative graphic at the bottom of the page consisting of several overlapping, wavy, organic shapes in various shades of orange and yellow, creating a sense of movement and energy.