




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

EEW Energy from Waste brief information.

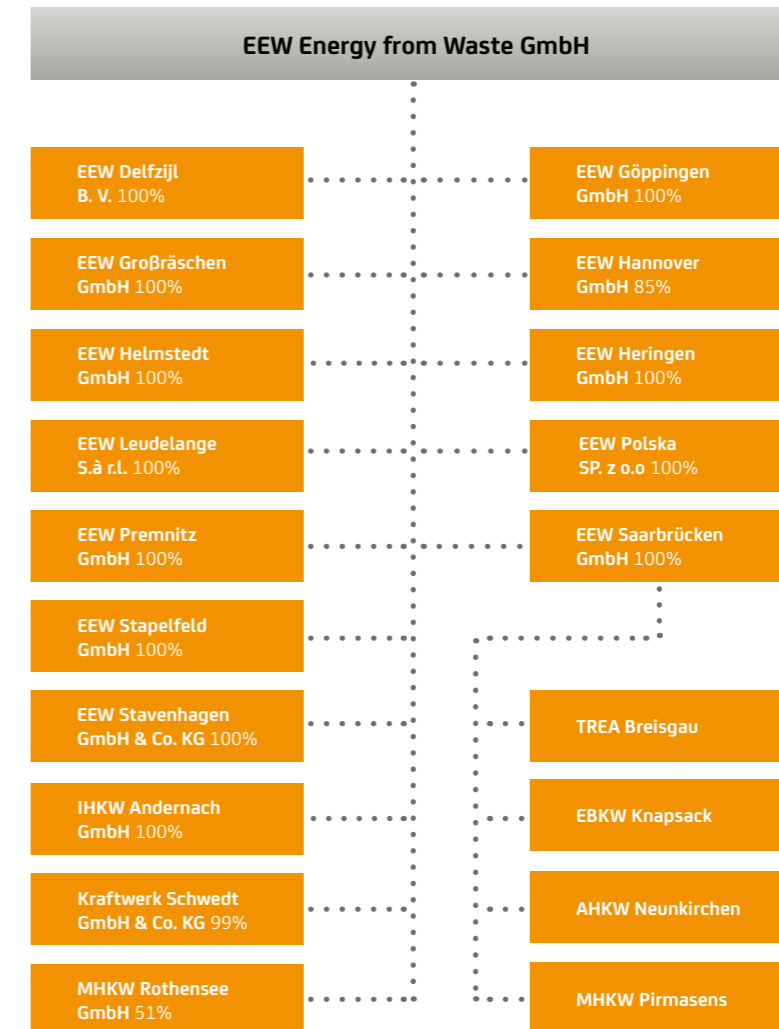


Welcome to EEW Energy from Waste!

Energy is the basis of our life. As fossil fuels are only available in limited quantities, using the energy of waste as a resource is becoming increasingly important. As Germany's leading company in the production of environmentally friendly energy from thermal waste recycling, it is our task to take the lead. With highly modern energy from waste plants that are state-of-the-art from a technical and ecological perspective. With superbly qualified, dedicated employees. With good and effective 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 high 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.

4,700,000

tonnes of energy recycling capacity



18

Plants in Germany and in neighbouring countries



Approx.

3,500,000

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



Around

2,400,000

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 2017



Taking the lead
with environmentally friendly
energy from waste.



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

The EEW Energy from Waste Group has been planning, building and operating energy from waste plants that set standards across Europe for about 30 years. The 18 plants that we have currently in Germany and neighbouring countries have a yearly energy recycling capacity of around 4.7 million tonnes of waste. We make efficient use of the energy contained in it and generate process steam for industrial companies, district heating for residential areas and environmentally friendly power. The power volume produced by EEW alone corresponds to the electricity requirements of around 700,000 households*.

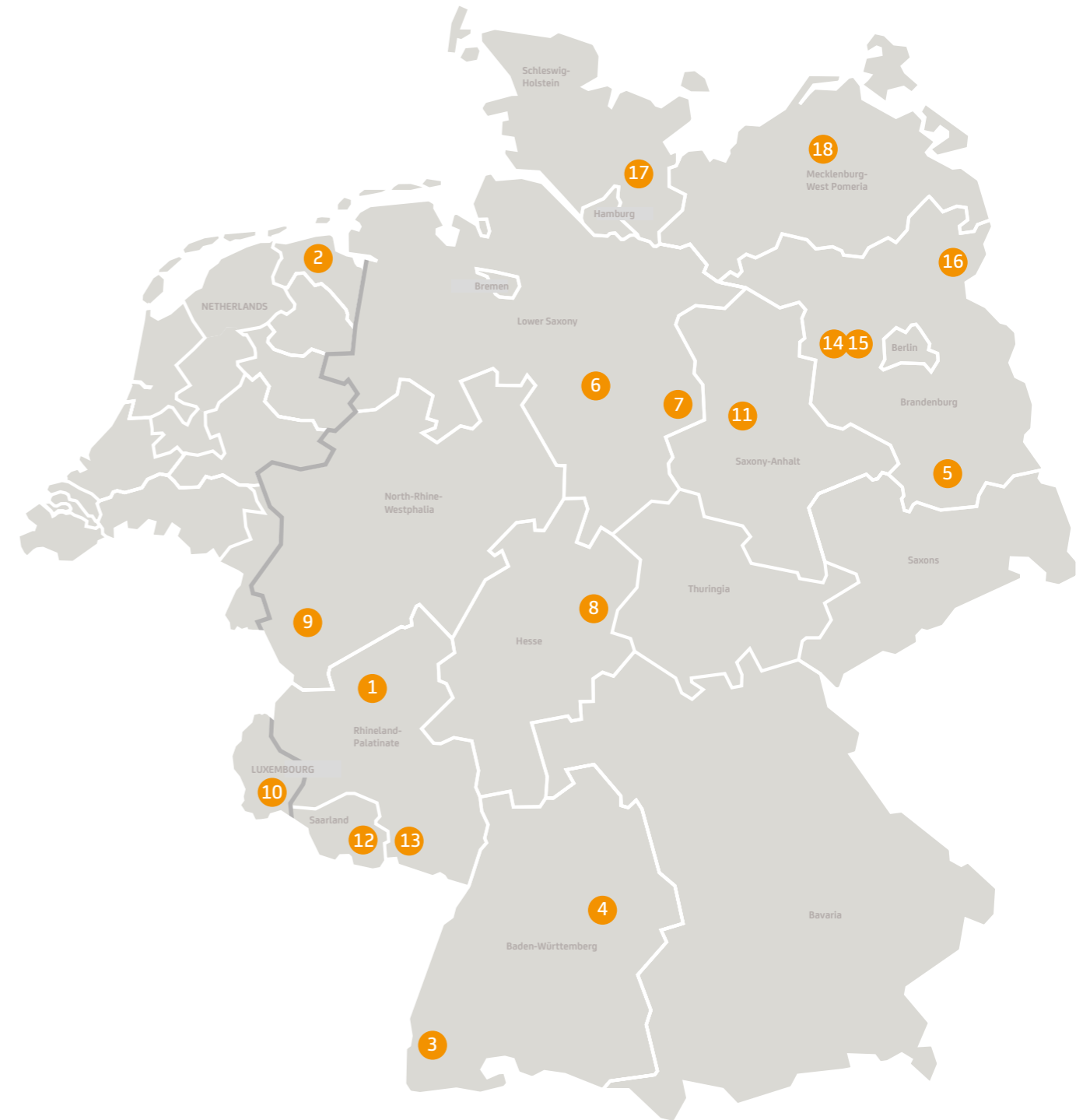
The consistent use of state-of-the-art technologies meets the highest requirements with regard to efficiency, availability and environmental protection. In addition to the expertise that we have acquired over the years, our size is also an advantage for our customers. In the EEW plant network, we have created a unique logistical infrastructure that guarantees maximum flexibility in the take-up capacity and thus security of supply in the short and long term.

For us, taking the lead means being excellent today and even better tomorrow. Measure us by our performance, our low emissions and our success.

* Assumed annual average requirements per household: 3,450 kWh

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

	Location	Commissioning	Lines	Capacity kt/a
1	Andernach	2008	1	140
2	Delfzijl (Netherlands)	2010	2	384
3	Eschbach (Breisgau)	2005	1	175
4	Göppingen	1975	1	157.7
5	Großbräschen	2008	1	260
6	Hannover	2005	2	280
7	Helmstedt	1998	3	525
8	Heringen	2009	2	297.6
9	Knapsack (Hürth)	2009	2	320
10	Leudelange (Luxembourg)	2010	1	175
11	Magdeburg-Rothensee	2005/2006	4	660
12	Neunkirchen	1970	2	150
13	Pirmasens	1999	2	180
14	Premnitz (fluidised bed firing)	2001	1	120
15	Premnitz (grate firing)	2008	1	150
16	Schwedt	2010	1	330
17	Stapelfeld	1979	2	350
18	Stavenhagen	2007	1	130
			30	4,784.3





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

**We're improving the CO₂ balance.
A benefit for the environment.**

Energy generation from waste is active environmental protection. With an average share of 50% biogenic substances in waste, it is recognised that energy from waste plants produce energy from renewable sources pursuant to the Renewable Energies Act (EEG). By using energy from the resource represented by waste, the use of primary energy sources such as coal, gas and oil can be avoided. At the same time, energetic utilisation of the fuels used in the EEW plants ensures improvement of the CO₂ balance.

The technologically advanced EEW plants guarantee safe and environmentally friendly treatment of waste. In the energy from waste process, the pollutants contained in the waste are either destroyed or removed from the materials cycle. We recycle filtered-out raw materials and residues such as bottom ash for road construction into the materials cycle. In the value added process, the waste volume is reduced in total by approx. 90%. Also exemplary: 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 attach great importance to transparency.
Why not come and see for yourself?**

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

Our plants

Andernach



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Technical data

Commissioning	2008/2009
Total investment	85 million euros
Capacity	140,000 tonnes/year
Number of combustion lines	1
Waste bunker capacity	6,700 cubic metres ≈ 2,400 tonnes
Calorific range of waste	11 - 15 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	82,000 megawatt hours/year ≈ 24,000 households
Process steam generation	301,000 megawatt hours/year

Delfzijl (Netherlands)



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Technical data

Commissioning	2010
Total investment	160 million euros
Capacity	384,000 tonnes/year
Number of combustion lines	2
Waste bunker capacity	15,000 cubic metres ≈ 13,500 tonnes
Calorific range of waste	8 - 16 megajoules/kilograms
Combustion temperature	> 850 °C
Power generation	166,000 megawatt hours/year ≈ 48,000 households
Process steam generation	482,000 megawatt hours/year

Eschbach (Breisgau)



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Technical data

Commissioning	2005
Total investment	83 million euros
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	113,000 megawatt hours/year ≈ 33,000 households
District heating generation	11,000 megawatt hours/year

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Technical data

Commissioning	1975
Commissioning replacement line	1998
Total investment	75 million euros
Capacity	157,700 tonnes/year
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	51,000 megawatt hours/year

Großräschen



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Technical data

Commissioning	2008
Total investment	88 million euros
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	166,000 megawatt hours/year ≈ 48,000 households
District heating generation	3,000 megawatt hours/year

Hannover



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Technical data

Commissioning	2005
Total investment	100 million euros
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	177,000 megawatt hours/year ≈ 51,000 households

Helmstedt



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Technical data

Commissioning	1998
Enlargement	2005
Total investment	241 million euros
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	290,000 megawatt hours/year ≈ 84,000 households

Heringen



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Technical data

Commissioning	2009
Total investment	130 million euros
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	954,000 megawatt hours/year

Knapsack (Hürth)



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Technical data

Commissioning	2009
Total investment	105 million euros
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	228,000 megawatt hours/year ≈ 66,000 households
Process steam generation	47,000 megawatt hours/year

Leudelange (Luxembourg)



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Technical data

Commissioning	2010
Total investment	100 million euros
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 ≈ 36,000 households

Magdeburg-Rothensee



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Technical data

Commissioning	2005/2006
Total investment	250 million euros
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	385,000 megawatt hours/year ≈ 112,000 households
District heating generation	413,000 megawatt hours/year

Neunkirchen



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Technical data

Commissioning	1969
Renewal	1996 - 2001
Optimization	2010 - 2011
Total investment	175 million euros
Capacity	150,000 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	78,000 megawatt hours/year ≈ 21,000 households
District heating generation	21,000 megawatt hours/year

Pirmasens



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Technical data

Commissioning	1999
Total investment	178 million euros
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	109,000 megawatt hours/year ≈ 32,000 households
District heating generation	30,000 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)	90,000 megawatt hours/year ≈ 26,000 households
District heating generation (Premnitz total)	127,000 megawatt hours/year
Process steam generation (Premnitz total)	118,000 megawatt hours/year

Premnitz (grate firing)



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Technical data

Commissioning	2008
Investment	70 million euros
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)	90,000 megawatt hours/year ≈ 26,000 households
District heating generation (Premnitz total)	127,000 megawatt hours/year
Process steam generation (Premnitz total)	118,000 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	149,000 megawatt hours/year ≈ 43,000 households
Process steam generation	609,000 megawatt hours/year

Stapelfeld



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Technical data

Commissioning	1979
Total investment	240 million euros
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	136,000 megawatt hours/year ≈ 40,000 households
District heating generation	253,000 megawatt hours/year

Stavenhagen



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Technical data

Commissioning	2007
Total investment	50 million euros
Capacity	130,000 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	57,000 megawatt hours/year ≈ 17,000 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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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.