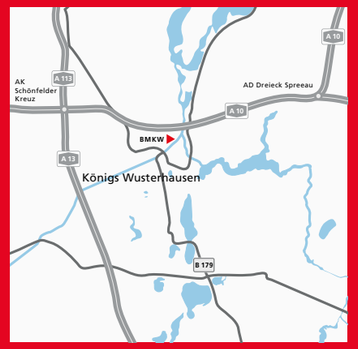
How to find us

Leave the A10 (South Berlin Ring) at Junction 9 (Niederlehme). Follow signs for Wildau when leaving the motorway. On the roundabout, take the second exit. Once you pass the Wildau town entrance sign, follow the road turning off to the left (Brückenstrasse). After around 200m, turn left into the street “Am Nordhafen”. After a further 150m you will reach your destination.



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Delivery hours
Mon-Fri 7.00 a.m. - 6.00 p.m.

We inspire
with energy.

Climate-neutral energy from biomass

Our biomass power plant in Königs Wusterhausen

Renewable energies and energy efficiency

Our future energy supply will be renewable. With more than 50 years of experience in generating energy from waste timber, non-recyclable timber and from household and commercial waste, we are one of the technology leaders in these areas. Our plants in Germany and the UK incinerate more than 2 million tonnes of waste a year and turn this into valuable energy in the form of electricity and heating. In this, we consistently rely on combined heat and power generation to make the most efficient use of the energy contained in the fuel.

End-to-end resource management
As well as planning, building and operating power plants, we also implement end-to-end resource management for our customers. We develop individual strategies for public sector disposal companies and our industrial and commercial partners and take due account of the various kinds of waste and recycling options. We also plan and build waste treatment and power plant facilities using state-of-the-art technology.

Biomass stands for environmental and climate protection
Generating energy from waste timber and non-recyclable timber is particularly beneficial in terms of climate protection and the energy system. After all, timber is a natural product and, when incinerated, only releases that volume of CO2 which the tree previously absorbed during its growth stage. Electricity from biomass is therefore climate-neutral. Unlike wind and solar power, the power plants are also not dependent on weather conditions. This means they have a particularly important role to play in building a reliable energy supply from renewable sources.

Königs Wusterhausen Biomass Power Plant

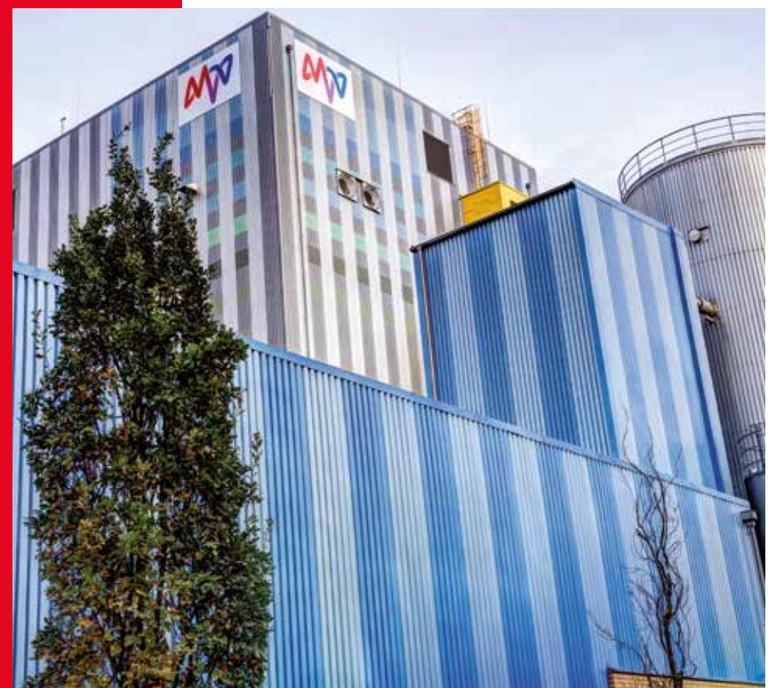
We generate energy – ecological, efficient and clean

Our biomass power plant in Königs Wusterhausen to the south of Berlin has incinerated waste timber and non-recyclable timber since 2003. We can accept ready fuels as well as raw materials which we ourselves then prepare for incineration.

Boiler with circulating fluidised bed
Our power plant incinerates around 16 tonnes of treated waste timber and non-recyclable timber an hour. The centrepiece of the plant – the biomass boiler – works in line with the circulating fluidised bed principle. This has the advantage that the fuel remains in the firing chamber longer than with other designs and is therefore completely incinerated. This makes sure that the energy contained in the fuel is used efficiently while also reducing nitrogen oxide emissions.

High electricity efficiency
Making the most efficient use of energy is also the key focus when it comes to generating electricity. We use the heat from the flue gas flow and the circulating flow of sand and ash to produce around 64 tonnes of steam an hour at the plant. The steam drives a condensing turbine, which powers a generator with electrical capacity of 20 megawatts. This way, we achieve an electricity efficiency rate of more than 35 percent.

Multistage flue cleaning
The cutting-edge technology in our flue gas cleaning plant ensures that the power plant falls short of strict legal threshold values. Harmful acidic gases, heavy metals, dioxins and furans are bound at the plant by adding lime hydrates and activated coke and then removed together with the remaining dust in a fabric filter. The residues resulting from flue gas cleaning are used as backfill in the mining industry.



Facts and Figures

Approval
17th BImSchV
Subsidy period
20 years under EEG legislation
Launch of operations
2003
Timber types
AI – AIV timbers
Firing
Circulating fluidised bed
Timber silos
2 × 7,500 m³ capacity
Annual throughput
120,000 Mg/a
Treatment capacity
50 Mg/h
Design calorific value
15,400 kJ/kg
Electrical efficiency
> 35 percent
Electricity production
160,000 MWh/a