

## How to find us

Von der A10, Südlicher Berliner Ring, fahren Sie bis zur Ausfahrt Nr. 9, Niederlehme. Biegen Sie ab Richtung Wildau. Im Kreisverkehr nehmen Sie die zweite Ausfahrt. Nach dem Ortseingangsschild Wildau folgen Sie der abbiegenden Straße nach links (Brückenstraße). Nach ca. 200 m biegen Sie links ab in die Straße „Am Nordhafen“. Nach weiteren ca. 150 m haben Sie das Ziel erreicht



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### Delivery hours

Mon-Fri 6.00 a.m. - 9.00 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 CO<sub>2</sub> 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 m<sup>3</sup> 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

