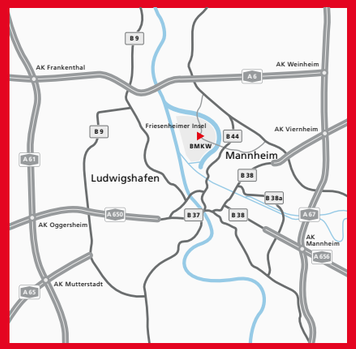
How to find us

Turn off the A6 at the Mannheim-Sandhofen junction. Then drive along the B44 until you reach the Friesenheimer Insel exit. Turn into Bürstädter Strasse and then Diffenéstrasse to access Friesenheimer Insel.

Alternatively, take city railway lines 1 or 3 from Mannheim Central Station to Luzenberg. Change here to bus line 58 heading for “Heizkraftwerk”. The Mannheim-Luzenberg station is also on the national railway network.



MVV Umwelt Asset GmbH
Mannheim Biomass Power Plant
Otto-Hahn-Straße 1
68169 Mannheim, Germany
T +49 621 290 46 01
F + 49 621 290 46 06
info-umwelt@mvv.de
www.mvv-umwelt.de

Delivery hours
Mon-Fri 6.30 a.m. - 6.30 p.m.r

We inspire
with energy.

Green electricity from regenerative resources

Our biomass power plant in Mannheim

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_2 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.

Mannheim Biomass Power Plant

State-of-the-art technology to protect our climate

Our biomass power plant in Mannheim has incinerated all categories of waste timber and non-recyclable timber since 2003. A proprietary plant converts the timber into wood chippings that are then incinerated.

Boiler with spreader-suspension firing
Our power plant incinerates around 15 tonnes of waste timber and non-recyclable timber an hour. Incineration is managed with spreader-suspension firing. This technology involves using air to blow the wood chippings into the firing chamber. This way, the smaller chips already burn while in suspension. Larger chips fall onto the grate, where they burn out. We use the energy from the timber to generate a reliable supply of green electricity with a capacity of 20 megawatts.

Using residues and flue gas cleaning
The cutting-edge technology in our flue gas cleaning plant ensures that the power plant falls short of the strict legal threshold values set out in the 17th Federal Immissions Protection Ordinance (BImSchV). In the boiler, nitric oxides (NOx) are converted into atmospheric nitrogen and steam using the SNCR (selective non-catalytic reduction) process. De-dusting the waste gases and adding lime hydrate and activated coke enables contaminants to be bound and subsequently filtered out. The residues from the flue cleaning process are used as backfill in the mining industry. The ash resulting from incineration is put to environmentally-friendly use as a material in road construction and landscaping.

Facts and Figures

Approval
17th BImSchV
Subsidy period
20 years under EEG legislation
Launch of operations
2003
Timber types
AI – AIV timbers
Firing
Travelling grate with spreader-suspension firing
Storage capacity
Approx. 5,000 Mg
Annual throughput
140,000 Mg/a
Treatment capacity
50 Mg/h
Design calorific value
15,400 kJ/kg
Electricity production
160,000 MWh/a
Power plant staff
15 employees
Treatment
10 employees