Our Location

MVV Environment Devonport Ltd
Devonport EfW CHP Facility
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We inspire
with energy.

Generating energy from waste: maximum efficiency

Our energy from waste plant in Plymouth

MVV

Protecting resources and the climate

Our future energy supply will be environmentally compatible and resource efficient. We are putting this principle into practice. 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.

Crucial for a modern recycling-based economy
Generating energy from waste whose constituent materials cannot be reused is a crucial aspect of a modern recycling-based economy committed to protecting the climate and resources. We work with cutting-edge technology at our power plants and make a key contribution towards sustainably protecting the environment.

Devonport EfW CHP Facility

A CHP plant for Plymouth – and a benchmark for the UK

Our MVV Environment Devonport subsidiary has operated a state-of-the-art energy from waste plant in Plymouth in south-west England since 2015. The client is the special purpose entity South West Devon Waste Partnership, which pools the waste from the towns of Plymouth, Torbay and parts of the county of Devon. The contract has a term of at least 25 years.

A location with particular benefits
Our power plant is directly adjacent to the Devonport Royal Dockyard in Plymouth, Europe's oldest and largest naval base. That offers optimum conditions for building a state-of-the-art CHP plant.
As the largest energy consumer in the region, the Royal Navy saves substantial energy costs by procuring its electricity and heating energy directly from the plant. This way, local councils also benefit from lower waste charges. The plant has an annual incineration capacity of 245,000 tonnes and, when district steam is coupled out, achieves an efficiency rate of up to 49 percent.

Here's to being good neighbours!
Our power plant in Plymouth is in the middle of the town and the nearest residential area is just a stone's throw away. We already accounted for this special situation when planning the power plant by ensuring the lowest possible level of noise and odour emissions. This way, we have created one of Europe's quietest power plants.
By offering an adjacent wood as a "green lung" and having the waste delivered in a separate building, we ensure that our plant does not disturb anyone.

Facts and Figures

Launch of operations
2015
Waste types
Municipal waste and
industrial and commercial waste
Firing
Forward feed grate
Number of boilers
1
Waste bunker
More than 10 days capacity
Annual throughput
245,000 Mg/a
Design calorific value
9,500 kJ/kg
Live steam production
Approx. 820,000 Mg/a at 60 bar, 420 °C
Electricity production
190,000 MWh/a
Staff
30 employees