

Dry Anaerobic Digestion Plant Zwoenitz

Plant Type: BIOFerm Dry AD, 549 kW_{el}

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Biogas plant to feed into the electrical grid and the local district heating network.

■ **Project data:**

Owner and operator:	envia THERM GmbH, Germany
Plant engineering:	BIOFerm GmbH, 92421 Schwandorf, Germany
Location:	08297 Zwoenitz, Hartensteiner Str. 15, Germany
Start of operation:	October 2011

■ **Energy balance:**

Feed-in capacity/a:	Approx. 4.4 million kWh/a electric and 4.9 million kWh/a thermal output; potential electric power requirement for approx. 1.100* households* as well as heat supply for approx. 280 households*. <small>*3-person household in Germany with 120m² living area incl. hot water generation.</small>
Energy efficiency:	High energy efficiency (approx. 85% efficiency) through the utilisation of heat in the local campus district heating network and electricity (feed-in the grid) all year round.
Feed-in:	Electrical grid and local district heating network.

■ **Input material:**

Municipal organic waste.

■ **Plant data:**

Quantity	Plant component	Dimension/Capacity
1	Mixing area	1.100m ²
6	Digesters	30 x 7 x 5 m
1	Percolate storage	480 m ³
2	CHP (1 x 360, 1 x 189 kW _{el})	549 kW _{el}
1	Ventilation system	15.000m ³ /h
6	Compost boxes (GORE™-composting)	25 x 8 x 2,5 m each
1	End storage	860m ³
1	Control room/meeting room	