

Dry Anaerobic Digestion Biogas Plant Allendorf (Eder)

Plant Type: BIOTech 104, 190 kW_{el}

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Referenzen

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

■ Project data:

Owner and operator:	Viessmann Biogas KG
Plant engineering:	BIOFerm GmbH, Schwandorf
Location:	35108 Allendorf (Eder), Viessmannstr. 1, Germany
Start of operation:	August 2010

■ Energy balance:

Feed-in capacity/a:	Approx. 1.3 million kWh/a electric and 1.5 million kWh/a thermal output; potential electric power requirement for approx. 335 households* as well as heat supply for approx. 83 households*. <small>*3-person household with 120m² living area incl. hot water generation.</small>
Energy efficiency:	High energy efficiency (approx. 85% efficiency) through the utilisation of heat and electricity all year round.
Feed-in:	Electrical grid and local district heating network.

■ Input material:

Material from landscape conservation and manure.

■ Plant data:

Quantity	Plant component	Dimension/Capacity
1	Silage clamp (3 bays)	1,600 m ²
4	Digester	20 x 7 x 4.50 m
1	Percolate tank	140 m ³
1	Sewage collecting tank	300 m ³
1	CHP (ESS BM-190/238 LE-190)	190 kW _{el}
1	Boiler (Viessmann Vitoplex 300)	500 kW _{th}
1	Enclosed mixing area	527 m ²
1	Ventilation system	15,000 m ³ /h
1	Control room/meeting room	
1	Weight bridge	