



# The biogas plant in Lüsche / Germany

Planning

Construction

Start-up

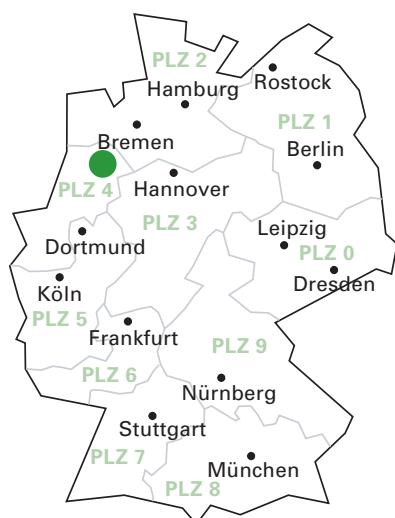
Operation

Service



← The push floor moves maize silage into the mixing process.

→ The farm's own chicken fattening sheds are heated with the plants waste heat. The manure is used as input substance.



## Fact sheet

<b>Location:</b>	<b>Lüsche / Germany</b>
<b>Capacity:</b>	<b>370 kW<sub>el</sub></b>
<b>In operation since:</b>	<b>12/2009</b>
<b>Input materials:</b>	<b>Chicken manure, liquid manure, maize silage</b>
<b>Features:</b>	<b>The biogas plant's entire waste heat is used for heating the farm's own chicken fattening sheds.</b>

## The Witte biogas plant in Lüsche / Germany

The 370 kW<sub>el</sub> biogas plant in Lüsche was built by EnviTec Biogas in 2009.

The biogas plant is operated with renewable resources, liquid manure, and chicken manure. The required maize silage is cultivated on the farm's acreage. The chicken manure comes from the farm's own sheds. The liquid manure is supplied from a neighboring farm.

The chicken manure is brought directly into the receiving bunker from the approximately 7,000 m<sup>2</sup> of poultry sheds in which approx. 160,000 chickens are raised. The liquid manure is pumped into the 500 m<sup>2</sup> receiving tank for temporary storage. In the 6 m<sup>3</sup> mixing tank chicken manure, silage and

liquid manure are mixed and conveyed into the gas-tight fermenter. In the heated tanks methane bacteria ferment at approximately 37° to biogas and the high quality agricultural fertilizer, the effluent.

After cooling and desulphurization of the occurring biogases, these are burned in a CHP and transformed into electrical power and heat by a generator.

The 80 to 90° cooling water occurring through combustion of the biogas is used to heat the approximately 7,000 m<sup>2</sup> of chicken fattening sheds.

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