



# The biogas plant in Steinfurt / Germany

Planning

Construction

Start-up

Operation

Service



← Using a catalyst reduces formaldehyde emission.

→ The biogas plant supplies heat for the Gymnasium (secondary school) in Borghorst.



## Fact sheet

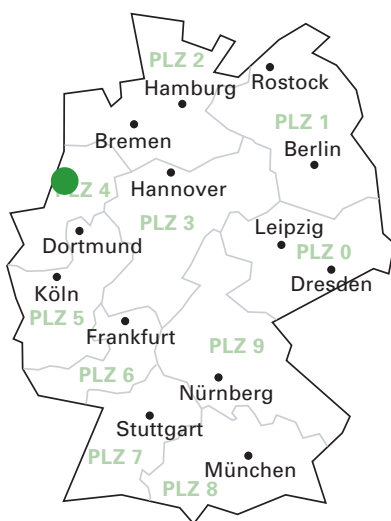
**Location:** Steinfurt / Germany

**Capacity:** 500 kW<sub>el</sub>

**In operation since:** 08/2005

**Input materials:** Pig and cattle manure, renewable raw materials

**Features:** Heat utilization in the neighbouring Gymnasium (secondary school), consistent utilization of manure and CHP bonus



## The biogas plant in Steinfurt / Germany

The biogas plant in Steinfurt was erected by EnviTec in 2005. It consists of a fermenter, residual effluent storage tank and operations building. The CHP, the mixing equipment and the electrical equipment are housed in the operations building. The biogas plant is operated with renewable raw materials and liquid manure.

Because the liquid manure proportion is more than 30% of the input, the operator gets a liquid manure bonus that is anchored in the German Renewable Energy Law (EEG).

In addition to the liquid manure bonus the plant receives a subsidy of one cent per kWh<sub>el</sub> for use of a new catalyst. The legislation prescribes that

formaldehyde emissions must be reduced to maximum 40 mg/Nm<sup>3</sup> because formaldehyde is a harmful substance. In collaboration with Süd-Chemie AG, EnviTec Biogas worked out a turn-key concept in this regard that has already been successfully installed in many biogas plants.

In addition to power the biogas plant produces heat as a byproduct. Approx. 1.6 to 1.8 million kW of heat is provided yearly to the Städtische Gymnasium (middle school) in Steinfurt. Thanks to the use of the biogas plant's waste heat, Steinfurt city saves between 25,000 and 30,000 Euros in heating costs.

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