



# Anaerobic Digestion (AD) Plant Holleben

Germany

Client	Aufwind Schmack Betriebs GmbH. The plant has since been sold to sold to r.e. Bioenergie GmbH.
Location	Holleben, Saxony-Anhalt, Germany
Commissioned	2010/2011
Input (feedstock)	Whole crop (rye, cereals) silage, grass silage, maize silage, sorgho silage
Total processing capacity	59,000 t/a
Raw biogas production	~ 1,400 m <sup>3</sup> /h or the equivalent of ~ 4.0 MW <sub>el</sub>
Digester	2 x 3,300 m <sup>3</sup>
Post-Digester/Storage Tank	3 x 5,100 m <sup>3</sup>
CHP	1 x 250 kW
Biomethane	~ 700 Nm <sup>3</sup> /h

## One of the first AD plants with gas to grid in Germany

In Holleben, Saxony-Anhalt, Germany Agraferm built an AD plant **with upgrading of the biogas to biomethane for injection of the grid, one of the first such types of AD plants in 2011**. Two digesters with a volume of 3,300 m<sup>3</sup> each allow a biomethane output of 700 Nm<sup>3</sup> per hour.

The optimised ratio of smaller digester tank size to higher biogas output is characteristic of the AD plant, which CHP was already commissioned in 2010. This is enabled by the high dry matter organic loading rate and high degradation of the feedstock thanks to the patented agitators in smaller size tanks.

As the space for the AD plant in Holleben was limited, the Agraferm technology, **which needs less space than typical technologies**, offered an important advantage.

The **design of the feeding system** and the use of **robust AD plant components** allow for a wide range of possible input feedstocks and the **highest possible level of AD plant availability**.

**agraferm**



Agraferm GmbH, which is based in Pfaffenhofen, Germany, designs and builds Anaerobic Digestion plants. It is one of the few full service providers of turn-key agricultural and industrial biogas plants in Europe, which operates internationally. Our portfolio includes project planning and construction as well as biological and technical services.

Agraferm biogas plants have the following distinctive features

- High reliability and maximum system availability
- A small footprint, i.e. high biogas production with a minimum of land use
- Use of robust components such as digesters, agitators and pumps, these reliable components prolong the operational life of the AD plant
- Stable digestion process
- Industrial-quality plant construction

The advantages for you

- Minimum operating costs
- Optimum level of substrate flexibility
- Minimal risk of downtime
- Maximum cost-efficiency and minimal power consumption

We are committed to the long-term success of our customers through

- Planning, construction and service from a single source
- Biological and technical support services
- Many years experience with CHP-units and biomethane gas to grid injection

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