



Anaerobic Digestion (AD) Plant Woltow

Germany

Client	BBM Behrens Beteiligung Management GmbH
Location	Woltow, Mecklenburg-Vorpommern, Germany
Commissioned	2012
Input (feedstock)	Chicken slurry and chicken manure, grass silage, maize silage
Total processing capacity	14,500 t/a
Raw biogas production	~ 205 m ³ /h or the equivalent of ~ 530 kW _{el}
Digester	1 x 1,660 m ³
Post-Digester	1 x 3,570 m ³
CHP	2 x 265 kW

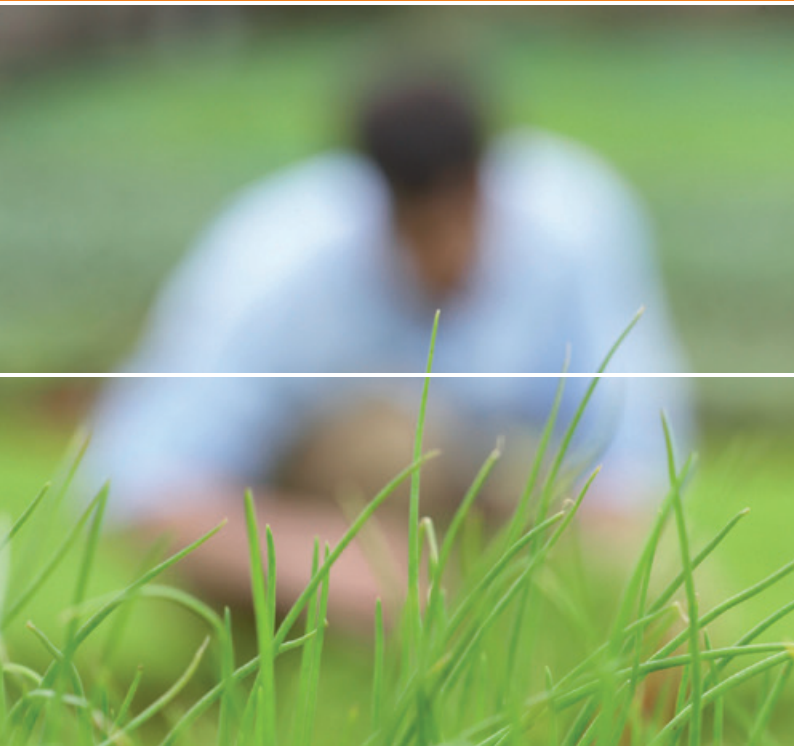
An example of anaerobic digestion in combination with poultry

The anaerobic digestion of poultry manure and slurry in biogas plants is a **challenge** for the design of the plants. The content, in the sense of DM (dry matter) and high non-organic proportion of the chicken manure, for example, have a strong influence on the key plant parameters.

The feedstock spectrum of the biogas plant constructed by Agraferm includes the **chicken slurry as well as the manure from bedding from both rearing and laying hen operations**. About one third of the substrate used is grass silage. **Only one sixth of the input material is maize silage.**

A prerequisite for successful operation of the ADs plant is **a feeding and stirring technology specially developed for high DM digestion**, which enables efficient feedstock digestion.

The waste heat of the biogas plant supports the **heating of the chicken stables.**



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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