



## Anaerobic Digestion (AD) Plant Hohenwart

Germany

Client	Regens-Wagner-Stiftung
Location	Hohenwart, Bavaria, Germany
Commissioned	2005
Input (feedstock)	Poultry droppings/manure, grass and road cuttings, grass silage (> 90%)
Total processing capacity	8,000 t/a
Raw biogas production	~ 120 m <sup>3</sup> /h or the equivalent of ~ 250 kW <sub>el</sub>
Digester	1 x 780 m <sup>3</sup>
CHP	1 x 240 kW

### Pilot AD plant with consistent high grass load since commissioning

The first Agraferm AD plant was erected as a pilot in the town of Hohenwart, not far from the company's headquarter in Pfaffenhofen a.d. Ilm. The customer, a non-profit foundation operating a production facility for handicapped people near-by, uses the produced heat at that facility. The produced electrical power is fed into the public grid.

Another aspect is that the feedstock is supplied by the farm, on which the special production facility resides, and which is operating under bio-dynamic farming principles. This entails a high use of rye-grass, which is used as the prime feedstock for the AD plant. The design with the patented agitators in a digester made of concrete with a flat concrete roof is well suited for such high dry matter feedstock. The biogas is stored in a double membrane gas pocket in a space in a no longer used farm store.

The pilot proves the unique Agraferm design, which is characterised by its optimum output relative to the space the plant takes up. This is made possible by the high dry matter organic loading rate and high degradation of the feedstock thanks to the patented agitators in smaller size tanks. This in turn allows for low energy consumption and low maintenance costs, which – besides the cost of feedstock, are the main operational costs of any AD plant.



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

# agraferm

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