



Anaerobic Digestion (AD) Plant Doncaster

United Kingdom

Client	Future Biogas Ltd.
Location	Doncaster, South Yorkshire, UK
Commissioned	2013
Input (feedstock)	Grass silage, maize silage
Total processing capacity	35,000 t/a
Raw biogas production	~ 900 m ³ /h or the equivalent of ~ 2.0 MW _{el}
Digester	1 x 3,330 m ³
Post-Digester	1 x 3,500 m ³
Storage Tank	1 x 6,000 m ³
CHP	1 x 499 kW
Biomethane	~ 345 Nm ³ /h

Increased performance with 3-stage digestion

Near the English town of Doncaster, South Yorkshire, Agraferm has built a biomethane plant, which is **compact but at the same time highly efficient and powerful**. It is the fourth AD plant, which Agraferm has built for this customer.

As with the previously built AD plants, this AD plant is also 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 the high degradation of the feedstock** thanks to the patented agitators in smaller size tanks. Agraferm plants are also well known for their low electricity consumption and low maintenance costs.

The AD plant (with a 3-stage digestion process) supplies **around 2,500 households** in the town with electricity.



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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