



Anaerobic Digestion (AD) Plant Great Saxham

United Kingdom

Client	Symonds Farm Power Ltd.
Location	Bury St. Edmunds, Suffolk, UK
Commissioned	2012
Input (feedstock)	Grass silage, maize silage
Total processing capacity	25,600 t/a
Raw biogas production	~ 600 m ³ /h or the equivalent of ~ 1.4 MW _{el}
Digester	1 x 2,300 m ³
Post-Digester	1 x 4,330 m ³
CHP	1 x 1.4 MW

Minimal visual impact with special tank arrangement

The AD plant at Symonds Farm, Risby, near Bury St. Edmunds in Suffolk was fully commissioned in early 2012 and **generates 1.4 MW of electricity** which is sufficient to power 3,000 homes.

Constructed using Agraferm's technology the AD plant operates currently on a feedstock of maize silage but is **designed to take other farm crops and farm wastes**. With the addition of a front end hygienization process, the AD plant will be able to take locally arising food wastes.

Agraferm's technology is **cost effective** with sufficient retention time of the feedstock (around 30 days) at a high dry matter organic loading rate thanks to patented agitators in smaller size tanks. The plant is also modular so that it **can be easily expanded** as the demand for electricity increases.

The plant is currently **feeding electricity to the National Grid** but also makes private wire sales to the adjoining briquetting plant and industrial park, which have financial benefits for the project.

The plant **sells a part of the generated heat to local users**.

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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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