



Anaerobic Digestion (AD) Plant Bury St. Edmunds

United Kingdom

Client	British Sugar
Location	Bury St. Edmunds, Suffolk, UK
Commissioned	2017
Input (feedstock)	Pressed sugar beet pulp
Total processing capacity	105,000 t/a
Raw biogas production	~ 2,200 m ³ /h or the equivalent of ~ 5.0 MW _{el}
Digester	2 x 5,550 m ³
Post-Digester	1 x 5,550 m ³
CHP	1 x 2.0 MW and 2 x 1.5 MW

Mono-digestion in the food industry

In Bury St. Edmunds (Suffolk), United Kingdom Agraferm built a biogas plant for British Sugar, the leading sugar producer in Britain and a company of the AB Group. This plant is compact but at the same time highly efficient and powerful. It is designed and realised with the smallest footprint at highest industrial standards. A special feature of this plant design is the **liquid feeding**. Large quantities of pressed sugar beet pulp and beet waste are fed according to the innovative Agraferm liquid feeding method without using any manure or process water.

The resulting waste heat is used to thicken the digestate through a dryer system. **Environment-friendly** design thereby reducing transport and utilization of heat and electricity on site.

Safely operated at dry matter contents of 10 – 12% in a CSTR-digester with a height/diameter ratio of > 1/3. The tank sizes were designed such that the particularities of mono-digestion such as increased foaming can be well managed.



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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