



Anaerobic Digestion (AD) Plant Mepal

United Kingdom

Client	ECF
Location	Mepal, Cambridgeshire, UK
Commissioned	2016
Input (feedstock)	Maize silage, sugar beet
Total processing capacity	> 300,000 t/a
Raw biogas production	~ 6,000 to 8,000 m ³ /h or the equivalent of ~ 15 MW _e
Digester	4 x 3,300 m ³
Post-Digester	4 x 5,030 m ³
CHP	5 x 2.5 MW
Biomethane	~ 400 Nm ³ /h

One of the largest AD Plants in Europe

The owners of Mepal are convinced **rebuyers** of Agraferm's AD-technology, acknowledging the profound engineering know-how and experience in managing large & complex projects. This size plant is not just a matter of scaling up. In addition, the design copes with the feedstock input variations to meet seasonal and opportunistic changes in supply and demand.

This project shows Agraferm's extensive experience in engineering, piping and machinery, as well as handling large quantities of gas and liquids.

The special feature of this plant is its special operating mode due to the extremely different nature of the input materials: In the first stage, silages with high dry solids are fed, in the second stage sugar beets are milled and fed in liquid form. Sugar beets and potato-waste are delivered **just-in-time**.



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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