



Anaerobic Digestion (AD) Plant Poundbury

United Kingdom

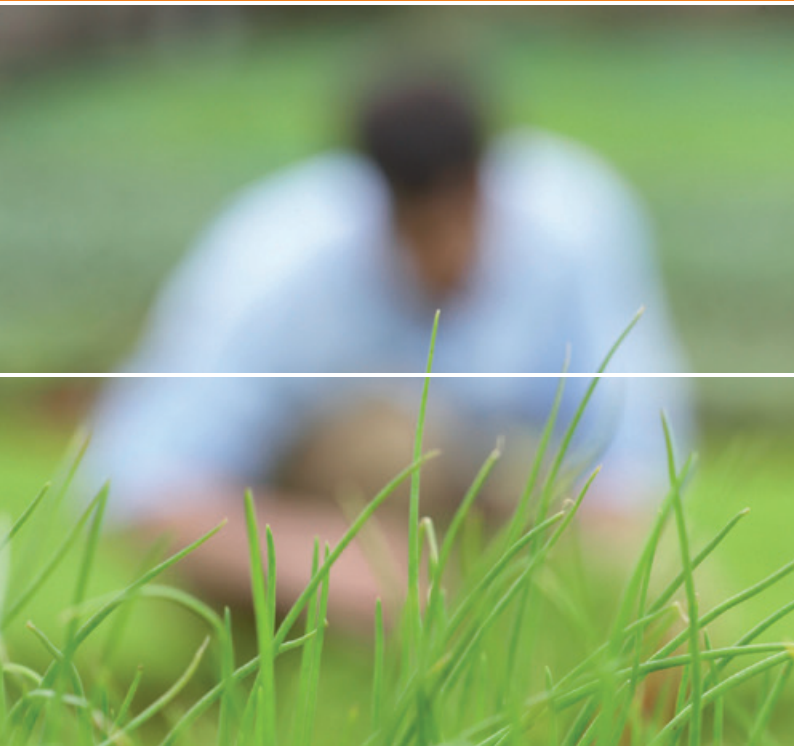
Client	JV Energen LLP
Location	Poundbury, Dorset, UK
Commissioned	2012
Input (feedstock)	Manure, agricultural waste /potatoo pulp, grass silage, maize silage
Total processing capacity	41,000 t/a
Raw biogas production	~ 850 m ³ /h or the equivalent of ~ 2.3 MW _{el}
Digester	1 x 3,300 m ³
Post-Digester	1 x 5,030 m ³
CHP	1 x 400 kW
Biomethane	~ 400 Nm ³ /h

The first agricultural AD plant injecting gas into the national grid

Agraferm built this AD plant in the British village of Poundbury for JV Energen LLP, a joint venture between local farmers and the Duchy of Cornwall.

This is the first agricultural AD plant in Great Britain to supply the national gas grid. The Duchy of Cornwall is the private estate that funds the public, charitable and private activities of The Duke of Cornwall, HRH The Prince of Wales. Poundbury is a model town for the implementation of sustainable innovations and design principles, which Prince Charles is considerably involved in. In addition to the gas output, the AD plant also supplies electricity for 300 households. The gas distributor Scotia Gas Networks has been involved in the project from the beginning which has enabled the seamless transfer from production to grid.

The AD plant is integrated into the southwest English countryside and complies with the high standards of the local planning authority. At full capacity the AD plant will be able to digest around 41,000 tons of feedstock per year. Furthermore around 8,000 tons of solid digestate residues, containing valuable nutrients for the chalky soil of the region, will be used by the local farmers as a fertiliser. The remaining solid digestate is being bagged and sold to local nurseries as a 100% high-quality organic soil enricher.



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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