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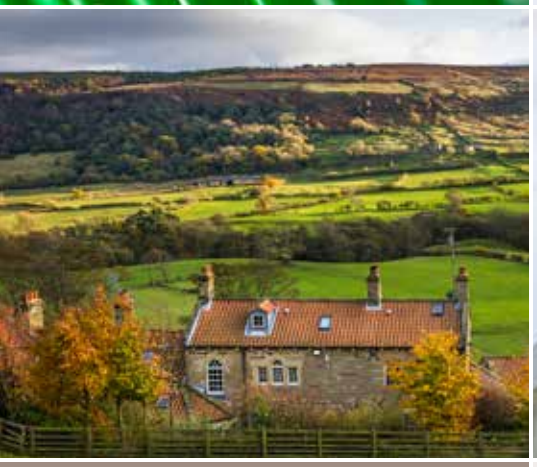


UK REFERENCES

Pipeline to 200 Million m^3 of Biogas per year

Market Leading Anaerobic Digestion Plants

Advantages at a glance

- Robust and future-proof Technology
- High Substrate Flexibility
- Low Operation Costs
- High Load Fermentation therefore Small Footprint
- Turnkey Plants with Gas Upgrading
- German Engineering using Quality Components

agraferm technologies

Biogas is our motivation.

Our Pipeline to Success

1 SPRING FARM, TAVERHAM, NORFOLK (2011)

1st Agraferm AD plant in the UK

Biogas Production 5.1 M m³ pa
Biogas Utilisation 1,400 kW_{el} CHP

Agraferm's first biogas facility in the UK. This plant laid the foundations for our long term cooperation with Future Biogas Ltd.

2 Symonds Farm, Suffolk (2011)

Biogas Production 5.4 M m³ pa
Biogas Utilisation 1,400 kW_{el} CHP

First plant built for our long term partner Material Change Ltd. who operates a number of resource recovery and recycling (waste treatment) sites.

3 RAINBARROW FARM, POUNDBURY, DORSET (2012)

1st agricultural gas-to-grid plant in the UK

Biogas Production 5.4 M m³ pa
Biogas Utilisation 400 kW_{el} CHP & 500 m³/h Biomethane

Built for JV Energen, a partnership between the Duchy of Cornwall, local farmers from JV Farming Ltd. and Active Business Partnerships Ltd. This was the UK's first agricultural biomethane Injection plant – a very important milestone in the development pathway for the UK biogas upgrading sector.

Biomethane supply to the households of Poundbury in "A Vision of Britain".

4 Reepham Road, Norfolk (2012)

Biogas Production 5.9 M m³ pa
Biogas Utilisation 1,500 kW_{el} CHP

Sister plant to nearby Taverham.

5 Doncaster, South Yorkshire (2013)

Biogas Production 7.2 M m³ pa
Biogas Utilisation 499 kW_{el} CHP & 350 m³/h Biomethane

First gas-to-grid plant for Future Biogas Ltd.

6 Scottow, Norfolk (2013)

Biogas Production 7.2 M m³ pa
Biogas Utilisation 2000 kW_{el} CHP

At the time of construction, Scottow was Agraferm's largest plant using CHP in the UK. Vibrating screens for further digestate treatment.

Agraferm's UK plants hit the 50 M m³ pa capacity milestone

8 HIBALDSTOW, NORTH LINCOLNSHIRE (2014)

With seasonal feedstock management

Biogas Production 7.1 M m³ pa
Biogas Utilisation 499 kW_{el} CHP & 350 m³/h Biomethane

First plant with seasonal feedstock management including sugar beet and a cost efficient digestate reduction solution.

9 Holkham, Norfolk (2014)

Biogas Production 7.1 M m³ pa
Biogas Utilisation 499 kW_{el} CHP & 350 m³/h Biomethane

Set in a renewable energy park, this site is spectacular to look at.

10 Spridlington, Lincolnshire (2014)

Biogas Production 5.3 M m³ pa
Biogas Utilisation 499 kW_{el} CHP & 430 m³/h Biomethane

This site uses UK manufactured pre-cast concrete tank elements.

11 HELMDON, NORTHAMPTONSHIRE (2015)

Innovative plant design enabling future feedstock choices

Biogas Production 5.8 M m³ pa
Biogas Utilisation 235 kW_{el} CHP & 300 m³/h Biomethane

Integrates organic wastes (non-agricultural) and meets the highest Environment Agency standards.

12 Wymondham, Norfolk (2015)

Biogas Production 6.2 M m³ pa
Biogas Utilisation 1,500 kW_{el} CHP

This plant uses a wide variety of available feedstocks including sugar beet.

13 Swaffham, Norfolk (2015)

Biogas Production 16.8 M m³ pa
Biogas Utilisation 4,500 kW_{el} CHP

Underlines efficiency of Agraferm´s High Load Digestion: only 2 digesters, producing 4.5 MW_{el}.

Agraferm's UK plants hit the 100 M m³ pa capacity milestone

14 Metheringham, Lincs (2015)

Biogas Production 8.6 M m³ pa
Biogas Utilisation 499 kW_{el} CHP & 420 m³/h Biomethane

Very efficient AD plant, classically based on energy crops. High share of sugar beet.

15 Methwold, Norfolk (2015)

Biogas Production 7.6 M m³ pa
Biogas Utilisation 499 kW_{el} CHP & 375 m³/h Biomethane

Feedstock includes 30,000 t pa pig manure, including high share of straw.

17 Decoy, Cambs (2015)

Biogas Production 9.2 M m³ pa
Biogas Utilisation 2,800 kW_{el} CHP

Third plant for Material Change Ltd.

Combination of food waste, biowaste and energy crops.

Agraferm's UK plants to hit the 200 M m³ pa capacity milestone

Biogas

Biogas

Biogas

2005

First AD plant based on Agraferm's patented High Load Digestion and grass only: Hohenwart, Germany

2006

German Governmental Biogas Monitoring: Ranking among Top 5 plants out of 60

2007

First patents on Agraferm paddle mixers

First step of engagement in BTA International GmbH

Joint service offer: biogas production and waste treatment

2008

Itzig, Luxemburg, first project based on combination of Agraferm AD concept and BTA waste treatment concept

First gas-to-grid project: Ketzin, Germany

Launch of Metomex® – for stabilisation of the biological process

2009

Best Practice Award German Agricultural Ministery

2010

Agraferm goes international: Italy, Czech Republic, Belgium

Kalsnava, Latvia

Industrial mono-fermentation: treatment of 160,000 t pa waste from bioethanol production

2011

Mestecko, Slovakia

AD from cattle dung

2012

Perezhir, Belarus

Plant for the National Academy of Agriculture Mechanization

2013

Agraferm paddle mixer – second generation

2014

Agraferm takes over three-quarter majority in BTA International GmbH

Opening Agraferm local service base UK

Agraferm Service Range

Agraferm Technologies AG, founded 2004 in Pfaffenhofen/Germany, designs and builds Anaerobic Digestion plants. We are one of the few European providers of turnkey agricultural and industrial biogas plants and operate globally.

Our subsidiary BTA International GmbH, founded 1983 in Munich/Germany, provides plants and technology for waste pre-treatment and the digestion of waste.

Our services include:

- Planning & design
- Construction & installation (EPC contractor)
- Operation & maintenance
- Biological & technical support services
- Process optimisation & expansion

More than 100 references worldwide proof the reliability of our convincing plant concept.

Testimonials

»We appreciate the high quality of design and engineering in all our Agraferm plants. They are constructed to professional standards to ensure reliable long life operation and consistently exceed our expectations.«

Philipp Lukas

Managing Director Future Biogas Ltd.
Director ADBA and Chairman EBA-CAC

»As a waste operator, being able to process a wide range of feedstocks is important to us. This feature, along with the solid and robust construction, led us to choose Agraferm technology for several projects.«

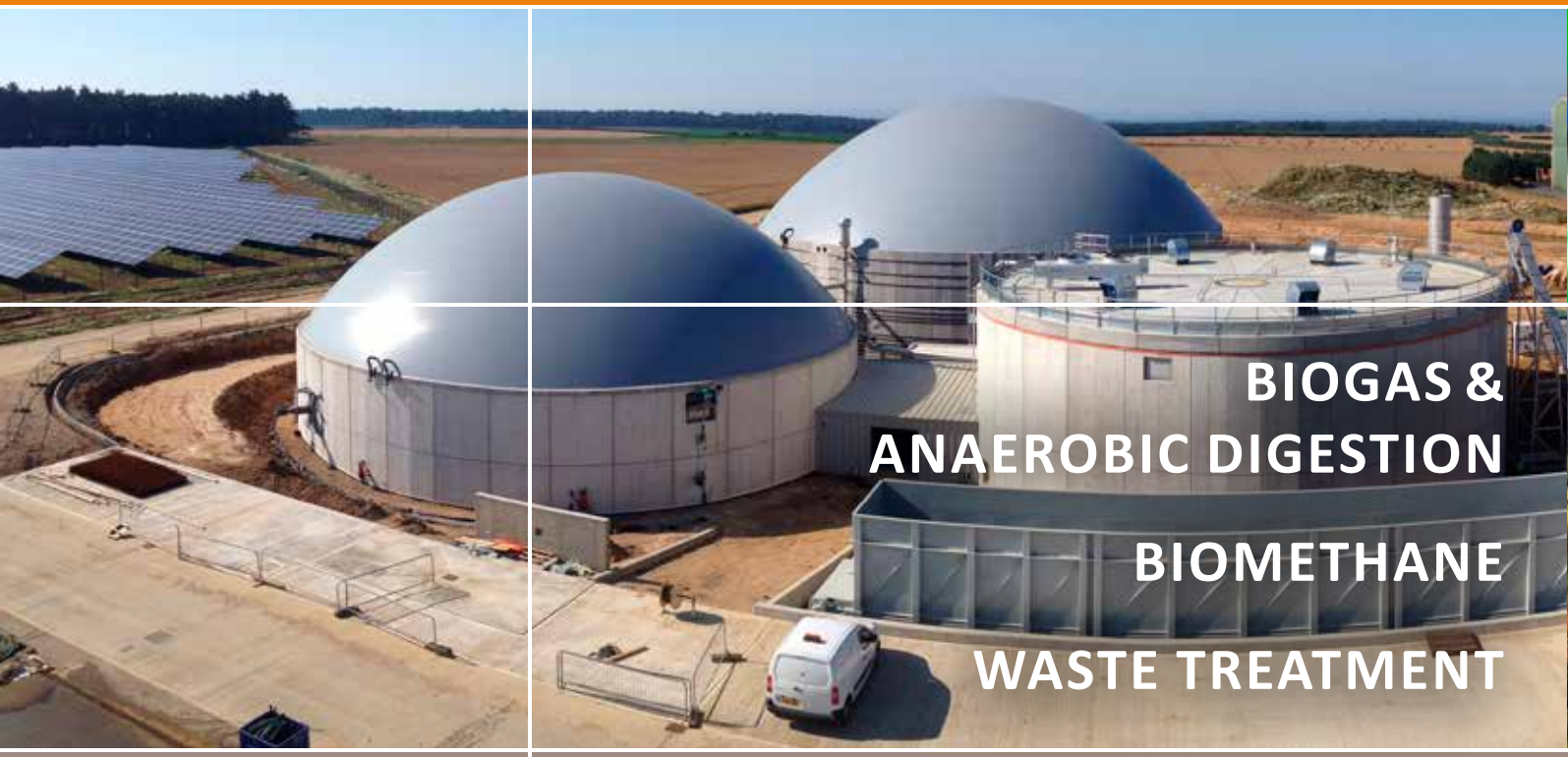
Charles Course

Chairman of
Material Change Ltd.

»We chose Agraferm for the quality and superior technology of their plants, and have enjoyed a good working relationship with them. The AD plant has performed well and was integral in how we pioneered the biomethane injection work in the UK.«

Nick Finding

Director JV Energen LLP



BIOGAS & ANAEROBIC DIGESTION

BIOMETHANE

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