



## Anaerobic Digestion (AD) Plant Rambrouch

Luxembourg

Client	SC Natuurgas Schwiedelbrouch
Location	Rambrouch, Luxembourg
Commissioned	2011
Input (feedstock)	Cattle manure and slurry, grass and road cuttings, grass silage, maize silage
Total processing capacity	16,000 t/a
Raw biogas production	~ 160 m <sup>3</sup> /h or the equivalent of ~ 800 kW <sub>el</sub>
Digester	1 x 1,660 m <sup>3</sup>
Post-Digester	1 x 5,150 m <sup>3</sup>
Storage Tank	1 x 5,000 m <sup>3</sup> in addition to existing 1,500 m <sup>3</sup> store
CHP	2 x 366 kW
Heating boiler (dual fuel)	800 kW

### Compact, versatile AD plant, heat supplied to local distributed heating network

Agraferm has built a **compact and versatile** AD Plant in Rambrouch, Luxembourg. Agraferm acted as **prime contractor** for the AD Plant, the weighbridge, the associated civil works, as well as the two silos of 7,000 m<sup>3</sup> each. Agraferm also supplied and commissioned the equipment for the heat distribution network. The piping work for the heating network was carried out under the supervision of the municipality.

One of the characteristics of the installation is its **optimization for maximum biogas production with a minimum footprint**. This is made possible by the Agraferm biological process with a high dry matter organic loading rate and high degradation of the feedstock thanks to the patented agitators in smaller size tanks. One of the technical specificities is the use of a biogas boiler in case of emergency, which avoids the use of an emergency flare.

The AD plant electricity production covers the electricity needs of about 2,000 households and supplies heat to about ten houses and buildings in the municipality via a **heating network**.



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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