



# Anaerobic Digestion (AD) Plant Perezhir

Belarus

Client	Republican Unitary Enterprise, the Scientific and Practical Centre for Agricultural Mechanization
Location	Perezhir, Minskaya Oblast, Belarus
Commissioned	2013
Input (feedstock)	Cattle manure/slurry, food, vegetable and fruit waste
Total processing capacity	27,000 t/a
Raw biogas production	~ 110 m <sup>3</sup> /h or the equivalent of ~ 250 kW <sub>el</sub>
Digester	1 x 1,660 m <sup>3</sup>
Post-Digester	1 x 1,710 m <sup>3</sup>
Biomethane	250 kW

## Use of agricultural and food waste at an agricultural scientific center

In 2012, the National Academy Republic of Belarus and Agraferm jointly decided on the planning and construction of an Agraferm AD plant at the state-owned Perezhir center, the Republican Unitary Enterprise, the Scientific and Practical Center for Agricultural Mechanization. The AD plant is designed for **the digestion of agricultural input materials**.

The technology is designed in such a way that the plant can digest **different feedstocks in varying proportions**. The concept developed by Agraferm thus enables a **high degree of flexibility and nonstop operation**, with a combined heat and power (CHP) unit **availability over 8,000 hours per year**.

The **electricity generated is fed into the local power grid**. With minor modifications, it could also be used **directly on the farm**. A part of the heat production of the CHP unit is used as process heat for AD plant, the remainder sold to the other facilities at the center.

Agraferm completed the construction with local companies and commissioned the AD plant in 2013.



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

# agraferm

Agraferm GmbH  
Hauptplatz 12  
85276 Pfaffenhofen an der Ilm, Germany

Phone +49 8441 8086-100

Fax +49 8441 8086-190

[sales@agraferm.com](mailto:sales@agraferm.com)

[www.agraferm.com](http://www.agraferm.com)