



Anaerobic Digestion (AD) Plant Dvory Slovakia

Client	P.G. Trade s.r.o.
Location	Dvory nad Žitavou, Nitra, Slovaquie
Commissioned	2013
Input (feedstock)	Pressed sugar beet pulp, poultry droppings, maize silage
Total processing capacity	24,000 t/a
Raw biogas production	~ 350 m ³ /h or the equivalent of ~ 1.0 MW _{el}
Digester	1 x 1,900 m ³
Post-Digester	1 x 1,700 m ³
Storage Tank	1 x 4,900 m ³
CHP	1 x 500 kW, 1 x 499 kW

Feeding system adapted to varied feedstock

This AD plant was designed by Agraferm. The complete project was carried out «turn-key» by Agraferm's partner in Slovakia, B.P.S Srl. The unit is characterized by a **feeding system with a hopper with a moving floor followed by a mixer** from which inputs are pumped to the digester.

Agraferm's technology allows **high profitability thanks to patented agitators, which allow in smaller tanks a high dry matter and high organic loading rate** with optimized retention 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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