



Anaerobic Digestion (AD) Plant Sered'

Slovakia

Client	Bio diesel producer (former nickel smelter)
Location	Sered', Trnava region, in the southwest of Slovakia
Commissioned	2011
Input (feedstock)	Pressed sugar beet pulp, rapeseed cake, glycerine, maize silage
Total processing capacity	16,800 t/a
Raw biogas production	~ 375 m ³ /h or the equivalent of ~ 1.0 MW _{el}
Digester	1 x 2,300 m ³
Post-Digester	1 x 3,570 m ³
CHP	3 x 340 kW

An example of anaerobic digestion in combination with biofuel production

This AD plant was built by Agraferm in **Sered'**, a town in southwest Slovakia, on the site of a former nickel works.

The site is now used for the production of bio-diesel and the resulting by-product **glycerin** is used as a feedstock for the AD plant.

Furthermore, **sugar beet pulp from sugar production** is also used as well as **rapeseed cake and maize silage**. The heat from the CHP is in turn used for the **bio-diesel production**.



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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