



## Anaerobic Digestion (AD) Plant Mestečko

Slovakia

|                           |  |
|---------------------------|--|
| Client                    | Poľnohospodárske družstvo Mestečko                                     |
| Location                  | Mestečko, Trenčín region, north west Slovakia                          |
| Commissioned              | 2011   |
| Input (feedstock)         | Cattle manure, whole crop (cereals) silage, grass silage, maize silage |
| Total processing capacity | 16,500 t/a   |
| Raw biogas production     | ~ 270 m <sup>3</sup> /h or the equivalent of ~ 680 kW <sub>el</sub>    |
| Digester                  | 1 x 1,660 m <sup>3</sup>   |
| Post-Digester             | 1 x 5,100 m <sup>3</sup>   |
| CHP                       | 2 x 340 kW   |

### An example of a farmer cooperative project with high heat usage

Agraferm has built this biogas plant with their cooperation partner for the **farming cooperative** Poľnohospodárske družstvo Mestečko for the Czech Republic and Slovakia.

The AD plant, consisting of **one digester and one post-digester**, has an **output of 680 kW<sub>el</sub>**, which is produced by two dual fuel engines. The AD plant's technology makes it possible to digest a **high proportion of cattle manure**.

The heat produced by the CHP is **used by the farming cooperative**, which is situated nearby, **to heat their stables and indoor riding halls**.



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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