



Anaerobic Digestion (AD) Plant Medicina

Italy

Client	Lavoratori Cristiani Medicinesi, Società Agricola Cooperativa (LA.C.ME)
Location	Medicina, region of Emilia Romagna, Italy
Commissioned	2012
Input (feedstock)	Whole crop (rye, cereals), triticale, millet, and maize silage
Total processing capacity	19,400 t/a
Raw biogas production	~ 430 m ³ /h or the equivalent of ~ 1.0 MW _{el}
Digester	1 x 1,660 m ³
Post-Digester	1 x 2,890 m ³
Storage Tank	1 x 4,330 m ³
CHP	1 x 999 kW

AD plant for farmers, compatible with nature reserve demands

The agricultural biogas plant built by Agraferm is **supplied with feedstock by the cooperative or rather its affiliated farmers.**

The plant concept is comprises **of 3 tanks.** The two-stage digestion takes place in a digester with **a concrete ceiling made of precast segments and a post digester with double membrane gas storage.** The liquid digestate is stored in a **tank covered by a floating cover.**

High demands were made with regard to safety and environmental compatibility, because the AD plant is located on the **edge of a nature reserve (Oasi del Quadrone)** and the intend in the long run is to make a visit to the AD Plant part of guided tours to the reserve.



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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