



Anaerobic Digestion (AD) Plant Saramzalino

Macedonia

Client	Bio Enterprise dooel
Location	Saramzalino, Lozovo, North Macedonia
Commissioned	2022
Input (feedstock)	Maize silage, Rye Grass Silage, Fruits & Grapes, Livestock Manure
Total processing capacity	50,000 t/year
Raw biogas production	950 Nm ³ /h
Primary Digester	1 x 4,240 m ³
Post-Digester	1 x 3,560 m ³
Storage Tank	1 x 5,450 m ³
CHP	2 MW total electrical capacity

Compact plant design for 2 MW of renewable power

The **Bio Enterprise Biogas Plant**, located near the village of Saramzalino in Lozovo Municipality, North Macedonia, is one of the most advanced renewable energy projects in the country. Commissioned in **2022**, the facility represents a significant investment in sustainable energy production and modern waste management.

The facility processes **around 50,000 tons of agricultural and farming residues annually**, converting them into renewable energy through efficient anaerobic digestion. Despite its **compact configuration with only one primary digester and one post-digester**, the plant reliably supplies biogas to a **2 MW CHP system**.

With an estimated annual electricity production of **17.8 GWh**, the facility supplies renewable power to approximately **4,000 households**, contributing significantly to the regional energy supply. Saramzalino is an impressive example of powerful energy generation with a streamlined plant design based on the anaerobic digestion technology from **Agraferm**.



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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