Biogas in the Service of Agriculture

At the “Villa Giardino dei F.lli Bersani” biogas plant in the Italian province of Piacenza, 2G Italia has installed an agenitor 408 biogas-fired CHP unit. The plant, built in a containerized design in collaboration with its partner Sistemi Energetici, generates electricity that is fed into the grid, as well as heat to maintain the temperature in the digesters.

The “Villa Giardino dei F.lli Bersani Società Agricola” in Podenzano (Province of Piacenza, Italy) relies on a compact, reliable solution designed for continuous operation to meet its energy needs. Together with its partner Sistemi Energetici, 2G Italia installed an agenitor 408 biogas-powered combined heat and power (CHP) plant there.

The system has an electrical output of 300 kW and a thermal output of 308 kW. Thanks to its containerized design, all key components are housed in a single, space-saving unit and can be seamlessly integrated into the facility grounds.

The electricity generated is fed into the public grid. The heat produced at the same time is used directly to operate the biogas plant. It ensures that the biological processes within the plant can proceed under constant and optimal conditions.

Through combined heat and power (CHP), the biogas produced on the farm is utilized particularly efficiently. The biogas simultaneously generates

electricity and heat, which support the plant's operations. Heat recovery reduces energy losses and improves the site's overall energy balance.

To ensure reliable long-term operation, the operator has also opted for the Premium Oil Service Package. This package includes regular maintenance and technical support for the engine throughout the plant's entire life cycle.

The project demonstrates how the use of a biogas-powered CHP plant on farms can help make efficient use of existing resources. The simultaneous generation of electricity and heat enables an economical and demand-driven energy supply for the farm.

Villa Giardino dei F.lli Bersani

agenitor 408
Biogas
300 kW electrical
308 kW thermal