

Furmano Foods

Northumberland, PA, USA

patruus 250
Biogas

Fast Facts:

Location: Northumberland, PA, USA

Generating Capacity: 250 kW

Configuration: Container module

Extras: Biogas Treatment System,
H₂S Removal



About the Site:

A well know food processing plant located in Northumberland, PA, is the Susquehanna River Valley's premier grower and producer of beans and tomatoes. Increased production in recent years meant that the company's on-site wastewater treatment system required upgrading and expansion.

Application

The CHP cogeneration plant consists of a 2G patruus 250 built in a 30' sound attenuated CHP container module. The system also includes complete gas treatment, including biogas, dehumidification & reheating system, and the double vessel H₂S removal technology. The customer's wastewater flow and and volume vary considerably throughout the year. Therefore it was important that the system is able to accommodate fluctuations in load, yet maintain consistent performance and maximize biogas utilization. The anaerobic system designed by ADI consists of a 7.5 MG ADI-BVF® reactor, complete with internal in-fluent/effluent distribution piping, mixer, biogas collection/handling, and a sophisticated, yet simple, graphics-based computerized monitoring and controls system. During periods of peak biogas production, the excess biogas is burned in a high-efficiency enclosed flare.



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