## **BIOFerm - Middleton**



## **Quick Facts**

LOCATION: Middleton, WI, USA INDUSTRY: Dairy Farm

**EQUIPMENT:** avus 1426 **GAS TYPE:** Biogas





Gundersen Health System's Renewable Energy Division is committed to sensible investments in renewable energy projects. Their energy plan includes a new biogas project and they selected 2G Energy Inc. to supply an advanced biogas CHP module.

## **EQUIPMENT DETAILS**



MODULE: avus 1426

TOTAL ELECTRICAL POWER: 1426 kW

**CONFIGURATION:** Container module

**EXTRAS:** Biogas Treatment System

2G Energy supplied a 50' sound attenuated container module with a fully integrated 2G avus 1426 Jenbacher engine as a prime mover. The CHP system produces Electrical Power of 1,426 ekW/h or 11,836 MW p.a. and Thermal Power of 1,533 kWh/th. 2G Energy Inc. also supplied the complete gas treatment, including cooler, dryer /dehumidification, and the H2S removal system. The customer decided to install the 2G Thermal Heat Distribution System including a Hydronic Junction. It assures that the CHP maintains optimum thermal performance at any time in different load situations. This advanced technology decouples the primary heating source circuit from the secondary consumer circuit. Consistent function is thereby achieved in all operating states. 2G THDA's provide the most energy efficient heat transfer. The system also allows for tighter temperature control because of the infinite system ability to regulate temperatures gradually. The controls and switch gear, including utility interconnection are also provided by 2G Energy.

## 2G. Project Profile.