

New Hope Farm Galt, CA, USA

agenitor 312
Biogas

Fast Facts:

Location: Galt, CA, USA

Generating Capacity: 450 kW

Configuration: Container module

Extras: Biogas Treatment System



About the Site:

This project generates biogas in a continuous stirred tank reactor/digester designed and constructed by MT Energie USA, a subsidiary of MT Energie in Germany. A 2G biogas CHP system is used to convert methane to energy, both in the form of heat to be used in the AD plant as well as the farm buildings, and as electrical power sold to the Sacramento Municipal Utility District (SMUD). With this new biogas plant the New Hope dairy farm prevents methane from being released in to the atmosphere. A power purchase agreement has been executed with SMUD.

Application

The CHP System supplied by 2G Energy Inc. is an ultra-clean burning and high efficiency low-NOx, low-CO emissions biogas fueled combined heat and power module consisting of the 2G agenitor 312 with thermodynamically optimized MAN core gas engine. The system is rated for 450ekW/h Electrical Power or 3,735 MW p.a., and a Thermal Power capacity of 500 kWh/th. To meet the strict local air district emission limits, 2G Energy Inc. supplied the CHP module with fully integrated SCR Emissions Reduction Technology, resulting in ultra-low emissions. The CHP controls including SCR PLC and the utility grade switchgear are also provided by 2G. In addition to the CHP unit, 2G also supplied the complete gas treatment, including gas dryer/dehumidification treatment, re-heating, and the H2S carbon based removal system.



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