

Critical Power For Midstream Gas Processing Plant

Oil & Gas Midstream

At A Glance

Application:
Gas Processing Facility, Sour Gas Plant

Output:
Electricity: 5.4 MWe (ISO)

Benefits:
\$1.8MM Annual Energy Savings
Protection From Grid Instability
Emissions Reduction Through Minimization of Flaring



SUCCESS STORY



Installation:
3 X OP16-3B
December 2019

Location:
Permian Basin, Texas, USA

Customer:
Major Sour Gas Processing Facility

The Challenge

The customer was experiencing costly outages that caused production delays. The only possible solution to production shutdowns was to either flare the production gas, resulting in environmental issues, or to shut down when outages occur. The operator chose to shut down, resulting in loss of revenue and added costs associated with production re-start.

The Result

Today the plant is protected from grid instability through the use of 3 OP16-3B Dry Low-NOx turbine generators. The increase in operational uptime combined with the economic benefits of self-generation and the reduction in site emissions allows for uninterrupted production.

The Solution

Airem Energy's turbine packages are operating on a micro-grid connected to the plant's critical equipment. This insulates the critical equipment from grid outages through the use of our highly reliable turbine generators. By dividing their critical load among multiple smaller turbine generator packages, as opposed to one larger unit, they also eliminate the possibility of outages due to maintenance events and unnecessary restarts.

In addition, the total system efficiency of multiple units is significantly higher than a single-unit system by operating each unit at optimal parameters and allowing for continued power production during scheduled maintenance events. Emissions also remain lower as each unit operates within its optimal performance range. This modular approach to higher loads also allows for future expansion through the incorporation of additional units as demand increases.

By the end of 2020, the system will be configured to run in parallel with the utility grid or in island mode, with measures taken to enhance system reliability further, such as deep health monitoring and analysis by Airem Energy.

\$2.4MM

Annual Savings

24 Days

Increased Annual
Production Time

Reduced
Emissions

Due To Reliable
Equipment

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