

Grupo Kaltex gets SGT-750 for reliability and availability

Application Notes: Energia MK KF, S.A. de C.V.,
Altamira, México

Grupo Kaltex is an industrial manufacturer of textile fibers. Kaltex Fibers has a need for both electricity and steam for their manufacturing. "In order to improve competitiveness a cogeneration plant was the natural choice. To make the investment economically feasible it was of utmost importance that the plant has a high steam-raising capability, high availability, high efficiency and electric power. Siemens executed according to plan."

Mr. Jose Kalach Atri, VP Grupo Kaltex

Challenge

Textile manufacturing is a very competitive international market and any improvements in processes or procedures can dramatically affect the profitability of the operation. Kaltex needed to reduce its electricity bill and the cost for steam production. The company's prior power source and process called for power from the public utility grid and steam from gas fired boilers. This two phase process was prone to delays and inefficiencies resulting in loss of competitiveness.

Solution

The company worked with Siemens to deliver a high efficiency solution based on one SGT-750 gas turbine with the added value of providing a power island including HRSG, electrical and controls for the plant, and engineering.

A comprehensive long term service agreement adapted to customer needs was included. The Siemens solution allows Kaltex to wheel power to other locations and to take advantage of high reliability resulting in lower process backup costs.

Payback

Commercial operation began on June 1, 2014, and it is anticipated that the savings from this Siemens' Combined Heat and Power (CHP) solution will result in payback within three to four years.

Benefits

The operation benefits associated with the Siemens solution include:

- Reliability of power and steam source promotes competitive processes with reduced downtime.
- Reduced fuel costs using less expensive natural gas.
- Market advantage with capabilities of combined heat and power.

Project Summary

Project Name

Altamira Cogeneration

Customer

Energia MK KF, S.A. de C.V.
(Grupo Kaltex)

Location

Altamira, Tamaulipas State, Mexico

Application

Combined Heat and Power (CHP)

Products

One SGT-750 Gas Turbine -
Generator Package

Power Generated

31.7 MW guaranteed output at site conditions (28°C), however the actual output is higher than guaranteed

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