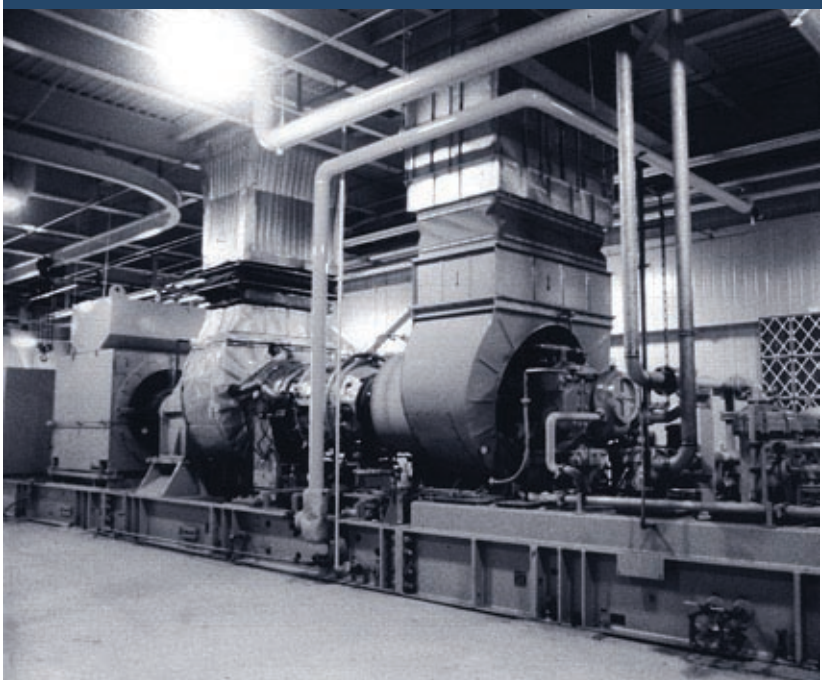
Solar® Turbines

A Caterpillar Company

Gas Turbine Power Plants
1-50 MW

COGENERATION PROJECT



FSC Paper Company

Developer: Self-Owned and Operated
Location: Alsip, Illinois
Installed: May 1987

FSC Paper Company operates a 9-MW range *Mars*®90 gas turbine generator set from Solar Turbines to cogenerate electricity and thermal energy used as preheated combustion air for a supplementary-fired boiler. The supplemental firing provides FSC with the flexibility to produce from 45,000 to 90,000 lb/hr of steam at increasingly higher efficiency.

The cogeneration system delivers about 80% of the paper mill's electricity, used primarily to drive motors on the process line, and 90% of the steam needed to dry newsprint newly produced from recycled newsprint.

The cogeneration plant provides significant energy cost savings, and its fully automatic, computer-based control system allowed FSC to avoid any operating staff additions.

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