



COMBINED HEAT AND POWER UNIVERSITY QUEEN'S UNIVERSITY

OWNER

Queen's University

LOCATION

Kingston, Ontario, Canada

PRODUCT

Taurus™ (7.5 MWe) Gas Turbine

CUSTOMER VALUE

Reduced Emissions

Queen's University in Ontario's central heating plant uses two 7.5 MW Taurus 70 generator sets and heat recovery steam generators which connect to the local utility. In the event of a power outage the combined heat and power system is designed to transfer to island mode operation. Gas turbines work well in this mode because they have the ability to change load rapidly when system demand changes.

The system produces up to 15 MW of power as well as 150,000 lbs/hr of 275 psi saturated steam. The project reduced NOx emissions by 75% and CO2 by 31%, or 57,000 tons per year. This is the equivalent of taking almost 10,000 cars off the road or the carbon dioxide absorbed by 15,500 acres of forest.

Solar Turbines Canada Ltd. supplied not only the turbine generator sets, but performed project engineering, procurement, and construction services.

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DSCHP-QU/0518/E0

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