



COMBINED HEAT AND POWER HOSPITAL

Montefiore Medical Center

OWNER

Montefiore Medical Center

LOCATION

Bronx, New York, USA

PRODUCT

Taurus™ 60 (5.6 MWe) Gas Turbine

CUSTOMER VALUE

Sustainable Energy Production

Located in the Bronx, Montefiore provides treatment programs for patients with all major illnesses and has distinguished centers of excellence in heart care, cancer care, children's health, women's health, and surgery.

In 2000, Montefiore realized that installing a combined heat and power (CHP) system would allow the hospital to provide its own clean, reliable, and efficient power. In addition to reliable power, the plant recovers the heat produced and uses it to cool the medical center campus. With an overall thermal efficiency of 74.5 percent, the CHP system lowers fuel and energy costs, while reducing emissions by an estimated 16,675 tons per year, the equivalent to removing the annual emissions of 2,842 cars or planting 4,547 acres of forest.

In 2003, during the worst electrical blackout in the history of the United States, while 50 million customers were impacted and other critical systems ground to a halt, the medical center was the only hospital in New York City that continued to operate with full power. The operating rooms, emergency room, and all ancillary areas not only continued to operate, but operated with air conditioning at the height of a heat wave.

Solar Turbines Incorporated

Tel: +1 619 544 5352

Mail: infocorp@solarturbines.com Web: www.solarturbines.com

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