

Powering the Global Energy Demand

Sustainable Energy Production at Montefiore Medical Center

Location: Bronx, New York

Owner/Operator: Montefiore Medical Center

Installed: 2000



The University Hospital and Academic Medical Center for the Albert Einstein College of Medicine is an internationally recognized leader in patient care, education, research, and community services. 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 recognized that installing a combined heat and power (CHP) system would allow the hospital to provide its own clean, reliable, and efficient power.

At the heart of the system is a *Taurus*™ 60 generator set equipped with *SoLoNOx*™, a dry, lean-premix combustion technology developed by Solar Turbines. The *Taurus* 60 runs on natural gas, but has dual fuel capability if needed.

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 reduces 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, they operated with air conditioning at the height of a heat wave.

In more than 2,000 cogeneration installations worldwide, *Solar*® gas turbines generate clean electrical power from natural gas, while simultaneously producing useful thermal energy tailored to meet your needs for heating, cooling and process steam.

Our combined heat and power packages are specifically designed to limit impact on the environment, protect people who operate the equipment, and respect people who live nearby. Due to their exceptional overall efficiency, *Solar* gas turbines can provide significant reductions in greenhouse gas emissions by displacing power and heat from more traditional and carbon-intensive sources, while at the same time maintaining very low pollutant emissions levels.

For more information, contact:
Solar Turbines Incorporated
Telephone: +1-619-544-5352
Email: powergen@solarturbines.com
Web: www.solarturbines.com