



SYRACUSE, NEW YORK VETERANS ADMINISTRATION MEDICAL CENTER

Eight natural gas-fueled C65 Capstone microturbines and a FlexSet DG (distributed generation) control system for on-site power monitoring are in operation at the Syracuse VA Medical Center.

To make the best use of space at the 160-bed hospital, the CHP system is located on the medical center's roof. The Capstone microturbines are lightweight, low-noise and near-zero vibration — an important feature for the health care facility.

In addition to providing 500 kW of electrical power the CHP system also offsets purchased steam and natural gas by capturing the exhaust energy and supplying the thermal energy to the facility's heated water systems.

FlexSet DG monitoring provides individual control and performance measurements of the system for VA facility operations staff both on-site or via remote website access.

GEM Energy is managing the microturbine service for the hospital's system under a Factory Protection Plan (FPP).

“GEM Energy provided technical expertise during the design and construction of the CHP and also provided us the opportunity to visit an operational system of similar size. GEM's service response has been extraordinary with timely support.

For other facilities considering the benefits of a CHP system, I would recommend factoring vibration, noise, weight, and nitrous oxide emissions into the analysis. A natural gas turbine offered us the best choice because these concerns were minimized.”

Mike Arnold, Energy Manager
Syracuse VA Medical Center

