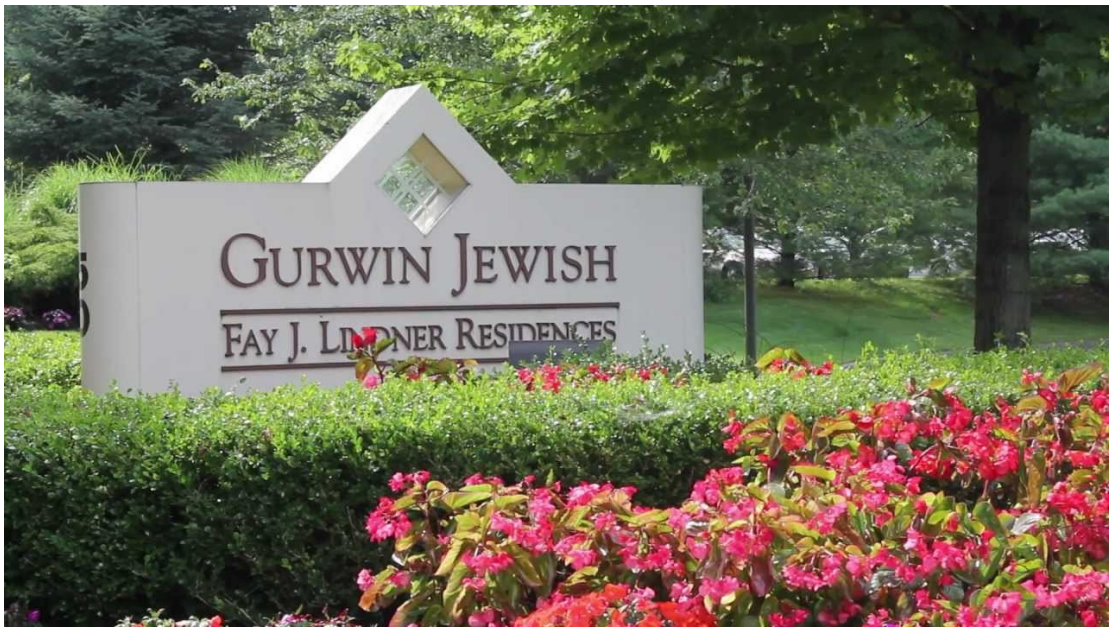
Case Study

Tecogen®

Advanced Modular CHP Systems

CM-75 Combined Heat and Power Systems



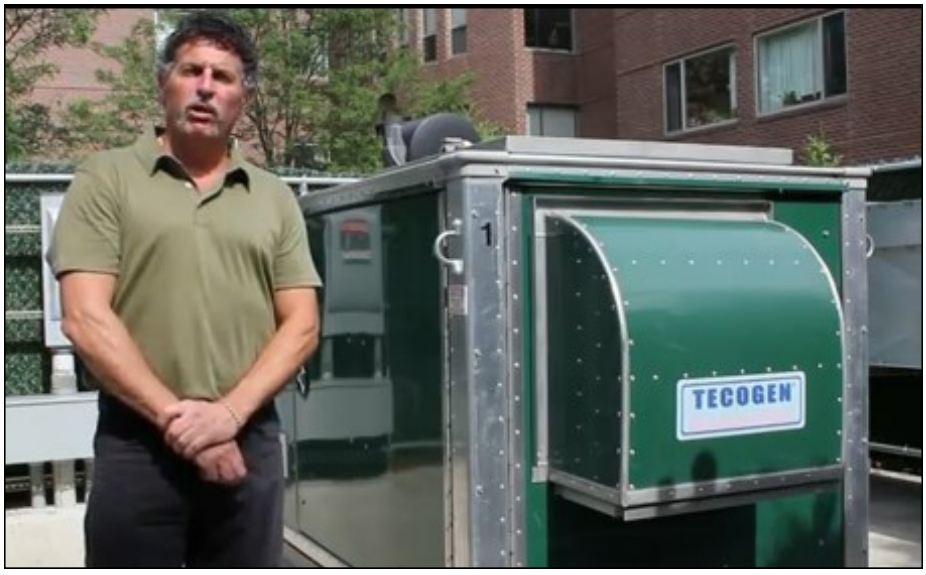
The Gurwin Jewish Nursing and Rehabilitation Center in Commack, New York, provides a full-service health care facility for the community of Long Island. Since first opening their doors in 1988, the 64-acre campus has continued to extend their facilities and services to include over 400 beds for short-term rehabilitation and long-term nursing, 200 full apartments for assisted living, an adult day health program, a Respiratory Care Unit, and a Dialysis Center.

Providing such extensive services to a health care environment requires state-of-the-art facilities and technology. In December of 2009, with a desire to operate more efficiently and save money while lowering their carbon footprint, Gurwin Jewish installed six Tecogen 75kW Combined Heat and Power (CHP) systems throughout the campus to service its three main buildings. Once installed, Tecogen's natural gas engine-driven CHP modules enabled the health care campus to produce its own hot water and electricity without disruption to the residents and guests.

> "We are saving $120,000 per set of two units–about $450,000 a year,"

Safeguarding a comfortable, peaceful environment was one of Gurwin Jewish's

greatest requirements when planning their energy improvements. "One of the biggest concerns we had to address when considering this power upgrade was the level of sound that might be emitted from machines producing electricity onsite," said Charles J. Loparo, Director of Engineering at Gurwin Jewish.



Gregg Giampaolo explains the benefits of the Gurwin project,. His company, All Systems Cogeneration, did the engineering for the project..

"We haven't had any issues with the sound," reported Loparo. "Being that these are on the roof and adjacent to some apartments, we haven't had any complaints about the sound--so everything proved to be as quiet of an operation as we thought it would be."

The CHP systems at Gurwin Jewish were installed with specially designed Tecogen acoustic enclosures, ensuring that they are weatherproof and well suited to residential and business settings in need of sound control.

While quietly operating, Tecogen CHP modules offer "the most progressive form of power," according to Loparo. "We chose Tecogen cogeneration because they have the best product, the best service and more dependable generators."

"We are saving $120,000 per set of two units--about $450,000 a year," said Gregg Giampaolo, owner of All-Systems Engineering, the firm responsible for the installation of the CHP systems at Gurwin Jewish. "We are also producing about 70% of all the onsite electricity that all three buildings need. With the combined six units, the facility is covered completely for domestic hot water."

Powered by natural gas-fueled engines, Tecogen CHP systems can significantly reduce customers' electrical usage and demand, shielding them from soaring electric rates while cutting energy costs and global warming emissions by half. Meanwhile, free "waste" heat is recovered from the system and used to offset fuel that would otherwise be needed for water heaters and boilers, creating additional savings in the facility's energy bills. Tecogen modules achieve this production of electricity and hot water with 90% overall efficiency.

For more information about Tecogen's
CM-75 Cogeneration Module
or our other Natural Gas Engine-Driven Products visit
www.tecogen.com

or contact us at…
781-466-6400 • products@tecogen.com
45 First Avenue, Waltham, MA 02451