



Advanced Modular CHP Systems

InVerde - Inverter-Based Cogeneration Module

THE BREVOORT, a 1950's era co-op tower in the Greenwich Village section of New York City, maintained power, water and heat during the wide spread power outages left in the wake of

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Superstorm Sandy thanks to Tecogen's combined heat and power (CHP) system. The four Tecogen InVerde units providing power to the building are designed to provide not only efficient, economical and clean power day in and day out, but to continue functioning even in the case of a grid failure and black-out.

The Brevoort co-op board converted the 20 - story building from oil heat to the natural gas CHP system as part of an energy-efficiency green

initiative that was fully implemented in 2010. In New York City, Tecogen's cogeneration systems can operate in parallel with Con Edison utilities during periods of regularly available power. During a power grid failure Tecogen's proprietary inverter and microgrid technology will continue to provide power to the residences.

"Having our own power source gives us control of our energy usage and provides a stand-alone system when the local utility fails," said Diane Nardone, President of the Brevoort co-op board. "When Sandy hit, Con



The Brevoort three nights into the Hurricane Sandy blackout with lights shining powered by four Tecogen InVerde CHP units.

Edison cut power to the lower 1/3 of Manhattan. Every other building in our neighborhood, with the exception of some NYU facilities, lost power, heat, and in many cases, water. Investing in this technology has given us environmental and economic benefits and the added security of knowing that we can stay up and running no matter what nature throws at us. Powered by our CHP system, we were the only building on lower Fifth Avenue able to provide energy and full service to our residents. A twenty-story climb is not what our shareholders have in mind when they buy apartments in this building."

"The Brevoort usually houses about 720 people but those numbers swelled to roughly 1,500 as people came from other parts of NYC," said Joe Weinschreider from Energy Concepts, the design engineers for the Brevoort CHP plant. "The Tecogen CHP system powered the entire building including the central boilers, domestic water pumps, all elevators and all apartments. The plant ran 24/7 under computerized control with remote monitoring until ConEd power was restored five days after the storm."



The Brevoort CHP plant consists of four 100kW Tecogen InVerde units which provide heating, domestic hot water and electricity for the 20 story co-op condo building.

"Our hearts go out to our many friends, families and the communities affected by the storm," said Robert Panora, president and COO of Tecogen. "Tecogen is proud to offer systems that provide security against a city-wide black-out and help save money, gain energy efficiency and reduce the carbon footprint."

Based upon the Brevoort's CHP plant's very successful, and very visible, operation throughout the Hurricane Sandy blackout, a number of neighboring buildings have installed Tecogen cogeneration systems of their own.



For more information about Tecogen's
**InVerde, INV-100,
Inverter-Based Cogen Module**
or our other Natural Gas Engine-Driven Products please
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