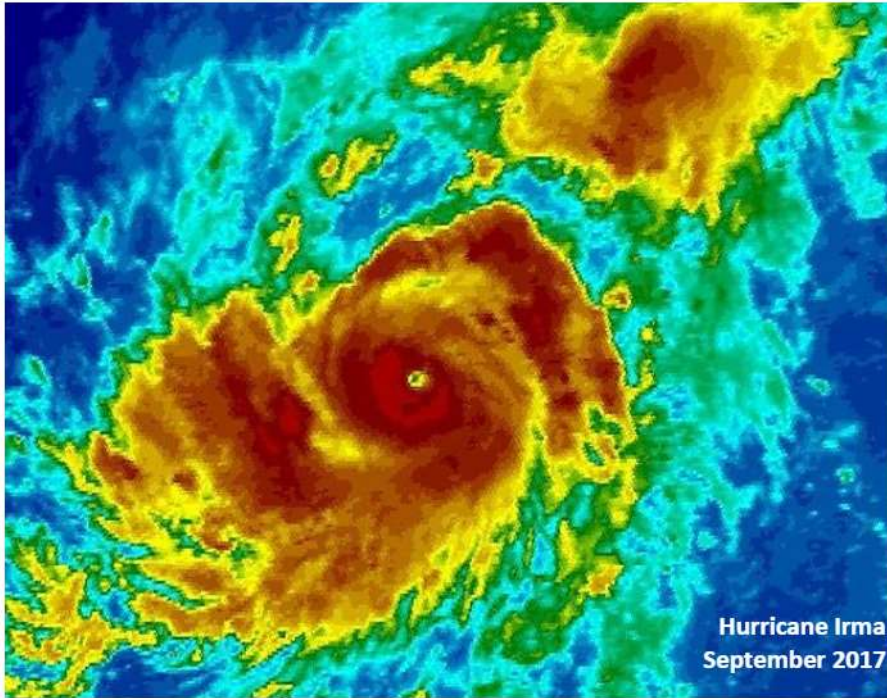


Hurricanes Don't Stop Microturbines



Hotel, U.S. Virgin Islands

Equipment: 1.8 MW Capstone
Microturbine Power Plant

Fuel: Propane

Results

- Short downtime period after hurricane
- First hotel in Virgin Islands with power and water

When Category 5 Hurricane Irma ravaged the U.S. Virgin Islands with winds up to 185 mph, nearly all 106,000 residents lost power and water. While it took three to six months for many businesses to re-open, a St. Thomas hotel continued operating with its 1.8MW gas-fired power plant featuring Capstone microturbines.

Immediately after the storm passed, Capstone's Caribbean distributor dispatched a team to assess any unit damage. Within a few hours, the onsite power plant returned to full service, making the hotel the first in the Virgin Islands with power and water.



Superstorm Sandy: 'Always-On' CHP Power

Christian Health Care Center, New Jersey

298-Bed Assisted Living Facility

Equipment: Four C65 Capstone microturbines

Fuel: Natural gas

Results

- Provided all power, heat, hot water while facility was off the grid for 14 days
- No residents transferred to other facilities

Red Cross Shelter - Salem Community College, New Jersey

Equipment: Year-round, three C65 Capstone microturbines produce >80% of Davidow Hall's electricity and 100% of the building's heating and cooling

Fuel: Natural gas

Results

- Only power source for facility
- Operated continuously for nearly 96 hours during/after storm while grid was down



Family at Davidow Hall Red Cross Shelter during Hurricane Sandy.



When Superstorm Sandy thrashed the East Coast in October 2012, power outages affected 2.6 million New Jersey businesses and homes. Fortunately, facilities with **Capstone Combined Heat and Power (CHP) microturbines** operated without interruption, providing power, heat and hot water for up to two weeks while the grid was down (*see left sidebar*).

How CHP works

1. An electrical generator is the key system component.
2. When the generator, such as a Capstone Microturbine, produces electricity, it also produces heat.
3. A CHP system captures the waste heat to create steam or hot water for space heating, cooling, or other processes.

Capstone Combined Cooling & Heating (CCHP) systems can reach fuel efficiencies of up to 90%, compared to about 45% for conventional heat and power systems that operate separately.

Capstone microturbines average 99% availability.