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Warwick Microgrid Project

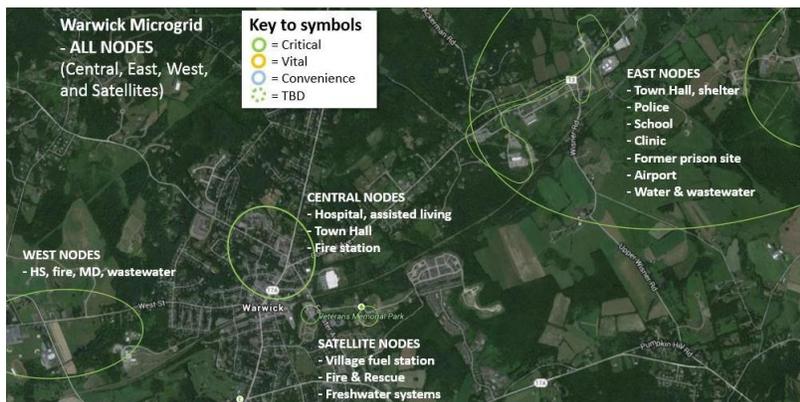
With a goal to pursue potential development of resilient, clean energy supplies for the community, Warwick, NY is partnering with Microgrid Institute to lead its NY Prize Stage I feasibility assessment. The project team includes technology partners Hitachi Consulting, Green Energy Corp., and TeMix Inc., and local stakeholders the Town and Village of Warwick, Orange & Rockland Utilities, the Warwick Central School District, and Bon Secours Charity Health System. The project is supported by a grant from the New York State Energy Research and Development Authority (NYSERDA).

Why a microgrid?

A microgrid would strengthen the Warwick community by ensuring reliable electricity supplies for critical facilities during power outages. Hurricane Irene, Superstorm Sandy, and the October 2011 Winter Storm inflicted serious damage and disruption to the community, displacing residents and causing widespread utility outages. Additionally, Warwick customers report frequent power quality issues that can disrupt critical systems, such as emergency dispatch and command center communications equipment. Also, modernizing the community's energy system is part of Warwick's strategy for cultivating economic growth and job opportunities in the area.

Benefits of the Warwick Microgrid Project:

1. *Ensure resilient energy supplies* for facilities and services critical to the community's health, safety, and economic vitality, minimizing disruptions caused by major weather events and reliability issues.
2. *Increase the community's energy efficiency* and decrease its environmental footprint.
3. *Optimize the use of local clean energy resources* – namely solar, wind, and biomass. The Project Team will assess the feasibility of integrating 25 to 30 percent renewable resources into the microgrid. By incorporating more local generation assets, the microgrid will keep more energy dollars in the community, and will reduce line losses associated with long-distance transmission of power.
4. *Modernize local grid infrastructure* to create a platform for development and operation of innovative and competitive energy assets and resources.



The Warwick Microgrid will be designed as a multi-node system – e.g., a “nested” microgrid containing three core clusters of facilities and several satellite systems serving individual assets that provide services critical to the health, safety, and vitality of the community.

Warwick Population: 32,000; Geographic area: 105 sq. mi.