NEW YORK STATE OF OPPORTUNITY. | NY Prize

Stage 2 Winners

During Stage 2, competitively selected communities receive funding to develop a comprehensive engineering, financial and commercial assessment associated with installing and operating a community microgrid at their proposed site in New York State.

For NY Prize details, visit
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Capital Region

1. EMPIRE STATE PLAZA	
John Moynihan jmoynihan@powerbycogen.com	The Empire State Plaza has both a large heating and electric energy requirement and provides a strong case for augmenting an existing steam plant with a combined heat and power system for a new microgrid. Power would serve the plaza and possibly the Times Union Center, city hall, the courthouse, and the new convention center while also providing thermal energy for the Plaza. The Empire State Plaza and Times Union Center can both be used as a facilities of refuge during a natural disaster or extended power outage. ***Partners:*** Albany County, New York Power Authority, Office of General Services, Clough Harbour Associates, Couch White LLC, City of Albany, Albany County Emergency Management Office, Pace Energy & Climate Center, and National Grid.

2. UNIVERSITY HEIGHTS	
Jason S. Allen allenpowerinc@outlook.com	The University Heights area in Albany has experienced significant load growth and a microgrid may mitigate the need for further transmission and distribution infrastructure improvements, as well as increase the reliability and availability of power. The proposed microgrid will include renewable sources, combined heat and power, and energy storage technologies. Power from this microgrid will be delivered to Albany College of Pharmacy and Health Sciences, Albany Law School, Sage College, Capital District Psychiatric Center, Parson's Child and Family Center, Congregation Beth Emeth, and the soon-to-be-developed Gallery at Holland apartment complex. ***Partners:*** Allen Power Inc., GE Energy Consulting, Labella PC Engineering, Joule Assets, Red Hook Solar, Michael Barnas PLLC, City of Albany Planning Department, and National Grid.

Central New York

3. CITY OF SYRACUSE	
Chris Carrick ccarrick@cnyrpdb.org	The project is anchored by the Onondaga County Resource Recovery Authority 39.6 MW waste-to-energy facility, one of the region's largest distributed energy resources (DERs), as well as three major critical facilities: Upstate University Hospital Community Campus, Onondaga Community College, and several Loretto Long Term Care facilities. In addition, there is a mix of additional customers served by the project, including: a nursing home, a senior housing complex, a fire station, the Onondaga County consolidated 911 dispatch center, an elementary and middle school, public housing and apartment buildings, and approximately 2,000 residential and small commercial customers. ***Partners:*** Central New York Regional Planning and Development Board, GE Energy Consulting, Clough Harbour Associates, Couch White LLC, and National Grid.

Long Island

4. TOWN OF HUNTINGTON	Huntington Village has suffered widespread power outages from storms in the last several years, including a power outage for more than eight days following Hurricane Sandy. The proposed community microgrid would be powered by a new fuel cell, energy storage, solar photovoltaics, and highly efficient combined heat and power (CHP) plants that use natural gas and biogas produced by the town's wastewater treatment plant to produce both electric and thermal energy to the microgrid customers. The near zero emissions of the fuel cell combined with the solar portion of this project will provide environmental benefits to the community. This mix of technologies would provide electricity and thermal energy to the town hall, Huntington Hospital, Huntington Wastewater Treatment Plant, Huntington YMCA, and Flanagan Senior Center, among others being evaluated. ***Partners:*** Town of Huntington, New York Power Authority (NYPA), TRC Energy Services, National Grid, and PSEG-LI.
Patricia Del Col pdelcol@huntingtonny.gov	

5. ROCKVILLE CENTRE	One of three municipally owned electric utilities on Long Island, Rockville Centre provides power to approximately 11,000 electrical accounts. The community was devastated by Hurricane Sandy. The proposed microgrid would include up to 700 kW of solar power, 6 to 12 MW of dual-fuel or gas-fired generation, as well as potential inclusion of energy storage, demand-side management, and/or combined heat and power. The planned microgrid would serve 2,900 residents and 34 critical facilities including the South Nassau Communities Hospital, police and fire services, village hall, assisted living center, and vital retail businesses. ***Partners:*** Village of Rockville Centre, RRT SIGMA, Siemens, Wendel, and CSA Engineering.
Francis X. Murray FMurray@rvcny.us	

6. VILLAGE OF FREEPORT	Village of Freeport incurred significant damage and power loss during Hurricanes Irene and Sandy. With 43,000 residents in an area of only 4.5 square miles—one of the highest population densities on Long Island—Freeport is an ideal candidate for a microgrid. The proposed Freeport microgrid would, in addition to repowering the municipal electric utility's existing power plant, seek to deploy solar, wind, fuel cell, combined heat and power, and battery storage. Power will be distributed to the village's LIRR station, telecommunications system, police and fire operations, four public schools, as well as more than 250 commercial and 150 residential parcels. ***Partners:*** Village of Freeport, Freeport Electric, Global Common, D&B Engineers, GE Energy Consulting, Joule Assets, and West Monroe Partners.
Robert Foxen bob.foxen@globalcommon.com	

New York City

7. EAST BRONX	This microgrid will be a district energy system that will provide heat and power to Weiler Hospital, Jacobi Medical Center, the Albert Einstein College of Medicine, and Calvary Hospital. Although on-site generation is available, the proposed microgrid will mitigate risk of single generators failing during prolonged outages. In addition, the site is located in an area that is experiencing stress on the transmission and distribution system. The proposed microgrid will include combined heat and power, solar, battery systems, steam turbine generators, and heat recovery steam generators. The project will also leverage the existing steam generation plants at the four hospitals. ***Partners:*** Enwave, Burns & McDonnell, Gotham Energy 360, Van Zelm Engineers, Couch White, Utilivisor, and ConEd.
Peter Bettle peter.bettle@brookfield.com	

New York City (CONTINUED)

8. CLARKSON AVENUE	Within 11 city blocks of Clarkson Avenue in Brooklyn, three hospitals provide medical and mental health services to the community: the New York State Office of Mental Health (Kingsboro Psychiatric Center), State University of New York (Downstate Medical Center), and Kings County Hospital Center. Because they are both critical care providers and places of refuge during community emergencies, a resilient and reliable energy infrastructure is required. These three organizations proposed a microgrid that will make use of combined heat and power and renewable sources, fuel cells, energy storage, and advanced transmission and distribution technologies. The proposed microgrid will supply power and possible heating to the hospitals and possibly include Kingsbrook Jewish Medical Center and the George Wingate High School. ***Partners:*** Burns Engineering, Customized Energy Solutions, Siemens, NYPA, Luthin Associates, Matrix New World Engineering, Michael Barnas PLLC, and ConEd.
Edward J. Killeen ed.killeen@omh.ny.gov	

9. SUNNYSIDE YARD	The Amtrak New York City microgrid includes Sunnyside Yard (Long Island City, Queens), portions of Pennsylvania Station (Penn Station, Manhattan) and two education facilities (LaGuardia Community College (LCC), and Middle College High School (MCHS) in Long Island City. In its simplest form, the Amtrak NYC microgrid provides a solution to move people out of Penn Station to stations both north and south of the city. If expanded, the microgrid could move people further upstate and well into New Jersey; this is a particularly valuable societal benefit in a city where most people already rely on public transit. ***Partners:*** Booz Allen Hamilton, Burns Engineering, Siemens, Amtrak, New York City, and ConEd.
Cecelia Gerstner gerstner_cecilia@bah.com	

Southern Tier

10. CITY OF BINGHAMTON	At the confluence of two great rivers, the Susquehanna and the Chenango, the City of Binghamton has sustained more than its share of flood-related damages—in both 2006 and 2011, much of the city was submerged. During these events, the city either lost or experienced diminished services of electricity, potable water, police and fire protection, as well as housing. The proposed microgrid will include combined heat and power, solar, and hydroelectric power. Power would be provided to Binghamton City Hall, Binghamton Police Department, Binghamton Fire Department, Binghamton Water Treatment Plant, YMCA of Broome, YWCA of Binghamton, Twin River Commons Student Housing Complex, Holiday Inn Arena, Bates Troy Laundry, Kradjian Properties, Keystone Associates Architects, Engineers and Surveyors, and NYSEG. ***Partners:*** GE Energy Consulting, Bridgestone Associates Limited, Keystone Associates Architects, Engineers and Surveyors, LLC, and NYSEG.
Richard C. David rcdavid@cityofbinghamton.com	

Western New York

11. BUFFALO-NIAGARA MEDICAL CAMPUS	This growing medical campus includes 12,000 employees and many of the city's vital medical facilities. The proposed microgrid will use a combination of combined heat and power and renewables, such as solar, energy storage, alternative fuel/generation, and controllable loads to meet the resiliency needs of individual Buffalo Niagara Medical Campus institutions (Kaleida Health, Roswell Park Cancer Institute, State University of New York at Buffalo ("UB") campus facilities, Cleveland Biolabs) and portions of the adjacent Fruit Belt residential neighborhood that share common electric infrastructure. ***Partners:*** Black & Veatch, Power Analytics, Electric Power Research Institute, Erie County, City of Buffalo, National Fuel Gas, Erie County Department of Health, and National Grid.
Paul Tyno ptyno@bnmc.org	