



**Town Center Distributed Energy Resource (“TCDER”)
Crest Haven Complex Advanced Microgrid Feasibility Study
Seven Mile Beach / Middle Wastewater Treatment Plant
Cape May Court House, New Jersey**

PROJECT OVERVIEW

As a result of widespread power outages associated with electric grid failures resulting from conditions created by Superstorm Sandy, the New Jersey Board of Public Utilities (NJBPU) created a Microgrid program. A Microgrid is designed and constructed such that, through various technological means, electrical power can be provided to connected infrastructure during outage periods on the main electrical grid. The NJBPU is funding feasibility studies for the creation of Microgrids in the nine (9) Counties affected by Superstorm Sandy, as defined by the U.S. Department of Housing and Urban Development.

One of the requirements to apply for funding under this program is that the project must be in a “Town Center” previously identified in a Technical Report from NJIT: “New Jersey Town Centers Distributed Energy Resource Microgrids Potential”, October 2014. The Technical Report defined a “Town Center” as a geography that includes statistically significant public buildings and facilities that overlap or are adjacent to low-to-moderate income census tracts. For each “Town Center”, a potential anchor (a wastewater treatment plant or statistically significant public facility or building) that uses a large amount of energy was identified. The Technical Report identified the Cape May County Municipal Utilities Authority’s Seven Mile Beach/Middle Wastewater Treatment Facility as a potential “anchor” for Cape May County. The Seven Mile Beach/Middle Wastewater Treatment Facility has historically been the Authority’s hub of wastewater residual biosolids management.

The Authority applied for and received approval from the NJBPU for a \$175,000 Town Center Distributed Energy Resource (“TCDER”) reimbursement incentive to fund a study investigating the feasibility of constructing a wastewater residual biosolids fueled combined heat and power plant and advanced Microgrid that would provide electrical and thermal energy to critical infrastructure within the Crest Haven Complex.

SCOPE OF WORK

This project seeks to develop sufficient data to answer many questions surrounding the possible construction of a wastewater residual biosolids/natural gas fueled, black start capable combined heat and power plant with associated advanced Microgrid infrastructure supplying the electrical grid; and, during grid outages, capable of operating for the sole benefit of the critical infrastructure within the Crest Haven Complex. The end product of the study shall be a report that provides an in depth analysis of and recommendations for a potential wastewater residual biosolids fueled advanced TC DER Microgrid for the Crest Haven Complex.

The Authority has secured the cooperation of several Project Partners: the County of Cape May, the County Special Services School District, the County Technical High School District, the New Jersey Army National Guard, Atlantic City Electric, and South Jersey Gas.

SCHEDULE

Project Consultant Selected On or About: November 13, 2017

Project Consultant Delivers Final Feasibility Study on or About: September 10, 2018

FOR MORE INFORMATION, PLEASE CONTACT

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[Link to Cape May County Herald Article, September 11, 2017](#)