



Green Innovation Grant Program (GIGP) No. 60
CWSRF Project No. C9-9203-01-70
Jamestown Board of Public Utilities
Project Name: Digester Gas Collection, Storage and Micro Turbine Power Generation

DEC Region: 9 County: Chautauqua

Type of Financing: American Recovery and Reinvestment Act (ARRA) Green Innovation Grant Program

Estimated Total Project Cost: \$3,293,995.00

Recommended GIGP Award Amount: \$2,555,000.00

Local Share: \$738,995.00

Other Funding Sources: \$0.00

Project Category: Clean Water SRF. Energy Efficiency.

Project Description:

The purpose of the project is to improve bio-solids processing and digester methane gas capture for the utilization of digester gas for renewable energy.

The scope of the project is defined by the Engineering Report titled "Wastewater Treatment Plant Digester Evaluation, Jamestown Board of Public Utilities, February 2009 prepared by Stearns and Wheler and approved by NYSEFC on December 14, 2009. The project is further defined by plans and specifications titled "WWTP Digester Improvements, BPU No. BD-29-09 Contract No. 1- General and Contract No. 2- Electrical", dated 2009 and approved by NYSEFC on December 14, 2009.

Project Summary:

The project involves the upgrade of existing digesters, including refurbishment of digester internal pumping, replacement of and rehabilitation of covers on the digesters, and replacement of existing gas generators with one, higher efficiency micro-turbine generator. Due to the age and condition of the equipment, the wastewater treatment plant owned and operated by the applicant is no longer able to capture and use methane gas for renewable energy from the sludge digesters at the facility. This project will restore the bio-solids process to its intended operating performance and will allow for the use of the produced methane gas for power generation.

This project is categorically eligible for GIGP financing per the United States Environmental Protection Agency's (EPA's) "Guidance for Award of Recovery Act Funding to State Revolving Funds" dated March 2, 2009:

1. Energy Efficiency. Categorically eligible projects include the use of "improved technologies and practices to reduce the energy consumption of water quality projects... produce clean energy used by a treatment works" (page 43 of the EPA Guidance) including the example in IV. c. "producing clean power...on site [via]... biogas powered combined heat and power" (page 44);

This project is located in Chautauqua County which is designated as an economically distressed area.

Funding Summary:

The recommended award reflects partial funding since the applicant included project components that were ineligible under GIGP. The Jamestown Board of Public Utilities has committed to using existing capital reserve funds to provide the 10% local match.

SEQR Findings:

The Corporation had determined the proposed action will finance a project which constitutes "rehabilitation or reconstruction of a structure or facility in kind" which is a "Type II" action under SEQR, pursuant to 6 NYCRR Section 617.5(c)(2).

Construction Schedule:

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
Jamestown Board of Public Utilities Digester Gas Collection, Storage and Micro Turbine Power Generation	March 1, 2010	January 31, 2011