



**Green Innovation Grant Program (GIGP) No. 23**  
**DWSRF Project No. D0-17963**  
**City of Syracuse**  
**Project Name: Westcott Reservoir Microturbine System**

**DEC Region: 7 County: Onondaga**

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

**Estimated Total Project Cost:** \$350,000.00

**Recommended GIGP Award Amount:** \$315,000.00

**Local Share:** \$35,000.00

**Other Funding Sources:** \$0.00

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**Project Category:** Drinking Water SRF. Energy Efficiency.

**Project Description:**

The project is to construct a 50 kilowatt (kW) microturbine system at the Westcott Reservoir in the City of Syracuse. The microturbine system involves the use of a packaged hydraulic turbine, generator, and electrical wiring/control system to continuously produce electricity by way of the hydrokinetic forces (excess head) in the water pipeline.

**Project Summary:**

The microturbine system at the Westcott Reservoir involves the use of a packaged hydraulic turbine, generator, and electrical wiring/control system to continuously produce electricity by way of the hydrokinetic forces (excess head) in the water pipeline. The microturbine system is expected to generate approximately 438,000 kWh of electricity annually, yielding cost offsets and/or annual revenues of some \$40,000 based on an assumed electric rate of \$0.09/kWh.

This project is categorically eligible for GIGP financing in the Energy Efficiency category per the United States Environmental Protection Agency's (EPA's) "Guidance for Award of Recovery Act Funding to State Revolving Funds" :

1. Energy Efficiency. Categorically eligible projects include "capital projects that reduce the energy consumption of eligible drinking water infrastructure projects" including the example in IV. c. "producing clean power...on site [via]... hydroelectric" (page 48).

**Funding Summary:**

The City of Syracuse will provide the local share of at least 10% but also intends to seek a grant from NYSERDA in support of this project.

**SEQR Findings:**

The Corporation has determined that the proposed action will finance a project which constitutes the "...replacement, rehabilitation or reconstruction of a structure or facility in kind..." and the construction or expansion of a primary or accessory/appurtenant structure involving less than 4,000 feet..." which is a "Type II" action under SEQR, pursuant to 6 NYCRR 617.5(c)(2) and 6 NYCRR 617.5(c)(7).

**Construction Schedule:**

Description

City of Syracuse

Westcott Reservoir Microturbine System

Construction Start

January 15, 2010

Construction Completion

December 31, 2010