



Green Innovation Grant Program (GIGP) No. 47

CWSRF Project No. C3-5380-03-70

Village of Ellenville

Project Name: Village of Ellenville Wastewater Treatment Plant Energy Improvements

DEC Region: 3 County: Ulster

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

Estimated Total Project Cost: \$379,967.00

Recommended GIGP Award Amount: \$341,970.00

Local Share: \$37,997.00

Other Funding Sources: \$0.00

Project Category: Clean Water SRF. Energy Efficiency.

Project Description:

This project involves the installation of solar panels to offset the electrical demands at the Village of Ellenville wastewater treatment plant.

The scope of this project is defined by the Engineering Report titled: "Ellenville Wastewater Treatment Plant Improvements" dated February 2008 prepared by Barton & Loguidice and approved by NYSEFC on December 14, 2009. This project is further defined by the plans and specifications titled "Wastewater Treatment Plant Improvements Contract 1E - Photovoltaic Construction" dated November 2009 prepared by Barton & Loguidice and approved by NYSEFC on December 14, 2009.

Project Summary:

The photovoltaic (PV) cells will be installed as part of the overall reconstruction of the wastewater treatment plant (WWTP), for which construction is starting in 2009. The PV system is estimated to have an average annual output of 61,165 kilowatt hours (kWh), offsetting 14% of the facility's average annual electrical usage. The Village listed the WWTP upgrade on the 2009 CWSRF Intended Use Plan (IUP); however, the project will not receive 2009 CWSRF financing.

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, including projects to reduce energy consumption or produce clean energy used by a treatment works" (page 43) including the example in IV. c. "producing clean power...on site [via]... solar (page 44).

Funding Summary:

The Village is also getting USDA ARRA funding for the larger WWTP project. The Village will provide the local 10% match.

SEQR Findings: The Corporation has determined that the proposed GIGP grant will finance a project that will not have a significant adverse effect on the environment: (1) DEC has certified that this project is in compliance with the SERP/SEQRA; (2) no potentially large environmental impacts have been identified; and (3) the Village of Ellenville has issued a negative declaration.

Construction Schedule:

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
Village of Ellenville Village of Ellenville Wastewater Treatment Plant Improvements	April 1, 2010	April 1, 2011