



Green Innovation Grant Program (GIGP) No. 243

CWSRF Project No. C8-6458-01-70

Village of Elba

Project Name: Water and Wastewater System Green Improvements

DEC Region: 8 County: Genesee

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

Estimated Total Project Cost: \$305,688.00

Recommended GIGP Award Amount: \$275,119.00

Local Share: \$30,569.00

Other Funding Sources: \$0.00

Project Category: Clean Water SRF. Energy Efficiency.

Project Description:

This project involves wastewater treatment plant improvements which include solar units, energy efficient lighting, an effluent powered heat pump, and pipeline leak detection equipment.

Project Summary:

The applicant will make various improvements that meet the GIGP criteria. Energy efficient improvements include: installation of energy efficient lighting which will reduce energy use for lighting by 40-60%; solar units which will provide almost 20% of the facility's current electric needs, and an effluent-powered heat pumps which will utilize excess heat from the plant's effluent to meet approximately 30% of the facility's heating needs with clean energy. The pipeline inspection equipment will be used to identify leaks and will result in water conservation.

This project is categorically eligible for GIGP financing in three categories per the United States Environmental Protection Agency's (EPA's) "Guidance for Award of Recovery Act Funding to State Revolving Funds "(pages 42 - 44) dated March 2, 2009:

1. Energy Efficiency. Categorically eligible projects use "improved technologies and practices to reduce the energy consumption of water quality projects or produce clean energy used by a treatment works." This project follows the example in IV. b. "Leak detection equipment for treatment works," and IV. c. "Producing clean power for section 212 treatment works on site (wind, solar, hydroelectric, geothermal, biogas powered combined heat and power)."
2. Water Efficiency. Categorically eligible projects use "improved technologies and practices to deliver equal or better services with less water." Through the reduction of water loss this project meets the EPA criteria, in particular example V.f. "Collection system leak detection equipment".
3. Environmental Innovation. Categorically eligible projects "manage water resources in a more sustainable way, including projects that achieve pollution prevention... and projects that foster adaptation of water protection programs and practices to climate change." Example III. g. of the EPA Guidance includes "projects that facilitate adaptation of clean water programs and practices to climate change" (pp. 45-46). The use of an effluent powered heat pump reduces reliance of a Section 212 facility on fossil fuels and mitigates climate change impacts of that facility.

This project is located in Genesee 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 applicant will provide the 10% match from BAN.

SEQR Findings:

The Corporation has determined that the proposed GIGP grant will finance a project which will constitute a Type II Action and is in compliance with SERP pursuant to 6NYCRR 617.5 (C)(1) and 617.5(c)(7).

Construction Schedule:

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
Village of Elba	December 30, 2009	April 1, 2011
Water and Wastewater System Green Improvements		