



**Green Innovation Grant Program (GIGP) No. 225**  
**CWSRF Project No. C7-6233-02-70**  
**Village of Port Byron**  
**Project Name: Wastewater Treatment Plant Solar Electric Project**

**DEC Region: 7 County: Cayuga**

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

**Estimated Total Project Cost:** \$145,896.00

**Recommended GIGP Award Amount:** \$131,306.00

**Local Share:** \$14,590.00

**Other Funding Sources:** \$0.00

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

**Project Description:**

This project involves installation of photovoltaic solar panels to generate clean, renewable electrical power for use at the Village of Port Byron's wastewater treatment facility.

**Project Summary:**

The installation of forty-five 224 watt photovoltaic (solar) modules will generate up to 10.08 kilowatts (kW) power for providing clean, renewable energy for use at the Village's wastewater treatment facility. The estimated annual energy production for the installation is 11,494 kilowatt hours (kWh). This project will provide 7% of the energy needs for the wastewater treatment plant.

This project is categorically eligible for GIGP financing in two categories 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 following example in the Guidance (page 44): IV. c. Producing clean power for 212 treatment works on site (wind, solar, hydroelectric, geothermal, biogas powered combined heat and power)
  
2. 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 solar power reduces reliance of a Section 212 facility on fossil fuels and mitigates climate change impacts of that facility.

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

**Funding Summary:**

The Village has committed to provide the local 10% match.

**SEQR Findings:**

The Corporation has determined that the proposed GIGP grant will finance a project which will constitute is a "Type II" action under SEQRA, pursuant to Section 617.5(c)(7): "construction or expansion of a primary or accessory/appurtenant, no residential structure or facility...involving less than 4,000 square feet..."

**Construction Schedule:**

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
Village of Port Byron Wastewater Treatment Plant Solar Electric Project	April 1, 2010	July 1, 2010