

# Green Innovation Grant Program

**Project Title:** Water & Wastewater System Green Improvements

**Grant Recipient:** Village of Lyons

**Location:** Wayne County, NY

**Green Infrastructure Practice:** Energy Efficiency, Green Roof, Rainwater Harvesting & Re-Use

**EFC Grant Amount:** \$546,575

**Total Project Amount:** \$607,310

**GIGP ROUND 1**



*PROJECT COMPLETED 12/2010  
(ARRA)*

## Project Description:

A GIGP grant helped implement a variety of improvements to the Lyons wastewater and water treatment plant, enabling the facility to create renewable energy and manage stormwater with green infrastructure.

The plant collects rainwater and uses it at the facility for equipment cleaning and irrigation. Solar units provide approximately 15% of the facility's electric needs, and energy efficient

lighting reduces energy use by an estimated 40%-60%. Pipeline inspection equipment is now used to identify leaks, helping to conserve water, and a 93.3% efficient boiler with a hydronic system for heat exchange reduces heating and cooling demands by 10%. Automated dissolved oxygen sensors combined with variable frequency drives reduce aeration energy demand by up to 25%.



*A green roof (▲) and solar panels (▶) are upgrades implemented at a wastewater treatment plant in the upstate Village of Lyons, NY.*