

Siemens helps City of Glens Falls Wastewater Treatment Plant achieve DEC compliance through infrastructure improvements and upgrades

Background

The Glens Falls, New York, wastewater treatment facility serves the city of Glen Falls from five plants in upstate New York. Additionally, the plants process solid waste from outside customers.

To remain compliant with the state's Department of Environmental Conservation (DEC) the five facilities required upgrades to their infrastructure, and partnered with Siemens Industry, Inc., as part of a five-year project.

Objectives

The City of Glens Falls established the following objectives for this project:

- Upgrade and improve the Wastewater Treatment Plant's infrastructure, which includes:
 - Sewage systems
 - Metering systems
 - Monitoring and control of dams
 - Water pumping stations
- Achieve compliance with New York's DEC without requiring the city to bond, add to municipal debt, or raise taxes

Solution

Siemens provided improvements to the city's five managed plants as part of a two-phase project:

Phase 1:

- Rebuild mixing tanks
- Implement new mixers and belt filter presses
- Install a new Supervisory Control and Data Acquisition (SCADA) system, including new DP and incinerator controls

Phase 2:

- Install a UV disinfection system
- Expand the SCADA system
- Upgrade the fuels handling station, allowing the city to offset fuel oil consumption in the fluidized bed incinerator

A third phase of the project is currently under development, and will help increase plant revenues through improvements to the facility's cake receiving area. Failed HVAC systems will also be replaced as part of this third phase.

Results

Siemens delivered the following projected savings for the City of Glens Falls:

- Electric and fuel oil – \$190,000
- Maintenance – \$100,000
- Avoided landfill costs – \$121,000

The upgrades and improvements Siemens implemented at the Wastewater Treatment Plant also helped increase revenues for the City of Glens Falls:

- Septage – \$110,000
- Liquid sludge – \$363,000

Building Technologies

Siemens Industry, Inc.
Building Technologies
1000 Deerfield Parkway
Buffalo Grove, IL 60089

(847) 215-1000

www.usa.siemens.com/buildingtechnologies

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