

# Green Innovation Grant Program

**Project Title:** Waste Heat Recovery/Co-Generation

**Grant Recipient:** Albany County

**Location:** Albany County, NY  
**Green Infrastructure Practice:** Energy Efficiency, Water Efficiency, & Environmental Innovation

**EFC Grant Amount:** \$ 5,868,742

**Total Project Amount:** \$ 6,558,325

**GIGP ROUND 1**



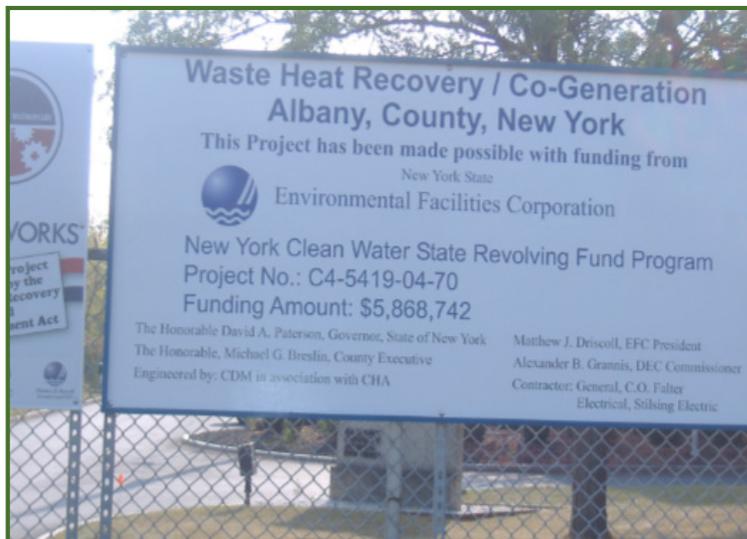
*PROJECT COMPLETED 2011*

## Project Description:

This project provided a renewable energy source using sewage sludge as a bio-mass fuel, creating clean power for a portion of a wastewater facility's electrical and heating requirements. A combined heat and power (CHP) system was installed to capture flue gas waste heat and use it to produce electricity from the existing Albany County Sewer District's (ACSD) incinerator. The result reduces demand on outside electrical sources by approximately 69% on an average hourly basis (a 3.3 million kWh annual reduction),

and the average weekly consumption of natural gas by an estimated 32% (approximately 100,000 therms per year).

The new system saves the plant in operating costs, as well as conserving water through the reuse of 50,000 gallons per day of effluent for equipment cooling, and reducing CO2 emissions by approximately 1,445 tons per year.



◀ *The Albany County Sewer District produces biogas using sewage sludge, providing clean power for a wastewater treatment plant.*