



NYSERDA

Mark Gundrum

New York State Energy Research
Development Authority

Compendium of Programs

- CHP Demonstration Program & Fleets
- **CHP Performance Program (Existing Facilities)**
- CHP Performance Program (Multifamily)
- RPS CST Anaerobic Digester Gas CHP
- RPS CST Fuel Cell CHP

Existing Facilities CHP Performance

- Year Launched: 2007
- Primary Goal: Resource Acquisition: Rapid installation of systems yielding peak load reduction during Summer period.
- Secondary Goal: Deployment of commercially available, clean and efficient CHP systems.

Existing Facilities CHP Performance

- Number of Projects: 14
- Program Investment: \$ 7.3 million.
- Total Investment: \$7.3 million.
- Capacity at Full-Build: 25.7 MW.

Administration

- Program Administrator: NYSERDA Energy Efficiency Services
- Eligible Participants: Customer sites paying into the SBC fund.
- Recipient of Payments: Will be the entity that signs the contract with NYSERDA (could be any of the following): site, developer, ESCO, equipment vendor, other.

Solicitations

- Solicitation Mechanism: Open enrollment (rolling admission).
- Frequency of Offering: Open continuously until 6/30/2010.
- Annual Budget: Existing Facilities Program - \$30 million for energy efficiency; CHP is a component.
- Payment Structure:
 - 1st payment after installation and commissioning are complete,
 - 2nd payment based on first year actual performance,
 - 3rd payment based on second year actual performance
 - total payment capped at \$2 million.
- Reporting Requirements: Daily electronic submittal of hourly performance data (fuel consumption, electric production, heat recovery/discard).

Technologies

- **Eligible:** Mature electric-generating CHP systems (e.g., engines, combustion gas turbines) operating on natural gas and sized at 250 kW or larger.
- **Ineligible:** Mechanical-power-only CHP, emerging technologies (e.g., fuel cells, microturbines, ORC, Stirling engines), exotic fuels
- **Rationale:** Program intent is to acquire proven large-scale operating resources.

Example Flagship Project

- Project/Site Name: Burke Rehabilitation Hospital
- Project Champion: Siemens
- Technology: Reciprocating Engines
- System Size: 600 KW.
- Flagship Features: First project to complete Year 1 M&V
- Achievements:
 - 62% FCE
 - 4,500,000 kWh generated
 - 525 KW Average Summer Peak Demand Reduction

Other Activities of Program

- Feature #1: Site-Specific CHP Feasibility Studies.
- Purpose: Assist site owner with evaluating efficiency and economics of various options (such as system size, technology choice, thermal uses, operational dispatch schedule).
- Feature #2: Data Collection and Dissemination.
- Purpose: Primarily collected for purpose of computing incentive payment; secondarily available for use to perform benchmarking and to investigate persistence of performance, etc.

Summary Impressions

- Working Well: Available to CHP developers and site owners on their time schedule. Predictable certainty of admission into program.
- Challenges: Uncertainty/risk regarding ultimate incentive payment (major payments could be reduced in event of poor performance).
- Proudest of: Established relationships with developers and leading real estate holding companies capable of adopting CHP in numerous, large, trend-setting buildings throughout their portfolio.

Contact Information

- Name: Mark Gundrum
- Title: Project Manager
- Organization: NYSERDA Energy Efficiency Services
- Address: 17 Columbia Circle, Albany, New York 12203
- Telephone: (518) 862-1090 extension 3256
- Email: MRG@nyserda.org
- Websites: www.nyserda.org/programs/dgchp.asp
<http://chp.nyserda.org> (CHP data)