



NYSERDA

Edward B. Kear, III,
P.E., DGCP

New York State Energy Research
Development Authority

Compendium of Programs

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

CHP Demonstrations & Fleets

- Year Launched: 2000 (Fleets added in 2008)
- Primary Goal: Gain first-hand observation of hurdles and success techniques for specific technologies & applications.
- Secondary Goal: Compile lessons learned for sharing with marketplace participants and regulators.
- Tertiary Goal: Achieve installed capacity and operational savings (tertiary goal because Demonstration is not a “resource acquisition” program, nevertheless, program has excellent energy efficiency metrics).
- Fleets Goal: Move from “one-of-a-kind” installations to “cookie-cutter” replication by partnering long-term with a decisionmaker who controls multiple similar sites (e.g., a chain of supermarkets).

CHP Demonstrations & Fleets

- Number of Projects: 113 (125 sites).
- Program Investment: \$85 million.
- Total Investment: \$428 million.
- Capacity at Full-Build: 221 MW.

Administration

- Program Administrator: NYSERDA R&D Group
- 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: Competitive solicitation.
- Frequency of Offering: Issued once per year with multiple interim due dates.
- Annual Budget: \$25 million.
- Payment Structure: Milestone payments, capped at lesser of \$2 million (\$4 M fleets) or 50% of total cost.
- Reporting Requirements: Daily electronic submittal of 15 min. performance data (fuel consumption, electric production, heat recovery/discard). Project commissioning report. Open house event. Conference presentation.

Technologies

- **Eligible:** Any electric-generating CHP system operating on any fuel, except systems eligible for RPS CST programs while RPS CST funds are available.
- **Ineligible:** Mechanical-power-only CHP.
- **Rationale:** Program intent is to investigate and promote innovative techniques for conquering significant challenge of achieving interconnection with local electric utility company.

Example Flagship Project

- Project/Site Name: Burrstone Energy (Faxton-St. Lukes Hospital/Utica College).
- Project Champion: Bette & Cring Cogen Power Technologies Division, Latham, NY.
- Technology: Four (4) natural gas-fueled internal combustion reciprocating engines.
- System Size: 3.6 MW.
- Flagship Features: Established a precedent allowing “private wires” electric distribution across a public right-of-way without becoming a regulated utility subject to NYSPSC jurisdiction.

Other Activities of Program

- Feature #1: Technology Transfer Studies.
- Purpose: Marketplace nurturing via tutorials for market potential, best practices, etc.
- Feature #2: Data Collection and Dissemination.
- Purpose: Enable benchmarking, investigation of persistence of performance, etc.
- Feature #3: Co-sponsorship of Northeast Regional Clean Energy Applications Center.
- Purpose: Promote “regionalism” of CHP marketplace to encourage economy-of-scale via critical density for developer activities and via regulatory consistency.

Summary Impressions

- **Working Well:** Helping CHP developers “learn the ropes” and building a cadre of competent practitioners who understand the locality-specific conditions and processes.
- **Challenges:** Expedite marketplace evolution to “standardized/packaged” CHP solutions.
- **Proudest of: Legacy:** Excellent working relationship with NYSDPS enables sharing of project-specific information (not “anecdotal”) which has led to improved standby tariffs, updated Standard Interconnection Requirements, prohibition of utilities’ use of “flex rates” to kill CHP projects, and resolution of utilities’ mischaracterization of cost for access to natural gas pipeline; precedent-setting outcomes with utility-acceptance of techniques for electric interconnection, and use of private wires.

Contact Information

Edward Kear

Senior Project Manager

NYSERDA Industrial Research

17 Columbia Circle, Albany, NY 12203

(518) 862-1090 x 3269

ebk@nyserda.org

www.nyserda.org/programs/dgchp.asp

<http://chp.nyserda.org> (CHP data)