



The Solutions Network

Rochester, New York

New York State Funding Support for DG/CHP

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Addressing Energy, Economic, and Environmental Concerns 1



**NYSERDA Budget
\$200 Million Per Year**



\$1,000,000

Pay To The Order Of: **Your Name Here**

One-Million Dollars

NYSERDA

Not negotiable



Objectives of DG/CHP Program



- Support CHP to bolster NYS economy
- Encourage clean and efficient systems
- Fuel “in” at one place, multiple benefits “out”
- Establish a broad portfolio
 - various technologies
 - various end-use sectors
- Document hurdles and lessons learned
- Identify “Role Model” systems
=> replicate: faster, better, cheaper



Fuel “in” at one place, multiple benefits “out”



COOLING:

Air Conditioner

HEATING:

Defroster

POWER (Electrical):

Alternator

Generates DC Power

POWER (Locomotion):

Mechanical (Rotary)

Shaft Power





DG/CHP Selection Criteria



Annual Competitive Review:

- Superior Environmental Performance
- Improved Grid Reliability
- Improved Energy Efficiency
- Increased Utilization of Renewable Fuels
- Reduced Energy Costs & Economic Expansion
- Effective Technology Transfer



CHP Funding Studies & Demos



<u>PON # (date close)</u>	<u># Proposals Received</u>	<u># Proposals Selected</u>	<u>NYSERDA Funds Earmarked</u>
PON 554 @ 10/26/2000	36	16	\$4 Million
PON 536 @ 5/31/2001	55	36	\$18 Million
PON 669 @ 3/12/2002	112	45	\$20 Million
PON 750 @ 4/16/2003	66	20	\$11 Million
PON 800 @ 4/20/2004	60	39	\$11 Million
Total to Date	329	156	\$64 Million

Leveraging almost \$200 Million of proposers' funds



Federal Sites Getting NYSERDA \$



- NPS Gateway Park at Floyd Bennet Field
200 kW via 3 microturbines & absorption chiller
\$425,000 from NYSERDA + \$500,000 from others
- Queens VA Hospital at St. Albans
800 kW via 1 internal combustion engine
\$500,000 from NYSERDA + \$1,380,000 from others
- Bronx VA Hospital
1,460 kW via 4 internal combustion engines
\$456,250 from NYSERDA + \$4,693,750 from others

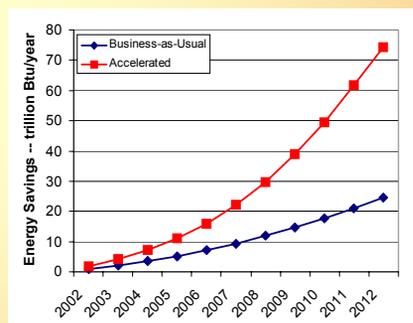


Market Opportunity for CHP in NYS



Forecasted new CHP over the next decade:

- “Technical Potential” scenario
8,500 MW at ~ 26,000 sites
(99% of these sites sized
at 5 MW or smaller)
- Base-case scenario
746 MW at ~ 2,000 sites
- Accelerated-case scenario
2,200 MW at ~ 6,000 sites



Study at www.nyserdera.org/dgchp.html



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President



New York State

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Citizen Guide

ENERGY RESEARCH AND DEVELOPMENT AUTHORITY

Hot Topics

- Governor Announces \$15 million for Clean Energy Projects

Programs

- Agricultural
- Commercial/Industrial
- Communities
- Demand Response
- Economic Development
- Energy & the Environment
- Hospitals/Institutions
- Municipal
- Renewables
- Residential
- Schools
- Small Business
- State Government
- Transportation
- Other

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Energy Research & Development Authority**
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