Clean Energy States Alliance State Leadership in Clean Energy Webinar Series

Accelerating Resilient Power in Connecticut and New York

Hosted by Todd Olinsky-Paul, Project Director, CESA Tuesday, December 16, 2014



About CESA

Clean Energy States Alliance (CESA) is a national nonprofit organization working to implement smart clean energy policies, programs, technology innovation, and financing tools, primarily at the state level. At its core, CESA is a national network of public agencies that are individually and collectively working to advance clean energy.



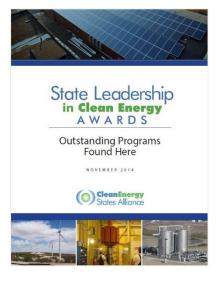
About the State Leadership in Clean Energy Awards

CESA's State Leadership in Clean Energy Awards recognize state and municipal programs and projects that demonstrate leadership, effectiveness and innovation in advancing renewable energy and other clean energy technologies.

An independent panel of distinguished judges selected eight recipients for the 2014 Awards. More information, including case studies and links to upcoming webinars featuring the winning programs, is available on our website:

www.cesa.org/projects/state-leadership-in-clean-energy/2014





Today's Guest Speakers

- **Dana Levy**, Program Manager for Technology Development and Onsite Power Applications, New York State Energy Research and Development Authority (NYSERDA)
- Veronica Szczerkowski, Microgrid Program Coordinator, Bureau of Energy and Technology Policy, Connecticut Department of Energy and Environmental Protection (CTDEEP)
- Tracy Babbidge, Bureau Chief, Bureau of Energy and Technology Policy, Connecticut Department of Energy and Environmental Protection (CTDEEP)





Connecticut Department of

ENVIRONMENTAL PROTECTION



CESA SLICE Award Webinar: NYSERDA's CHP Program Logic and Format



Dr. Dana Levy of NYSERDA: NYSERDA CHP thought-leader since 1999. Recipient of the USCHPA CHP Champion Award in 2007. Recipient of the NECHPI CHP Champion Award in 2014. Dana.Levy@nyserda.ny.gov www.nyserda.ny.gov/CHP

December 16, 2014





- 1. CHP is Good
- 2. Sequence of Program Evolution
- 3. The Current Program -- The "Catalog" Approach
- 4. Other Features of The Current Program



What is Combined Heat and Power (CHP)?

Combined Heat & Power (CHP or cogeneration) is the simultaneous generation of heat and electricity from a single fuel source

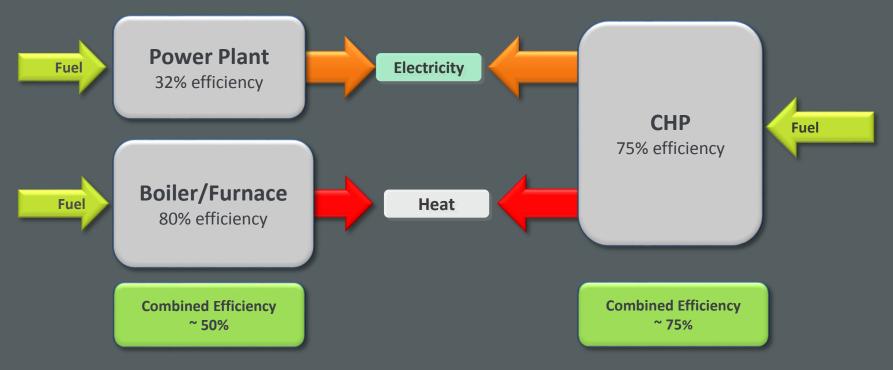






Why is CHP a Good Thing?

Comparison of "status quo" scenario versus "CHP" scenario



Fuel savings = Everyday Financial savings

Fuel savings = Everyday Emission reduction



What are Common Uses of CHP?

- Produce onsite <u>some</u> of your everyday electrical power, while
- Recycling the electric generator's byproduct heat for use in heating and/or cooling (Combined Cooling Heating & Power = CCHP), and
- Keep power on to <u>some</u> circuits during grid outages



Who Should Consider CHP?







1. CHP is Good

- 2. Sequence of Program Evolution
- The Current Program -- The "Catalog" Approach
 Other Features of The Current Program



Sequence of CHP Program Evolution

Explore Modularity

CHP Demonstration Program

Goal: Diversity -- Broad Portfolio for Learning via Trailblazing Examples

Ice Breaker



CHP Performance Program Goal: Resource Acquisition of Good Projects that don't otherwise contribute new Demo-type Learning

> **CHP Catalog Program** Goal: Market Transformation via Standardization & Maturity

Ferry



2000

2012



NYSERDA's Decade of CHP Experience

- Strategy: Portfolio of diverse examples
 - Size: 1.2 kW to 40 MW
 - Sectors: 56 at Apartment Buildings, 26 at Healthcare,
 26 at Farms, 17 at Schools, 6 at Office Buildings
 - Fuels: Natural Gas, Biogas, Wood
 - Machinery: Engines, Microturbines, Fuel Cells, ORC,
 Combustion Gas Turbines, Steam Turbines

• Impacts

- 181 projects to yield 200 MW
- Of these, 140 projects are operational = 170 MW installed
- Funding: NYSERDA ... \$125 Million
 - + Others \$675 Million
 - = Total \$800 Million

http://chp.nyserda.ny.gov







provide you with a power producing system geared towards peak performance. TEL:

800-969-6121

Observation of Purchasing Habits



Like "Modular" Housing



• Habit #1: Simplicity is most important

- Small-to-medium (50 kW 1.3 MW)
- Identify replicable designs/opportunities
- Promote standardization for streamlining
- Many mass-market "appliance-like" sales (how an individual person buys a car)

- Habit #2: Customization is most important
 - Medium-to-large (greater than 1.3 MW)
 - Promote custom design to maximize efficiency
 - Few custom-oriented sales
 (how the US Navy buys an aircraft carrier)







Program Administration Formats

Competitions

Standard Offers: \bullet

- List of pre-qualified measures and their associated specific rebates 1.
- 2. Pseudo-performance (financial award is computed based on analysis and forecast of site-specific performance)
- Performance payments based on measured & verified performance 3.

See Program Logic Model at: http://www.nyserda.ny.gov/-/media/Files/Publications/PPSER/ Program-Evaluation/2014ContractorReports/2014-PLM-CHP-Acceleration.pdf



creasing Complexity of Project

of



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CHP Acceleration "Catalog" Program

Program Mechanism:

 Create a catalog of "pre-qualified" systems

- Approved CHP Vendor Energy. Innovation. Solutions. System Size Range 50kW - 1.3MW
- reputable components
 System Size Ran that appear to be properly size-matched
- coordinated with Utilities for generic review
- Assign specific "rebate" to each system
- Invite customers to shop from catalog
 - Streamlined approach to system sizing
 - Customized approach to system sizing



CHP Acceleration "Catalog" Program

CHP System Sizing Guidelines

NYSERDA has developed a set of conservative CHP system sizing guidelines for common building types based on combinations of site characteristics and CHP system sizes that have been shown to perform well. Applications that fall within the sizing guidelines will receive a streamlined review by NYSERDA.

Building Type	Maximum Microturbine Size	Maximum Reciprocating Engine (RICE) Size	Other Restrictions
Multi-Family Housing	0.25kW/Apartment	0.35kW/Apartment	Building must be master metered
Assisted Living / Nursing Home	0.15kW/Bed	0.25kW/Bed	
Hospital	1.4kW/Bed	2.0kW/Bed	
Hotel	0.14kW/Room	0.20kW/Room	

"Safe Harbor" Sizing:

- > a hotel with 300 guest rooms should buy not-to-exceed 60 kW system
- a nursing home with 300 beds should buy not-to-exceed 75 kW system
- > an apartment building with 300 housing units should buy not-to-exceed 100 kW system
- a hospital with 300 beds should buy not-to-exceed 600 kW system



Right-size is Key to Success

Example: Two Seemingly Similar Hotels

300 Guest Rooms

- No Grand Ballroom
- No Health Club
- No Linens Laundry Rule-of Thumb sets cap at 60 kW, probably right size

300 Guest Rooms

- Yes Grand Ballroom
- Yes Health Club

• Yes Linens Laundry Rule-of Thumb sets cap at 60 kW, but probably could go bigger



CHP Acceleration "Catalog" Program

Catalog Items:

- Clean and Efficient CHP and CCHP
- Integrated Controls Package
- Built-in Data Monitoring Features
- Bumper-to-Bumper Warrantee / single-point
- 5-year Service Plan
- "Stand-alone" Operability is Mandatory for All

Attention CHP Vendors (system "packagers"): Instructions at RFI 2568 for how to get your products added to the Catalog



CHP Acceleration "Catalog" Program

CHP System Catalog

CHP Acceleration Program

(PON 2568 Attachment C) Upperated Sept 2012

CHP Acceleration Program Program Opportunity Notice (PON) 2568 \$20M Available

\$60 million Available



Applications accepted through 5:00 PM Eastern Time* on December 30, 2016

The CHP "Catalog" -- 50 kW to 1.3 MW





Example of a Catalog Cut Sheet

	tion. Solutions.		ENE				tion. Solutions.		ENER-G	
Ener-G Rudox I	inc	ER265F HW)		265 kW	Ener-G Rudox	Inc	ER265F HW		265 kW
mover mc RICE 1 NYSERDA Incer Downstate \$445,138 Performance at Ambient Multi- Multi- Multi- Gore Footprint Core system based on minimum area! Core system based on minimum area! Core system based on delivery *Includer maintenance c VERFA Rejection subsystem? *Includer maintenance c Vender Audorn for delivery Corn system based on minimum area? Core system based on minimum and the state of the delivery *Includer maintenance c Vender Audorn for base parts for delivery *Includer maintenance c Vender States part for delivery of spare parts for delivery of spare parts for delivery of spare parts for delivery and carbon footprinkte financ PURF-G is 100% dedicated finance is 100% dedicated finance finance f	Full Load r Net W 2.538 262 2.538 262 2.538 262 Width ft 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 1 1	Synchronous or Inverter Inverter Upstate \$375,038 Hot Water to Building @ 120*f 1403 1403 1.403 2.0 2.0 2.0 2.12.5 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 13.7 5.2 10.00 merged Development, Finano. 10.00 merged Subilons without to energy industry.comarkets and over tence within the energy industry.comarkets and over tence within tenergy industry.comarkets and over tence within tenenergy industry.comarkets and over tence within tenen	Type Instal CHP No CHP No	Blation Status Ilation Cond Qualit ing @ 180°F NO term "F NO 176 176 176 176 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 179 178 170 178 178 178 179 178 170 178 170 178 177 178 178 178 179 178 170 178 171 178 172 172 173 174 174 175 175 178 175 178 172 179 174 174	ditionally ified x bs/MWhr 0.3 0.2,000 0.240 0.240 Mwe Ener-G a full ce their costs ired. ally and				2. THE COMPANY SE	NICKES AL (24 POP) 44 24 NOVA 44 POP POP) 24 NOVA 44 POP POP) 24 NOVA 44 NOVA 14 NOVA 14 NOVA 14 26 NOV
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www.energ-rudox.com NYSERDA CHP Acceler Version 3 Revised Septe For the most recent versi http://www.nyserda.ny.go	ember 2014 ion go to	68 es/Current-Funding-Opportuniti	es/PON-2568-CHP-Ac	cceleration-Program.	1.aspx	Version 3 Revised Septe For the most recent vers	sion go to	rent-Funding-Opportunities/PON	-2568-CHP-Acceleration-Pro	gram.aspx



Examples of Incentives

System Size	Typical Customer (these are real examples)	Total Cost	NYSERDA Incentive	Out-of-pocket Expense
100 kW	Multifamily 100 units	\$370,000	\$198,000	\$172,000
200 100/	Multifamily 500 units	\$625,000	\$350,000	\$275,000
200 kW	Multifamily 450 units	\$850,000	\$350,000	\$500,000
300 kW	Multifamily 700 units	\$1,800,000	\$561,000	\$1,239,000
600 kW	Hotel 400 rooms	\$1,800,000	\$930,000	\$870,000
800 kW	7-story @ 200,000 sq.ft. mixed-use commercial	\$3,400,000	\$1,276,000	\$2,124,000
1,200 kW	48-story @ 1,800,000 sq.ft. mixed-use commercial	\$5,000,000	\$1,500,000	\$3,500,000

In this size range, NYSERDA incentives are, on average, about 40% of the overall cost of the project.

39 applicants to-date (19 of which have major equipment on-site already), zero attrition!





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Transformational Aspects of Program

Replacing arms-length transactions with long-term relationships.

Furnishing "Helper Agent" as coach to customer (e.g., help to establish a rationale for choosing between prospectuses).

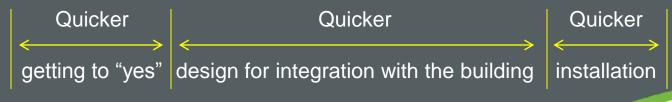
Annual technical conferences for vendors and consultants. Periodic Expos for potential customers to facilitate comparison-shopping.

NYSERDA funding is paid to the Vendor.

To receive an incentive, the system must be installed and commissioned showing it runs during a grid outage, and must be sited "high and dry" at buildings located in flood prone areas.

Promotes a preferred configuration for enhanced resiliency.

Compresses timelines:





NYSERDA CHP Expo

New York State Energy Research and Development Authority (NYSERDA)



Friday, October 17, 2014 DoubleTree by Hilton Hotel 455 South Broadway, Tarrytown, NY Expo Hours – 10:00 a.m. to 3:00 p.m.

Register today: chpExpoWestchester.eventbrite.com There is no cost to attend this event.

Westchester

NYSERDA's Combined Heat and Power Expo is designed to help commercial, industrial, and multifamily building owners and managers connect with pre-approved Combined Heat and Power (CHP) equipment vendors and other organizations offering financial incentives and technical support for the installation of CHP systems. NYSERDA's CHP programs offer incentives for systems 50 kW and larger.

Building owners, managers, and other representatives are invited to stop by and speak with CHP system vendors, NYSERDA staff, and U.S. Department of Energy's CHP Technical Assistance Partnership representatives about the various products and services available to capture significant energy savings and improve the resiliency of their buildings.

The Expo will feature:

- Information from vendors of pre-approved CHP systems featured in NYSERDA's CHP Catalog
- Information on the incentives available for CHP through NYSERDA's complementary pair of CHP programs:
- CHP Acceleration Program (PON 2568)
- CHP Performance Program (PON 2701)

Register today: chpExpoWestchester.eventbrite.com

Questions? chpAcceleration@nyserda.ny.gov

Please note: This event is intended to address medium-to-large buildings (those with a monthly electric bill of \$5,000 or more).

The World Alliance for Decentralized Energy (WADE) will hold their Annual Meeting and DistribuGen Conference at the same location on October 14-16. Visit www.localpower.org for more information and to register!



RD-EUAI-CHP-wostchestor101714-8-1-v1 9/14

Information on FREE technical assistance and project screening offered through the U.S. Department of Energy's Northeast CHP Technical Assistance Partnership

 Q&A time with representatives from Con Edison



November 22, 2013

The TimesCenter – 242 West 41st Street Expo Hours – 10:00 a.m. to 3:00 p.m. There is no cost to attend this event.

Manhattan

Wednesday, February 26, 2014

Sheraton LaGuardia East Hotel 135-20 39th Avenue, Flushing, NY Expo Hours – 10:00 a.m. to 3:00 p.m. There is no cost to attend this event.

Queens

Wednesday, May 14, 2014 Holiday Inn Albany 205 Wolf Road, Albany, NY Expo Hours – 10:00 a.m. to 3:00 p.m. There is no cost to attend this event.

Albany

Tuesday, May 20, 2014 Sheraton Brooklyn New York Hotel 228 Duffield Street, Brooklyn, NY Expo Hours – 10:00 a.m. to 3:00 p.m. There is no cost to attend this event.

Brooklyn

Wednesday, September 17, 2014 The TimesCenter 242 West 41st Street, Manhattan, NY Expo Hours – 2:00 p.m. to 7:00 p.m.

Register today: chpExpoManhattan.eventbrite.com There is no cost to attend this event.



Manhattan



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Enhanced Resiliency via N+1 Config

NYSERDA encourages meritorious "N+1" configurations

Example: A hospital suitable for a 600 kW system should consider 3 generators at 300 kW each = 900 kW

Operating schedule on regular days: Week #1 use generators A + B = 600 kW Week #2 use generators A + C = 600 kW Week #3 use generators B + C = 600 kW

Size kW	Downstate Incentive
600	\$930,000
900	\$1,260,000
delta	\$330,000

Operating schedule on "Demand Response" days and during grid outages: use generators A + B + C = 900 kW



CHP Acceleration "Catalog" Program

System "re-commissioning analysis" in sophomore year Win-Win-Win-Win-Win-Win Outcomes:

- Customer: confidence, "vetted" system
- Developer/Financier: transparency of program
- Equipment Vendor: marketing edge
- Consulting Engineer: role of "personal shopper"
- Authority-having-Jurisdiction: familiarity & comfort
- NYSERDA: acceleration of uptake





Connecticut Microgrid Program CESA Webinar – December 16, 2014





Program Accomplishments

We've proven that this program format:

- Gets good projects.
- Accelerates timelines.
- Drives-down "soft costs" such as customer acquisition.

Transformed the way "deals" occur in marketplace:

- Expanded the tendency toward "healthy" comparison shopping.
- Market embraces a new objective of "partnerships" instead of "sales".



State Leadership

in Clean Energy



Thank You!



www.nyserda.ny.gov NYSERDA 17 Columbia Circle Albany, NY 12203 Dr. Dana L. Levy, D.Eng., P.E. Dana.Levy@nyserda.ny.gov (518) 862-1090 x 3377

NYSERDA, a public benefit corporation, offers objective information and analysis, innovative programs, technical expertise, and funding to help New Yorkers increase energy efficiency, save money, use renewable energy, and reduce their reliance on fossil fuels. NYSERDA professionals work to protect our environment and create clean-energy jobs. NYSERDA has been developing partnerships to advance innovative energy solutions in New York since 1975.

- The entire marketplace will benefit if other states adopted a similar "Catalog" approach (enables Vendors to claim multi-state approval).
- NYSERDA is eager to work with other states to evolve this into a common/regionalized "Catalog" to be maintained by a neutral party (for example: Unified List of Small Wind Turbines maintained by ITAC http://www.cesa.org/projects/ITAC/itac-unified-list-of-wind-turbines/).





Connecticut Microgrid Program CESA Webinar – December 16, 2014





Connecticut Microgrid Program

Presenters:

Tracy Babbidge

- Bureau Chief
- Bureau of Energy and Technology Policy

Veronica Szczerkowski

- Microgrid Program Coordinator
- Bureau of Energy and Technology Policy



Connecticut Department of Energy and Environmental Protection

Connecticut Microgrid Program

<u>Overview</u>

- Where We Are Coming From
- Vision for Microgrids in Connecticut
- Program Purpose
- Energy Policy
- Round 1 Award Winners
- Round 2
- Round 2 Award Winners
- Round 2 Survey
- Future Rounds
- Municipal Assistance
- Additional Program Information



Connecticut Department of Energy and Environmental Protection

Connecticut Microgrid Program Where are We Coming From

- Connecticut has been hard hit with severe weather in recent years
 - 2010 snowstorms
 - Tropical Storm Irene
 - Freak October snowstorm
 - Superstorm Sandy
 - Blizzard of 2013



• Storms have left hundreds of thousands without power for long periods of time, in some cases in excess of 10 days



Connecticut Microgrid Program Vision for Microgrids in Connecticut

- Microgrids will provide critical services to residents
 - Generating electricity with cleaner, 24/7 operational power sources
 - Natural gas turbines with combined heat and power, fuel cells, solar panels, etc.
 - Engineered to "island" from the grid when the larger grid is de-energized
 - Built in a cost-effective manner
 - Contribute to public good by islanding critical facilities
 - Connects more than one critical facility to reliable distributed generation resources





Connecticut Microgrid Program Program Purpose

The purpose of the program is to solicit proposals to build microgrids in order to support critical facilities during times of electricity grid outages.



Connecticut Microgrid Program Energy Policy

- Connecticut's first-in-the-nation statewide microgrid program is critical piece of larger resiliency strategy
- Power outages are inevitable, but program provides enhanced safety and quality of life for residents in an outage situation
- Program fits in with Governor's larger vision for cheaper, cleaner, and more reliable energy future for Connecticut
- In line with "portfolio approach" that encourages deployment of distributed generation



Connecticut Microgrid Program Results

Round 1 Award Winners

Droiget	Critical Facilities	Concretion	Grant \$
Project		Generation	awarded
UConn Depot			
Campus	Campus Buildings	400 kW fuel cell, 6.6 kW PV	\$2,144,234
City of			
Bridgeport	City hall, Police Station, Senior Center	(3) 600 kW natural gas microturbines	\$2,975,000
		(1) 2.4 MW and (1) 676 kW Natural Gas	
		Combined Heat and Power Reciprocating	
Wesleyan	Campus, Athletic Center (Public Shelter)	Engine	\$693,819
University of		(2) 1.9 MW diesel (existing), 250 kW diesel,	
Hartford	Dorms, Campus Center, Operation Building	150 kW diesel	\$2,270,333
SUBASE	Various Buildings and Piers	5 MW cogen turbine, 1.5 MW diesel	\$3,000,000
Town of		(2) 130 kW natural gas, 250 kW solar, 200	
Windham	2 Schools (Various Public Purposes)	kWh battery; (2) kW diesel,	\$709,350
Town of	Police Stations, Fire Station, Department of		
Woodbridge	Public Works, Town Hall, High School, Library	1.6 MW natural gas, 400 kW fuel cell	\$3,000,000
City of	School, Senior Center, Library, Supermarket,		
Hartford	Gas station	600 kW natural gas	\$2,063,000
Town of	Police Station, Emergency Operations Center,	50 kw natural gas recip engine, 250 kW	
Fairfield	Cell Tower, Fire Headquarters, Shelter	natural gas recip engine, 27 kW PV, 20 kW PV	\$1,167,659



Connecticut Microgrid Program Round 2

- \$15 million in funding
- Revised program procedures and criteria
- Financing program in conjunction with the Connecticut Green Bank
- Emphasized participant education
 - Four part microgrid educational webinar series:
 - Financing for clean generation and entire microgrids
 - Technical aspects of microgrids
 - Other microgrid assistance (legal, process, etc.)
 - Clean generation, renewable generation, storage



Connecticut Microgrid Program Round 2 Stage One Threshold Review Criteria

Complete proposal Documentation Serve two or more physically separated critical facilities Generation requirements Withstand Category 1 hurricane □ 2-4 week fuel supply Not located in a flood plane



Connecticut Microgrid Program Round 2 Stage Two Threshold Review Criteria

Review Criteria	Percentage	
Technical	25%	
Financial, Managerial and Operational Capability	45%	
Social Benefits	20%	
Environmental	10%	
Total	100%	



Connecticut Microgrid Program Round 2 Award Winners

Project	Critical Facilities	Generation	Grant	\$ Awarded
	Parsons Complex, middle school, senior center, senior apartments, city hall	(2) 148kW natural gas CHP units, 120KW PV, 100kW battery storage	\$	2,909,341
University of	campus buildings - dining hall, recreation center, student center, 2 residential buildings as shelter, police station	1.4 MW fuel cell	Ś	2,180,899
TOTAL GRANTS AWARDED			\$	5,090,240



Connecticut Microgrid Program Round 2 Survey

Survey Respondents - By Type				
State Government	1			
Municipal Government	10			
Private Company	13			
Other/Unknown	27			
Total	51			

* Survey conducted from November 4 – 20, 2014



Connecticut Microgrid Program Future Rounds – What is DEEP Thinking?

- Survey
 - Analyze responses
 - Integrate suggestions into future program design
- Rolling applications
- Work with DAS to develop an approved vendor list
- Possible redesign to individual grant amounts



Connecticut Microgrid Program Future Rounds cont.

- Continue funding under the \$30 million authorized in 2013 legislative session
- Next round of microgrids program will be launched in early 2015
 - Refined procedure
 - Rolling applications
 - More technical support for municipalities



Connecticut Microgrid Program Municipal Assistance

Meeting With Municipalities

- Municipal Officials
- Municipal Staff
- DEEP
- EDC
- CT Green Bank

Meeting Topics

- General Program Questions
- Town Energy Needs
- Identify Critical Facilities
- Project Financing



Connecticut Microgrid Program

- Email <u>DEEP.EnergyBureau@ct.gov</u>
- Link to Microgrid Program Pilot Round and Round 2 information:
 - <u>http://www.dpuc.state.ct.us/DEEPEnergy.nsf/\$EnergyView</u>
 <u>?OpenForm&Start=1&Count=30&Expand=7&Seq=2</u>
 - Request for Proposals
 - Frequently Asked Questions
 - Proposals
 - Presentations



Thank you for attending our webinar

Warren Leon Executive Director, CESA wleon@cleanegroup.org

Find CESA online:

<u>www.cesa.org</u> <u>facebook.com/cleanenergystates</u> @CESA news on Twitter

For more information about the 2014 State Leadership in Clean Energy Awards, including case studies and links to upcoming webinars highlighting the winning programs, visit our website: <u>www.cesa.org/projects/state-leadership-in-clean-energy/2014</u>

