

EE-INC

Energy Efficiency Innovation Collaborative

Request for Information Webinar

New York Power Authority

March 17th, 2014



- **BUILDSMART NY:** Governor Cuomo's Executive Order 88 launches an initiative to improve energy efficiency in state buildings, thereby reducing costs and environmental emissions
- **20% reduction by 2020** in energy use by state agencies
 - SUNY, DOCCS, CUNY, MTA, OGS, OMH + 20 more
 - 16,000+ facilities larger than 20,000 square feet
 - 212,000,000 square feet
- Create good, in-state **jobs**

THE EE-INC ADVANTAGE: PATH TO MARKET



- New program to accelerate adoption of promising energy-saving innovations
- Focuses on needs of Build Smart NY clients; administered by NYPA
- Leverages NYPA's plans to finance more than \$800 million in energy-saving measures in public facilities over the next several years
- Vets emerging technologies, targeting needs of NYPA's clients
- Improves energy savings from projects & economic development for New York
- Creates better knowledge and higher awareness of energy conservation potential from emerging technologies
- Advances New York State leadership in energy efficiency

- **New York Power Authority**

Provides overall program executive management

- **SyracuseCoE**

New York State's Center of Excellence for energy and environmental innovations leads a statewide team of experts from SUNY, CUNY, Syracuse University, RPI, Brookhaven National Lab, and highly experienced firms, including Taitem Engineering and CDH Energy

- **Institute for Building Technology and Safety**

IBTS is a non-profit organization working with all levels of government to improve the quality of service delivery that leads a team including the National Renewable Energy Laboratory (NREL) and other experts from across the county

- **NYSERDA**

NYSERDA's long-standing programs to support technology and market development are vital source of innovations and insight

- **Electric Power Research Institute (EPRI)**

Brings deep national knowledge base to technology selection

Emerging Commercial Technologies

EE-INC focuses on emerging commercial technologies defined as those that:

- Are commercially available with commercial terms, such as warranties, certifications and service infrastructure
- Have proven performance results in New York or elsewhere and have been vetted by EE-INC collaborative members as “ready for prime time”
- Offer economic benefits to NY

EE-INC activities generate valuable benefits to manufacturers in three major areas :

- 1. Tech Match:** Use RFIs to identify tested, highly promising emerging technologies that match the needs of the Build Smart NY project pipeline – *help to build the “Smart” in Build Smart NY.*
- 2. Showcase:** Install and monitor the technologies in public buildings - *to affirm their performance and showcase results.*
- 3. Market Acceleration:** Train trade allies and share successful results with commercial sector energy efficiency markets and finance communities - *move successful emerging technologies into the mainstream and grow their market share.*

Binghamton University (SUNY) Looks to the Sun for its Energy



Estimated Cost: \$400,000

Estimated Energy Savings: 1.76 million source kBtu per year

Estimated Cost Savings: \$10,000 per year

- 5-kW “thin film” solar array embedded in building façade
- 127-kW flat panel solar rooftop array
- Supplies up to 20 percent of total building demand, offsetting need for grid power
- Total annual electricity production November 2012 = 155 MWh; equivalent to 110,000 kilograms of avoided CO2 emission

MTA Invests Heavily in Historic Grand Central Terminal



Estimated Cost: \$26.3 million

Estimated Energy Savings: 24+ million source kBtu per year

Estimated Cost Savings: \$2.6 million per year

- Reduce Metro-North Railroad’s annual carbon emissions by 10,000 tons.
- Phase 1 completed : Lighting upgrades, motor replacement, compressed air system upgrades, sub meter electric, steam, chilled water
- Phase 2 underway : chiller, pump replacements, variable frequency drive installations, retro commission air handling units, repair steam distribution system

OMH Overhauls Creedmoor Psychiatric Center for Huge Energy Savings



Estimated Cost: \$1.8 million

Estimated Energy Savings: 50+ million source kBtu per year

Estimated Cost Savings: \$80,000+ per year

Comprehensive upgrade implemented at Creedmoor Psychiatric Center (Queens):

- Upgraded lighting systems, heating plant, and cooling plant
- New boiler and chiller plant allowed decommissioning of old equipment
- Produced immediate energy savings:
 - Increased boiler efficiency
 - Eliminated distribution losses

Please join us!

The first RFI submittal deadline is March 25, 2014.

- **Online submittal: eeinc-ny.com**
- **Factors in Selection:**
 - Commercial – available in NY, meet safety, code, warranty, and service requirements
 - Technical performance evaluations already completed
 - Appropriate to the Build Smart NY market
 - Non-energy benefits
 - New York economic impact
- Submittals received after March 25th, 2014 will be considered during the next RFI round, estimated to be held during summer, 2014.

- At this time, the **RFI submittal must be completed in a single session.**
- **All fields are required** – enter N/A if information is not available.
- **Company Category:**

CONTACT INFORMATION

Which of the following categories best describes your company?

- Equipment Manufacturer
- Software Developer
- Architecture/Engineering Company
- Integrator/Contractor
- Consultant
- Other (please describe)

■ Contact Info:

| | |
|-----------------|--------------|
| First Name | Last Name |
| Email | Phone Number |
| Company Name | |
| Address | |
| Address 2 | |
| City | State |
| Zip Code | Country |
| Company Website | |

- **Already submitted to this RFI?:**

Have you submitted information about this technology on this RFI previously?

Yes No

If yes, please provide a summary of the changes reflected in the new submittal.

EMERGING TECHNOLOGY INFORMATION

- **Technology Categories**
 - Lighting and lighting controls
 - On-site power generation
 - Water/process heating
 - Energy management and metering
 - Building envelope
 - Data center technologies
 - HVAC
 - Motors and drives
 - Modeling and analytical tools
 - Other

■ Name and Description

Provide a short, descriptive, and informative name for your product. [25 word limit]

■ Energy-saving Features

Describe product and innovative energy-saving features. [200 words or less]

■ Baseline Conventional Technology

Describe the baseline conventional technology that the submitted technology improves, competes with, or is targeted to replace. [200 words or less]

■ Comparison of Performance

Compare the most important performance characteristics of the technology to the baseline conventional technology. [300 words or less]

■ Energy Benefits

Indicate the potential benefits of your product relative to the baseline conventional technology:

- | | |
|---|--|
| <input type="checkbox"/> Energy Savings | <input type="checkbox"/> Demand Savings |
| <input type="checkbox"/> Maintenance Cost Savings | <input type="checkbox"/> Load Management |
| <input type="checkbox"/> Water Savings | <input type="checkbox"/> Other |

■ Applicable Buildings

Indicate the types of buildings in which the technology is targeted for use. (Check all that apply.)

- | | |
|---|---|
| <input type="checkbox"/> Government Office Buildings | <input type="checkbox"/> Schools (K-12) |
| <input type="checkbox"/> Colleges and Universities | <input type="checkbox"/> Health-care facilities |
| <input type="checkbox"/> Wastewater/Water Treatment Facilities | <input type="checkbox"/> Industrial Facilities |
| <input type="checkbox"/> Correctional Facilities | <input type="checkbox"/> Airports |
| <input type="checkbox"/> Residential facilities (dormitories or multi-family homes) | <input type="checkbox"/> Other |

- **Non-Energy Benefits**

OTHER NON-ENERGY BENEFITS

- **Resiliency**

Resiliency: If applicable, describe how the product may enhance the reliability of energy supply to a building. [100 words or less]

- **Environment**

Environment: Describe any environmental benefits other than energy efficiency, such as reduced emissions at point of use, water use reduction, fuel switching, etc. [100 words or less]

- **Other**

Other: Describe other non-energy benefits associated with the product's use beyond those listed above, such as reduced maintenance costs, improved building comfort, etc. [100 words or less]

■ Commercial Status

COMMERCIAL STATUS

■ Years in business

How many years has the technology manufacturer/supplier been in business?

- 0 - 5 5 - 10 10 - 20 20+

■ Manufacturing location

Describe where your product is manufactured. [100 words]

■ New York availability

Is the technology commercially available in New York?

- Yes No

If yes, for how many years?

- 0 - 3 4 - 7 7+

- **Distribution channels**

Does this product have established distribution channels?

Yes No

If yes, describe.

- **Number of buildings installed; number of those in New York**

In approximately how many buildings has the technology been installed?

0-5 6-15 16-30 31-100 Over 100

How many of those installations are in New York?

Please provide locations of the New York installations if applicable.

- **Warranty**

Do you offer a commercial warranty for this product?

Yes No

- **Rebates or tax incentives**

Does the product qualify for any state, federal, or utility rebates or tax incentives? Please describe.

- **Financing or leasing options**

Do you provide financing or leasing options for the product? Please describe.

- **Technical Information**

TECHNICAL INFORMATION

- **Codes and standards**

Does the product fully comply with applicable local, state and federal regulations, codes and standards, and industry standards?

Yes No

If no, please explain.

- **Safety certification**

Does the product have relevant third-party safety certification? (e.g. UL, FM, etc.)?

Yes No Not relevant

- **Independent lab validated performance data**

Does the technology have independent laboratory-validated performance data using industry standard testing protocols?

Yes No

If yes, please upload below.

- **Independent M&V in commercial installations**

Has the product been tested, measured, and verified by an independent third-party in commercial market installations?

Yes No

If yes, please upload below.

If you have other technical verification documentation that you would like to share with us please use the upload button below.

- **New York Economic Impact**

NEW YORK ECONOMIC IMPACT

- **New York operations**

Describe the extent of any operations, either manufacturing or other, that you currently have in New York.

- **Anticipated economic benefits – direct and indirect**

Describe the anticipated economic benefits that increased adoption of your product will provide to New York State (may include manufacturing jobs or other indirect jobs, energy savings benefits, etc.).

- **Participation in New York economic development programs**

Please describe any economic development programs in New York that you are currently actively participating in that you would like to tell us about.

- **Start-Up NY**

Start-Up NY is creating tax-free zones across New York for new and expanding businesses. Please find additional information about this program [here](#).

Are you enrolled or do you plan to enroll in [Start-Up NY](#)?

Yes No

- **NYSERDA ETAC**

You might also consider applying to NYSERDA's Emerging Technology and Accelerated Commercialization program. ETAC is not a competing program and participation in both ETAC and this EE-INC RFI is recommended where applicable. Please find additional information about ETAC [here](#).

- **Attach supporting information**

ADDITIONAL INFORMATION

Please use the button below to upload any supporting information such as lab/third-party testing reports, cut sheets, case studies, or published findings reports, etc.). [Limit 4 MB file size]

Upload File

- **Comment**

If you have any additional comments, please enter them below:

- **Submit!**

Submit

- **Additional information**, including attachments, also may be submitted by sending to:

- EE-INC@nypa.gov

Q. What should I expect once I complete the RFI?

A. You will be entering your company's product into a database that will be used by the collaborative to identify market-ready energy efficiency technologies. If your product is a match with the needs of the Build Smart NY marketplace, and is determined to be technically and economically viable, EE-INC may use it in a demonstration project to showcase the technology. In addition, you will be invited to bid on relevant Build Smart NY projects.

Q. Does my business have to be located in New York to get involved in the program?

A. No.

Q. Does this program provide grant funding?

A. No, EE-INC is not a grant program. By submitting the RFI, the collaborative will have the information necessary to determine if your technology is eligible to be incorporated in upcoming Build Smart NY energy efficiency projects.

Keep the Conversation Going...#NYEEINC

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