

ENERGY

FDD Workshop

Moving and Expanding the New York State Marketplace
with NYSERDA

NYSERDA's Commitment to Energy Efficiency Leadership

NYSERDA **(New York State Energy Research and Development Authority)**

- Not-for-profit public benefits corporation
- Systems Benefit Charge (SBC) collected from utility bills
 - SBC-paying electric utility customers can take advantage of NYSERDA programs
 - NYSEG, NGRID, RG&E, CHG&E, O&R, and Con Ed

NY Public Service Commission – “Reforming the Energy Vision”

Reforming the Energy Vision (REV) initiative to reform New York State’s energy industry and regulatory practices.

- promote more efficient use of energy
- promote greater use of advanced energy management products
- empower more choice in manage and consume electric energy



NYSERDA relationship with industry stakeholders

- CEE HVAC committee
- WHPA
- DOE Advanced RTU Campaign

NYSERDA Paths for Support of FDD

NYSERDA paths for introducing and sustaining FDD



- 1. Marketplace education and end-user development**
- 2. Demonstrations and verification projects**
- 3. Technical analyses**
- 4. Performance-based and prescriptive incentives**

1. Marketplace education and end user development

HVAC Business Partners

- Contractor awareness building
- Contractor participation in project installation
- Outreach education for end users



2. Demonstrations and verification projects

Advanced Buildings Program

- For pre-commercial technologies seeking research, product development, and pilot demonstration funds
- Technologies, strategies, and practices that advance the energy performance of residential, multifamily, and commercial buildings
- \$25M offering along six rounds, every six months



2. Demonstrations and verification projects (cont.)

ETAC

Emerging Technologies Advanced Commercialization

- Encourages industry leaders to work with building owners for field demonstrations
- Focused Demonstrations:
 - 60% of eligible installation costs w/250K cap
 - NYSERDA provides performance validation services
- Energy Performance Validation: NYSERDA provides technical validation for multiple demo sites

3. Technical Assessments Through FlexTech

General Energy Feasibility Studies:

- Equipment replacement
- Upgrade recommendations
- Comprehensive energy analysis in campus-type settings
- Engineering support and other analysis

Support:

- 50/50 cost share
- Choose a qualified engineering firm or
- propose your own, if qualified



4. Performance-based and prescriptive incentives – general path

■ Performance based

- verified savings supported by engineering calculations
- Minimum incentives of \$30,000, up to \$2M
- Application submitted either before or within 90 days of contracting for the project

■ Prescriptive

Could develop based on number of conditions:

- Clearly applicable to a wide number of sectors
- Deemed savings established and verified by known third party



Performance Based: specific paths

Demand Response

- load shed controls, automation equipment, new generation equipment
- \$100/kW upstate and \$200/kW downstate
- Bonus incentives for managing room air conditioners

Monitoring-based Commissioning

Info-gathering systems to monitor and adjust building operations; energy use communications and facilitation systems; \$.05/kWh



Your turn

What do YOU
think we should
do in New York?



NYSERDA HVAC Business Partners:

www.nyserda.ny.gov/hvacpartners

Edward Smyth

Edward.smyth@dnvgl.com

518-266-9360 ext. 301

www.dnvgl.com

SAFER, SMARTER, GREENER