

Energy Efficiency

Moving into the Future with ESCOs

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#NYESCOSummit



**New York Power
Authority**

Generating more than electricity

What is the New York Power Authority?

History and structure

- Established in 1931
- No taxpayer funds utilized
- 1,600 employees across New York State

Infrastructure assets

- 1,400 circuit-miles of transmission lines
- 17 generating facilities: hydro and natural gas

Strategic Vision

- New power industry providing new services
- Customer Empowerment, Infrastructure Modernization, Resource Alignment

Impacts

- Help sustain more than 380,000 jobs: ReCharge NY
- Invest over \$250 million/year in efficiency projects
- Further clean energy and new electric system technology development



Future of Energy Efficiency in NY

- **Growth in New York State from**
 - Policy and Legislation
 - Increased Customer Empowerment

- **Partnership Opportunities with NYPA**
 - BuildSmart NY
 - NY Energy Manager
 - New Project Delivery Methods including Energy Services Performance Contracting (ESPC)

Executive Order 88

Governor Andrew M. Cuomo
Performance • Integrity • Pride

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DIRECTING STATE AGENCIES AND AUTHORITIES TO IMPROVE THE ENERGY EFFICIENCY OF STATE BUILDINGS

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WHEREAS, New York is dedicated to the mutually compatible goals of environmental protection, energy security, and economic growth; and

WHEREAS, increasing energy efficiency has been identified as among the most cost-effective methods for reducing greenhouse gas and other environmental pollutant emissions and increasing energy security; and

WHEREAS, increasing energy efficiency can lead to increased jobs and a reduction in building operating expenses; and

WHEREAS, New York is committed to implementing new policies to promote the efficient use of energy and natural resources in the interest of the long-term protection and enhancement of the State's environment, economy and public health;

Goal: Accelerate implementation of energy efficiency improvements in state government buildings; reducing costs, curtailing greenhouse gases, and enhancing energy security

20% Reduction of EUI by all State Entities by 2020

BuildSmart NY Target and Metrics

The Target

20% Reduction of EUI by all State Entities by April 2020

Baseline Year

State Fiscal Year 2010 – 2011

The Metric

Source Energy Use Intensity

$$\text{Source EUI} = \frac{\text{Source Energy Use}}{\text{Facility Square Feet}}$$

Basic Building Blocks

NYPA delegated to manage and implement

Reporting,
Benchmarking

Capital
Retrofit
Projects

Submetering

Building
Commissioning
(Retro-
Commissioning)

Operations &
Maintenance

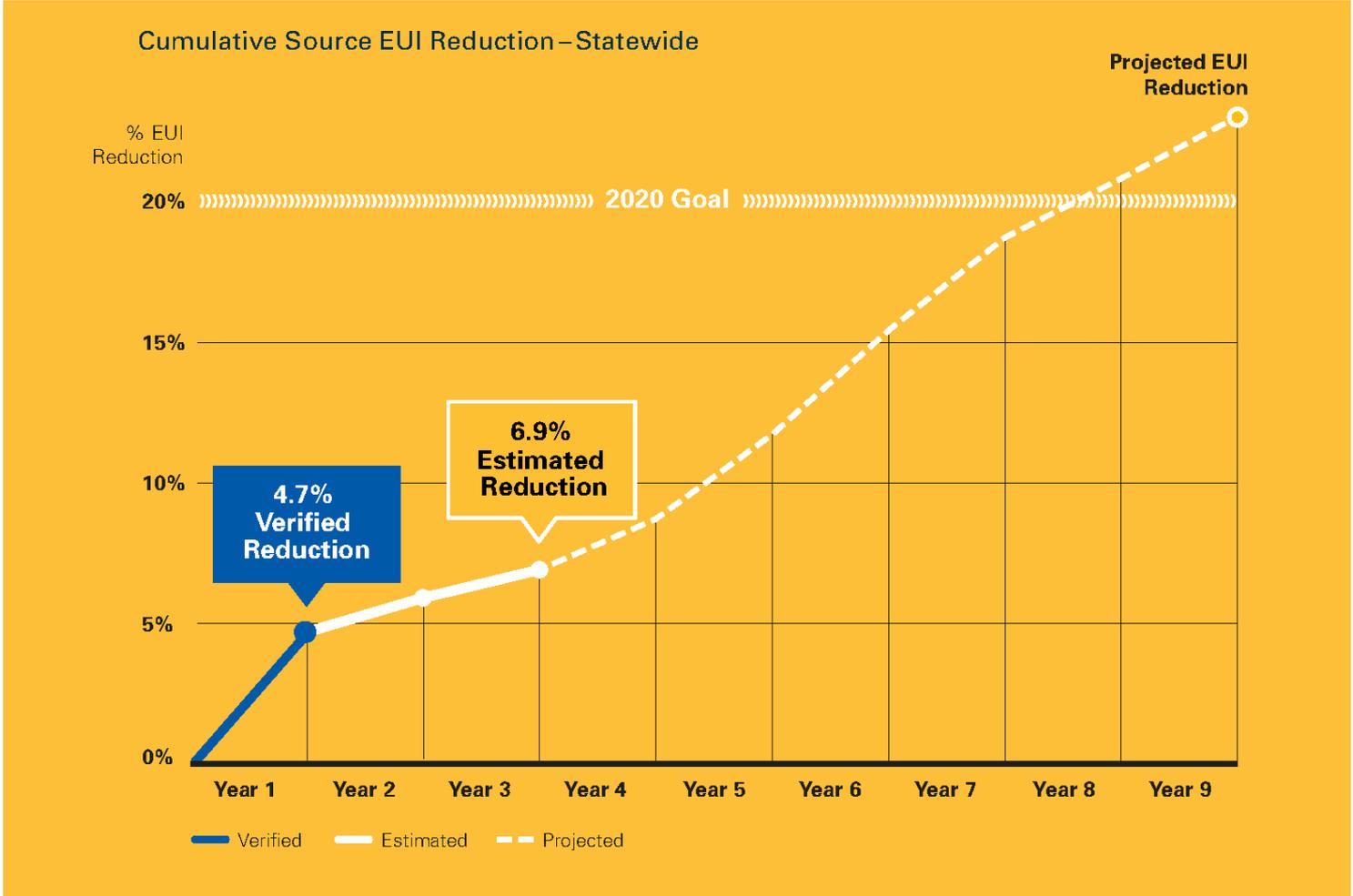
Combined Heat
& Power,
Renewable
Energy, etc.

NY Energy Manager



- Use of “big data” & social networking to increase transparency, accelerate projects, and drive innovation in buildings
- One stop shop for building data, progress reports, case studies, energy technologies, and financing options
- Encourage local governments, private sector companies, and non-profit institutions to follow the State’s lead by sharing information

Progress towards 20% Reduction



NYPA's Partnership with ESCOs

Customer's Choices

- Customers to have options for project delivery based on project scope and budget.
- Create vibrant market where ESCOs do all the work and NYPA oversees and finances projects.

ESCO's Opportunities

- Design Bid Build
- Design Build
- Energy Services Performance Contracting

PLAN

IMPLEMENT

MONITOR

EVALUATE

Let's Get Started...together

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— PARTNERS —

