



BuildSmartNY

Executive Order 88

NY State's Aggressive Strategy to Improve Energy Performance in Government Buildings



New York Energy Week Briefing
June 25, 2013

Topics of Discussion

1. Build Smart NY and its aims
2. Executive Order 88 and its key components
3. NY State government buildings and their energy profile
4. Our immediate work plan and approach

Governor Cuomo's Goals & Objectives

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

Objectives:

- **FOSTER COST-EFFECTIVE INVESTMENT...** in state government buildings; their equipment, operations and infrastructure
- **INSTITUTIONALIZE ACCOUNTABILITY...** with a transparent performance management system that drives energy savings results and transforms building operations culture
- **DEMONSTRATE SUCCESS...** and model energy efficiency solutions for all public and private buildings
- **GENERATE ECONOMIC GROWTH...** and green jobs across New York State

Executive Order 88 Basics

The Target:

20% efficiency increase in NYS buildings by April 2020

Baseline Year:

State Fiscal Year 2010 – 2011

The Metric:

Source Energy Use Intensity

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

Source Energy:

An energy measure aggregating for fuels consumed in the generation, transmission, and distribution of electricity as well as the energy losses from storing, distributing, and dispensing natural gas. Incorporating all transmission, delivery, and production losses, thereby providing more a holistic assessment of building energy performance. Generally, reported in British Thermal Units (BTU).

Energy Use Intensity (EUI):

A index representing a building's energy use as a function of its gross area. EUI is reported as a ratio of 1,000 BTU (kBtu) per gross square foot of facility space

Executive Order 88 Mandates

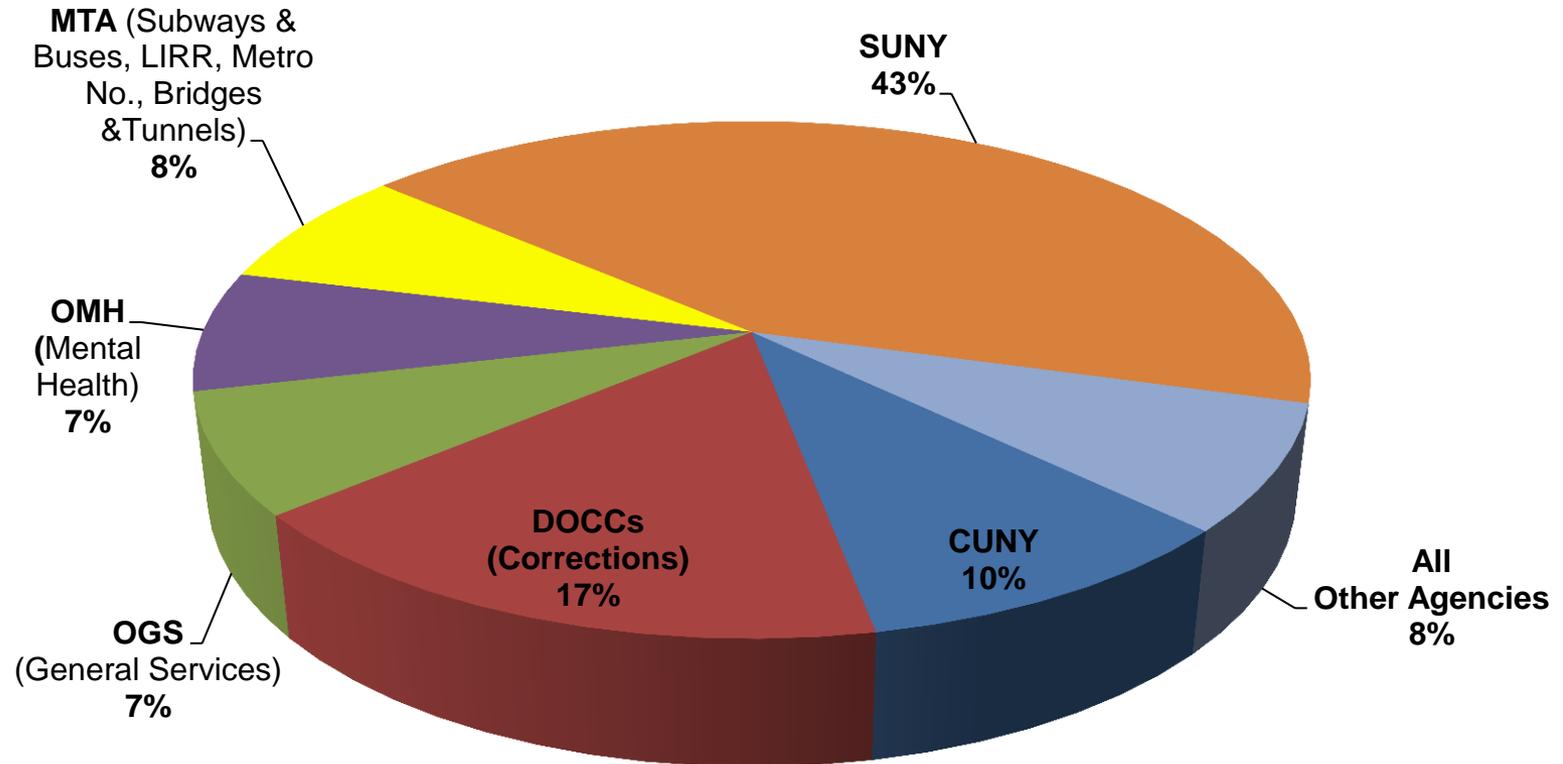
- **NYPA** manages agency compliance
- **Guidelines** defining requirements
- **Benchmarking** of buildings > 20,000 SF
- **Energy audits** of underachieving buildings
- **Submeter** master-metered campuses
- **Annual reporting**
- **Cost effective implementation**
 - Retrofits (in conjunction with State Capital Program)
 - On-site generation (cogeneration, renewables)
 - Operation and maintenance (e.g. retro-commissioning) with an EE focus



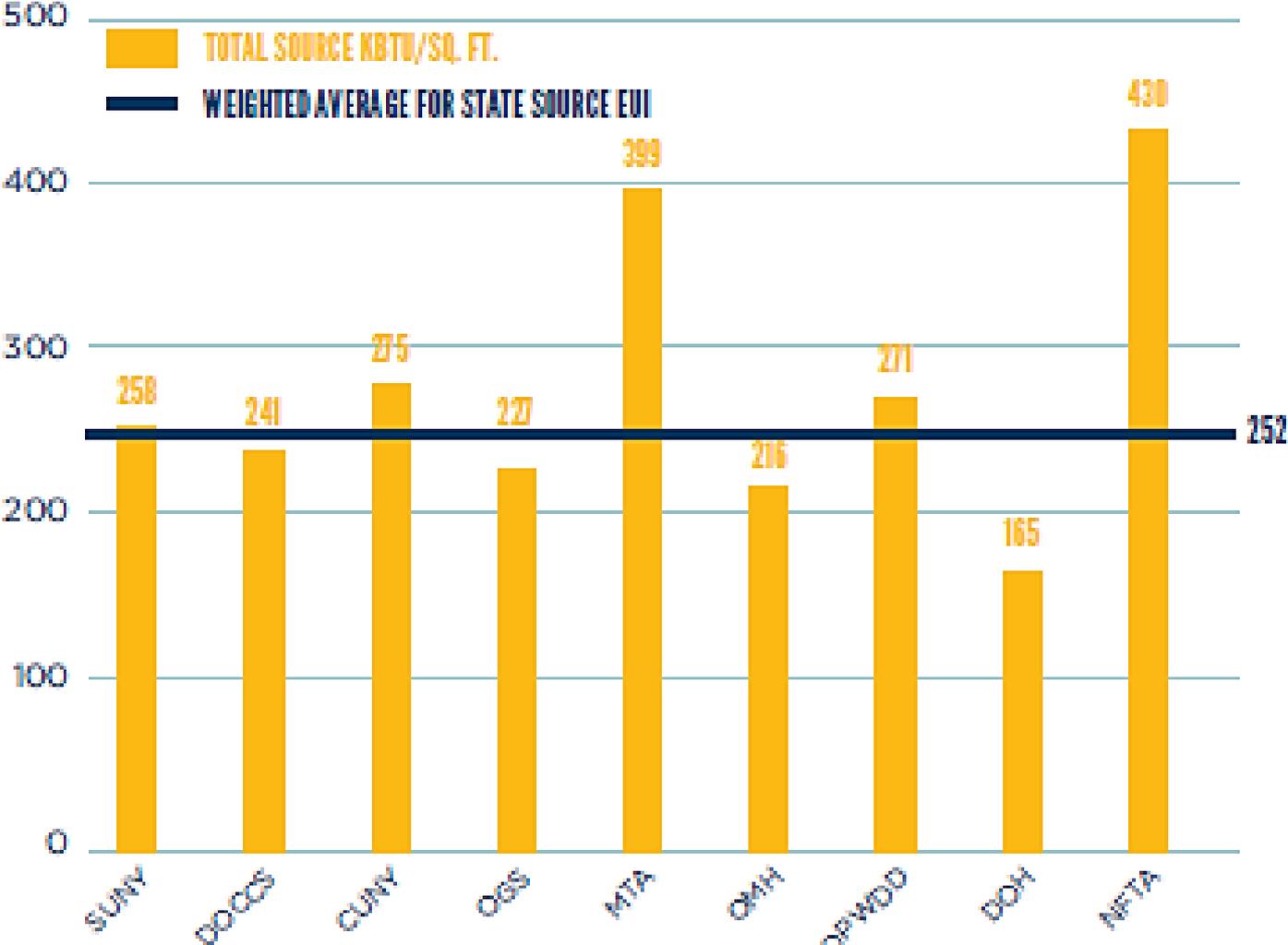
Energy Consuming Assets by State Agency

Agency/Authority	Gross Square Feet	% of Total
State University of NY	86,000,000	41%
Dept of Corrections & Community Supervision	38,000,000	18%
City University of NY*	20,000,000	9%
Office of Mental Health	19,000,000	9%
Office of General Services	19,000,000	9%
Metropolitan Transportation Authority	10,000,000	5%
All Other State Agency Facilities	20,000,000	9%
TOTAL	211,100,000	100.0%

Source Energy Use By State Agency



Source Energy Use Intensity: Select Agencies



Immediate Work Plan

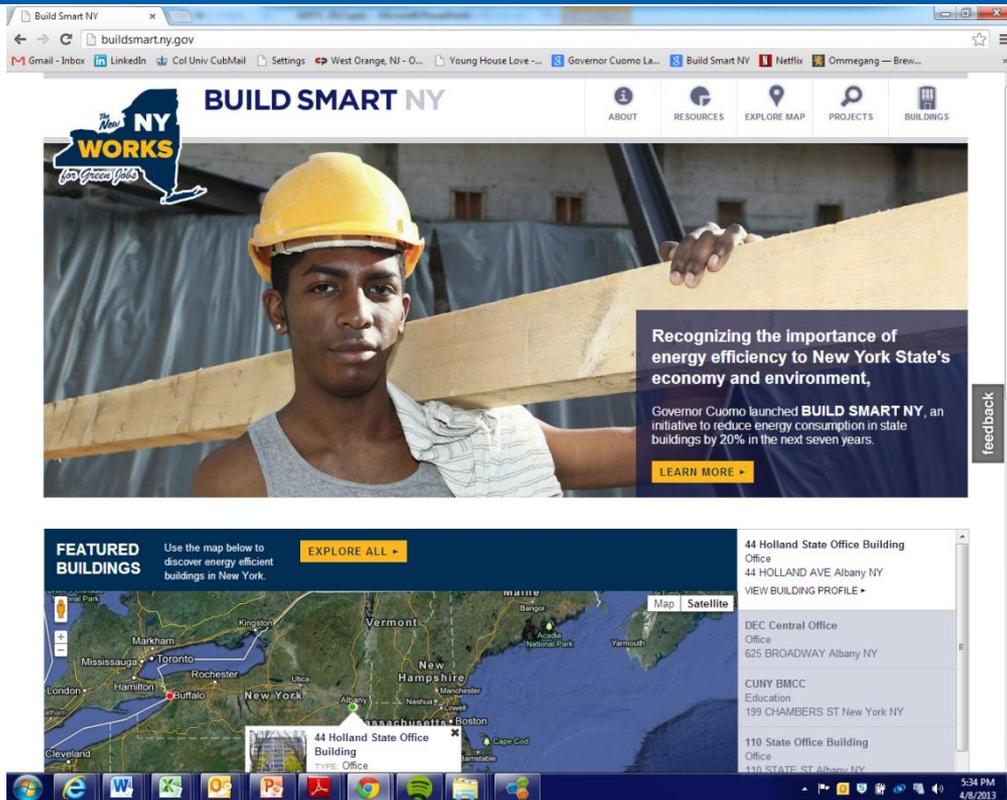
Key Work Plan Tasks	Target	Purpose
1. Staff Up Build Smart NY implementation team at NYPA	<input checked="" type="checkbox"/> Completed	Coordinate compliance with EO 88 and provide centralized technical assistance to agencies
2. Official designation of BSNY 'Executive Sponsors' and 'Responsible Leads' at agencies	<input checked="" type="checkbox"/> Completed	Ensure a high-level of accountability and commitment to energy efficiency at agencies
3. Publish <i>Baseline Energy Performance of NY State Government Buildings</i>	June 2013	Openly depict energy performance of state facilities at start of path toward 20% reduction
4. Create and issue BSNY Guidelines (Participatory process involving agencies)	Sep 2013	Establish consistent and efficient processes and operations based on sound principles and leading industry practices; to provide clear procedures for agencies.
5. Agencies submit 1st annual building energy reports to NYPA	Oct 2013	To allow for centralized management of data, performance management, and reporting to Governor and public
6. Formulate a statewide energy efficiency operations and maintenance strategy for agency campuses and buildings	Nov 2013	Achieve low-cost energy savings, sustained viability of capital investments, and ensure that building operations workforce is trained a capable of meeting energy performance goals.
7. Develop and issue agency-based annual targets for achieving the 20% reduction	Dec 2013	Backbone metrics for Build Smart NY at large; will ensure 20% target is met.
8. Transmit 1 st official Annual Progress Report to Governor	Jan 2014	Accountability, transparency and continuous improvement

Governance Framework

1. Dogged executive sponsorship
2. Data-driven performance measurement
3. Flexible financing and technical resource availability
4. Active communication and stakeholder engagement
5. Shrewd project selection
6. Uniform project management controls
7. “Ground-level” project ownership
8. Vigilant risk management



Advancing Objectives Through Transparency



www.buildsmart.ny.gov

- Use of “big data” & social networking to increase transparency, accelerate projects, and drive innovation in buildings
- 1-stop shop for building data, progress reports, case studies, energy technologies, and financing options

- By sharing information we will encourage local governments, private sector companies, and non-profit institutions to follow the State's lead and make an investment in buildings that will benefit institutional bottom lines, the economy, and the environment.

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