

GIL C. QUINIONES  
President & Chief Executive Officer  
New York Power Authority  
123 Main Street, White Plains, NY 10601  
(914) 681-6621 | gil.quiniones@nypa.gov | Twitter @GQEnergy  
www.nypa.gov

Dear Governor Cuomo:

I am extremely pleased to present the fifth annual Progress Report on BuildSmart NY, your strategic initiative to accelerate energy-related investments in New York State facilities and achieve a 20 percent reduction of energy use in State facilities by 2020. The enclosed Progress Report satisfies the annual reporting directive contained within Executive Order 88 and is also designed to inform New York's citizens and the general public on the progress of BuildSmart NY.

We have collected results through State fiscal year 2017, which indicate that the State has reduced its source Energy Use Intensity by 11.1 percent since State Fiscal Year 2010-11, the baseline year. These improvements have also resulted in an estimated \$45 million in avoided energy costs and 222 thousand tons of avoided greenhouse gas emissions in 2017 alone. Since the baseline year, BuildSmart NY has generated an estimated \$354 million in avoided energy costs and 2.4 million tons of avoided greenhouse gas emissions. In addition to tracking recognized results, we are also tracking committed energy efficiency and renewable projects that are in contract and currently being designed or installed. Projected savings from these committed projects further reduce energy use intensity by an estimated 5.3 percent, resulting in a collective 16.4 percent reduction from the baseline year. This report highlights the energy efficiency accomplishments of State-owned buildings over the last year and recognizes the efforts made by leading agencies throughout the State.

As we build on the success of BuildSmart NY, 2018 looks to be a critical year for New York's energy future; NYPA will continue to help lead New York's clean energy transformation through BuildSmart NY and other related initiatives. Our New York Energy Manager platform will continue to propel the goals of the Reforming the Energy Vision (REV) initiative, by optimizing facility energy usage and creating an informational hub for software providers to bring innovative products to market.

Our organization is grateful for the privilege of presenting this Progress Report, and we are honored to serve as the coordinator of this important undertaking as we build on our 2017 momentum for even greater energy efficiency and renewable energy results in 2018.



**GIL C. QUINIONES**  
President & Chief Executive Officer

# EO88 2017 ANNUAL REPORT EXECUTIVE SUMMARY



NY Power  
Authority

## EO88 BACKGROUND

Executive Order 88 (EO88) sets a nationwide precedent for energy efficiency by mandating a 20 percent reduction in Source Energy Use Intensity (EUI) at State facilities by 2020. EO88 designates the New York Power Authority (NYPA) as the administrator of BuildSmart NY, an initiative created to help State facilities satisfy the Order's requirements. BuildSmart NY actively champions EUI reduction strategies and reports progress towards EO88 goals.

## 2017 ACCOMPLISHMENTS

Aggregate progress since the baseline year (2010-11)



### ENERGY USE REDUCTION:

State facilities have reduced source Energy Use Intensity (EUI) by 11.1% since the baseline year (State Fiscal Year 2010-11) and that number will increase to 16.4% with committed projects in progress. These improvements have resulted in an estimated \$45 million in avoided costs and 222 thousand tons of avoided greenhouse gas emissions in 2017 alone.



### ENERGY AUDITING:

State Agencies have gone above and beyond the energy auditing requirement by completing all audits required by EO88, as well as several additional studies, marking a significant accomplishment in meeting the Order's goals.



### SUBMETERING:

Approximately 82% of identified State buildings are now submetered. Progress towards electric submetering has been even greater, with approximately 91% of all identified buildings metered for electricity.



### RENEWABLES:

This year demonstrated an exciting push for developing renewable energy at New York State Agencies. NYPA has streamlined the procurement of Power Purchase Agreements (PPAs), which led to commitments of 25 MW of solar power and a 0.5% reduction in statewide source EUI.

16.4%

REDUCTION  
IN SOURCE EUI

218

COMMITTED  
PROJECTS

2.4M TONS

AVOIDED GREENHOUSE  
GAS EMISSIONS

\$801

MILLION  
COMMITTED TO DATE

\$354

MILLION  
AVOIDED COSTS

# SUMMARY OF ENERGY USE REDUCTION

With committed projects underway, State facilities will decrease their source EUI by 16.4%. This significant improvement represents strong progress toward the Order's 20% reduction goal and demonstrates State Agencies' continued efforts toward building a better New York.



## SOURCE EUI REDUCTION BY AGENCY THRU 2017

Agency	Achieved Results	+Committed Projects
Metropolitan Transportation Authority	24.6%	31.9%
Office of General Services	4.4%	23.3%
State University of New York	14.7%	18.2%
Office of Mental Health	10.7%	12.6%
City University of New York	10.0%	10.9%
Department of Corrections and Community Supervision	-1.2%	5.6%
Office of Parks, Recreation, and Historic Preservation	6.1%	59.7%
Department of Environmental Conservation	7.3%	30.9%
Thruway Authority	29.7%	29.7%
Division of Military and Naval Affairs	28.1%	28.1%
Roosevelt Island Operating Corporation	24.8%	24.8%
Office of Alcoholism and Substance Abuse Services	24.5%	24.5%
Office for People with Developmental Disabilities	24.2%	24.2%
Canal Corporation	21.3%	21.3%
Office of Children and Family Services	17.2%	20.1%
Department of Transportation	18.3%	18.3%
New York Power Authority	17.8%	17.8%
United Nations Development Corporation	17.6%	17.6%
New York City Convention Center Operating Corporation	16.4%	16.4%
Department of Health	13.9%	13.9%
New York State Energy Research and Development Authority	13.6%	13.6%
DASNY	9.5%	9.5%
New York State Insurance Fund	9.4%	9.4%
Department of Labor	5.0%	5.0%
Division of State Police	4.9%	4.9%
Department of Agriculture and Markets	3.5%	3.5%
Niagara Frontier Transportation Authority	0.1%	0.1%
Olympic Regional Development Authority	-7.5%	-7.5%

**AVG 17.1%**  
Source EUI Reduction

**AVG 17.5%**  
Source EUI Reduction

Committed projects are projected to improve overall results by over **48%**