



**NYSERDA**

# **NY-Sun Initiative Quarterly Performance Report to the Public Service Commission**

**Quarter Ending December 31, 2016**

**Final Report**

## **NYSERDA's Promise to New Yorkers:**

NYSERDA provides resources, expertise, and objective information so New Yorkers can make confident, informed energy decisions.

### **Mission Statement:**

Advance innovative energy solutions in ways that improve New York's economy and environment.

### **Vision Statement:**

Serve as a catalyst – advancing energy innovation, technology, and investment; transforming New York's economy; and empowering people to choose clean and efficient energy as part of their everyday lives.



**NY-Sun Initiative**  
**Quarterly Performance Report to the**  
**Public Service Commission**  
**Quarter Ending December 31, 2016**

*Final Report*

Prepared by:  
**New York State Energy Research and Development Authority**

Albany, NY

February 2017

# Table of Contents

---

<b>NYSERDA Record of Revision .....</b>	<b>i</b>
<b>List of Tables.....</b>	<b>iii</b>
<b>1 Overview of NY-Sun.....</b>	<b>4</b>
1.1 Introduction.....	4
1.2 High Level Accomplishments during this Quarter .....	4
<b>2 Progress and Results .....</b>	<b>6</b>

## List of Tables

---

Table 2-1. Capacity toward 3GW Goal through December 31, 2016 (MW):.....	6
Table 2-2. Production Associated with 3GW Goal through December 31, 2016 (MWh) .....	7
Table 2-3. Budget and Financial Status for NY-Sun Programs as of December 31, 2016 (in dollars) .....	8

# 1 Overview of NY-Sun

---

## 1.1 Introduction

NY-Sun is a \$1 billion initiative to expand solar capacity throughout New York State by utilizing public funds in a strategic manner to build a self-sustaining solar market. NY-Sun provides financial support to qualified solar installation contractors as well as a comprehensive approach to reducing solar costs and barriers. NY-Sun's goal, referred to as the 3 Gigawatt Goal, is to install three gigawatts (GW) of solar electric capacity by 2023 while building a self-sustaining solar industry.

Through December 31, 2016, 744 MW of solar have been installed statewide with NYSERDA funding, and an additional 887 MW are in the pipeline. The NYSERDA-funded solar capacity installed statewide as of December 31, 2016, generates approximately 858,995 MWh of electricity each year, reducing annual carbon dioxide equivalent (CO<sub>2</sub>e) emissions by 452,103 metric tons.<sup>1</sup>

## 1.2 High Level Accomplishments during this Quarter

New York State experienced continued growth in the solar market supported by NY-Sun during the fourth quarter of 2016. Highlights for this period include:

- Green Jobs - Green New York financing is still available for Long Island residents. As of the fourth quarter of 2016, 417 “financing only” projects have been completed and 253 additional “financing only” project applications have been received or approved.
- Uptake for the Affordable Solar program, which provides additional incentives for onsite residential projects for low and moderate-income homeowners, increased for customers and contractors during the fourth quarter of 2016. Through the fourth quarter of 2016, 102 installations were completed and 63 were in the program pipeline. In total, 33 NY-Sun contractors have completed Affordable Solar projects.
- “Solarize” campaigns participating in Community Solar NY Round 2 completed outreach and marketing activities at the end of 2016. These Solarize campaigns resulted in approximately 600 new solar installations across 23 counties, with final results to be announced in early 2017. Applications for Round 3 of Community Solar NY closed on November 3, 2016. The new round of campaigns will be announced in early 2017.

---

<sup>1</sup> With the submittal of its Clean Energy Fund Investment Plan Budget Accounting and Benefits Chapter on February 22, 2016, NYSERDA adopted the NYS Public Service Commission's recommendation in its January 21, 2016 Order Establishing the Benefit Cost Analysis Framework that the State's GHG emissions factor methodology shift from an average grid emission profile to a marginal grid emission profile. Due to this shift, the State's factor to calculate GHG emissions reductions has changed from 625 pounds CO<sub>2</sub>e/MWh to 1,160 pounds CO<sub>2</sub>e/MWh. The emissions reductions calculated for this quarterly report reflect the new factor of 1,160 pounds CO<sub>2</sub>e/MWh.

- During the fourth quarter of 2016, the New York State Interconnection Ombudsmen, in collaboration with the utilities and solar developers, developed an interconnection queue management proposal, as well as a proposal to extend in-service deadlines for certain Monetary Remote Net Metering projects. The proposals were jointly submitted to the Public Service Commission by the solar industry and utilities as collaborative products of the Interconnection Policy Working Group (IPWG) chaired by the New York State Interconnection Ombudsmen. The New York State Interconnection Ombudsmen continued to assist solar developers with complaints and questions on a project-by-project basis. The State Interconnection Ombudsmen launched an Interconnection Procedures Collaborative to develop improvements to Con Edison's internal process for managing interconnections.

## 2 Progress and Results

---

**Table 2-1. Capacity toward 3GW Goal through December 31, 2016 (MW)<sup>2,3</sup>**

Program	Projects Completed (Installed Units) with Adjustments through 9/30/16	Projects Completed (Installed Units) 10/01/16 - 12/31/16	Projects Completed (Installed Units) through 12/31/16	Applications Approved but Not Yet Contracted (Current Pipeline)	Projects Contracted but Not Yet Completed (Current Pipeline)	Total (Current Pipeline + Installed Units) through 12/31/16
Residential / Small Commercial	230.57	29.93	260.50	15.95	115.57	392.02
Commercial / Industrial	6.74	10.27	17.01	66.81	486.48	570.30
Competitive PV	18.83	5.39	24.23	3.83	136.88	164.93
<b>Grand Total</b>	256.14	45.60	301.74	86.58	738.92	1,127.24

---

<sup>2</sup> 1,000 MW equals one GW.

<sup>3</sup> Adjustments applied to projects completed through 9/30/16 are due to the capture of lagged data and/or QA/QC.

**Table 2-2. Production Associated with 3GW Goal through December 31, 2016 (MWh)<sup>4</sup>**

Program	Projects Completed (Installed Units) with Adjustments through 9/30/16	Projects Completed (Installed Units) 10/01/16 - 12/31/16	Projects Completed (Installed Units) through 12/31/16	Applications Approved but Not Yet Contracted (Current Pipeline)	Projects Contracted but Not Yet Completed (Current Pipeline)	Total (Current Pipeline + Installed Units) through 12/31/16
Residential / Small Commercial	270,651	35,135	305,786	18,721	135,659	460,166
Commercial / Industrial	7,911	12,059	19,969	78,421	571,048	669,439
Competitive PV	22,109	6,329	28,438	4,492	160,671	193,601
<b>Grand Total</b>	<b>300,671</b>	<b>53,522</b>	<b>354,193</b>	<b>101,634</b>	<b>867,378</b>	<b>1,323,205</b>

---

<sup>4</sup> Adjustments applied to projects completed through 9/30/16 are due to the capture of lagged data and/or QA/QC.

**Table 2-3. Budget and Financial Status for NY-Sun Programs as of December 31, 2016 (in dollars)<sup>5</sup>**

<b>Program</b>	<b>Pre-encumbrances</b>	<b>Open Encumbrances</b>	<b>Expended Funds</b>	<b>Grand Total</b>	<b>Budgeted Funds 2014-2023</b>
Residential/Small Commercial	6,276,936	61,998,510	168,545,833	236,821,279	594,234,379
Commercial/Industrial	25,986,966	178,778,235	1,050,392	205,815,593	464,192,069
Competitive PV	2,274,031	76,338,143	3,166,329	81,778,503	81,778,503
Program Implementation	-	646,953	761,346	1,408,299	33,275,000
Administration	36,024	325,515	1,898,229	2,259,768	38,706,000
Evaluation	-	-	-	-	2,500,000
NYS Cost Recovery Fee	-	-	668,774	668,774	19,250,000
<b>Total</b>	<b>34,573,957</b>	<b>318,087,356</b>	<b>176,090,903</b>	<b>528,752,215</b>	<b>1,233,935,951</b>

---

<sup>5</sup> Administration, Evaluation, and NYS Cost Recovery Fee are for NY-Sun funds only.

NYSERDA, a public benefit corporation, offers objective information and analysis, innovative programs, technical expertise, and support to help New Yorkers increase energy efficiency, save money, use renewable energy, and reduce reliance on fossil fuels. NYSERDA professionals work to protect the environment and create clean-energy jobs. NYSERDA has been developing partnerships to advance innovative energy solutions in New York State since 1975.

To learn more about NYSERDA's programs and funding opportunities, visit [nyserdera.ny.gov](http://nyserdera.ny.gov) or follow us on Twitter, Facebook, YouTube, or Instagram.

**New York State  
Energy Research and  
Development Authority**

17 Columbia Circle  
Albany, NY 12203-6399

**toll free:** 866-NYSERDA  
**local:** 518-862-1090  
**fax:** 518-862-1091

[info@nyserdera.ny.gov](mailto:info@nyserdera.ny.gov)  
[nyserdera.ny.gov](http://nyserdera.ny.gov)



**State of New York**

Andrew M. Cuomo, Governor

**New York State Energy Research and Development Authority**

Richard L. Kauffman, Chair | John B. Rhodes, President and CEO

