



NYSERDA

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

Quarter Ending June 30, 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
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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. NY-Sun also provides a comprehensive approach to reducing solar costs and barriers. NY-Sun's goal, referred to as the 3 Gigawatt Goal, is to install 3 gigawatts (GW) of solar electric capacity by 2023 while building a self-sustaining solar industry.

Through June 30, 2016, 630 megawatts (MW) of solar have been installed across New York State with NYSERDA funding, and an additional 883 MW are in the pipeline. The NYSERDA-funded solar capacity installed statewide as of June 30, 2016 generates approximately 727,669 MWh of electricity each year, reducing annual carbon dioxide equivalent (CO₂e) emissions by 382,984 metric tons.¹

1.2 High Level Accomplishments During this Quarter

New York State experienced continued growth in the solar with support from NY-Sun during the second quarter of 2016. Highlights for this period include:

- The final residential MW Block for the Long Island region filled up in April 2016 and the incentive program was closed because of the continued growth of the solar market in that region. Between January 2014 and April 2016, a total of 139 MW of residential solar was incentivized through NY-Sun. Green Jobs - Green New York financing is still available for Long Island residents, and eligible low and moderate income Long Island homeowners can still receive an Affordable Solar incentive of \$0.20 per watt.
- Applications for projects utilizing Community Distributed Generation, also known as Shared Solar, significantly increased. During the second quarter of 2016, 69 applications for Community Distributed Generation projects with a total capacity of over 217 MW were approved in the Commercial-Industrial MW Block.

¹ 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 New York's GHG emissions factor methodology shift from an average grid emission profile to a marginal grid emission profile. Due to this shift, New York's factor to calculate GHG emissions reductions has changed from 625 pounds CO₂e/MWh to 1,160 pounds CO₂e/MWh. The emissions reductions calculated for this quarterly report reflect the new factor of 1,160 pounds CO₂e/MWh.

- In response to growing demand for sites to install large ground-mounted solar arrays, NYSERDA and the NYS Department of Agriculture and Markets produced a Landowner Considerations for Solar Land Leases factsheet. The factsheet has been distributed at public events and is posted online at <http://www.nyserdan.y.gov/-/media/nysun/files/landowner-considerations-for-solar-leases.pdf>
- Uptake for the Affordable Solar program, which provides additional incentives for on-site residential projects for low- to moderate-income homeowners, increased for customers and contractors during the second quarter of 2016. Six installations were completed and 16 were approved, for a total of 166 kilowatts. Fourteen NY-Sun contractors submitted or completed Affordable Solar projects during this time.
- The New York State Interconnection Ombudsman worked closely with utilities and solar developers during the second quarter. The Ombudsman set priorities and focused resources on completing projects and removing inactive projects. Comprehensive interconnection tracking information was published to establish common expectations for the administrative processes. Areas with distributed generation constraints were identified and displayed on maps published online at <http://www.dps.ny.gov/distgen.htm>. Finally, the Interconnection Policy Working Group developed an interconnection queue management proposal with input from the relevant stakeholders and agencies.

2 Progress and Results

Table 2-1. Capacity toward 3 GW Goal through June 30, 2016 (MW)^{2,3}

Program	Projects Completed (Installed Units) with Adjustments through 3/31/16	Projects Completed (Installed Units) 4/01/16 - 6/30/16	Projects Completed (Installed Units) through 6/30/16	Applications Approved but Not Yet Contracted (Current Pipeline)	Projects Contracted but Not Yet Completed (Current Pipeline)	Total (Current Pipeline + Installed Units) through 6/30/16
Residential / Small Commercial	172.80	31.04	203.84	10.19	144.63	358.66
Commercial / Industrial	3.01	3.73	6.74	55.52	427.95	490.20
Competitive PV	7.79	9.04	16.83	0.00	144.85	161.69
Grand Total	183.60	43.81	227.41	65.71	717.43	1,010.55

² 1,000 MW equals 1 GW

³ Capacity of Residential/Small Commercial Complete Projects (installed units) increased from 172.51 to 172.80 MW for the previous reporting period due to correction of projects that were split funded. This difference is reflected in the Projects Completed (Installed Units) with Adjustments through 3/31/16 column.

Table 2-2. Production Associated with 3 GW Goal through June 30, 2016 (MWh)⁴

Program	Projects Completed (Installed Units) with Adjustments through 3/31/16	Projects Completed (Installed Units) 4/01/16 - 6/30/16	Projects Completed (Installed Units) through 6/30/16	Applications Approved but Not Yet Contracted (Current Pipeline)	Projects Contracted but Not Yet Completed (Current Pipeline)	Total (Current Pipeline + Installed Units) through 6/30/16
Residential / Small Commercial	202,841	36,434	239,274	11,965	169,773	421,012
Commercial / Industrial	3,530	4,380	7,911	65,168	502,340	575,418
Competitive PV	9,143	10,616	19,760	0	170,034	189,794
Grand Total	215,514	51,430	266,945	77,133	842,147	1,186,224

⁴ Capacity of Residential/Small Commercial Complete Projects (installed units) increased from 202,500.49 to 202,841 MWh for the previous reporting period due to correction of projects that were split funded. This difference is reflected in the Projects Completed (Installed Units) with Adjustments through 3/31/16 column.

Table 2-3. Budget and Financial Status for NY-Sun Programs as of June 30, 2016 (in dollars)

Program	Pre-encumbrances⁵	Open Encumbrances⁶	Expended Funds⁷	Grand Total	Budgeted Funds 2014-2023
Residential / Small Commercial	3,555,319	74,826,953	145,002,144	223,384,416	594,634,379
Commercial / Industrial	18,605,337	154,924,500	651,224	174,181,061	489,664,117
Competitive PV⁸	348,964	77,869,021	2,173,441	80,391,426	80,391,426
Program Implementation⁹	637,100	117,220	411,510	1,165,830	32,875,000
Total	23,146,720	307,737,694	148,238,319	479,122,732	1,197,564,922

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- 5 Planned funding for contracts awarded and under negotiation; and planned funding under active development through open solicitations with upcoming proposal due dates.
 - 6 Remaining funding obligated under a contract, purchase order, or incentive award.
 - 7 Invoices processed for payment by NYSERDA.
 - 8 Commercial / Industrial budgeted funds include all RPS Large Scale budget funds other than those represented on the Competitive PV line and the current value of the commitments of Competitive PV projects pre-encumbered prior to January 1, 2014.
 - 9 Program implementation includes technical assistance and field review for quality assurance and quality control.

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 or follow us on Twitter, Facebook, YouTube, or Instagram.

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