



NEW YORK
STATE OF
OPPORTUNITY.

NY-Sun

Commercial Industrial Stakeholder Meeting 04/05/2016



April 5, 2016

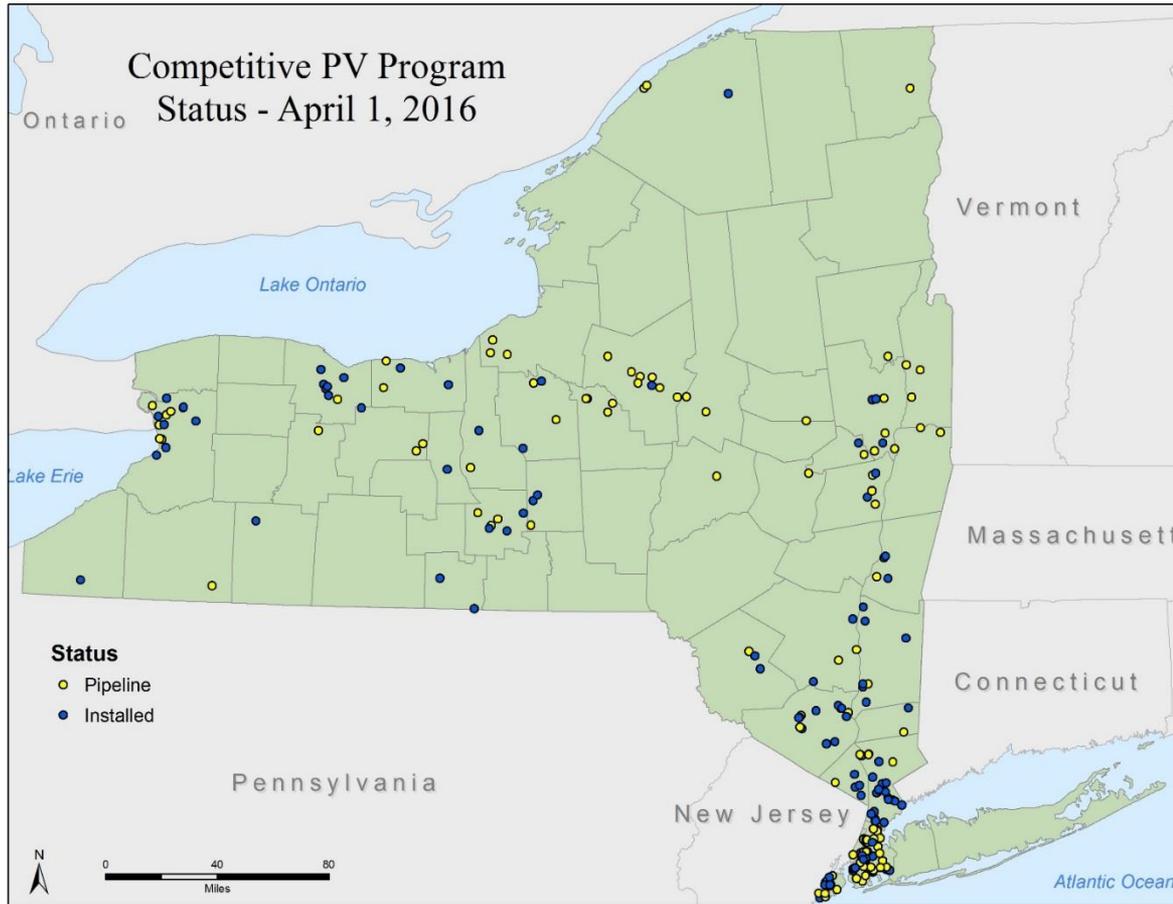
Introduction

- NY-Sun introduction
- After each discussion item, we will pause for questions
- Use the chat box
- Feel free to reach us afterwards with other questions and feedback at Commercial.IndustrialPV@nyserda.ny.gov
- Slides and webinar recording will be available in a couple of days on our website on our new [C/I Stakeholder Meeting Page](#)

Agenda

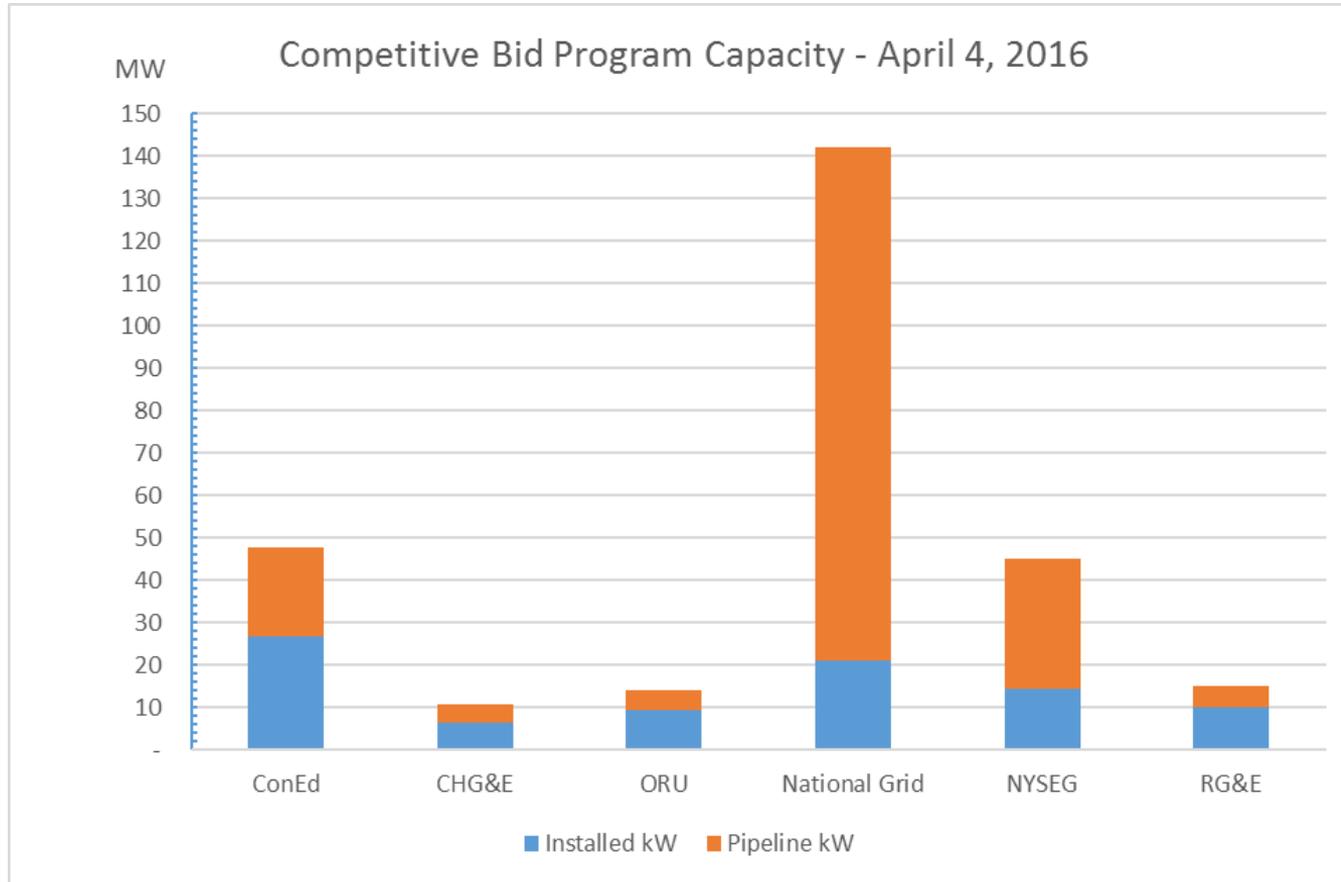
- Introduction
- Competitive Bid Program
- Commercial / Industrial MW Block
- Community Distributed Generation (CDG)
- Clean Energy Standard
- NY-Sun Solar Market Readiness Initiative
 - Balance of system cost reduction strategy
 - Interconnection

Summary of Competitive Bid Program

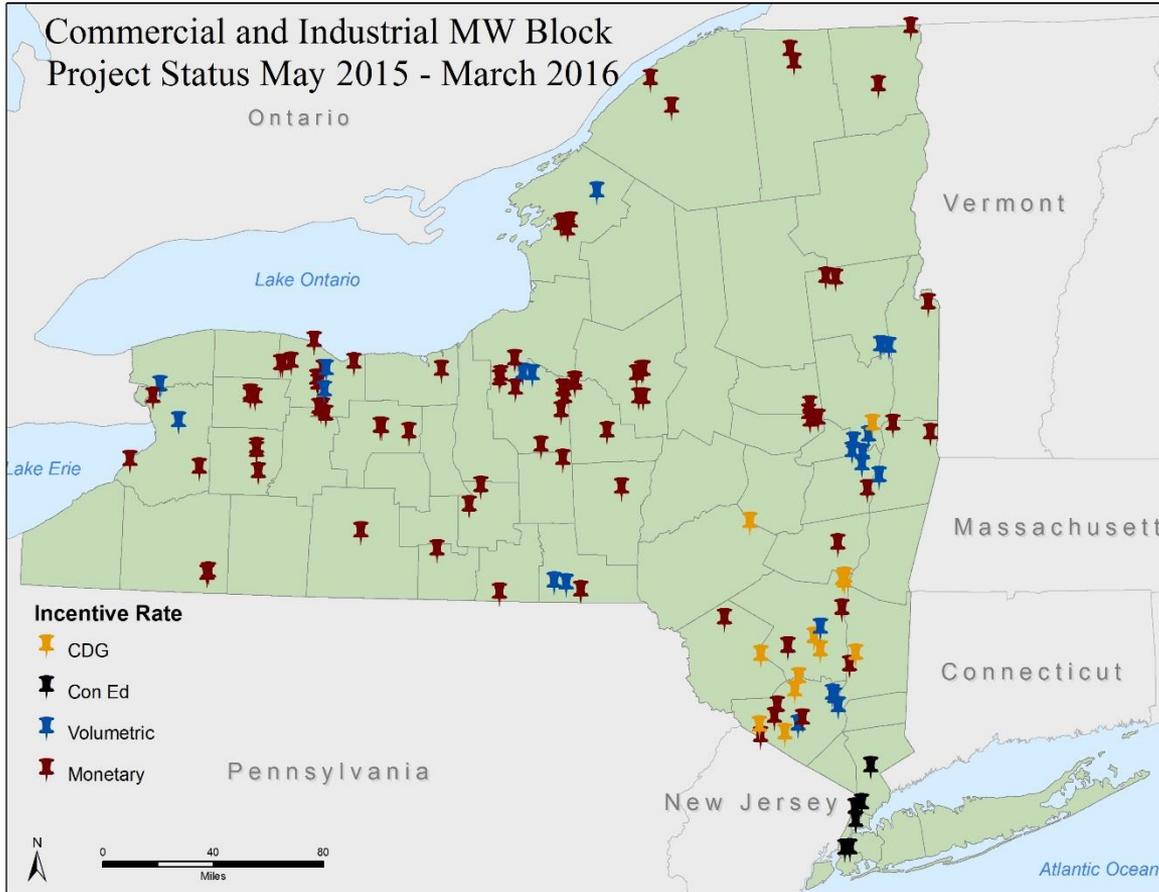


Utility	Number of Projects
Con Ed	127
CHG&E	17
ORU	13
National Grid	78
NYSEG	30
RG&E	14
Grand Total	279

Installed MW	88.445
Pipeline MW	186.533
Total MW	274.978

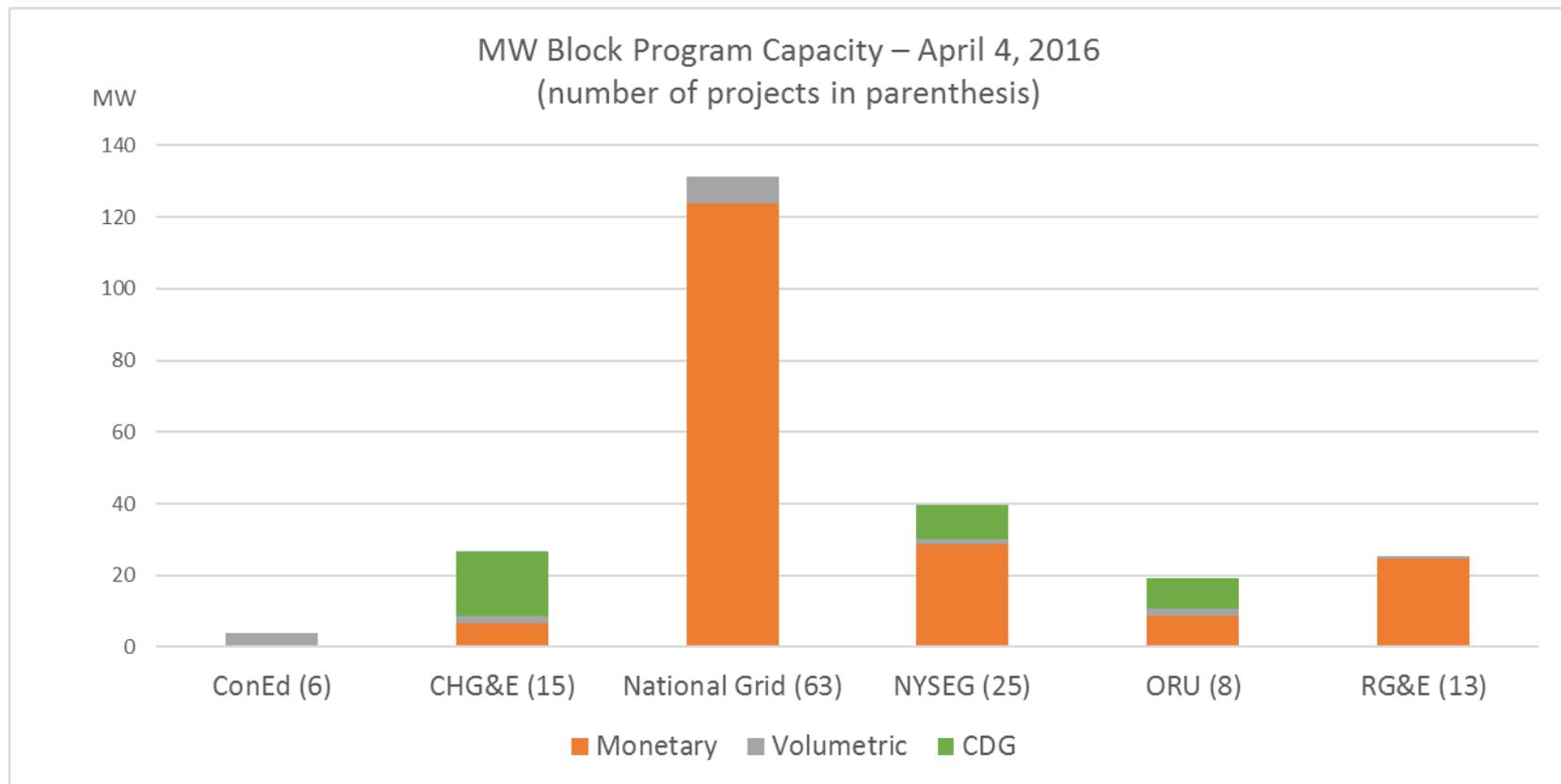


Commercial / Industrial MW Block Activity



ROS Total capacity	243 MW
Monetary projects	88
Volumetric projects	23
CDG projects	13
Total ROS projects	124

ConEd Total capacity	3.8 MW
Number of Projects	6



Community Distributed Generation (CDG)

Community Distributed Generation (CDG)

- Projects can interconnect statewide starting May 1 (Phase II of CDG)
- Utility Operating Procedures in place
- NY-Sun Incentive process:
 - Projects must identify as CDG at time of application
 - Projects must provide complete initial member allocation at time of project completion (not required with application)
- [CDG Overview](#) for Project Developers on NY-Sun website
- Reforming the Energy Vision (REV) proceedings related to CDG:
 - [Value of DER](#) (comments and proposals on an interim successor to NEM due 4/18)
 - [DER Oversight](#)
 - [Community Net Metering](#)

Clean Energy Standard

Clean Energy Standard

- State Energy Plan Goal 50% renewable by 2030
 - 33,700 GWh/yr incremental renewable capacity needed
 - NY Sun 3 GW = ~3.5 GWh/yr
- Compliance obligation on LSE through REC purchases
 - NYGATS certification generation anticipated to begin June 2016; retroactive to January 1, 2016
- PSC Proceedings for Public Comment
 - Case 15-E-0302 (Clean Energy Standard)
 - [White Paper](#) published 1/25/2016
 - Cost Study coming soon
 - Case 15-E-0696 (Environmental Disclosure Program)

NY-Sun Solar Market Readiness Initiative



NY-Sun Goal and Strategy

- Install over 3 GW of solar capacity by 2023 while building a self-sustaining solar industry.
- Incentives for solar installation through transparent [MW Block](#) structure
- Reduce solar costs and barriers
- Assistance to [local governments](#)
- [Customer education](#)

Cost Reduction Opportunities

- Interconnection
 - Interconnection training
 - Pilot alternative interconnection mitigation strategies
 - Utility pilot of smart inverters
- Permitting
 - Solar energy tool kit
 - Unified solar permit-Commercial
 - Unified solar permit-residential
 - Plug and Play Systems
 - Zoning and land use planning
- Finance
 - Alternative financing models
 - Access to capital (Greenbank)
 - Affordable solar
- Customer acquisition
 - Group purchasing
 - Solarize
- Policy
 - Prevailing Wage
 - Property tax issues
- Other
 - End of life issues (disposal, recycling and remaining hardware)
 - Operations & Maintenance
 - Installation and Performance

Interconnection Progress

DPS & NYSERDA collaboration

- Released the new Standardized Interconnection Requirements (SIR) on March 17:
 - Increase the size of projects (from 2 MW to 5 MW)
 - Preliminary and supplemental screening processes
 - Up-front upgrade cost will now be cut to 25 percent (construction will not begin until full payment is received)
 - Applicants may obtain system data by requesting a pre-application
- Created the New York State Interconnection Technical Working Group (ITWG)
 - Representatives from DPS, NYSERDA, NYPA, Utilities, NYSEIA, and solar developers
 - For more information on ITWG efforts, go to DPS Distributed Generation website “www.dps.ny.gov”

Interconnection Progress

DPS & NYSERDA collaboration

- Provide ombudsperson services to improve coordination between DG applicants and utilities:
 - DPS – Liz Grisaru
518-486-2653
Elizabeth.Grisaru@dps.ny.gov
 - NYSERDA – Houtan Moaveni
518-862-1090 x3016
Houtan.Moaveni@nyserda.ny.gov
- An ombudsperson appointed at each utility

Existing Interconnection Queue

- Over 2,000 non-residential applications in the interconnection queue
 - Over 40% of all applications submitted by 3 developers
 - New applications are predominantly CDG :
 - Central Hudson received over 335 CDG applications (aggregating over 700 MW) October 1 – April 1 vs. a system peak of 1200 MW
 - Other utilities in similar position
 - Utilities are not able to review and study these large scale projects (1-2MW) in the SIR timeframes
 - Significant numbers of dormant applications complicate the task and hold up active projects

Interconnection Queue Management

- GOAL: Ensure as many systems as feasible are constructed
- Actions Needed:
 - Establish priorities and focus utility resources on completing projects
 - Purge all inactive projects
 - Publish comprehensive tracking information to establish common expectations for administrative processes
 - Projects may be grouped for efficiency, resulting in shared responsibility for upgrades
 - Applicants may have to give up theoretical economic advantage of the first come, first served model

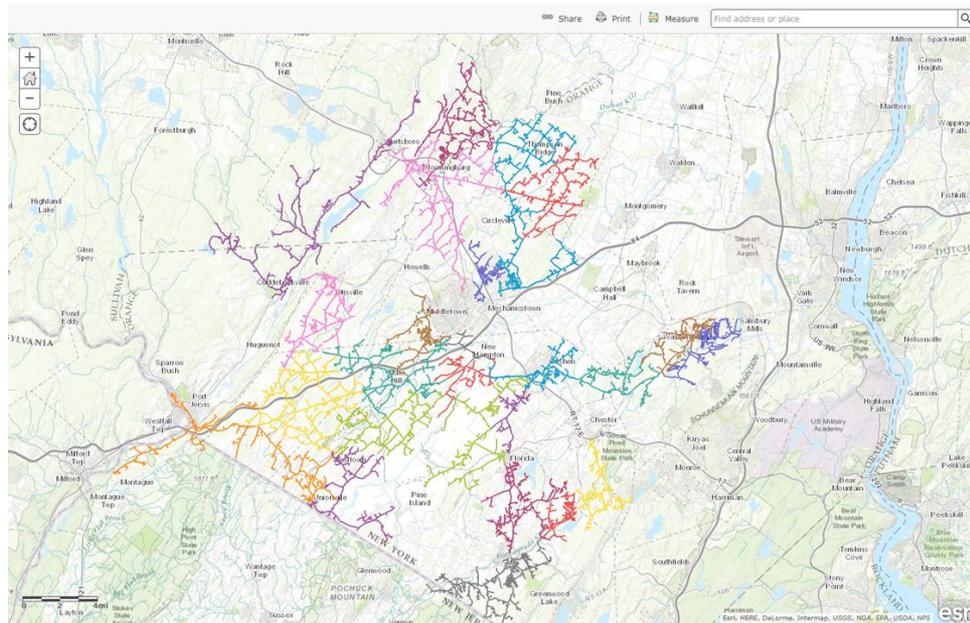


Interconnection Queue Management

- Identify known areas with DG constraints and develop maps showing these areas ahead of the hosting capacity maps
 - Scheduled release for these maps, 2nd quarter 2016
 - Maps will be replaced as hosting capacity maps become available

O&R Interactive Red Zone Map

- Launched on March 9th
- Maps found on www.oru.com/solar



Submit Your Ideas

- We are asking for developer suggestions and thoughts to address existing interconnection queue challenges
- Submit proposals and ideas via email to the State Ombudspersons by April 15
- How to accomplish the following:
 - Offload inactive projects
 - Move from serial studies to group/ cluster study
 - Options for clustering projects and studies
 - Allocate upgrade costs fairly
 - Improve queue position accuracy and transparency
 - Deter “queue hogging”
 - Improve customer experience

Case 15-E-0751 Interim Successor to Net Energy Metering

<http://documents.dps.ny.gov/public/MatterManagement/CaseMaster.aspx?MatterCaseNo=15-e-0751&submit=Search+by+Case+Number>

Case 15-E-0302 Clean Energy Standard

<http://documents.dps.ny.gov/public/MatterManagement/CaseMaster.aspx?MatterCaseNo=15-e-0302&submit=Search+by+Case+Number>

Case 5-E-0696 Environmental Disclosure Program

<http://documents.dps.ny.gov/public/MatterManagement/CaseMaster.aspx?MatterCaseNo=15-e-0696&submit=Search+by+Case+Number>

New York Generation Attribute Tracking System

<http://www.nyserda.ny.gov/Cleantech-and-Innovation/Environment/Research-Crosscutting-Topics/New-York-Generation-Attribute-Tracking-System>

Thank you for your participation!

[Stakeholder documents](#) and information:

Suggest future agenda items or provide other input:
Commercial.IndustrialPV@nyserda.ny.gov

Transitioning to a new Email List-Serve. Please RE sign-up
by May 1 for [Stakeholder Meeting Updates](#)):

