



NY-Sun

NY-Sun Stakeholder Meeting MW Block Redesign

December 14, 2017

New York State Energy Research and Development Authority

Stakeholder Meeting Agenda

- Introductions
- Timeline
- NY-Sun Program Update
- Program Rule Revisions
- Incentive Structure Revisions
- Next Steps

Introductions

Timeline

Timeline



Project data analysis
complete

Nov 10



Stakeholder meeting
1

Dec 14



Stakeholder
comment period
ends

Jan 12



Stakeholder meeting
2 - present draft of
program

Jan 25



Present draft memo
to DPS

Feb 1

Timeline



File petition with
DPS

Feb 8th



Finalize NY-Sun
program operations

April 15th



Petition approval

May



Implement program
changes

May

Program Update



NYSERDA

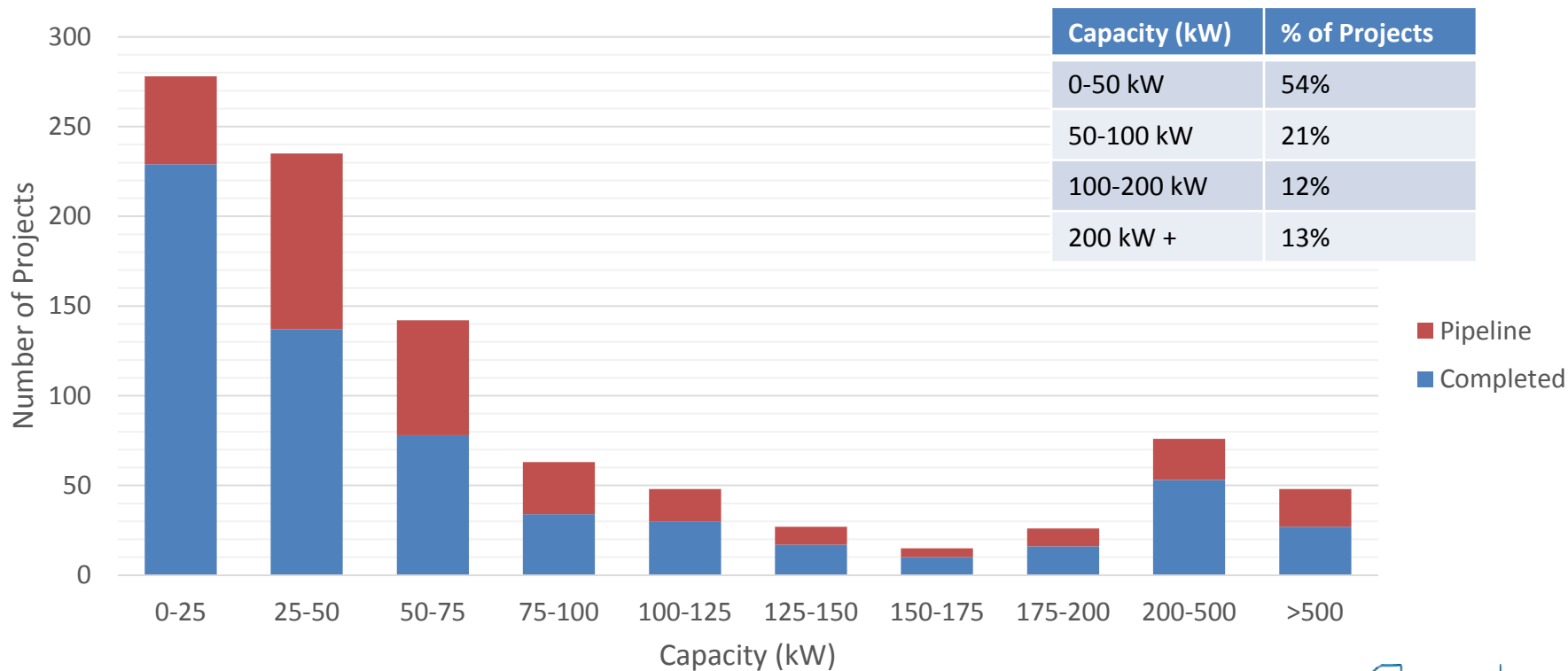
3 GW Capacity Targets by Sector / Region (MW)

Region	Residential (up to 25 kW)	Small Non-Residential (up to 200 kW)	Commercial & Industrial (greater than 200 kW)	Total
ConEd	302	303	300	905
ROS	444	451	1200	2095
Subtotal	746	754	1500	3000
Long Island	122	58	-	180
Total Statewide	868	812	1500	3180

ConEdison (MW)

Sector	Pipeline	Completed	Total	Goal	Remaining Capacity	Pipeline/ Completed % of Goal
ConEd SC	18	12	30	303	273	10%
ConEd C&I	16	9	25	300	275	8%
Total	34	21	55	603	548	9%

ConEdison Project Trend



All non-residential projects since 2012

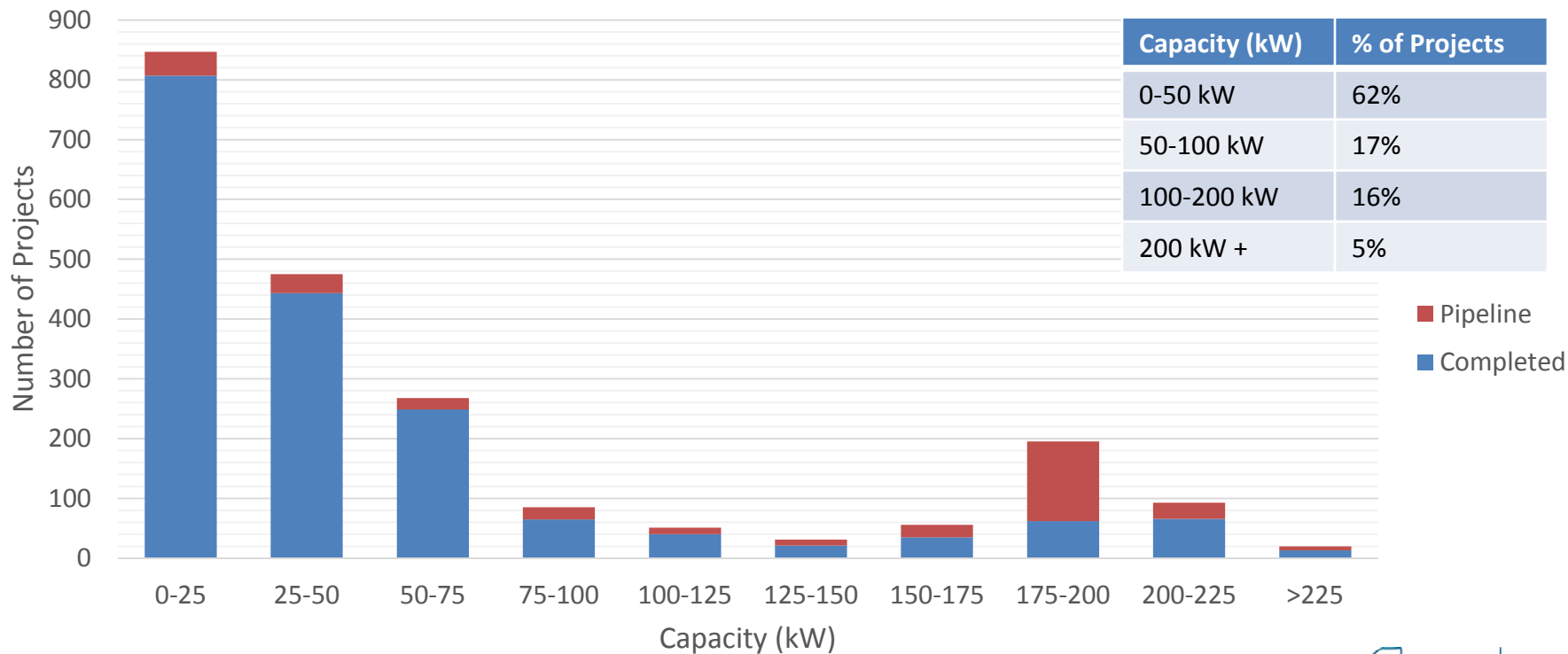


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ROS Small Commercial (MW)

Pipeline	Completed	Total	Goal	Missing Capacity	Pipeline + Completed % of Goal
42	57	99	451	352	22%

ROS Small Commercial Project Trend



All ROS Small Commercial Projects since 2012

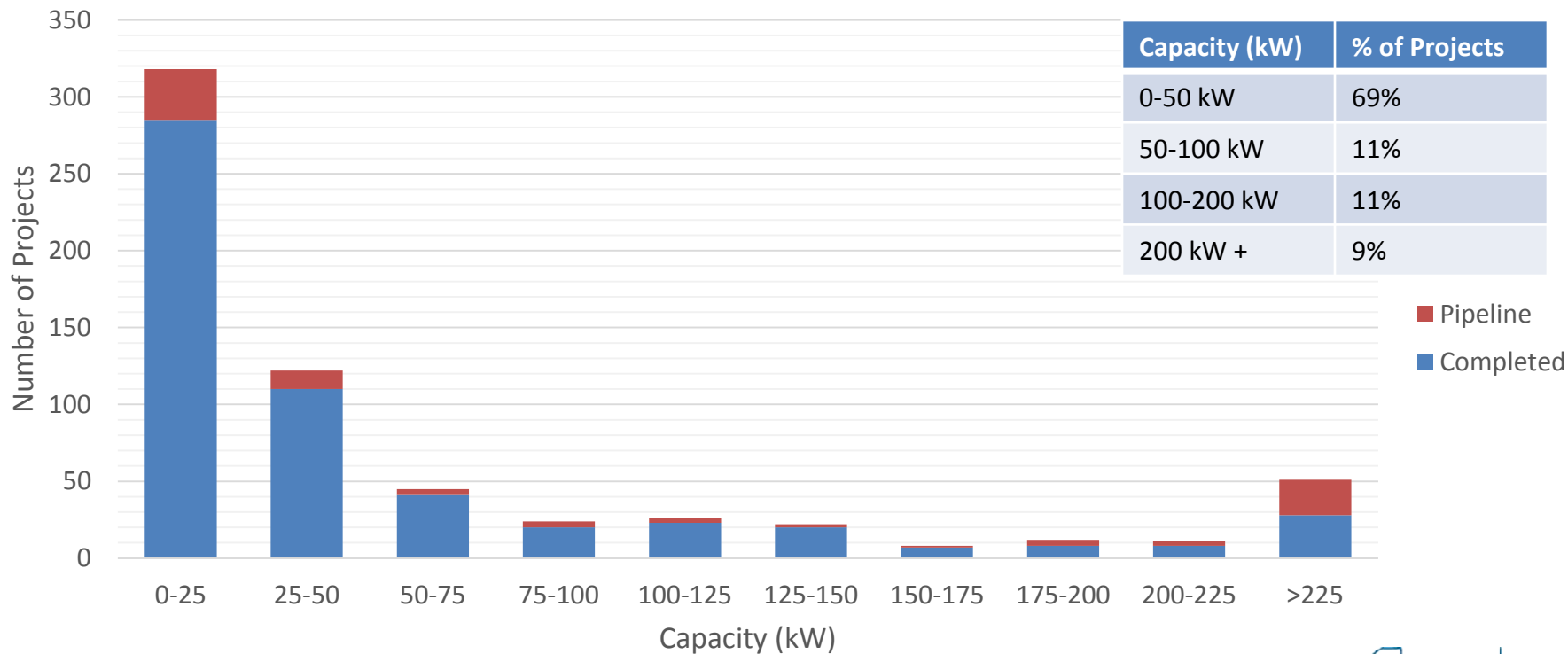


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Long Island Small Commercial (MW)

Pipeline	Completed	Total	Goal	Missing Capacity	Pipeline + Completed % of Goal
15	19	34	58	24	59%

Long Island Non-Residential Project Trend



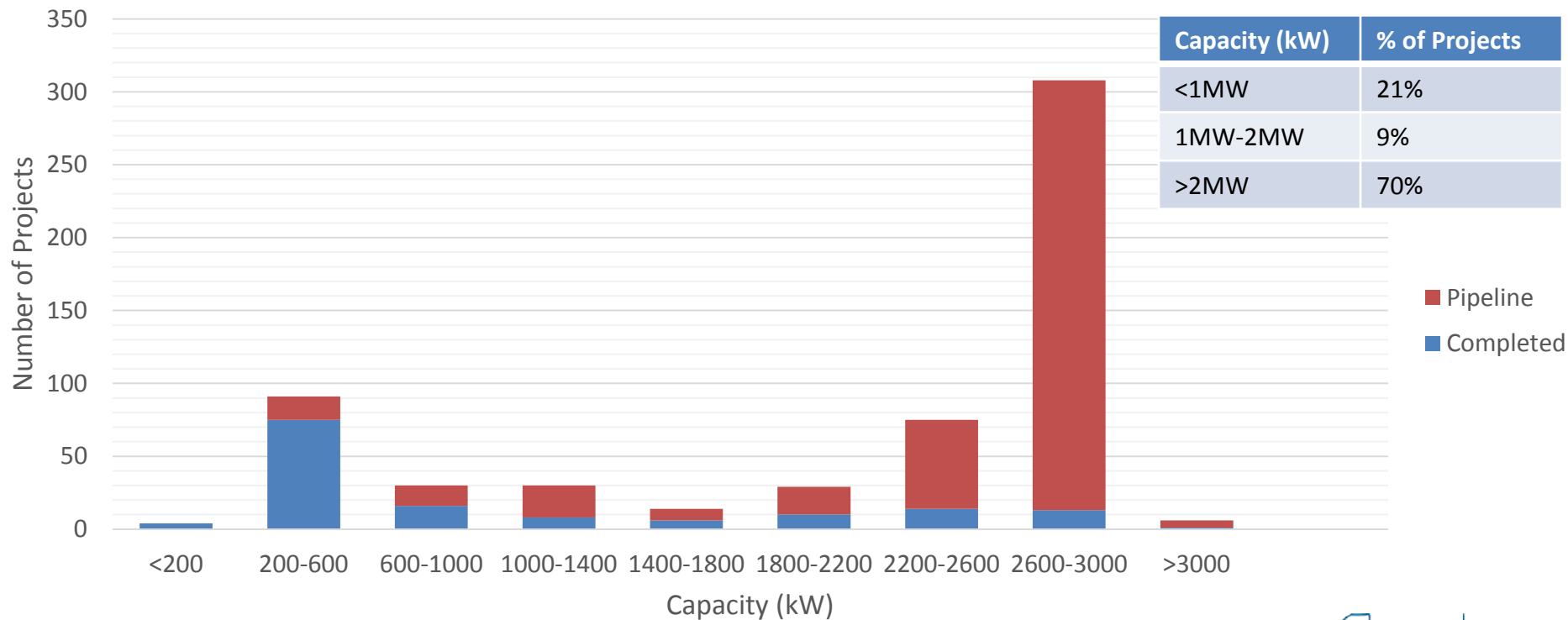
All non-residential projects since 2012

ROS Commercial & Industrial (MW)

Sector	Pipeline	Completed	Total	Goal	Missing Capacity	Pipeline + Completed % of Goal
ROS C&I	969	38	1007	1200	193	84%
*ROS CB	81	61	142	-	-	
Total	1,050	99	1,149	1200	51	96%

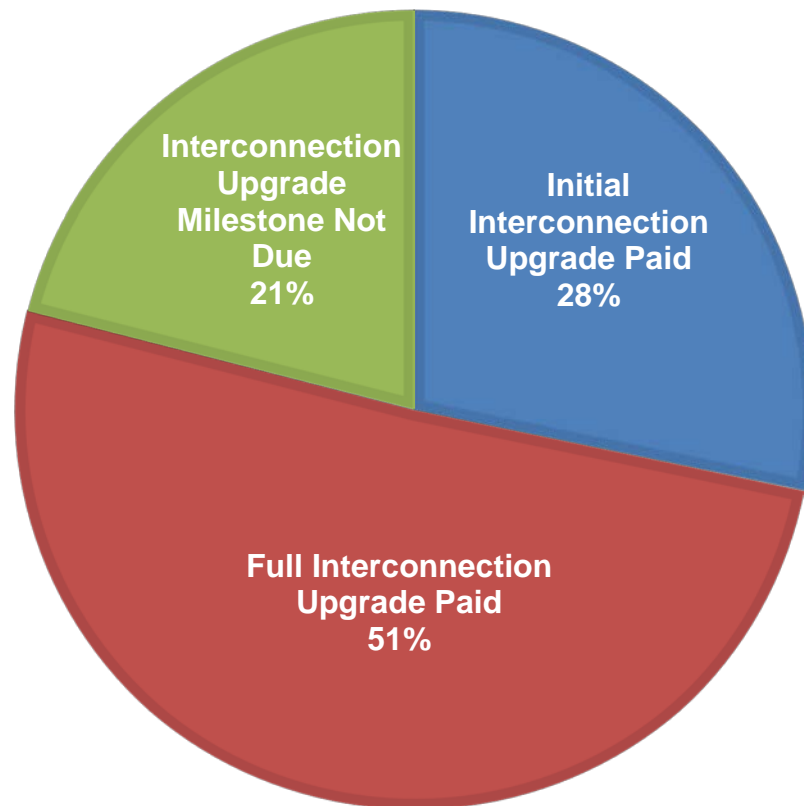
*Competitive bid projects are included in the target capacity

ROS C&I Project Trend



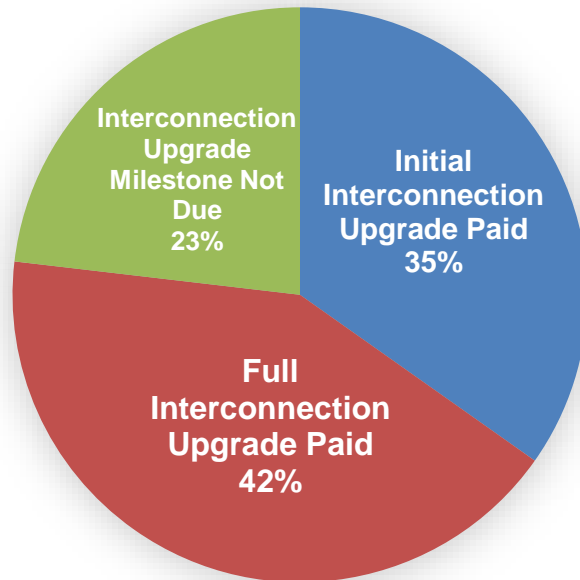
Includes Competitive Bid & MWB Projects since 2012

Interconnection Milestone Status - All C&I Pipeline



Interconnection Milestone Status - ROS CDG

	Initial Interconnection Upgrade Paid	Full Interconnection Upgrade Paid	Interconnection Upgrade Milestone Not Due
Capacity (MW)	263	318	175



Program Rule Revisions

Small Commercial

ROS

- Increase system cap from 200kW to 750kW
- 100% payment at PTO
- Increase project maturity requirements
- Eliminate blended incentive
- Potential adders

ConEd

- Consider combining both commercial programs
- Potential adders

LI

- Potential adders

Commercial & Industrial

ROS

- Increase minimum system size to 750kW
- Exclude new CDG applications in O&R
- Increase project maturity to 25% interconnection upgrade payment
- Eliminate Strategic Location, battery, energy efficiency adders
- Eliminate Track 2 project maturity
- Accelerate performance payment from 25/25/25/25 to 50/25/25
- Consider full assignment of project
- Limit DC to AC ratio

ConEd

- Consider combining both commercial programs
- Eliminate Strategic Location, battery and efficiency adders
- Eliminate Track 2 project maturity
- Accelerate performance payment from 25/25/25/25 to 50/25/25



Incentive Structure Revisions

Revision Purpose

- Determine incentive rates with more precision and greater synergies with VDER
- Revise approach to project maturity for a more stable MWB program
- Accelerate PBI incentive payments to lower financing cost
- Encourage certain types of projects with adders in response to market constraints
- Accelerate NYC solar market with richer and more simplified incentive structure

Rest of State Small Commercial

Current Block

Block	CBI (\$/W)		Block Volume (MW-dc)
	<50kW	50-200kW	
1	1	0.6	35
2	0.9	0.55	8
3	0.8	0.5	10
4	0.7	0.45	12
5	0.6	0.4	18
6	0.5	0.35	23
7	0.4	0.3	59
8	0.3	0.25	77
9	0.2	0.2	95
10	0.15	0.15	145

Proposed Option

Block	CBI (\$/W)	Block Volume (MW-dc)
8	0.45	40
9	0.35	65
10	0.25	90
11	0.15	157

Rest of State C&I

Current Block

Block	PBI (\$/W)		Block Volume (MW-dc)
	Volumetric	Monetary	
1	0.4	0.35	120
2	0.39	0.3	120
3	0.38	0.24	130
4	0.37	0.18	130
5	0.36	0.11	140
6	0.34	0.06	140
7	0.32	0.05	150
8	0.28	0.04	150
9	0.22	0.02	160
10	0.16	0.01	170
11	0.09	0.01	180

Proposed Options

Option 1		
Block	PBI (\$/W)	Block Volume (MW-dc)
12	0.28	90
13	0.23	110

Option 2		
Block	PBI (\$/W)	Block Volume (MW-dc)
12	0.25	205

ConEd Commercial

Current Blocks

Commercial Industrial		
Block	PBI (\$/W)	Block Volume (MW-dc)
1	0.63	15
2	0.61	20
3	0.59	20
4	0.57	25
5	0.55	25
6	0.51	30
7	0.46	30
8	0.39	35
9	0.33	35
10	0.26	40
11	0.20	45
12	0.13	50
13	0.07	55

Small Commercial			
Block	CBI (\$/W)		Block Volume (MW-dc)
1	1	0.6	6
2	0.9	0.55	4
3	0.8	0.5	7.5
4	0.7	0.45	15
5	0.6	0.4	10
6	0.5	0.35	15
7	0.4	0.3	35
8	0.3	0.25	45
9	0.2	0.2	73
10	0.15	0.15	101

ConEd Commercial - Combining SC and C&I into a Single MW Block Structure

Proposed Options

Option 1		
Block	CBI (\$/W)	Block Volume (MW-dc)
6	0.6	28
7	0.5	50
8	0.4	55
9	0.3	70
10	0.2	80
11	0.15	108
Total		391

Option 2- Capacity-based payment if under 200kW, performance-based if >200kW			
Block	(\$/W)	PBI (\$/W)	Block Volume (MW-dc)
6	0.6	0.4	28
7	0.5	0.35	50
8	0.4	0.3	55
9	0.3	0.25	70
10	0.2	0.2	80
11	0.15	0.15	108
Total			391

Adders for parking canopies, landfills, brownfields, and affordable housing

Proposed Incentive Adders

- Brownfields/Landfills: Additional 20% of applicable block incentive rate
- Affordable Housing: TBD
- Parking canopies (ConEdison and Long Island): Additional 50% of applicable block incentive rate

Next Steps

- Today's presentation is for discussion purposes and informational feedback only
- Please provide comment and feedback on the presentation provided today to commercial.industrialpv@nyserda.ny.gov by January 12
- NYSERDA will review comments and present the revised proposal as soon as possible thereafter in January
- Given time limitations on today's meeting, we are asking for developer suggestions and thoughts on the following slide:

Submit Your Ideas

- Program Rules:
 - Increase project maturity requirements in all programs (Increase project maturity to 25% interconnection upgrade payment)
 - System size modifications (ROS Small Commercial Increase system cap from 200kW to 750kW)
 - Accelerate performance payment from 25/25/25/25 to 50/25/25 in C&I
 - Incentive Cap in C&I (DC to AC ratio)
 - Combining both ConEd commercial programs
 - Eliminate blended incentive in ROS Small Commercial
- Program Structure:
 - Types of adders (Brownfields, Landfills, Building Mounted, Solar Canopies, Affordable housing, Solar + Storage) and their respective amounts
 - Incentive rates and block sizes
 - Should rates vary by metering type (CDG, RNM, on-site) and/or amongst the utilities service territories
 - Incentive structures (Declining blocks or single incentive rate in ROS)
- Transition mechanics and implementation processes
 - Projects that already have a NY-Sun award can't drop out of program and reapply to get a richer incentive



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Thank you for your participation!

Stakeholder documents and information:

<http://ny-sun.ny.gov/About/Stakeholder-Meetings.aspx>