Energy Storage Update



NEW YORK BATTERY AND ENERGY STORAGE TECHNOLOGY CONSORTIUM

> William Acker Central Hudson Gas & Electric Solar+ Summit March 2nd, 2023

NY-BEST Mission

To catalyze and grow the energy storage industry and establish New York State as a global leader in advancing energy storage as a key solution for a clean energy future.

We do this by:

- 1. Communicating information and facilitating connections
- 2. Accelerating commercialization
- 3. Educating policymakers and stakeholders
- 4. Promoting New York's intellectual and manufacturing capabilities and providing access to markets

More information at www.ny-best.org

New York Generation Growth



NEW YORK BATTERY AND ENERGY STORAGE

TECHNOLOGY CONSORTIUM

BES+



New York Energy Storage Roadmap

New York Climate Action Council identified need for substantially more energy storage deployment

- January 2022 Gov. Hochul increase storage deployment goal for 2030 to at least 6 GW
- NYSERDA and DPS worked with stakeholders to develop plan and program
- December 2022 released Roadmap



New York Energy Storage Roadmap

Program	MW	Funding Mechanism Recommended	Estimated Costs (000's)
Current/In development (awarded or contracted or installed)	1,300 MW	Original Roadmap funding	
Bulk	3,000 MW	NYSERDA procurements Index Storage Credit 15 year contract	\$474,000-1,186,000
Retail	1500 MW	Declining Block incentives Region-Specific	\$438,000
Residential	200 MW	Declining Block incentives	\$72,000
Total	6,000 MW		\$984,000-\$1,696,000



Proposed Bulk Program (> 5MW)

Innovative Index Storage Credit (ISC)

- NYSERDA Procurements similar to large scale renewables
- Developers bid a "Strike Price"
- Payments over 15 year contract is difference between the Strike Price and a "Reference Price"
- Structure reduces developer risk but developer still motivated to optimize project performance



Proposed Bulk Program (> 5MW)

Deployment

- Geographic distribution of procurements
- 4 hour and 8 hour procurements
- IGW per year of procurement starting in 2024



Proposed Retail and Residential Programs

NY-SUN style declining block grant

Retail: 375 MW of project each year 2024 - 2027

Residential: 13 MW in 2023, 27 MW each year 2024 - 2030

Roadmap



Other important components

- Long Duration Storage
- Storage-As-Transmission-Asset (SATA)
- Disadvantaged Communities and Environmental Justice

Interconnection

Present

- Hosting capacity maps have been extended to Energy Storage
- SIR allows unconstrained operation or operational constraints (Appendix K)
- ITWG discussions occurring on path forward
- ITWG/IPWG starting to consider flexible interconnections

Interconnection



Total Generation Capacity and Load for New York State



Peak Annual Load

——Interconnected Generation Capacity

Future

IX Generation
Capacity to Peak
Load ratio going
from 1.4 to 3

 Future Capacity not used simultaneously

 Need to change how we address Interconnection and Grid Planning

Source: NY CAC Scoping Plan, E3 Integration Analysis, Scenario 1, December 2022

Questions and Thank You

Capture the Energy 2023 Albany, NY May 16th – 18th



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