

JOINT UTILITIES OF NEW YORK

DISTRIBUTED SYSTEM PLATFORM (DSP) ENABLEMENT QUARTERLY NEWSLETTER

QUICK HITS

- Results are available from the Joint Utilities 2020 DSIP survey.
- Gov. Cuomo highlights new plans to address climate change in the 2020 State of the State.
- The Orange & Rockland DER data platform is now operational.
- DPS Staff issued a whitepaper on the net energy metering “NEM” successor tariff on December 9, 2019 for mass market customers.
- The Public Service Commission (PSC) issued an order on energy efficiency (EE) and electrification portfolios on January 16, 2020.
- FERC partially approved the NYISO’s proposed energy storage resource tariff.
- DER interconnection in New York continues to grow rapidly.
- The PSC approved a joint petition to update the NY Standardized Interconnection Requirements (SIR).
- Progress continues to meet the State’s energy storage target of 1,500 MW by 2025 and up to 3,000 MW by 2030.

More details on [Pages 2, 3, 4, and 5](#).

FEATURED DEVELOPMENTS

- The Joint Utilities are working toward achieving the state’s energy targets outlined in the Climate Leadership and Community Protection Act (CLCPA). [Page 5](#).
- The Joint Utilities release Stage 3 hosting capacity maps: what they are and how they provide developers with more information to inform siting decisions for DER. [Pages 6 and 7](#).
- The Joint Utilities are charged up to support increased deployment of electric vehicle (EV) DC fast chargers. [Page 7](#).



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QUICK HITS

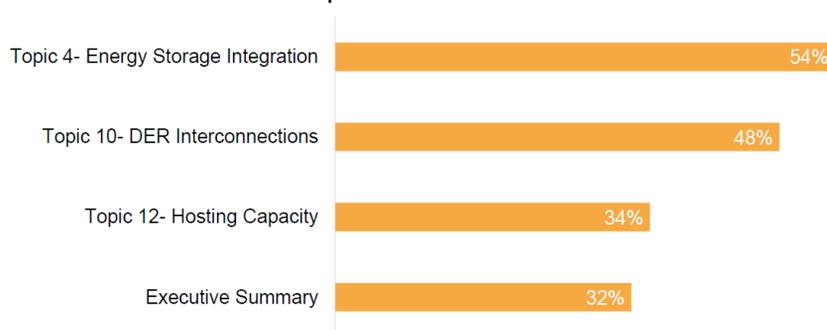
- Stakeholders to Joint Utilities: Here's What We Want in DSIPs:** In the fall of 2019, the Joint Utilities recently conducted a survey of hundreds of active REV stakeholders to ask Ed Koch's famous question: "How are we doing?" The answer was, overall, "pretty well." Stakeholders said that the Distributed System Implementation Plan filings, or DSIPs, are generally useful and well structured. Stakeholders would like the 2020 DSIPs to largely remain the same format as the last set of filings in 2018, but to focus more on emphasizing key changes from the last DSIP, provide references to information that is updated more regularly than the biennial DSIP cycle, and streamline the presentation of information to create a more succinct document. The Joint Utilities conducted a webinar on December 11, 2019 and presented this feedback (results can be seen in [this summary slide deck](#) on the Joint Utilities website) and are now working to implement those changes. This newsletter is one of our changes! We will be sending quarterly updates focusing on DSP issues.

Stakeholders use DSIP most for 2 things:

1. Understanding near-term commercial opportunities

2. Understanding overall utility plans and timelines

Top 4 DSIP Sections of Interest



58%

use the DSIP as a reference on utility implementation plans and timelines to return to periodically

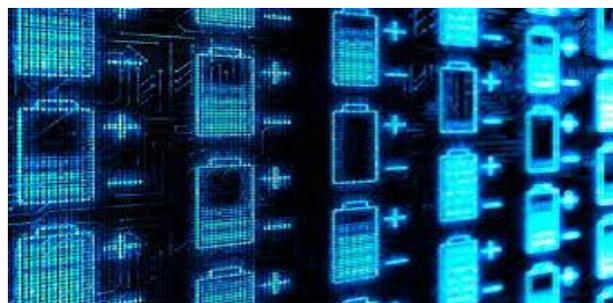
4 out 5

stakeholders are getting all of the information they need.

- Gov. Cuomo's State of the State Adds to Momentum: In his 2020 State of the State speech,** Governor Cuomo announced additional efforts to further the State's leadership in expanding clean energy and addressing climate change. including driving the electric vehicle market forward by requiring investments in electric buses, continuing investments in charging infrastructure, and supporting new investments through \$100 million in New York Green Bank financing. Separately, the Governor announced plans for an expansion of transmission capacity to help deliver renewable and hydropower capacity from upstate New York to other parts of the state. These efforts, along with others announced during his address, build upon the existing momentum from the recently enacted CLCPA (see [Page 5](#)). The Joint Utilities have been working to expand the EV market and fast charging infrastructure (see [Page 7](#)) and are looking forward to working to support these new initiatives.

QUICK HITS (CONTINUED)

- **Orange & Rockland Helps Stand Up New DER Data Platform:** As a result of the [December 2018 Energy Storage Order](#), DPS Staff, NYSEDA and Orange & Rockland collaborated on the development of a pilot data platform. This Integrated Energy Data Resource enables a granular level of data analysis for developers and customers to deploy DERs in locations that can best meet electric system and customer needs. NYSEDA contracted with Trove to build and host a pilot platform with Orange & Rockland as the partner utility. After soliciting stakeholder input at the end of 2019, the pilot platform is now operational. Future plans to expand the pilot are being discussed. More information can be found on [O&R's website](#).
- **NEM Successor Tariff Proposal:** DPS Staff issued a [whitepaper](#) on December 9, 2019, with recommendations on the future design of the NEM successor tariff for mass market customers. Comments on DPS Staff's proposal are due on February 24, 2020 and will be filed under the [VDER proceeding](#). The deadline for implementing the NEM successor tariff was extended to January 1, 2021. DPS Staff recommends retaining NEM with a Customer Benefit Contribution and finalizing more sophisticated rate designs for future implementation when more Advanced Metering Infrastructure (AMI) data is available.
- **Updating the New York SIR:** In December 2019, the Public Service Commission approved a joint petition by the Joint Utilities and other stakeholders to update the SIR which included: material modification policy, an updated Appendix K to streamline interconnection rules for energy storage systems, revised voltage flicker requirements to accurately reflect expected system performance regarding voltage fluctuation, and additions to Screen B of the Preliminary Screens (Appendix G) for projects getting connected to utility's secondary network system.
- **Capturing the Potential of Energy Storage.** The Commission's December 2018 Storage Order established a goal of 1,500 MW of energy storage by 2025 ([Case 18-E-0130](#)). The Storage Order required Central Hudson, NYSEG/RG&E, National Grid, and Orange & Rockland to procure the dispatch rights to at least 10 MW of storage each – and Con Edison to procure 300 MW – through a competitive process. All procured systems must be operational by the end of 2022. The Energy Storage Order also established a goal of 3,000 MW of storage by 2030, which was then codified into law as part of the 2019 CLCPA (see Page 4). The utilities continue collaborating with DPS Staff and NYSEDA on their bulk procurement efforts. Bid responses to the Central Hudson/RG&E and National Grid RFPs were due January 31, 2020.

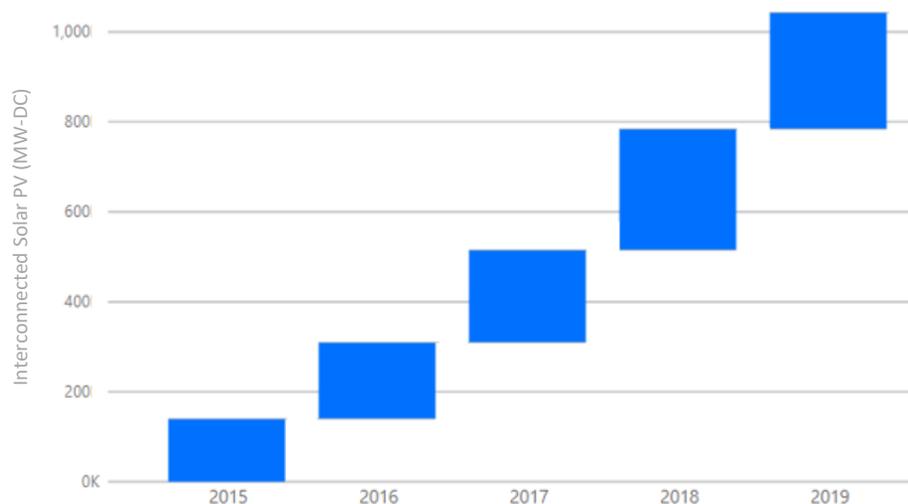


FERC Weighs in on Storage, DER Aggregations in New York: FERC issued an [order](#) on December 20, 2019 partially approving NYISO's proposed energy storage resource tariff. FERC also [approved](#) on January 23, 2020 NYISO's proposal for a DER aggregation participation model, which is scheduled to go live in Q4 2021. Both orders will inform ongoing JU efforts to integrate these resources and maximize opportunities for wholesale market participation.

QUICK HITS (CONTINUED)

- The Future of the Distribution Market Design:** DPS Staff is leading a Market Design and Integration Working Group (“MDIWG”) that is working toward developing a model that enables DER to participate in wholesale and distribution markets. The group is currently focusing on defining the functions that various entities may serve once a distribution-level market is established. During the first quarter of 2020, the Design Team (a subset of the MDIWG) expects to transition to a focus on products and services the market may provide, as well as roles and responsibilities of the entities that will participate in the market. Stakeholders interested in following the progress of this group, including participating in the working group, can email info@jointutilitiesofny.org for more information.
- Joint Utilities Connect Solar:** According to figures reported by [NYSERDA](#), as of year end 2019, the Joint Utilities have interconnected an estimated 1,043 MW (DC) of PV throughout their service territories during the past five years (2015 – 2019). The Interconnection Technical Working Group (ITWG) and the Interconnection Policy Working Group (IPWG) are key venues to foster the collaboration among the Joint Utilities, Staff and stakeholders. The Joint Utilities are continuing to work collaboratively within the ITWG and IPWG to develop innovative solutions to address additional complexities introduced by energy storage and build a strong foundation for future storage, solar, and hybrid (solar + storage) interconnections in New York.

Total Solar PV Capacity Installed within the Joint Utilities’ Service Territories (2015-2019)



- New Energy Efficiency Order:** A PSC order in the Comprehensive Energy proceeding was issued on January 16, 2020. This order provides direction for the Joint Utilities and NYSERDA in their joint development of implementation plans on heat pumps and low- and moderate-income programs. The Joint Utilities and NYSERDA continue to advance implementation plan efforts in coordination with DPS Staff, including how to address potential implications from the timing of the upcoming order for the planned transition of heat pump programs from NYSERDA to the Joint Utilities, slated to occur on April 1, 2020.

QUICK HITS (CONTINUED)

- **Non-Wires Alternative Solutions:** As the utilities continue identifying potential non-wires opportunities, they are posting pertinent information for stakeholders on the [Joint Utilities website](#) and individual utility websites. Additional information can also be found on [REV Connect](#).
- **Working Toward Improved Standby Rates:** The Joint Utilities are hard at work on the [proceeding](#) related to improved Standby Rates, which will be made available on an optional basis to all customers. DPS Staff held a technical conference in November 2019 at which the utilities explained the methodologies behind their allocated cost of service studies (ACOS), which dictate the split of shared and local costs for standby rates. The Joint Utilities filed follow-up detail and narrative in DMM on January 17, 2020.
- **Consolidated Edison's Electric & Gas Rate Investment Plan: Approved.** The three-year investment plan was [approved by the Public Service Commission](#) on January 16, 2020. The plan provides major funding for clean energy programs and energy efficiency in addition to electric and gas service reliability:
 - \$700 million over next three years for energy efficiency programs
 - \$3 billion each year for electric and gas service reliability

MEETING THE CLCPA'S AMBITIOUS ENERGY TARGETS

The Climate Leadership and Community Protection Act ([CLCPA](#)) established ambitious targets for electricity sector emissions reduction, including:

- 70% renewable energy by 2030, and 100% emissions free electricity by 2040
- 9,000 MW of offshore wind by 2035
- 6,000 MW of solar by 2025
- 185 trillion British thermal units (BTUs) energy consumption reduction from the state's 2025 forecast
- 3,000 MW of energy storage by 2030

The Joint Utilities have been successful in recent years in advancing clean energy goals. Within the last five years (see previous page) utilities have connected significant levels of solar PV generation and other distributed energy resources (DER). They have offered smart energy efficiency programs to all customers, which already save enough electricity to power 90,000 homes.

AMI, evolved forecasting and planning, streamlined interconnection, and enhanced coordination across the Transmission-Distribution (T-D) interface are foundational to achieving these targets on time and at the lowest cost to utility customers. We know that there remains a great deal of work to do, and DSIP filings reflect the investment of time and thought that stakeholders and utilities have collaboratively put toward DSP enablement activities in recent years. These are investments that will pay off in reaching the state's goals. The Joint Utilities are actively evaluating the alignment of DSP efforts with CLCPA objectives and will provide more details in the individual utility June 2020 DSIPs.

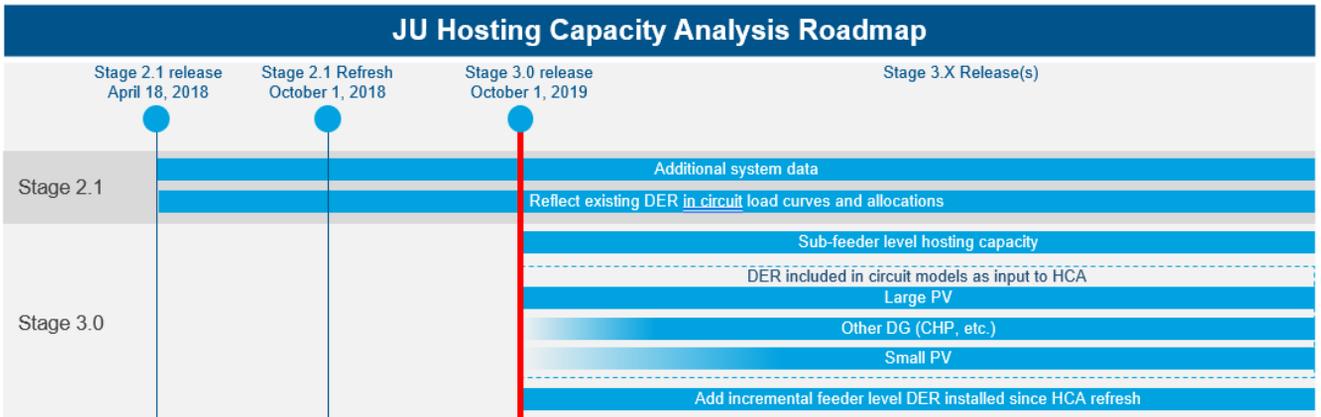
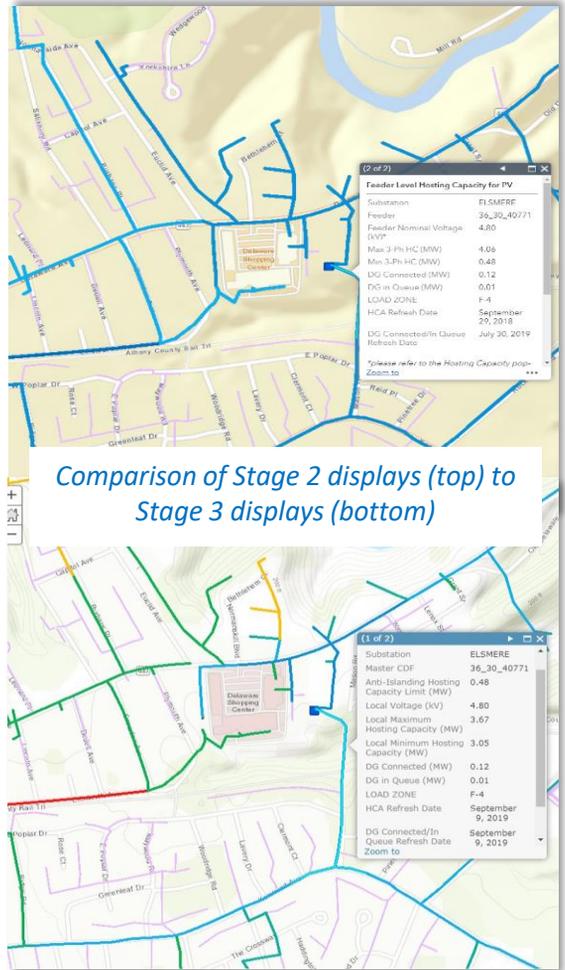
HOSTING CAPACITY: ENHANCING MAPS, DELIVERING MORE INFORMATION, AND LEARNING WITH STAKEHOLDERS

The Joint Utilities have been developing increasingly sophisticated and detailed hosting capacity displays under a roadmap established in their 2016 Supplemental DSIP. The Joint Utilities released Stage 3 on October 1, 2019, greatly expanding the granularity of the displays to the sub-feeder-level. Each circuit's hosting capacity can now be viewed at up to eight distinct segments, building on Stage 2 which provided a single minimum and maximum hosting capacity value. Existing DG is also now explicitly modeled.

Following the release of the Stage 3 displays, the Joint Utilities held three stakeholder engagement sessions in Q4 2019. The sessions helped provide a greater understanding of further development areas for future releases.

The Joint Utilities plan to hold at least two additional stakeholder sessions and conduct a stakeholder survey in 2020 to gain further feedback on stakeholder needs and use cases. The sessions in 2020 will aid in the development of the Stage 3.X updates and the longer term roadmap.

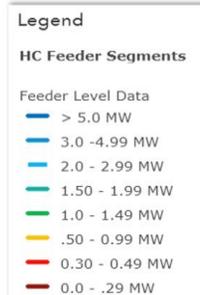
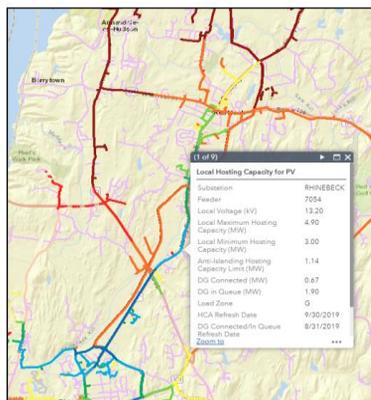
More information with links to each utility's hosting capacity portal can be found [here](#).



Source: Joint Utilities Hosting Capacity Stakeholder Engagement Session September 2019 [Slides](#)

HOSTING CAPACITY (CONTINUED)

Stage 3 Sub-feeder Level Hosting Capacity Displays Respond to Stakeholder Requests, Show Up to Eight Distinct Segments



CHARGING FORWARD WITH ELECTRIC VEHICLES IN NEW YORK

DPS Staff Whitepaper proposes a statewide Make-Ready Program: The [whitepaper](#), released on January 13, 2020 recommends a Make-Ready Program that would provide incentives to light duty electric vehicle supply equipment and infrastructure (EVSE&I) for both Level 2 and Direct Current Fast Charger (DCFC) stations to accelerate charging infrastructure deployment. Staff is calling for comments on the program in addition to utility roles related to other aspects of EV adoption. An [EV Make-Ready Conference](#) and an [EV Readiness Working Group](#) will be held on Wednesday March 18, 2020 in NYC – register by March 11, 2020.

DCFC Incentive Programs: Effective February 7, 2019, the Commission authorized an incentive program for DCFC charging stations. For details and incentive levels by utility, please visit the [Joint Utilities EV webpage](#).

LINKS TO UTILITY ELECTRIC VEHICLE PORTALS

[National Grid](#)

[Orange & Rockland](#)

[Central Hudson](#)

[Consolidated Edison](#)

[NYSEG](#)

[RG&E](#)



Image provided by Orange & Rockland

LINKS TO UTILITY DATA PORTALS

[National
Grid](#)

[Orange &
Rockland](#)

[NYSEG](#)

[RG&E](#)

[Central
Hudson](#)

[Consolidated
Edison](#)



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Click on the logo for
the Joint Utilities
System Data portal!

Joint Utilities of New York System Data Portal

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| <input type="checkbox"/> Distributed System Implementation Plans | <input type="checkbox"/> Load Forecasts |
| <input type="checkbox"/> Capital Investment Plans | <input type="checkbox"/> Historical Load Data |
| <input type="checkbox"/> Planned Resiliency / Reliability Projects | <input type="checkbox"/> NWA Opportunities |
| <input type="checkbox"/> Reliability Statistics | <input type="checkbox"/> Queued DG |
| <input type="checkbox"/> Hosting Capacity | <input type="checkbox"/> Installed DG |
| <input type="checkbox"/> Beneficial Locations | <input type="checkbox"/> SIR Pre-Application Information |

NOTABLE DATES



February

- 3rd: Utility net crediting model implementation plans
- 6th: Interconnection Technical Working Group (ITWG) meeting; PSC session
- 7th: Standby Rate Design Stakeholder Forum
- 24th: Comments due on mass market NEM successor tariff white paper

March

- 6th: Comments due on EVSE&I Whitepaper
- 18th: Make-Ready Conference and EV Readiness WG

June

- 30th: Utilities file 2020 DSIP Update reports

View our monthly calendar online: jointutilitiesofny.org/stakeholder-engagement/

CONNECT WITH US

We're interested in hearing from you. Do you have questions, comments, or ideas? Email us at info@jointutilitiesofny.org. And for more information on updated data and other useful references, be sure to visit the Joint Utilities website at www.jointutilitiesofny.org.

