

JOINT UTILITIES OF NEW YORK

DISTRIBUTED SYSTEM PLATFORM (DSP) ENABLEMENT QUARTERLY NEWSLETTER

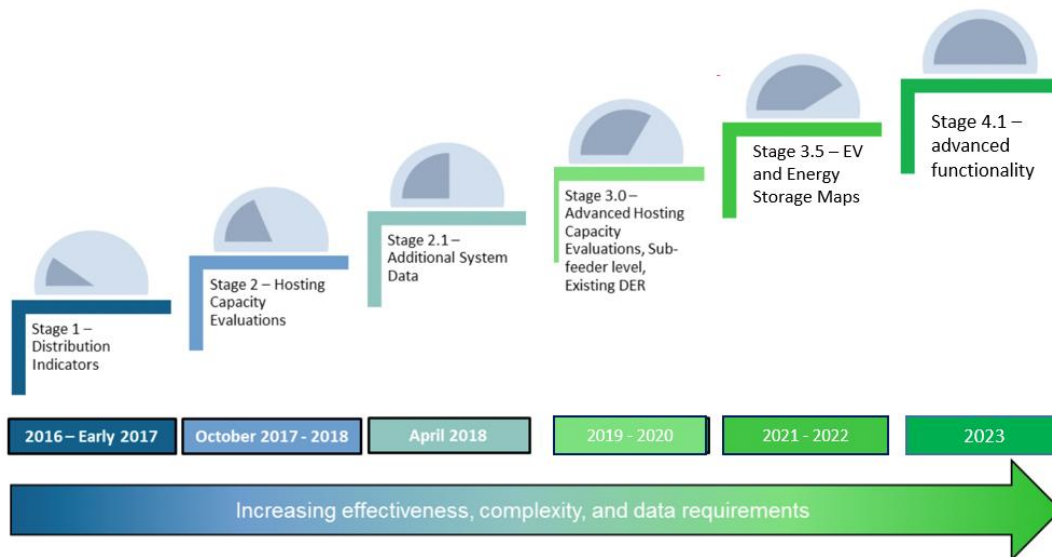
WHAT'S INSIDE

Progress Continues for Hosting Capacity Maps	2-5
JU Prepare for the Launch of NYISO's 2019 DER Participation Model	5-6
Changes ahead for EV charging in New York	6-8
Information Sharing Advances	9
Joint Utilities Discuss Changes to the SIR and Examine UL CRD for Multimode	10-11
Tools and Informational Sources	12-14

Progress Continues for Hosting Capacity Maps

Overview

Hosting capacity (HC) is defined as the estimated capacity of amount of distributed energy resources (DERs) like solar and storage that can be added to the electric grid without compromising power quality or reliability, and without the need for infrastructure upgrades. For the past eight years, the Joint Utilities have been working from a plan – our Hosting Capacity Roadmap – which represents our strategic framework for deploying increasing HC map functionality. By incorporating input from various stakeholders, the Joint Utilities (JU) have been able to better understand which added features and information would most enhance existing Photovoltaic (PV) HC Maps and Storage (ESS) HC Maps. These efforts have contributed to notable progress through the stages outlined in the overall HC Roadmap shown below.



Ongoing Progress

In 2023, the JU hosted two HC stakeholder sessions, advanced to stage 4.1 of the HC roadmap, announced plans to publish Transmission node PTIDs, reevaluated the HC maps' refresh cycle, continued collaboration with the Interconnection Working Group to advance

HC map functionality, and worked with DPS Staff to prepare for the publication of electrification maps coming in January 2024.

Stage 4.1 Overview: Advanced Functionality

Based on stakeholder feedback, in 2023, the JU published HC updates including:

- Sub-feeder level data for storage HC map
- DG connected since last HC analysis refresh
- Nodal constraints (criteria violations on PV and storage maps)
- Cost Share 2.0 items in tabular or geographic format on PV and Storage maps¹
- Links and/or instructions to access 8760 data
- Storage HC data made available via the API

Transmission Node PTIDs

By the end of December, all the utilities will publish Transmission Node PTIDs. This is useful because NYISO expects to go live with their DER aggregation market in the near term, and this information will be required from market participants seeking to enroll in NYISO's market. . The nodes are being published on the HC maps in alignment with NYISO's progress as another means by which aggregators can access this information.

¹ Draw-down items associated with the Cost Share 2.0 Order include: (a) substation – a planned upgrade's location; (b) hosting capacity upgrade – anticipated impact of project in terms of capacity availability; (c) anticipated service date – The in-service date of the upgrade; and (d) estimated cost – known or estimated costs of that capacity.

Substation Level Data	
Feeder	36_17_33351
Substation/Bank Name	SHERMAN CRCC TB 1
Substation/Bank Installed DG (MW)	1.76
Substation/Bank Queued DG (MW)	8.55
Total Substation/Bank Installed and Queued DG (MW)	10.31
Substation/Bank DG Connected Since Last HCA refresh (MW)	0.00
Substation Refresh Date	3/15/2023
Substation/Bank Peak (MW)	6.60
Substation/Bank Thermal Capacity (MW)	12.48
Substation Backfeed Protection	No
Estimated 3V0 Protection Threshold (MW)	0.00
HCA Refresh Date	3/30/2023
NYISO Load Zone	E-3
Operating Company	0.00
Transmission Node PTID	109202

Updating the PV and ESS HC Map Refresh Cycle

Every year the JU refresh the PV HC Maps in October and the Storage HC maps in April. Starting in 2024, on an annual basis, the JU will refresh both the PV and Storage HC Maps in the spring to enable resource alignment.

Collaboration with Interconnection Technical Working Group (ITWG)

To maximize the value of the HC portal, the data shared on the portal should have a clear linkage to the CESIR & SIR. The Integrated Planning Working Group asked the Interconnection Technical Working Group (ITWG) to discuss and align upon use-cases with developers with the goal of adding functionality to the HC maps. The JU has now presented their preliminary energy storage schedules to stakeholders through the ITWG, received feedback, and are currently reviewing. For more information, see "Joint Utilities Discuss Changes to the SIR and Examine UL CRD for Multimode".

Coming Soon: Electrification Maps

The Energy Efficiency and Building Electrification Order issued and effective on July 20, 2023 directed the expansion of the EV Load Capacity Maps to include heating electrification. In compliance with these orders, the JU collaborated with DPS Staff to develop Electrification Maps for release in January 2024.

The Joint Utilities will publish circuit level electrification maps. Users will be able to toggle between a winter and summer view, which is helpful for seeing the impact of installing different technologies (note that the color scheme will be the same for winter and summer; the level of capacity is the only difference that will be presented). The electrification maps will retain all the functionality of the EV maps, such as the environmental locations.

JU Prepare for the Launch of NYISO's 2019 DER Participation Model

The Joint Utilities continue to make progress on readiness activities pertaining to the NYISO DER Market Participation Model Launch (DER market launch). . The Joint Utilities continue to join bi-weekly workshops with the NYISO and the State Commission Staff to advance market readiness by resolving topics pertaining to DER participation. Most recently, the Joint Utilities have worked on the following items:

- Billing and crediting workflows and the associated tariff change process
- Registration and enrollment processes
- Settlement issues
- Meter change-out workflows, requirements, and process
- Changes to NYISO manuals

The Joint Utilities also recently held a detailed discussion on the topic of metering for DER, and access to NYISO T-node information for DER aggregators through utility hosting

capacity maps. The discussion on metering clarified the roles of metering authorities and meter service entities (MSEs), as expected by NYISO. Additionally, the utilities also demonstrated to NYISO how DER Aggregators could obtain information on NYISO T-nodes from the public facing utility hosting capacity maps. DER Aggregators will need to check for and mention the appropriate T-node number when submitting the registration package to NYISO for an aggregation.

Separately, the Joint Utilities are implementing processes and procedures that will support the DER market launch and transition participating customers to appropriate requirements such as metering and tariffs, as well as DER Aggregator information pages or portals.

Additionally, the Joint Utilities continue to participate in and support NYISO working groups, such as the MIWG and ICAPWG, as needed.

Changes ahead for EV charging in New York

EV Make-Ready Program Gets Recharged

At the PSC session on November 16, the Commission issued an [Order approving Midpoint Review Whitepaper's Recommendations with Modifications](#), the final stage of the midpoint review of the EV Make-Ready Program. The Order makes adjustments to the program for its second half of the program, including increasing the overall budget to \$1.243B (an increase of \$542M), adjusting the target number of EV charging stations to be installed, enhancing eligibility for medium- and heavy-duty charging projects, and authorizing new initiatives within the Make-Ready program. It also enhanced the opportunities for the program to impact disadvantaged communities. DPS Staff held a stakeholder webinar on December 21 to provide an overview of the content of the Order. Stakeholders interested in attending can visit the [announcement](#) for the attendee link.

Commission Approves Components of EV Rate Alternatives Proceeding

On November 20, the Commission approved an Order Implementing Immediate Solutions Programs as part of the Proceeding to Establish Alternatives to Traditional Demand-Based Rate Structures for Commercial Electric Vehicle Charging. This Order authorized a 50% Demand Charge Rebate available to customers installing commercial EV charging in upstate utility service territories or publicly accessible fast charging stations in downstate utilities. The rebate will be available starting on January 19, 2024 and will continue until the utilities implement an EV phase-in rate, which is pending Commission approval. The Order also authorized a Commercial Managed Charging Program for Con Edison and Orange & Rockland customers. This program offers a peak avoidance incentive and an overnight off-peak charging incentive to commercial customers and begins on January 19th 2024. Finally, the Order authorized the end of the DCFC Per Plug Incentive program in all utility service territories as well as the EV Quick Charging Station Program in Con Edison's service territory. Future authorizations expected in this proceeding include commercial managed charging programs in upstate utility service territories, incentive programs for load management technologies, and the EV phase-in rate to replace the Demand Charge Rebate.

EV Technical Standards Working Group Kicks-off Accuracy Testing Implementation

As part of the residential managed charging programs, the Joint Utilities have been directed to report on the accuracy of EVSE and EV telematics in collecting charging data. To conduct this testing, the Joint Utilities have partnered with the Electric Power Research Institute (EPRI). On Tuesday December 12, Staff convened a session of the Technical Standards Working group (TSWG) to share with stakeholders the progress that has been made so far and to outline next steps for the testing process. The session included introductions of the EPRI team involved in the testing, a presentation by the Joint Utilities about the process and

goals ahead, and the opportunity for stakeholders to provide feedback. The recording and presentation materials can be found on DMM under Case 22-02356 under Case 22-02356



Information Sharing Advances

Utilities Collaborating to Support State Platform for Energy Data

Since 2021, the Joint Utilities of New York have been supporting NYSERDA's implementation of New York's statewide Integrated Energy Data Resource (IEDR) Platform. The IEDR aims to provide access to useful energy data and information to support market and energy customers. The JU continues to collaborate with the Department of Public Service (DPS) Staff, the New York State Energy Research and Development Authority (NYSERDA), as the Program Sponsor, the IEDR Program Team, and the IEDR Development Team to meet the program's requirements.

In 2023, the IEDR was able to launch the Initial Public Version of the IEDR platform, publishing an initial set of use cases. Since that time, the JU have been supporting the IEDR in its next round of functionality deployment. In October, the JU received a response to a [December 2022 petition](#) that sought commission clarification regarding the direct sharing of protected customer data with the IEDR Program Administrator. The JU will continue its work in support of this important New York State initiative.

Progress on milestones can be followed online through [NYSERDA](#), and regulatory filings can be found in [Case 20-M-0082](#) *Proceeding on Motion of the Public Service Commission Regarding Strategic Use of Energy Related Data*.

Joint Utilities Discuss Changes to the SIR and Examine UL CRD for Multimode

Building on recent efforts with developers on enabling battery storage penetration, the JU are examining ways to improve the efficiency of the battery storage interconnection process. Most recently, the JU have identified and implemented several proposed edits to Appendix K (Energy Storage System Application Requirements) of the New York Standardized Interconnection Requirements (SIR) document. These edits are intended to make clearer the data and information that must be provided by developers at the time of application submission. The clarity of information submitted will in turn aid in improving the efficiency of interconnection studies. Some of the edits identified by the JU include:

- Addition of a new table to denote whether the proposed battery system will be a stand – alone, AC coupled, or DC coupled system, with relevant project details.
- Addition of a new table for applicants to mention the auxiliary loads (HVAC, SCADA etc.) that will be used at the project site.
- Addition of new table that for applicants to easily specify their preferred charging and discharging windows for battery assets.

The JU have also had discussions recently regarding an increase in interconnection applications wherein DERs propose to interconnect with multimode inverters (multimode inverters are those that are capable of exporting power to the utility grid, as well as serving local load only) and microgrid interconnect devices (MIDs). These systems are capable of intentionally forming and operating in islanded mode. However, at present, no tests exist in the SIR to ensure that such islanding functionality will not compromise the safety and reliability of the electric system, and not pose a risk to utility workers.

As a result, the JU explored a requirement for appropriate Underwriters Laboratories (UL) certifications for the DER multimode inverters and MIDs. The JU's initial hypothesis was that

the UL Certification Requirements Decision (CRD) for Multimode is capable of testing for backfeed prevention from DERs during intentional island conditions. Consequently, the JU discussed this topic with UL and with the authors of the CRD. UL validated the JU's hypothesis that the UL CRD for Multimode certification will test the capability of DER to not inadvertently export power to the grid during an intentional island condition. Based on these discussions, the JU have aligned on a requirement that new multimode inverters with MIDs interconnecting to the distribution system must be certified to UL CRD for Multimode. The JU have prepared a short memo to justify and discuss this requirement with DPS Staff and Industry. The JU will also make edits to the SIR to include this requirement.

Tools and Informational Sources

<p>Advanced Forecast</p>	<p>Joint Utilities Joint Utilities: Overview of Currently Accessible System Data Joint Utilities: Load Forecasts Joint Utilities: Historical Load Data</p>				
<p>Beneficial Locations</p>	<p>Joint Utilities Joint Utilities: Beneficial Locations</p>				
<p>Customer Data</p>	<p>Central Hudson Central Hudson: Privacy Policy</p>	<p>Con Edison Con Edison: Customer Energy Data</p>	<p>National Grid National Grid: NY System Data Portal</p>	<p>NYSEG RG&E NYSEG: Your Energy Data</p>	<p>O&R O&R Information on Requesting Aggregate Whole Building Data O&R Energy Service Company EDI O&R New York Rates and Tariffs O&R Share My Data</p>
<p>DER Integration & Inter-connection</p>	<p>Joint Utilities Joint Utilities: Distributed Generation Joint Utilities: Interconnection Joint Utilities: SIR Pre-Application Information</p>				
	<p>Central Hudson Central Hudson: Distributed Generation Homepage Central Hudson: Interconnection Queue</p>	<p>Con Edison Con Edison: Private Generation Energy Sources</p>	<p>National Grid National Grid: Systems Data Portal National Grid: Interconnection</p>	<p>NYSEG RG&E A Developer's Guide to the NYSEG/RG&E Interconnection On-line Application Portal NYSEG - Online Portal RG&E - Online Portal NYSEG - Queue RG&E - Queue SIR Inventory requests: NYRegAdmin@avangrid.com</p>	<p>O&R O&R: Distributed System Platform O&R Private Generation Energy Sources</p>

Energy Efficiency	Central Hudson Central Hudson: Energy Efficiency	Con Edison Con Edison: Energy Star	National Grid National Grid: Energy Savings Programs	NYSEG RG&E NYSEG: Smart Energy RG&E: Energy Efficiency Incentives	O&R O&R: Energy Efficiency Rebates
Energy Storage	Central Hudson Central Hudson: Projects	Con Edison Con Edison: Energy Storage	National Grid National Grid: Battery Programs	NYSEG RG&E NYSEG RG&E: Energy Storage Service Agreement	O&R O&R Private Generation Tariffs
EV Integration	Joint Utilities Joint Utilities: EV Programs Joint Utilities: Approved Contractor List with New Filter Capabilities				
	Central Hudson Central Hudson: EV Homepage	Con Edison Con Edison: Electric Vehicles	National Grid National Grid: Upstate NY Electric Vehicles Hub	NYSEG RG&E NYSEG: Electric Vehicles RG&E: Electric Vehicles	O&R O&R Electric Vehicles Information O&R Electric Vehicle Guest Drive Event Video
Hosting Capacity	Joint Utilities JU Utility Specific Hosting Capacity				
	Central Hudson Central Hudson: Hosting Capacity Maps	Con Edison Con Edison: Hosting Capacity	National Grid National Grid: ESRI Portal	NYSEG RG&E NYSEG/RGE Hosting Capacity Map	O&R O&R Hosting Capacity and System Data
NWAs	Joint Utilities Joint Utilities: Utility-Specific NWA Opportunities				
	Central Hudson Central Hudson: NWAs	Con Edison Con Edison: Non-Wires Solutions	National Grid National Grid: NWA	NYSEG RG&E NYSEG - Non-Wires Alternatives RG&E - Non-Wires Alternatives	O&R O&R NWA Opportunities Non-Wires Alternatives Opportunities Portal

Progressing the DSP

Joint Utilities

[Joint Utilities: Utility DSIPs](#)

[Joint Utilities: Capital Investment Plans](#)

[Joint Utilities: Electric Reliability Reports](#)