

JOINT UTILITIES OF NEW YORK

DISTRIBUTED SYSTEM PLATFORM (DSP) ENABLEMENT QUARTERLY NEWSLETTER

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NY PSC Launches the Grid of the Future Proceeding

Over the past decade, the New York Public Service Commission has made significant strides in transforming the state's electric utility industry under the Reforming the Energy Vision (REV) Proceeding ([Case 14-M-0101](#)). The Commission set clear policy objectives, directly created programs and initiatives, and approved rate plans that provided substantial funding for technological advancements in grid modernization.

Building upon this prior order to better align the state's regulatory structure and guiding principles, the Commission announced on April 18, 2024, an Order Instituting a Proceeding on the Motion of the Commission regarding the Grid of the Future ([CASE 24-E-0165](#)). The objective of the new proceeding is "to unlock innovation and investment to deploy flexible resources such as DERs and virtual power plants (VPPs) - to achieve our clean energy goals at a manageable cost and at the highest levels of reliability, and to enable a comprehensive approach that incorporates critical investments in responsive loads and distributed generation as well as investments in the generation, transmission, and distribution systems."

The Grid of the Future proceeding is in line with the State's commitment to carbon reduction under the Climate Leadership and Community Protection Act (CLCPA). The CLCPA sets ambitious targets for reducing greenhouse gas emissions: a 40% reduction in economy-wide greenhouse gas emissions compared to a 1990 baseline by 2030, and an 85% reduction by 2050 ([Environmental Conservation Law \(ECL\) §75-0107](#)). The Commission is tasked with establishing a program that ensures that by 2030, at least 70% of the State's electrical demand is met by renewable energy sources (the '70 by 2030' Target). Moreover, by 2040, the statewide electrical system is projected to be zero emissions (the 'Zero-Emissions by 2040' Target). The flexibility services that DERs and VPPs provide would play a critical role in achieving this. In this regard, the Grid of the Future proceeding will explore

the long-term potential of flexible resources enabled by investments in both the distribution system and the customer's end of the meter.

Process for Developing the New York Grid of the Future Plan (Plan)

The Grid of the Future Order directs the DPS Staff to create two documents. First, the Commission directs DPS staff to complete the and file a "Grid Flexibility Study" (Study) by November 15, 2024, to identify potential scale and value of flexible resources. Leveraging the findings from the Study, DPS Staff will file the first iteration of the "New York Grid of the Future Plan" (Plan) by December 31, 2024. Throughout the process, the Commission will seek engagement from stakeholders to gather their input. This feedback will be incorporated into the second iteration of the Plan to be filed by the end of 2025.

Utilities Seek Make-Ready Program Changes to Reduce Barriers to Deploying EV Charging Infrastructure; Support Schools in the EV Transition

Petition Extension Request

In March, the utilities submitted a petition for changes to the communications standards required for EVSE installed under the Make-Ready Program. In the interim of the Commission's decision on the petition, the utilities requested a time extension request on May 10, which requested that the communications standards requirements that were meant to go into effect in November of 2024, be deferred until the Commission issues a final ruling on the petition. The extension request was granted on May 23, which has enabled the utilities to continue implementing their Make-Ready Programs without the possibility that awards made in this interim period would later be determined ineligible or noncompliant with the rules. For more information and EVSE eligibility guidelines for the Make-Ready Program, please visit the [JU website](#).

Electric School Bus Capacity Study and Technical Conference

New York's 2022-2023 State Budget formalized the Electric School Bus Mandate, which requires all new school bus sales in the state to be zero-emission vehicles by 2027 and 100% of school buses in use in the state to be electric by 2035. To prepare for these deadlines, the Utilities were directed by the [Commission's Make-Ready Program Midpoint Review Order](#) to conduct an analysis of electric capacity at school bus depot sites throughout the state. The utilities presented the findings of this study at a technical conference on May 31 alongside presentations from DPS, NYSERDA, and NYSED. The technical conference highlighted several important resources for school districts to take advantage of:

- **Fleet Electrification Plan services** and the **NY School Bus Incentive Program (NYSBIP)** from NYSERDA
- Information about **State Aid** reimbursements for school bus electrification from NYSED
- **MHD Pilot Incentives, operating cost relief, fleet assessment services,** and other tools and support from the Joint Utilities

The utilities encouraged school districts to get in touch to start planning as soon as possible. School districts can reach out to utility contacts at the email addresses below.

Utility	Email
Central Hudson	EVMakeready@cenhud.com
Con Edison	EVMRP@coned.com
National Grid	EVNationalGridUNY@nationalgrid.com
NYSEG	EVPrograms@nyseg.com
RG&E	EVPrograms@rge.com
Orange and Rockland	ev@oru.com



IEDR Advances into Phase 2

JU initiates work on Phase 2 Use Cases

On March 28, 2024, NYSERDA [released](#) the Minimum Viable Product (MVP) version of the IEDR platform and officially announced the completion of Phase 1 of the Integrated Energy Data Resource (IEDR) program. This was the second major release of the IEDR platform and formally initiated work on Phase 2 implementation of the IEDR program and NYSERDA's implementation of the IEDR platform. Phase 2 of IEDR development is set to last through 2026 with three goals: expand on Phase 1 successes, accelerate climate action, and deliver advanced capabilities.

In Phase 2, NYSERDA plans to expand Phase 1 successes by adding a wide range of use cases that are relevant and of high value to stakeholders. In many cases (hosting capacity for example) the data provided by JU in Phase 1 will be utilized for the Phase 2 use cases, often in conjunction with non-utility data. For other use cases, the JU will work with the IEDR program team to identify data needed to support use cases, while ensuring the proper protection of information systems, data systems, and customers' privacy.

Phase 2 of the IEDR program is forecasted to implement approximately 40 [Phase 2 Use Cases](#). The Phase 2 Use Cases were designed to support the development of a fully featured and fully operational IEDR platform and prioritize the accelerated acquisition/transfer of all data identified by program stakeholders. The utilities are continuing their work with NYSERDA to clarify the roadmap for Phase 2 work in 2024.

A central focus in Phase 2 is the exploration of parameters needed for accurate bill (i.e. rate) modeling. To this end, the utilities have both had several one-on-one meetings with the IEDR Development Team as well as participated as the Joint Utilities in IEDR Rate Plan Data Joint Working Sessions in May and June. In these sessions, the JU engaged with the IEDR Development Team to resolve issues and clarify the path forward for Phase 2. Moving forward, the JU will continue to support the data delivery requirements for Phase 2 of the IEDR including further developing the Rate Plan Use Case.

[JU and Stakeholders Strengthen Focus on Data Quality](#)

Throughout Q2, the JU continued to work with the IEDR Program Manager through ongoing daily exchanges of bulk customer data. Individual utilities are working to identify and improve any required data exchanges and have engaged the Program Manager in one-on-one dialogue to streamline the process for data uploads to the Platform. The JU also made use of portals focused on IEDR improvements and reporting of any defects. These process updates will enable the JU to provide suggestions for IEDR process improvements and actively monitor data uploads to the IEDR Platform.

April also saw NYSERDA reconvene the IEDR Advisory Group, bringing together stakeholder groups to guide the IEDR Program Sponsor (NYSERDA) and Steering Committee. The meeting focused on discussing successes and outstanding issues from Phase 1 completion

and a preview of the work schedule for 2024, including improvements to Phase 1 MVP Use Cases and a plan for prioritized Phase 2 Use Cases for the year.

Finally, JU members participated in the IEDR General Stakeholder Event held on May 17. This event provided the IEDR Team the opportunity to publicly share their work on Phase 1 and their plans for Phase 2 and allowed the JU attendees to see what was being communicated publicly by the IEDR team.

As we continue work with the Phase 2 implementation, the JU continues to collaborate with the IEDR Program Team by convening discussions with IEDR Program administrators through regular bi-weekly Utility Coordination Group meetings and one-on-one discussions. The JU is focused on delivery, implementation milestones, and mapping data specifications needed for IEDR initiatives and discussed these initiatives and solicited stakeholder input at their June 27th Bi-Annual Webinar.

Joint Utilities Discuss SIR Edits and Explore Multiple CESIR Options

In the past year, the Joint Utilities have seen an increase in interconnection applications wherein DERs propose to interconnect with multimode inverters (multimode inverters are capable of exporting power to the utility grid as well as serving local load only) and microgrid interconnect devices (MIDs). These systems can intentionally form and operate 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.

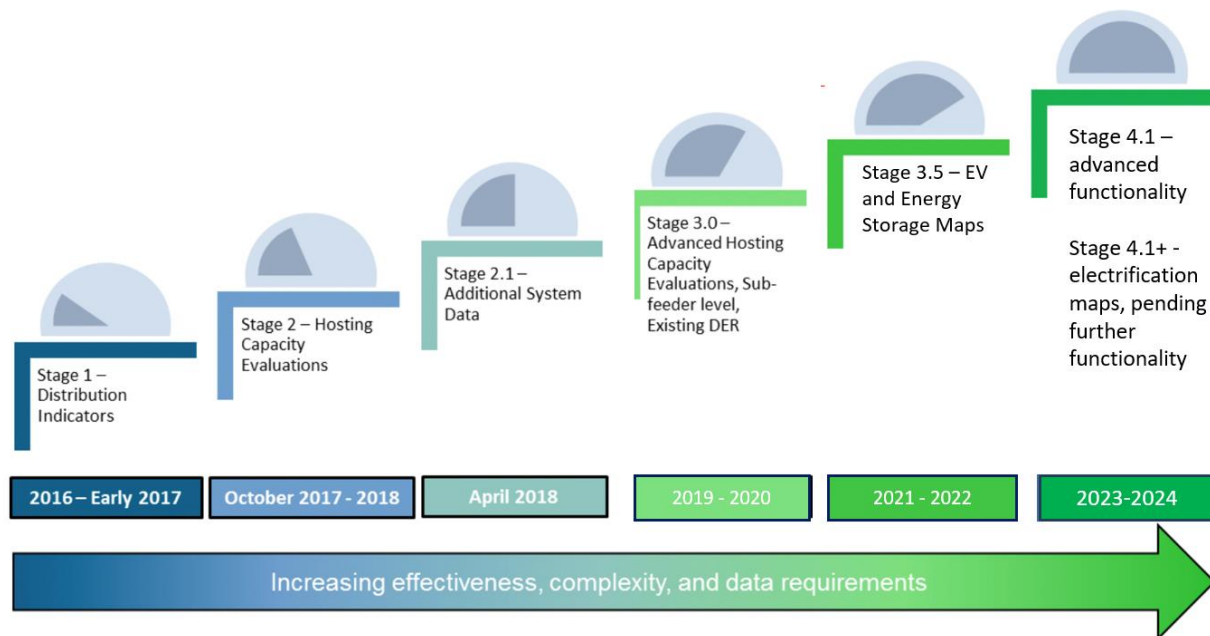
Consequently, the JU explored a requirement to ensure appropriate Underwriters Laboratories (UL) certifications for DER multimode inverters and MIDs. Upon discussion

with UL and the authors of UL 1741 Certification Requirements Decision (CRD) for Multimode, the JU received confirmation that this certification will test the capability of DER to not inadvertently export power to the grid during an intentional island condition. The JU has been engaged in discussions with Industry and DPS Staff on this topic. The timeline for the requirement of this standard continues to be discussed. In the meantime, the JU have been identifying edits to the SIR document to incorporate this standard. Additionally, in the past month, the JU have delivered presentations to Industry organizations (including those outside New York) on the topic of inverter profiles and the EPRI common file format (CFF) for inverter settings. A few companies in New York have already had success with developers adopting utility-specific inverter profiles. Finally, the JU are also discussing the potential of providing developers with multiple interconnection options and configurations as an output of the CESIR study. This would contrast with the current utility practice, which is to only study the project configuration proposed by the developer. However, following developer feedback, the JU are assessing the means to study multiple configurations for a single project, the implications of conducting multiple studies from a timing and cost perspective, and project characteristics that might trigger the provision of multiple options. Once finalized, the JU will also include these considerations in the SIR.

Integrated Planning Stakeholders Continue to Play a Key Role in Advancing the HC Maps

Background

The Hosting Capacity (HC) roadmap was developed by the JU with guidance from stakeholders and incorporated into New York utility filings. The roadmap consists of the following four stages.



In 2022, the JU published Stage 3.5 ESS HC maps showing feeder-level hosting capacity, additional system data, downloadable feeder-level summary data, and reflecting existing Distributed Energy Resources (DER) in circuit load curves and allocations. Based on stakeholder feedback, the maps also showed post sub-transmission circuits available to host distributed generation.

Stage 4.1, published in 2023, included sub-feeder level storage HC maps, DG connected since the last HC refresh, nodal constraints, and Cost Share 2.0 items on PV and storage maps. The JU also provided six-month updates for circuits with DG increases greater than 500kW on PV maps, links to access 8760 data, and made storage HC data available via API. The Utilities are now on stage 4.1+, which centers the publication of the electrification maps and pending further functionality to the PV and ESS HC Maps.

Recent Updates

On May 23, 2024, the Joint Utilities of New York (JU) held a Hosting Capacity Stakeholder Webinar to provide an overview of recent advancements and developments, share their current thinking on next steps, and take questions and feedback from stakeholders.

Updates shared by the utilities included the following.

- The utilities published Pricing Transmission Interface Device (PTID) nodes at the end of 2023, aligning with NYISO's DER participation market progress. Aggregators can now use HC maps to access the proper PTID nodes.
- To streamline efficiency, the utilities have synchronized the release of PV and ESS HC map updates, with refreshes occurring each spring and approximately three to four weeks between map releases.
- In response to orders from the Electric Vehicle Process Mid-point Review and the Energy Efficiency and Building Electrification proceedings, the utilities collaborated with DPS Staff to develop Electrification Load Serving Capacity Maps. Published on January 16, 2024, these maps show feeder-level data for winter and summer peak circuit levels, Environmental Justice locations, and use the same color scheme and breakpoints as the current EV maps.
- The JU continues to support the Integrated Energy Data Resource (IEDR) Program, collaborating with NYSERDA to enhance and support Initial Public Version use cases and complete Phase 1 development. The utilities are now focused on delivering and implementing milestones for Phase 2, improving existing data sets and use cases, and anticipating the release of new high-value use cases in 2024.
- Collaboration with the Interconnection Technical Working Group (ITWG) is ongoing, with utilities publishing tentative ESS schedules and working with industry to determine how these schedules may inform updates to the interconnection process, CESIR, SIR, and other processes. The Integrated Planning Working Group intends to update the storage HC map considering these changes.

Looking ahead to 2024, the utilities will continue working with the ITWG to advance ESS HC maps and provide data through HC and electrification maps for utilization by the state-wide IEDR.

JU Continue to Engage with NYISO on Issues Relevant to the 2019 DER Participation Model and Order 2222 Enablement

With FERC's acceptance of NYISO's proposed 2019 DER Participation Model in April 2024 and the go-live of the market on April 17, 2024, the JU are continuing to engage and hold productive discussions with the NYISO. Most recently, the NYISO provided the JU with a demonstration of the DER Aggregation Portal that will be used by aggregators. The NYISO walked the companies through the functionality of the portal, and described how the aggregator's registration data would be passed to the utilities. Separately, the JU and NYISO have also engaged in discussions on the topic of the Grid Operations Coordination Portal (GOCP), which will be the primary mechanism for the companies and NYISO to exchange information on topics such as DER outages, derates etc.

The Joint Utilities have also reviewed the list of documents that NYISO will provide to DER aggregators along with the NYISO's User Guide. Since only the User Guide will be provided to the utilities at the time of aggregator registration and the supplemental documents will not be provided, the JU are using this opportunity to understand and study the contents of the supplemental documentation.

Finally, in future months, the JU and NYISO have agreed to discuss nuances related to the JU's safety and reliability review of DER aggregations. The JU and NYISO will also continue discussions on the topic of NYISO's FERC Order 2222 participation model.

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](#)