JOINT UTILITIES OF NEW YORK

DISTRIBUTED SYSTEM PLATFORM (DSP) ENABLEMENT QUARTERLY NEWSLETTER

WHAT'S INSIDE

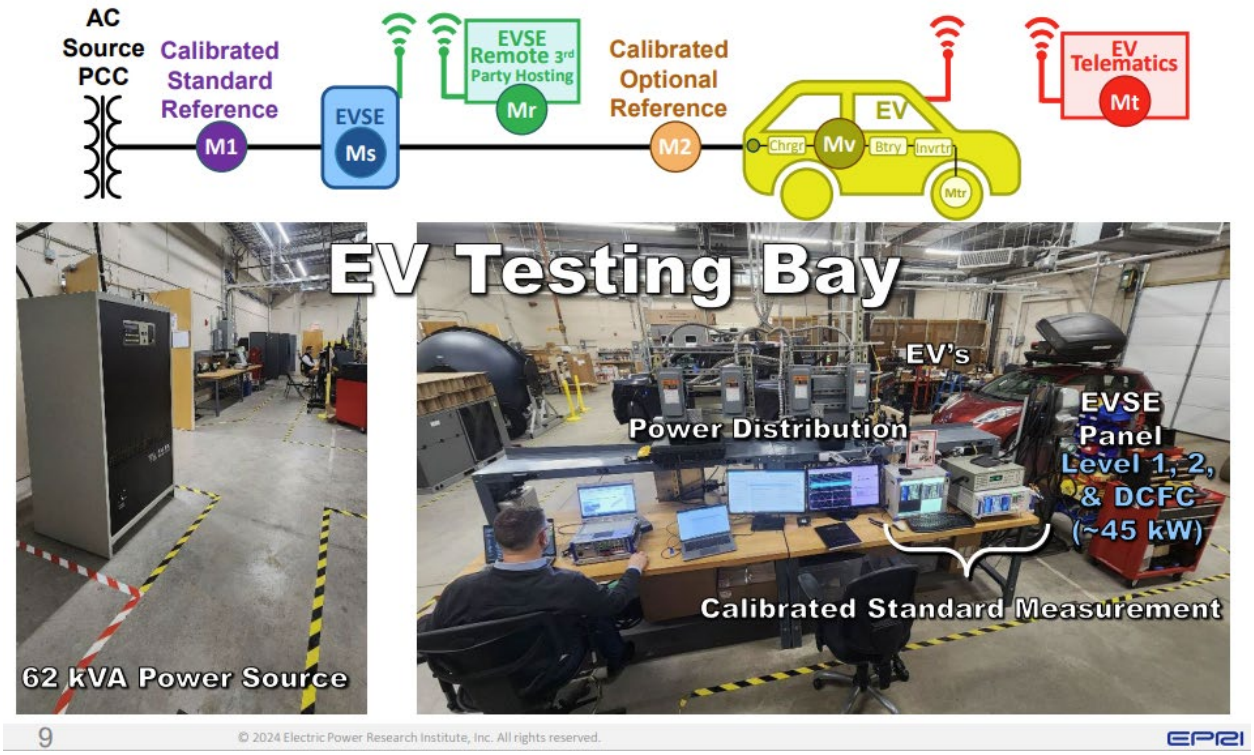
Grid of the Future Proceeding: Advancing Flexibility through Collaboration

On April 18, 2024, the New York Public Service Commission launched the Grid of the Future proceeding (CASE 24-E-0165). The proceeding aims to unlock innovation and investment to deploy flexible resources, such as Distributed Energy Resources (DERs) and Virtual Power Plants (VPPs), to achieve the State's clean energy and electrification goals. In recent years, the Joint Utilities (JU) have made significant progress in incorporating greater flexibility into operations as detailed in our Distributed System Implementation Plan (DSIP) filings, which describe the utility's progress and plans for implementing a Distributed System Platform (DSP). The JU is committed to working collaboratively throughout the proceeding to provide a pathway toward greater flexibility by leveraging DERs. The JU look forward to continuing collaboration with the Department of Public Service (DPS) and stakeholders for future iterations of the Grid of the Future plan and its implementation.

Initial Results of EV Data Accuracy Testing; New Programs and Proceedings for EVs

Technical Standards Working Group

The utilities reached a milestone in their research work with EPRI to study the accuracy of EV chargers and EV telematics data for use as alternative submeters for EV load. On July 30, EPRI presented their draft testing protocol at a Technical Standards Working Group (TSWG) meeting. The protocol was established from an initial round of testing with a sample of EVs and EV chargers and will be used to conduct a final round of accuracy testing. Using those results, EPRI and the utilities will file a final report outlining the results by September 12, 2024. The recording of the TSWG meeting can be found on DMM here and EPRI's slides here.



Proactive Planning Order

At the August 15 New York Public Service Commission Session, the Commission announced a new proceeding (24-E-0364) to initiate a proactive planning process for utilities to support grid upgrades for transportation and building electrification. The need for this proceeding was expressed in comments received in response to the Medium- and Heavy-Duty Initiating Order in the Spring of 2023, subsequent technical conferences, and State policy efforts toward electrification across multiple segments. In this proceeding, the utilities will have the opportunity to file proposals for projects requiring urgent investment in grid upgrades, with project evaluation and funding proposals within 90 days. The utilities will also design a framework proposal for a statewide proactive planning process for future grid upgrade needs within 120 days. The initiating Order can be found on DMM here.

Load Management Technology Programs (LMTIPs)

The Commission published an Order Establishing Load Management Technology Incentive Programs (LMTIPs) on August 19. In May 2023, in response to the Demand Charge Alternatives Order, the utilities filed a joint LMTIP proposal to repurpose the funds from the sunset Direct Current Fast Charging Per Plug Incentive (DCFC PPI) program. The Order approved, with modifications, the proposals of the Joint Utilities from that filing. As directed by the Order, the utilities will establish a statewide webpage to serve as a clearinghouse for information about the LMTIPs; ensure consistent eligibility requirements for incentivized load management technology across the state; allow stacking of the LMTIPs with other incentive programs; and establish a process for a statewide review of the LMTIPs. More information about the LMTIPs will be included in the utilities' Implementation Plan filing and on the JU website.

Work Continues on IEDR Phase 2

JU Advances IEDR Development Milestones

Throughout the third quarter, the Joint Utilities (JU) Information Sharing Working Group (ISWG) continued work supporting NYSERDA in its development of Phase 2 of the Integrated Energy Data Resource (IEDR) Platform development process. The IEDR is NYSERDA's centralized, state-wide platform that provides access to energy data and information from New York's electric, gas, and steam utilities, and other sources, and it aims to support new and innovative clean energy business models that deliver benefits to New York energy customers.

Activities throughout the quarter involved the JU collaborating closely with the IEDR Development Team to ensure process improvements support consistency and quality of data delivery pipelines and bulk data exchange solutions for the IEDR Platform. The JU are continuing one-on-one meetings with the IEDR Development Team and initiated use case

discovery for additional Phase 2 use cases, including Accelerated DER Siting, DER Registry, and State of DER Dashboard. The IEDR Development Team indicated that activities around automated quality assurance for deposited data will be deferred until later in the year in favor of work on use case discovery and Green Button Connect (GBC). Nonetheless, the JU continued its work with the IEDR Development Team to improve processes and communication around utility data uploads to the IEDR Platform testing environments. Finally, the JU continued one-on-one meetings with the IEDR Development Team on the Rate Plan Data use case. The IEDR Development Team is preparing to release an updated rate plan data schema in the coming weeks. These efforts are intended to yield a one-stop shop for accessing various utility rates and other rate modifiers/aspects that form the basis of customer bills.

IEDR Team Proposes User Agreements and GBC Test Plan

On July 31, a Notice was recorded in the New York State Register to initiate a 60-day public comment period around the May 28, 2024, petition filed by NYSERDA and E Source related to proposed user agreements for the IEDR Platform.

The IEDR Development Team also shared its proposed GBC test plan, which includes four testing stages, single sign-on (SSO) integration with utilities, and plans to attain Green Button Alliance certification by January 2025.

Joint Utilities Discuss Measures to Enhance Interconnection Process Efficiency

In recent weeks, the JU have had discussions with EPRI on the use of an inverter common file format (CFF) to communicate inverter settings between developers and the utilities. EPRI provided a presentation on how they envision the inverter CFF to facilitate the sharing and verification of settings between developers and utilities. Utilities would use the CFF to

provide their required settings to developers (providing specified settings files), while the developers would use the CFF to communicate the evidence of applied settings back to the utility. The JU noted that receiving the applied settings files from utilities would be very useful from a data storage perspective and help reduce errors in communicating settings. The JU and EPRI have resolved to continue discussions in this regard going forward to encourage the adoption of the CFF.

The JU have also been discussing changes to the SIR with Industry. These revolve around edits to Screen E (Simplified Penetration Test) and Screen G (Supplemental Penetration Test) in the SIR. The JU have had discussions on potentially removing Screen E and moving Screen G to the Preliminary Screening section. Discussions in this regard are ongoing. The JU are also discussing updates to Screen H (Voltage Flicker Test) based on suggested updates to the screen by EPRI and Pterra.

The JU have also been discussing the topic of extending the waiver for compliance with UL 1741 SB for EV chargers from July 1, 2024, to July 1, 2025. This action is in response to a request from Industry to extend the waiver, as there is a lack of UL 1741 SB certified EV chargers in the market. The JU will extend the waiver and conduct an interim check in late 2024 to ascertain the progress of EVSE manufacturers in attaining the certification.

Finally, the JU have made updates to the technical cost matrix on the ITWG website, following the last update approximately two years ago. This latest update reflects the most recent costs of interconnection studies, labor, and equipment for interconnecting DERs.

Hosting Capacity Maps: Roadmap Progress and Future Stakeholder Engagement

Overview

Hosting capacity (HC) is an estimate of the amount of DER that may be accommodated on a distribution circuit without adversely impacting power quality or reliability under current electric power system configurations and without requiring infrastructure upgrades. Currently, each utility provides three types of HC mapping products: Photovoltaic, Energy Storage System, and Electrification Maps.

The Joint Utilities, in collaboration with stakeholders, developed a comprehensive HC roadmap. This roadmap outlines a phased approach to developing, enhancing, and expanding HC Maps. Each stage of the roadmap represents significant advancements in functionality and data provision, ensuring that the HC maps continue to evolve to meet the needs of New York's changing energy landscape. The roadmap continues to evolve, and to date consists of the following stages:

1. Stage 1 (2016-2017): Distribution Indicators
2. Stage 2 (2017-2018): Hosting Capacity Evaluations
3. Stage 2.1 (2018): Additional System Data
4. Stage 3 (2019-2020): Advanced Hosting Capacity Evaluations, Sub Feeder Level, Existing DER
5. Stage 3.5 (2021-2022): Introduction of Energy Storage System (ESS) HC maps
6. Stage 4.1 (2023): Advanced functionality, including sub-feeder level storage HC maps
7. Stage 4.1+ (2023-2024): Addition of electrification maps and pending further functionality

Ongoing HC Updates and Stakeholder Collaboration

In 2023, the JU published significant updates to the HC maps, including:

- Sub-feeder level information for storage HC maps
- DG connections since the last HC refresh
- Nodal constraints (criteria violations on PV and storage maps)
- Cost Share 2.0 items on PV and storage maps

Additionally, the JU 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. Building on these advancements, the JU held a stakeholder session in May 2024 to discuss further developments and gather feedback. We reported on this in the June newsletter; key updates included:

1. Publication of PTID nodes
2. Synchronization of PV and ESS HC map updates
3. Launch of new Electrification Load Serving Capacity Maps
4. Progress on the IEDR Program
5. Ongoing collaboration with the Interconnection Technical Working Group (ITWG)

Following this session, the JU addressed several questions raised by participants, covering topics such as ESS schedules, 8760 circuit load data access, and N-1 design practices across utilities. These responses can be found in the appendix of this slide deck, also posted on the Joint Utilities of NY Hosting Capacity Webpage.

Joint Utilities Push Ahead on NYISO's 2019 DER Participation Model and FERC Order 2222 Implementation

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 to enable DER aggregator participation in NYISO

markets. Recently, the NYISO and the JU discussed whether aggregators would have sufficient lead time to implement telemetry systems that would facilitate the transition of resources from NYISO's Demand-Side Ancillary Service Program (DSASP) program to the DER Participation Model (DER PM) by April 2025. NYISO indicated that it doesn't foresee any issues with aggregators being able to meet this timeline and that if any delays are anticipated, it will provide a compliance filing to FERC extending the termination of the DSASP program. Responding to requests from the JU, NYISO also provided details on the in-development Hybrid Storage Model (HSR), and how the HSR differs from the DER PM. To summarize the differences at a high level, the HSR enables co-location of storage and at least one generator at a single PTID, has a minimum size of 20 MW, and does not permit demand side resources. The NYISO has also responded to questions from the JU on how unique DER IDs will be assigned for all DERs, including load modifying resources.

The JU are also continuing to discuss their respective company's efforts to establish telemetry with DER aggregators. Accurate and timely sharing of information between Aggregators and the JU will help provide the JU visibility into DER operations, in turn maintaining system safety and reliability, .

Tools and Informational Sources

Advanced Forecast	**Joint Utilities** Joint Utilities: Overview of Currently Accessible System Data Joint Utilities: Load Forecasts Joint Utilities: Historical Load Data				
Beneficial Locations	**Joint Utilities** Joint Utilities: Beneficial Locations				
Customer Data	**Central Hudson** Central Hudson: Privacy Policy	**Con Edison** Con Edison: Customer Energy Data	**National Grid** National Grid: NY System Data Portal	**NYSEG RG&E** NYSEG: Your Energy Data	**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
DER Integration & Inter-connection	**Joint Utilities** Joint Utilities: Distributed Generation Joint Utilities: Interconnection Joint Utilities: SIR Pre-Application Information				
	Central Hudson Central Hudson: Distributed Generation Homepage Central Hudson: Interconnection Queue	**Con Edison** Con Edison: Private Generation Energy Sources	**National Grid** National Grid: Systems Data Portal National Grid: Interconnection	**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	**O&R** O&R: Distributed System Platform O&R Private Generation Energy Sources

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