



JOINT UTILITIES OF NEW YORK

Distributed System Platform (DSP) Stakeholder Webinar

June 23, 2022

Welcome and Logistics

Welcome and thank you for joining!

Webinars are open to the public and recordings will be posted following the webinar on the Joint Utilities website: www.jointutilitiesofny.org

Please contact info@jointutilitiesofny.org if you have any additional questions following the webinar

Agenda

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Agenda Item	Presenters
ISO-DSP	Jared Trumpetto
Monitoring & Control	Chris Lamothe
Interconnection	Brenton Fedele
Hosting Capacity Maps and Analysis	Joe White
Information Sharing	Alvaro Gener
Electric Vehicle Make-Ready Program	Julia Gold





ISO-DSP

Presented by: Jared Trumpetto, Con Edison

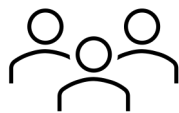
DER Participation in Markets and FERC 2222

Moving Forward Toward Implementation



Utility Preparations for Launch of the NYISO DER Market Participation Model

- Processes and systems updates are being put in place to prepare for market launch. These are on track.



Continued Collaboration with the NYISO

- The JU continues to work with the NYISO to prepare for market launch. Recent highlights include:
 - Refining processes and the exchange of information related to registration, enrollment, operational coordination, etc.
 - Testing tools for DER enrollment information exchange between the NYISO and individual Utilities.
 - Providing Utility input on the draft NYISO manuals.
 - Finalizing the DERA registration process prior to full launch
- The JU will continue its preparation and coordination with the NYISO, which is targeting Q2 of 2023 for full launch.



DER Participation in Markets and FERC 2222

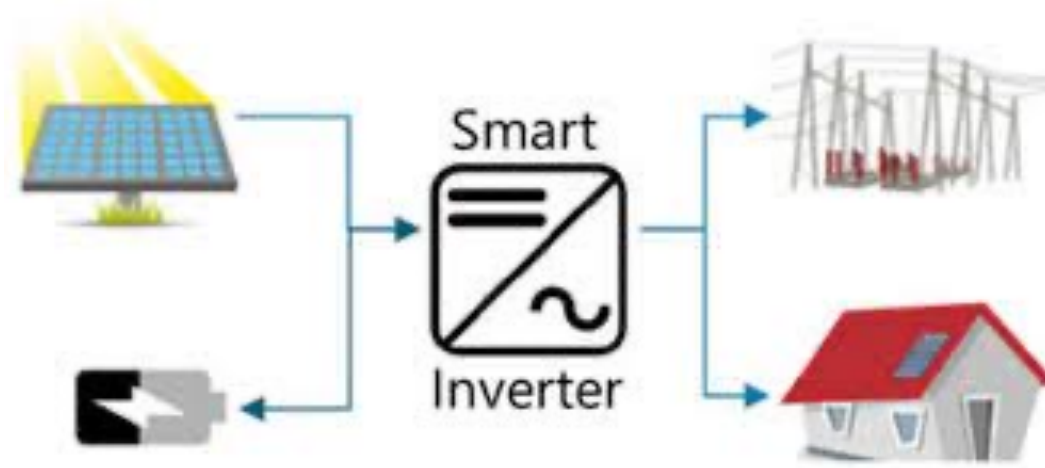
Moving Forward Toward Implementation



Planning for Additional Stakeholder Sessions

- The April 29th session with DER community members was beneficial for the JU to understand topics for further discussion.
- The JU are preparing to host an additional stakeholder session later in the summer to discuss telemetry requirements. More information will be provided on the JU website and announced in the appropriate NYISO working groups.





Monitoring & Control

Presented by: Chris Lamothe, National Grid

Joint Utilities Draft Monitoring and Control Parameters

Joint Utilities Advance Discussions on Monitoring and Controlling DERs via Smart Inverters

Consistent monitoring and control requirements and parameters across the Joint Utilities will bring benefits to developers in the form of time savings and improved interconnection process efficiency.

- The Joint Utilities are evaluating effective ways to utilize smart inverter technology for the monitoring and control of inverter – based DER
- The NYISO/companies are working on identifying the appropriate data points distributed resources will be required to provide
- The NYISO/companies are also working on identifying the appropriate control points and functionality for these resources, which will aid in maintaining grid resiliency and reliability and provide better continuity of service for customers
- The monitoring and control parameters identified by the Joint Utilities are aligned with the interoperability requirements and communications protocols presented in IEEE Std 1547 – 2018





Interconnection

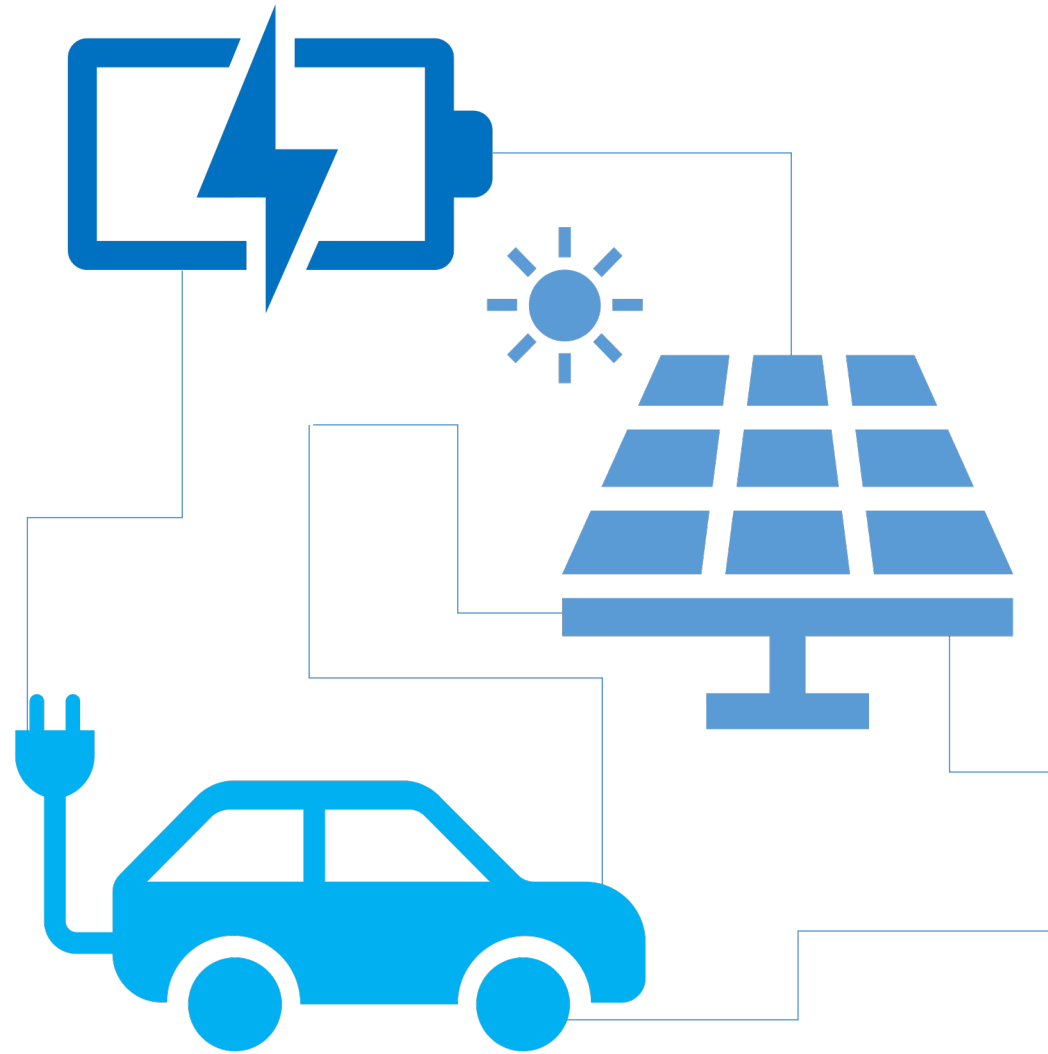
Presented by: Brenton Fedele, National Grid



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Updates to SIR and Equipment Upgrade Costs

Updates to SIR and DER Technical Guidance Matrix and Flex. Interconnection Evaluation



JU collaborate with stakeholders and DPS to edit SIR

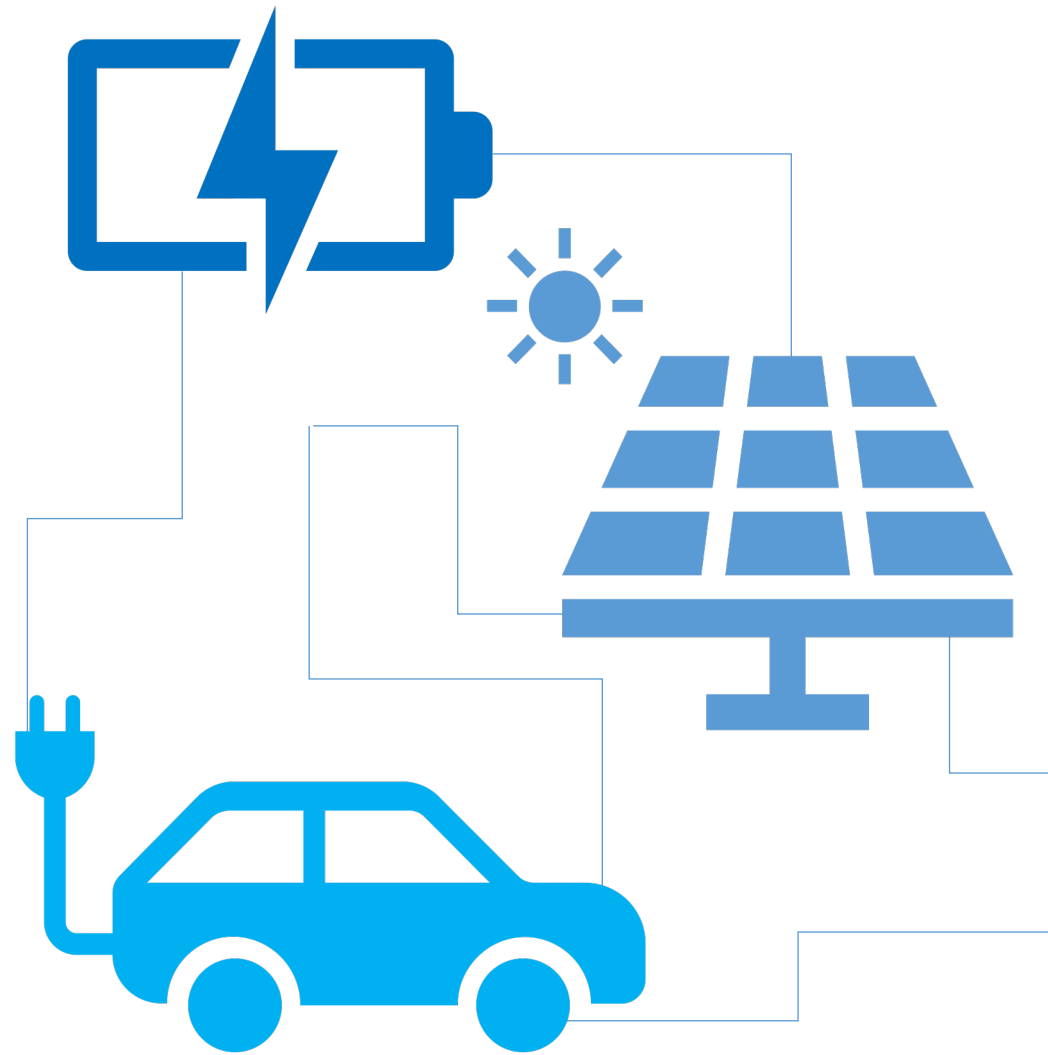
- Updates to the SIR were made and filed with the PSC in May 2022 and are anticipated to bring greater clarity for developers
- JU have also aligned on addition of language to the SIR related to UL 1741 – SB and IEEE Std 1547 – 2018, ensuring that compliant inverters are installed in New York as UL 1741 – SB certified inverters start to become available in 2023



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Updates to SIR and Equipment Upgrade Costs

Updates to SIR and DER Technical Guidance Matrix and Flex. Interconnection Evaluation



Updates to equipment upgrade cost values

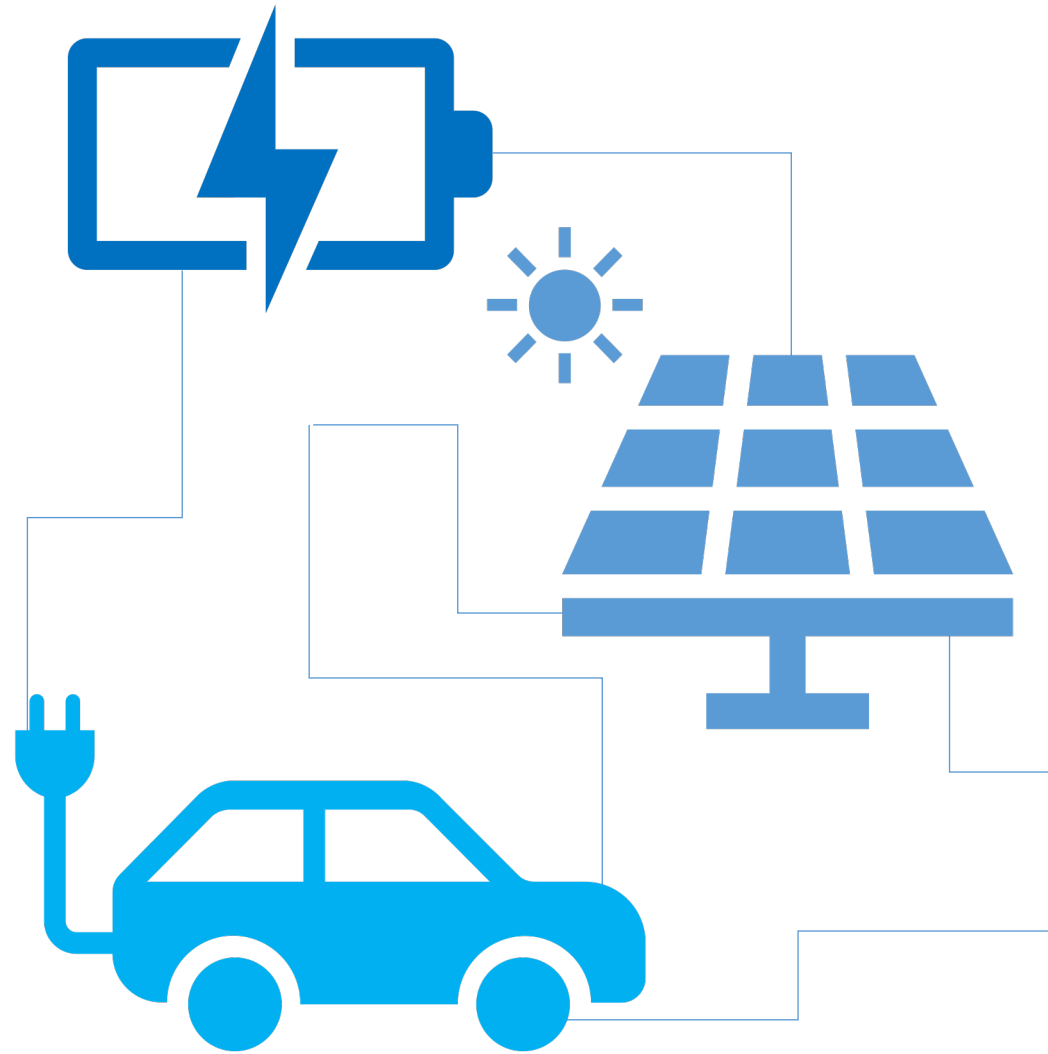
- The JU are evaluating the need for updates and additions to the public-facing Technical Guidance [Matrix](#) for DER
- The JU are also responding to a request from industry members to provide detail on additional equipment upgrade costs
- Having updated data in the matrix will help inform developers' assessments of interconnection costs and project economics



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Updates to SIR and Equipment Upgrade Costs

Updates to SIR and DER Technical Guidance Matrix and Flex. Interconnection Evaluation

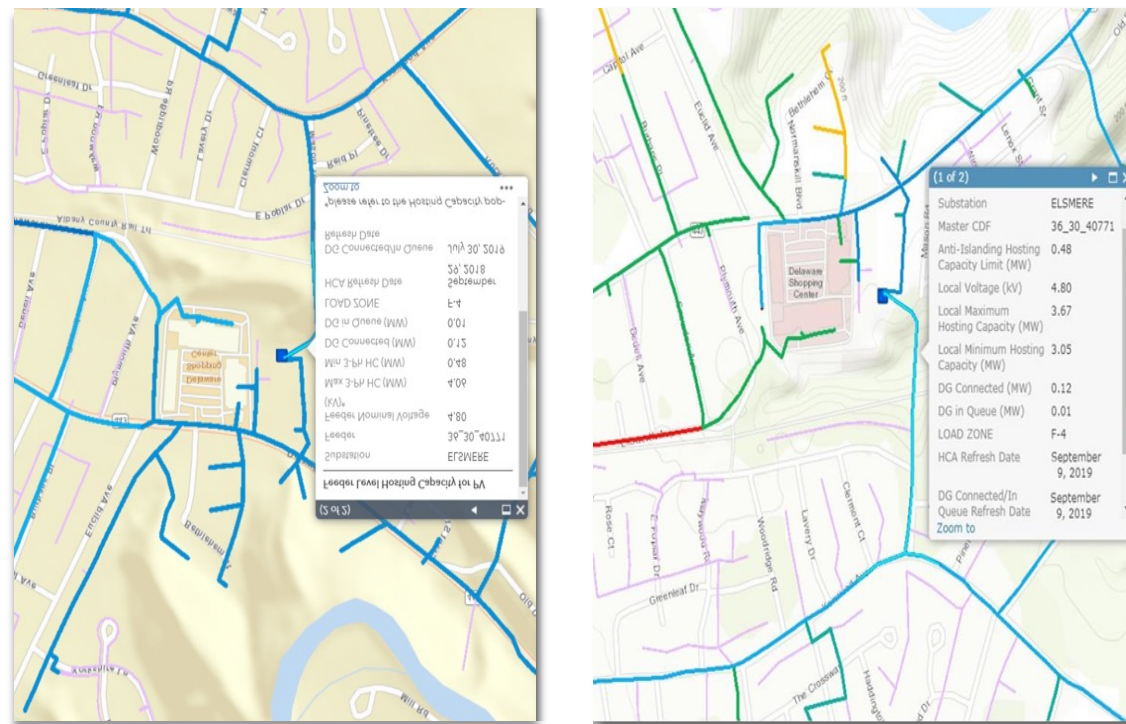


Evaluating flexible interconnection solutions

- The JU are in ongoing discussions with stakeholders regarding flexible interconnection solutions, with NYSEG/RG&E and National Grid making public presentations on their ongoing pilots
- In response to questions from DPS, the JU are conducting internal evaluations to assess their respective readiness to deploy flexible interconnection across their service territories



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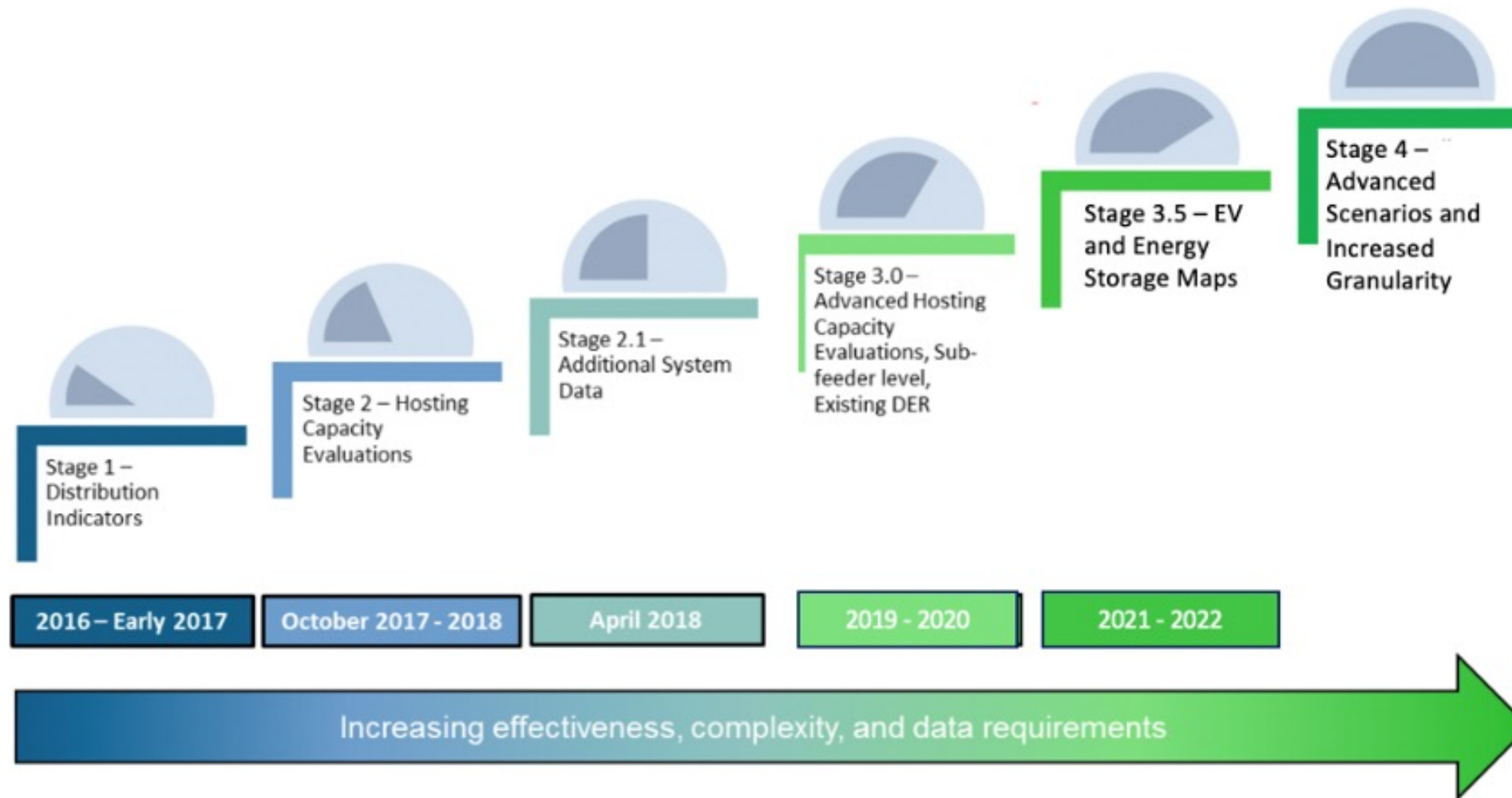
Hosting Capacity Maps and Analysis

Presented by: Joe White, Con Edison

Hosting Capacity Roadmap

Since 2016, the Joint Utilities have collaborated with stakeholders to identify valuable enhancements to hosting capacity map capabilities and implement those upgrades.

The Joint Utilities have been following a planned Hosting Capacity Roadmap that proceeds by stages.



Stage 1 Storage Hosting Capacity Map

As part of stage 3.5 of the Roadmap, the Joint Utilities published Stage 1 of their Storage Hosting Capacity Maps in April

As committed in 2021, Stage 1 shows separate displays for load and generation hosting capacity...

- Feeder-level hosting capacity (min/max)
- Additional system data
- Downloadable feeder-level summary data
- Existing DER in feeder load curves and allocations

Stage 1 Storage Hosting Capacity Map


As part of stage 3.5 of the Roadmap, the Joint Utilities published Stage 1 of their Storage Hosting Capacity Maps in April

The JU have discussed the use of one or two input load files tied to:

- Daytime minimum load
- Peak load

The JU provided the following outputs:

- From the storage run in DRIVE, an output file providing charging limits (from peak load analysis) and discharging limits (from daytime minimum load analysis)



Due to stakeholder feedback, all map views now also show...

- sub-transmission circuits that are available to host distributed generation on their individual portals to help developers best evaluate options for storage connections.



Next Steps

The Joint Utilities continue to collaboration with stakeholders on next steps.

On May 18, 2022, the Joint Utilities met with stakeholders to garner feedback regarding the **Storage Hosting Capacity Roadmap** shown on the next slide

- Stakeholders will choose different 'scenarios' in a year, beyond peak and minimum load, for the Joint Utilities to include on Storage Hosting Capacity Maps.
- This will enable the Joint Utilities to share a seasonal, granular look at load profiles and data outside of the most restrictive interconnection points throughout the year

Next Steps

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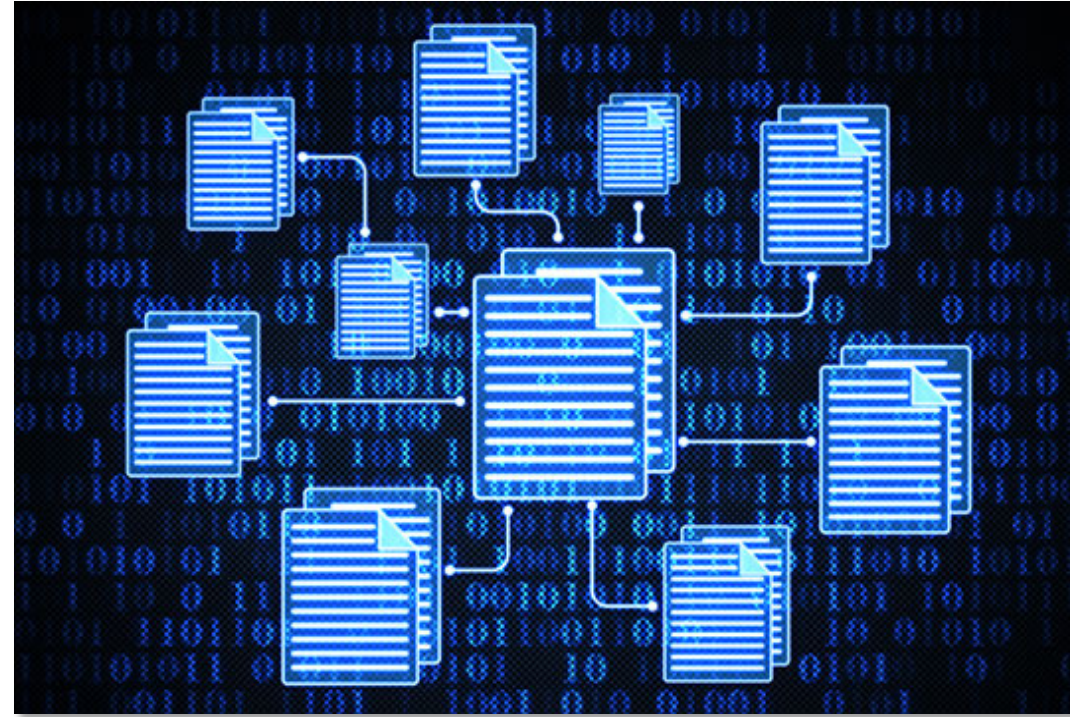
Immediate	Interim Step	Next Steps
2022 – 2023	Late 2023–2024	TBD
<ul style="list-style-type: none"> Sub Feeder Level HC Incremental Feeder Level Installed Since HCA Refresh Six-month Update for Circuits that Increase in DG > 500kW Continue to implement Cost Sharing 2.0 	<ul style="list-style-type: none"> Seasonal load profiles Additional 'scenarios' based on stakeholder input 	<ul style="list-style-type: none"> Continued granularity

Contact Us

Visit website [here](#), email info@jointutilitiesofny.org or follow up via the chart below.

Utility	Contact
Central Hudson	Distributed Generation Group <ul style="list-style-type: none"> Email: dg@cenhud.com Phone: 845-486-5215
Con Edison	DG Group <ul style="list-style-type: none"> dgexpert@coned.com
National Grid	Monitored mailbox <ul style="list-style-type: none"> IMAP@nationalgrid.com with the subject line: NY System Data Portal
NYSEG/RG&E	Monitored mailbox <ul style="list-style-type: none"> distributedgenerationadmin@avangrid.com
O&R	Monitored mailbox <ul style="list-style-type: none"> ORHostingCapacityMap@ORU.com



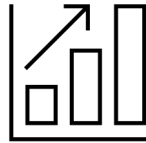


Information Sharing

Presented by: Alvaro Gener, NYSEG/RG&E

Information Sharing Initiatives

The Joint Utilities continue to collaborate to increase data sharing.



Integrated Energy Data Requirements (IEDR)

- The JU transferred the sample data for the initial public version (IPV) use cases in June 17.
- Additional data will be shared in Q3–Q4 2022 once the IEDR developer is onboarded. The following IPV use cases aim to be operational in the IEDR by end of 2022:
 - Installed DERs
 - Planned DERs (Interconnection Queue)
 - Consolidated Hosting Capacity Maps
- The JU are focused on setting up internal processes to collect and provide the requested data fields for future transfers in accordance with cybersecurity and privacy considerations.
- The JU have held conversations with an existing data sharing platform provider to explore secure and reliable data sharing options that meet the needs of the IEDR and its users.
- Each utility have filed individual IEDR quarterly reports for Q3–Q4 2021 and Q1 2022, which can be found under Case–20–M–0082.



Information Sharing Initiatives

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Data Access Framework

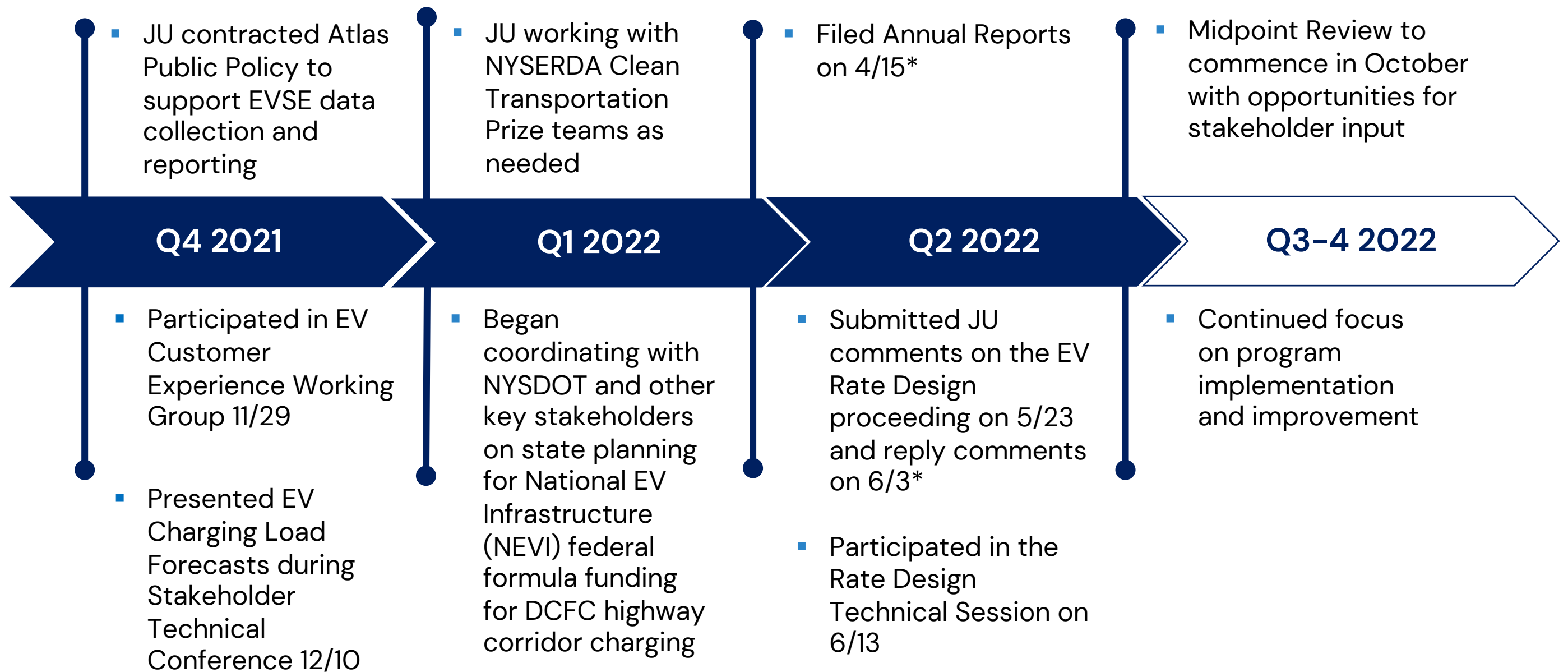
- On May 2, 2022, the Joint Utilities filed a petition to recommend enhancements to the existing cybersecurity protections and propose a governance committee.



Electric Vehicle Make-Ready Program “MRP”

Presented by: Julia Gold, National Grid

Make-Ready Program Implementation Continues



*Company Annual Reports and Rate Design Comments can be found via NYSDPS [Case 18-E-0138](#)

MHDV Electrification: Enabling Clean Public Transit

New York's ~\$700M EV Order supports clean transportation infrastructure for residential customers, commercial customers, and fleets – including meeting the state's aggressive goals for public transit and school buses

NY is committed to electrify the MHDV sector:

- 25% of Public Transit buses electrified by 2025
- Advanced Clean Trucks (ACT) rule finalized in Dec. '21 (requires OEMs >40% ZEV sales by 2035)
- 100% ZEV school bus sales by 2027 (100% of all buses ZEV by 2035)



The 1st electric bus at NFTA in Buffalo (April 2022)



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MHDV Electrification: Enabling Clean Public Transit

National Grid supporting NFTA (Buffalo) and CDTA (Albany) to achieve 25% ZEVs with ~\$5M infrastructure incentives

NFTA example: 10 buses ordered, testing 1st bus on site

- Electrifying NFTA's Cold Spring garage, which serves ~90 buses
- Charging buses via DCFC pantograph (overhead) chargers
- Expected completion of depot by the fall of 2022



The 1st electric bus at NFTA in Buffalo (April 2022)

Utility Make-Ready Program Resources

Utility	Email	Website
Central Hudson	EVMakeReady@cenhud.com	Electric Vehicle Make-Ready Infrastructure Program
Con Edison	EVMRP@coned.com	Electric Vehicle PowerReady Program
National Grid	EVNationalGridUNY@nationalgrid.com	Electric Vehicle Charging Station Programs
NYSEG	EVPrograms@nyseg.com	Electric Vehicle Charger Make-Ready Program
RG&E	EVPrograms@rge.com	Electric Vehicle Charger Make-Ready Program
Orange and Rockland	ev@oru.com	Electric Vehicle Power-Ready Program



Q&A Session

Moderated by: Matt Robison, ICF

Q&A Session

Please submit questions via the 'question function' on the webinar interface

Additional questions may be emailed to info@jointutilitiesofny.org following the webinar

Visit www.jointutilitiesofny.org for more information

Quarterly Newsletter

Check out our quarterly newsletter with meaningful, substantive updates related to the DSIPs

nationalgrid Orange & Rockland NYSEG RG&E Central Hudson conEdison

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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)

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.](#)

Website: www.jointutilitiesofny.org
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ABOUT US RESOURCES AND OPPORTUNITIES ELECTRIC VEHICLES

FORGING THE ENERGY FUTURE FOR
NEW YORK STATE

Thank you!



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