CUNY 2025 Solar + Storage Installer Workshop

3/27/2025

Opening Remarks

James Gaughan
Director, Distribution Planning

gaughanja@coned.com

CUNY Workshop 2025 Agenda

Presenter	Topic
Gerrianna Cohen	**Demand Response Program Overview**
Libin Mao	**Best Practices – Interconnecting Energy Storage**
Keegan Edward	**E-Mobility & Demonstration Incentive Program**
Joshua Brown	**Non-Wire Solutions Program Updates**
Constantine Spanos & Brittany N. Allerdings	**Interconnection Updates & Policy Updates**

Program Opportunities and Enrollment Deadlines

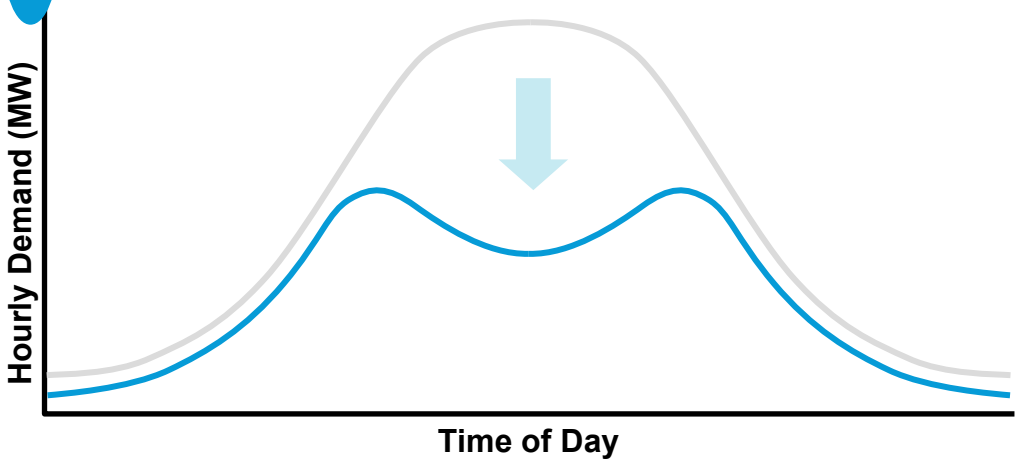
Demand Response

Gerrianna Cohen

The Difference between Demand Response and Energy Efficiency for reducing demand on the grid

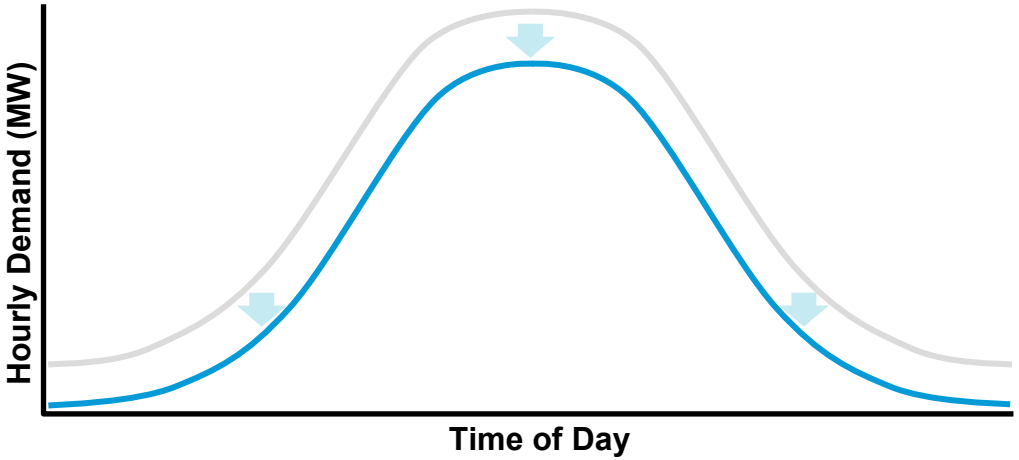
Baseline demand curve

Demand curve after measures are implemented



Demand Response

- Short-term reduction in energy consumption
- Targets time frames where systems reach a peak and incentivizing them to reduce



Energy Efficiency

- Long-term, sustained reduction in energy consumption
- Improvements through upgrading technologies to use less energy or insulation to maintain temperatures

Con Edison DR Offering

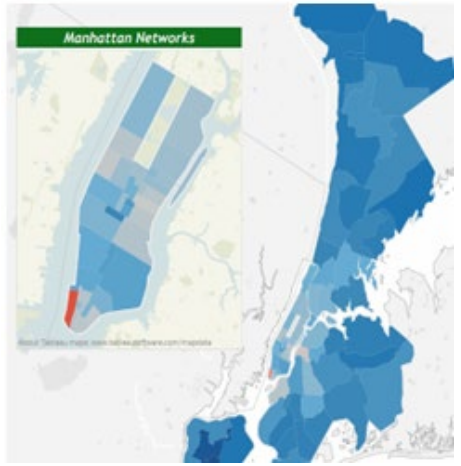
Customers provide load relief by curtailment or generation pledge

System-Wide Peak Shaving (CSRP, Term-DLM)

- >21-hour notification if Day-Ahead Forecast ≥ 92% of summer peak
  - TV Forecast ≥ 84 degrees or Day-Ahead Forecast ≥ 88% of summer peak (optional)
- Each network has 4-hour call window aligned with network peak

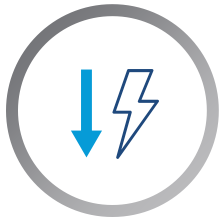
Network-Specific Reliability (DLRP, Auto-DLM)

- 2-hour or less notification based on network contingency
  - If next contingency = Condition Yellow or Active voltage reduction
- Events are 4-6 hours long



Demand Response and Smart Usage Rewards

Load Relief: System-Wide Peak Shaving (Day-Ahead Notice) & Network Reliability (2-hour Notice)



Rider T – CSRP
System-wide

Rider T – DLRP
Network Level

Rider AC – Term-DLM
System-wide

Rider AC – Auto-DLM
Network Level

Aggregator Model
Technology Agnostic

$1/kWh Performance Payment and/or Monthly Reservation Payment

- Up to $18/kW

- Tier 1: $18/kW
- Tier 2: $25/kW

- 3-5 year contracts via RFP with bid price
- Lower Triggers
- Pay-for-performance
- Penalties for under-performance

Smart Usage Rewards

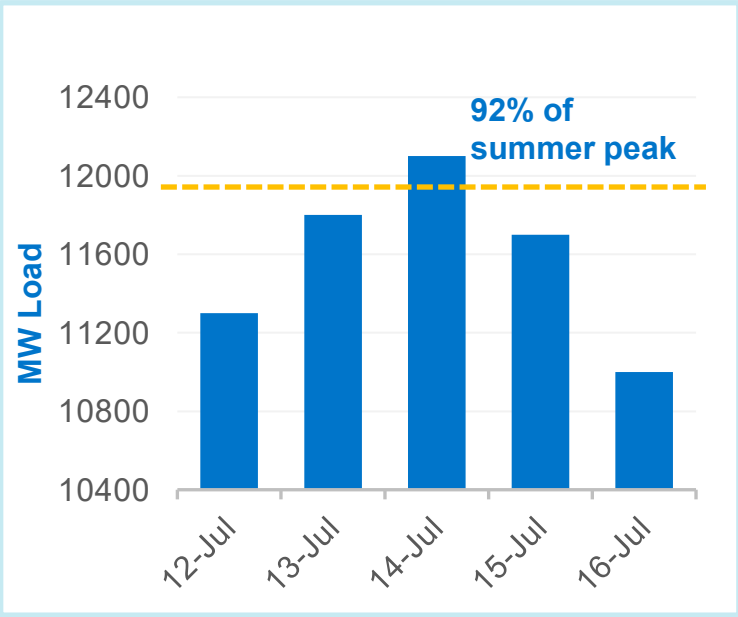
Incentivize customers to reduce energy usage during high demand periods

Triggers that can cause an event

CSRP & DLRP

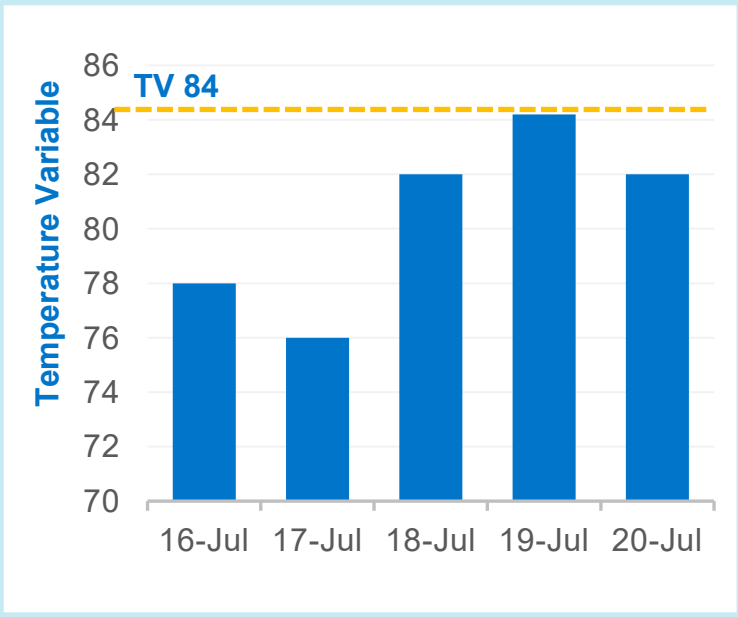
Forecasted Load at 92%

Established load is calculated based on the annual forecasted peak summer load



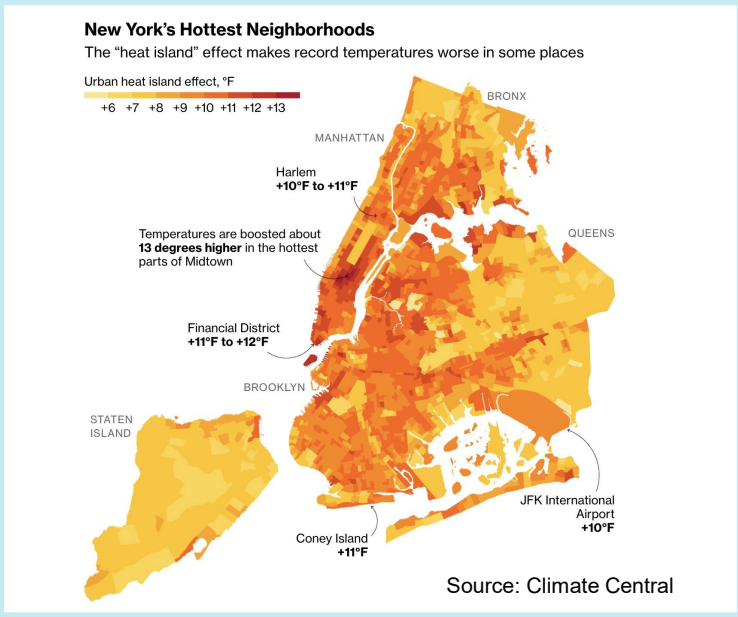
Temperature Variable > 84

Indicates increased demand for electricity due to building cooling usage (like AC) in high temperature conditions



Condition Yellow

Determined with increased stress to a local area to minimize risk of customer outages or utility equipment being overworked



Program Participants

New York State Public Service Commission

Con Edison DR Team

Smart Usage Partners and Direct Enrollees

Residential Customers

Multifamily Customers

Small/ Medium Business Customers

Commercial and Industrial Customers

Common ways to reduce energy consumption

Residential and Small Med Businesses

- Turn off lights
- Reduce AC usage or switch to fan mode
- Shift use of large appliances
- Unplug unused electronics

Commercial and Industrial

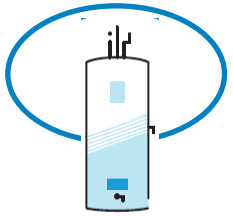
- Use energy management systems to control HVAC system and additional electric load
- Minimize non-essential operations such as turning off industrial equipment or switching to lower power mode if not in use

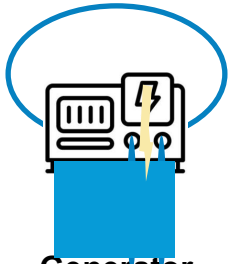
Common energy loads that can be reduced

Below list is not exhaustive as energy loads are technology agnostic. Anything that reduces load applies to these programs.

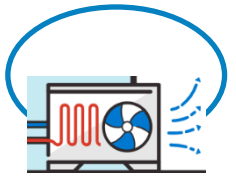

Lighting & Controls

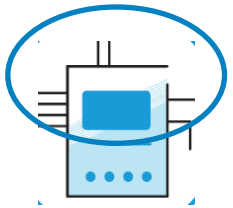

Heating, Cooling, Ventilating (HVAC)

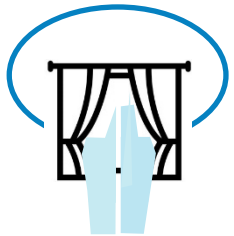

Hot Water System


Generator


Refrigeration

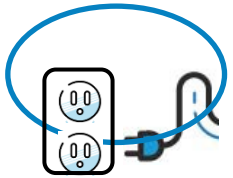

Heat Pumps

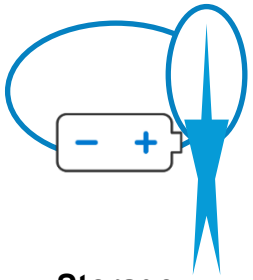

Energy Management System


Window treatment


Industrial equipment


EV Charging


Plug load


Storage

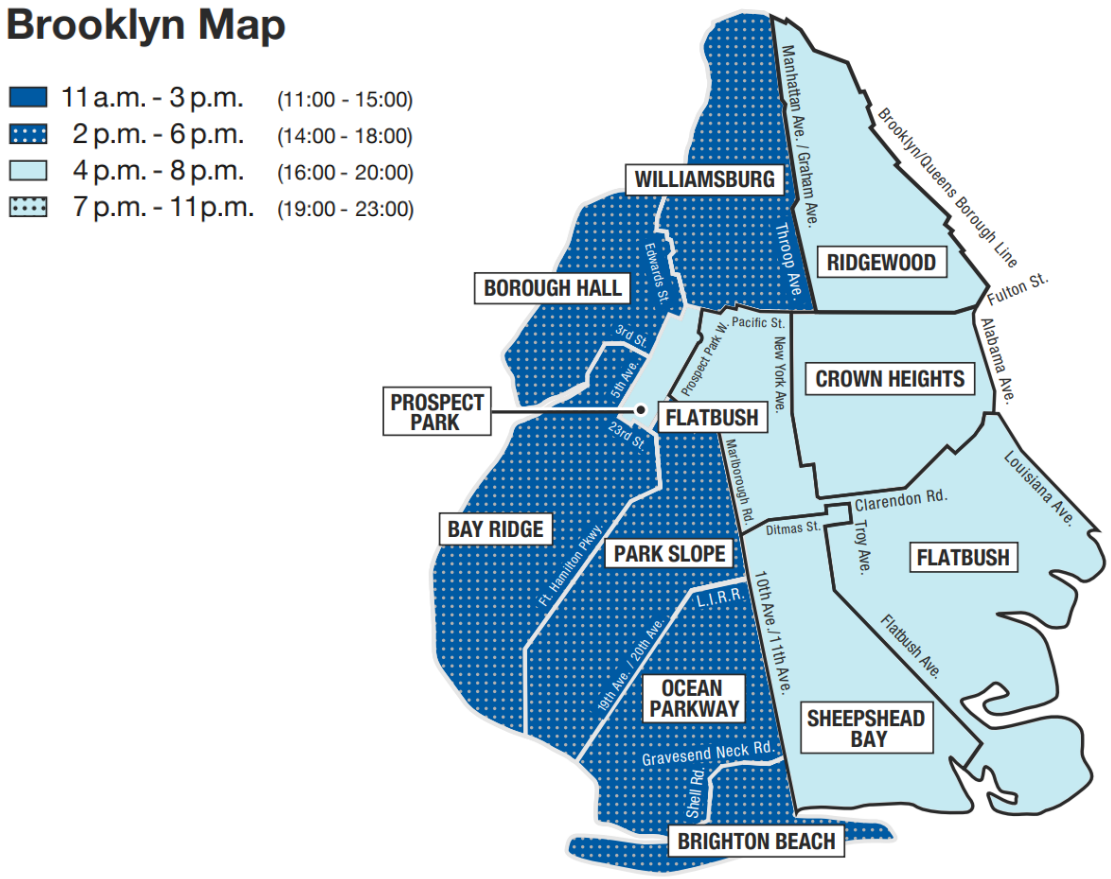
Network Peak Call Window Map

What is a Network Peak Call Window?

Window of time when energy usage is the highest in a designated area

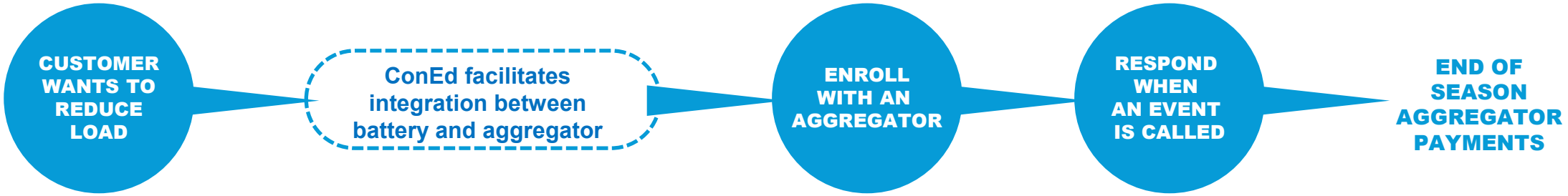
How is Network Peak different than ConEd System Peak?

System peak is the window of time where the most energy is used across the entire Con Edison service territory whereas **network peak** is the window of time when energy usage is the highest in a specified geographic area.



CSRP&DLRP

Customer Journey



Rider AC RFP

Rider AC RFP: Long-term Contracts for DR Resources

RFP Process	Capability Period	Contract Length
November through February with contracts signed by July	May 1 through September 30	3-5 Years

- Competitively procured long term contracts with more demanding performance standards vs. yearly enrolled Rider T CSRP/DLRP programs
  - Penalties for underperformance
  - Ex. 100kW with $100/kW incentive and performance of -0.20 = -$2000
- Applicants provide a single per kW Incentive Rate for each bid which determines annual per kW compensation
- Once clearing bids are determined, Participants are given the chance to accept or reject a contract including all clearing bids

Details

DR RFP Website: Dynamic Load Management Request for Proposals

Filed on the PSC Filing Website

Network Peak Call Windows: Call Windows and Network Tiers

Manhattan	SUTTON	11:00 AM – 3:00 PM
Manhattan	TIMES SQUARE	11:00 AM – 3:00 PM
Manhattan	TRIBORO	2:00 PM – 6:00 PM
Manhattan	TURTLE BAY	11:00 AM – 3:00 PM
Manhattan	WASHINGTON HEIGHTS	4:00 PM – 8:00 PM
Manhattan	YORKVILLE	2:00 PM – 6:00 PM
Queens	BORDEN	2:00 PM – 6:00 PM
Queens	FLUSHING	4:00 PM – 8:00 PM
Queens	JACKSON HEIGHTS	4:00 PM – 8:00 PM
Queens	JAMAICA	4:00 PM – 8:00 PM
Queens	LONG ISLAND CITY	2:00 PM – 6:00 PM
Queens	MASPETH	4:00 PM – 8:00 PM
Queens	REGO PARK	4:00 PM – 8:00 PM
Queens	RICHMOND HILL	7:00 PM – 11:00 PM
Queens	SUNNYSIDE	4:00 PM – 8:00 PM
Staten Island	FOX HILLS	4:00 PM – 8:00 PM
Staten Island	FRESH KILLS	4:00 PM – 8:00 PM
Staten Island	WAINWRIGHT	4:00 PM – 8:00 PM
Staten Island	WILLOWBROOK	4:00 PM – 8:00 PM
Staten Island	WOODROW	4:00 PM – 8:00 PM
Westchester	BUCHANAN	4:00 PM – 8:00 PM
Westchester	CEDAR ST.	4:00 PM – 8:00 PM
Westchester	ELMSFORD #2	4:00 PM – 8:00 PM
Westchester	GRANITE HILL	4:00 PM – 8:00 PM
Westchester	GRASSLANDS	2:00 PM – 6:00 PM
Westchester	HARRISON	2:00 PM – 6:00 PM
Westchester	MILLWOOD WEST	2:00 PM – 6:00 PM
Westchester	MOHANSIC	4:00 PM – 8:00 PM
Westchester	OSSINING WEST	4:00 PM – 8:00 PM
Westchester	PLEASANTVILLE	2:00 PM – 6:00 PM
Westchester	ROCKVIEW	4:00 PM – 8:00 PM

Application Incentives & Payment Example

Aggregator Earnings Potential

Program	Monthly per kW Incentive Rate (Fixed)	Annual per kW Incentive Rate(Bid)	Annual Reservation Payment with 100% Performance
CSRP	$18	-	$18 x 5 months = $90
CSRP + DLRP	$18 + $18 = $36	-	$36 x 5 months = $180
Term-DLM	-	$90	$90
Auto-DLM	-	$180	$180

Term – DLM

Load Forecast Threshold + Event Frequency

Year	92 Percent of Forecasted Summer System Peak (kW)	88 Percent of Forecasted Summer System Peak (kW)	Weekdays above 92 percent of Forecasted Summer System Peak (Days)	Weekdays above 88 percent of Forecasted Summer System Peak (Days)
2020	12,100	11,600	0	3
2021	11,900	11,400	1	6
2022	11,600	11,100	6	8
2023	12,000	11,400	0	4
2024	11,800	11,300	3	7

Auto – DLM

Past DLRP Event Calling Frequency

Year	Days with DLRP Events	Maximum Events any Network was Called For	Test Events
2020	18	13*	1
2021	9	4	1
2022	8	2	1
2023	11	3	1
2024	14	5	1

* In 2020 three networks faced a multiday contingency causing a large number of events to be called in a short period

Rider AC RFP
Customer Eligibility

Customer falls under the following category	Eligibility
Customer enrolled in DLRP	Cannot enroll in Auto-DLM
Customer enrolled in CSRP	Cannot enroll in Term- or Auto-DLM
Customer enrolled in Rider L	
Customer under Contract for Non-Wires Solution Project	
Customer enrolled in Net Energy Metering	
Diesel Generator	
In Term- or Auto-DLM	Forgo DRV and LSRV payments for as long as the Applicant's contractual obligations
	Must meet permit and emissions requirements, if relying on generation
	Aggregator/ customer relationship is exclusive *does not apply to the existing 2021/2022 Vintage Year Contracts
	May bid additional Load Relief capacity into future Non-Wires Solutions projects

Milestones & Deadlines

DLM Competitive Procurement

2024

November

15
RFP Released for Vintage Year 2026 & 2027

20
Con Edison Stakeholder Webinar

December

6
Clarification Questions Submittal Deadline

13
Question Responses

2025

February

7
RFP Response Deadline

March

7
RFP Award Notification/Risk Assessment Start

July

11
Contract Execution 120 days after start of risk assessment

November

1
Early Exit Deadline for 2026 Capability Period

2026

March

1
Enrollment Period Opens for 2026 Capability Period

April

1
Enrollment Period closes for 2026 Capability Period

May

September

November

1
Early Exit Deadline for 2027 Capability Period

Program Implementation

Summer Capability Period

5/1 — **9/30**

Smart Usage Rewards

Relevant Schedules

CSRP & DLRP

Enrollment Period Opens	Enrollment Period Closes	Capability Period Start
Reservation Payment Option		
Wednesday, March 1, 2025	Monday, April 3, 2025	May 2025
Monday, April 3, 2025	Monday, May 1, 2025	June 2025
Voluntary Payment Option		
Wednesday, March 1, 2025	Friday, September 29, 2025	May – September 2025

Rider AC RFP

RFP Release	Questions Deadline	Submittal Deadline
Friday, November 15, 2024	Friday, December 6, 2024	February 7, 2025

Become a Smart Usage Partner Today

- The application takes 3 minutes to fill out!
  - "How To Enroll" section PDF
- API: Get access once you're approved
- You will show up as an aggregator on the customer facing site & can market yourself as a Smart Usage Partner to your chosen market!
  - Find a Smart Usage Partner (customer site)
- Enroll customers before the enrollment deadlines!
  - Opens March 1st, and ends April 1 and May 1 for the 2024 season

Learn More

- Details on the Demand Response Website
- Find out more about our Programs in Rider T, and AC in Con Edison's Electric Tariff

Questions?

DemandResponse@coned.com

www.coned.com/dr

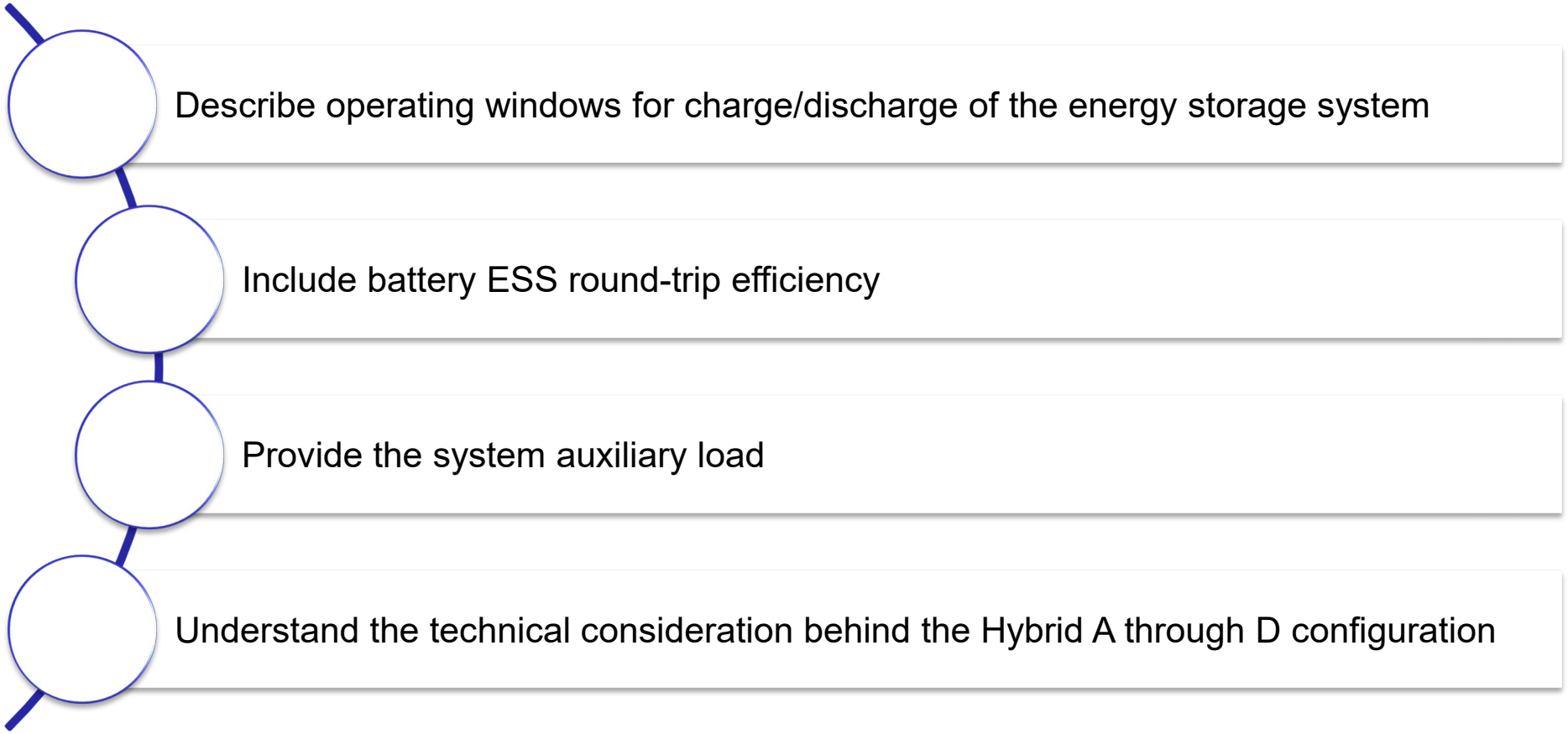
Best Practice - Interconnecting Energy Storage

conEdison

Appendix K Information

Increase communication and enhance alignment between developers and Con Edison

Addressing Common Themes



Critical Components in Appendix K

Scope of Work

- Appendix K provides inputs to the engineering CESIR technical analysis
- Critical components of the appendix:
  - Scope of work
  - System auxiliary loads
  - Operational characteristics
  - Hybrid configuration - option A through D

Applicant Enters:

- HT or LT
- Export Rate
- BESS Capacity (RTE Included)
- DER technology type and nameplate
- Contingency Design
- System Configuration
  - For HT service with an open tie, specify inverter split (e.g. 50/50 or 60/40)

Critical Components in Appendix K

System Auxiliary Loads

- Appendix K provides inputs to the engineering CESIR technical analysis
- Critical components of the appendix:
  - Scope of work
  - System auxiliary loads
  - Operational characteristics
  - Hybrid configuration - option A through D

Applicant Enters:

- System Auxiliary Loads Description
- Size in kVA
- Itemized List, e.g., HVAC, alarms, lighting, communication equipment and etc.

Critical Components in Appendix K

Operational Characteristics

- Appendix K provides inputs to the engineering CESIR technical analysis
- Critical components of the appendix:
  - Scope of work
  - System auxiliary loads
  - Operational characteristics
  - Hybrid configuration - option A through D

Applicant Fills:

- Requested charging window
- Requested discharging window
- Applicants must ensure that the submitted windows align with intended program(s).

Critical Components in Appendix K

Hybrid Configuration

- Appendix K provides inputs to the engineering CESIR technical analysis
- Critical components of the appendix:
  - Scope of work
  - System auxiliary loads
  - Operational characteristics
  - Hybrid configuration - option A through D

Applicant Selects:

- Option A through D
- Note that the customer needs to prove the ESS is being charged by DG exclusively if Hybrid Option A is chosen. The system cannot be charged by the grid.
- Example: this is a Hybrid ESS proposal under Hybrid Option D (stand-alone system with no customer load).

CESIR Study

Contingent Design and Design Options

- Contingency Design
  - To reduce interconnection costs, when requested Con Edison will provide N-1 service design in N-2 areas for “DER only” projects.
  - Any additional requested solution(s) will require a 40-business-day extension to the CESIR.
- Construction of Service
  - Initiated upon receipt of payment for necessary system upgrades outlined in the CESIR.
  - Customers and developers that are offered high tension service will enter an iterative technical design review.

conEdison

CUNY – 2025 NYC Solar + Storage Annual Installer Workshop

March 2025

Email: EVMRP@coned.com

Con Edison Electric Vehicle Incentive Programs

Con Edison E-Mobility Programs & Initiatives Overview

PowerReady
EV Infrastructure Incentives
For Widespread Access to EVs

PowerReady Light-Duty
$613M for light-duty vehicles

PowerReady Medium-Heavy-Duty
$21.5M Pilot for medium and heavy-duty vehicles

PowerReady Micromobility
$18M for e-bikes

SmartCharge
Managed Charging Incentives
Integrating Charging with the Grid

SmartCharge NY
For EV Drivers

SmartCharge Commercial
For commercial charging stations

SmartCharge Tech
For installing load management technology

Customer Education and Support
Guiding the E-Mobility Transition

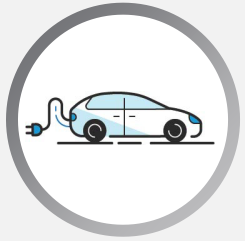
Advisory Services
Providing guidance in the pre-application period for understanding grid capacity and how to plan for upgrades

EV Charging cost calculator
For understanding rates

Connect Services
For sharing opportunities

EV Infrastructure Programs

conEdison



PowerReady Light-Duty Program

Program Overview

Program Description	Providing funding to offset customer and utility-side costs of ensuring that a site has adequate power to install EV chargers for light-duty vehicles $613M
Program Dates	**Start:** July 2020 **End:** December 2025
Program Goals	**L2 Plugs:** 21,371 **DCFC Plugs:** 3,157
Resources	Website Email

Incentive Overview

	Non-Public	Public
Level 2 Plugs	Up to 50% $5-7.5k per plug cap*	Up to 90% $9-13.5k per plug cap*
DCFC Plugs	Up to 50% $400+ per kW cap*	Up to 90% $720+ per kW cap*

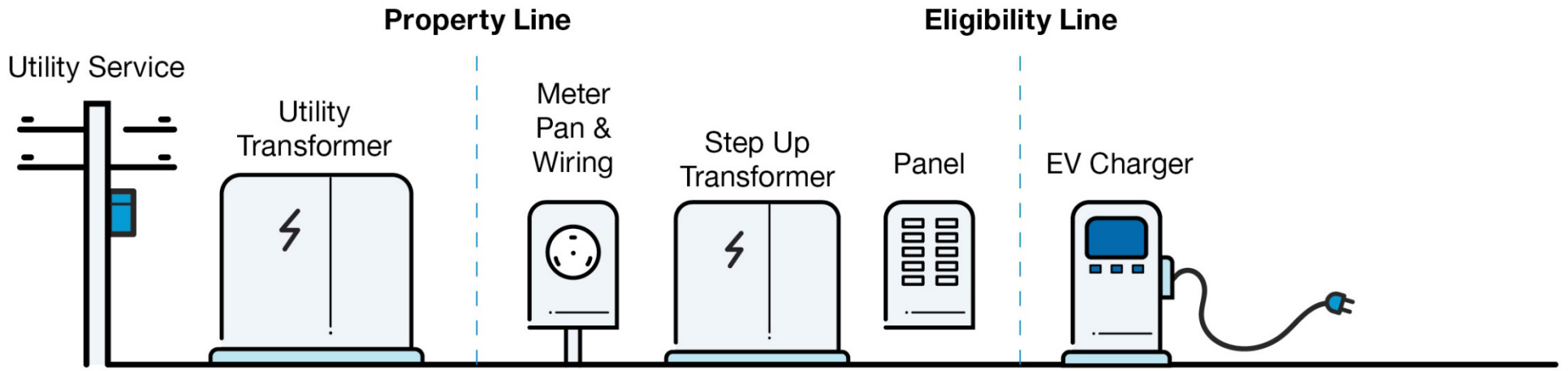
- Project caps can be increased based on specific criteria and characteristics
- Additional incentives are available to projects located within DACs (Disadvantaged Communities)

Eligibility and Requirements

Con Edison	Receive, or plan to receive, service from Con Edison
Plugs	**L2:** Minimum of 2 plugs **DCFC:** 6MW cap for 30+ plugs
Contractor	Customer-side work must be completed by approved contractor
Reporting	5-year reporting requirement pulled on a quarterly basis
Technical Standards	Chargers that participate in PowerReady must comply with ISO and OCPP standards, see “Additional Eligibility Requirements”

Con Edison's PowerReady Program provides incentives for utility-side and customer-side work

What's Eligible?



Eligible For PowerReady Incentives

- Customers may be required to pay for grid upgrades in excess of Con Edison's design requirements
- Panel
- Conduit
- Trenching
- Design
- Permitting
- Step Up Transformers
- Wiring
- Customer Switchgear

Not Eligible for PowerReady Incentives

- Signs
- Bollard
- Network
- Maintenance
- Pedestal
- Charging Station
- Network Equipment
- Station Installation

(L2 chargers qualify for a $4,000 per port NYSERDA rebate)

Con Edison Constructs | **Customer Constructs**

conEdison

MHD Make-Ready Pilot

Program Overview

Program Description

To encourage the development of medium- and heavy-duty charging infrastructure, we are offering incentives that can offset utility and customer-side costs for qualifying commercial sites.

Funding

$21M

Program Dates

Available now, while funding is available

Resources

Website Email Application

Incentive Overview

		Non-Publicly Accessible (Voucher Program Required)		Publicly Accessible
Located within, partially within, or adjacent to a Disadvantaged Community*	**Yes**	Utility-side costs:	Up to 90% of costs	Utility-side costs: Up to 90% of costs Customer-side costs: Up to 50% of costs Or $490/kW cap
		Customer-side costs:	Up to 50% of costs Or $490/kW cap	
	No	Utility-side costs:	Up to 90% of costs	
		Customer-side costs:	N/A	

*Disadvantaged communities (DAC) are defined as communities that bear burdens of negative public health effects, environmental pollution, impacts of climate change, and possess certain socioeconomic criteria, or comprise high concentrations of low- and moderate-income households. See map to determine if your site is in a DAC zone.

Program Requirements

MHDV

For charging MHDV over 10,000 lbs. gross vehicle weight

Chargers

L2, DCFC, or mixed

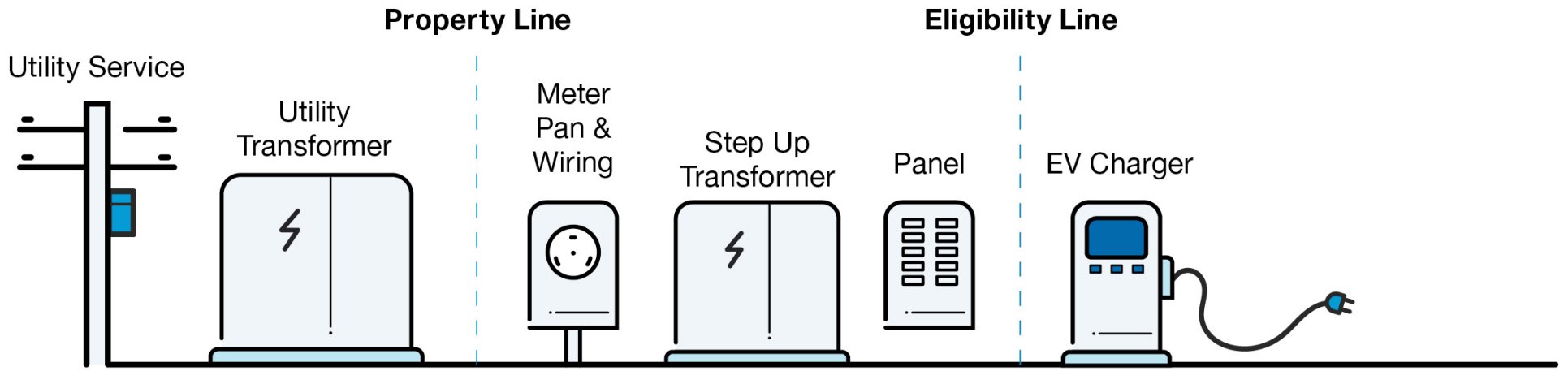
Non-Publicly Accessible Sites

Must be participating in one of the following voucher programs:

- NYSERDA Truck Voucher Incentive Program
- NYC DOT NYC Clean Trucks Program
- EPA Clean Heavy-Duty Vehicles Program
- EPA Clean School Bus Program
- NYSERDA NY School Bus Incentive Program

Con Edison's MHD Make-Ready Pilot can provide incentives for both utility side and customer side work

What's Eligible?



Eligible for MHDV Pilot	DAC or publicly accessible only		Not Eligible for MHDV Pilot Incentives	
• Customers may be required to pay for grid upgrades in excess of Con Edison's design requirements	• Panel • Conduit • Trenching • Design • Permitting	• Step Up Transformers • Wiring • Customer Switchgear	• Signs • Bollard • Network • Maintenance • Pedestal	• Charging Station • Network Equipment • Station Installation
Con Edison Constructs	**Customer Constructs**			

conEdison

PowerReady Micromobility Program

Program Overview

Program Description	As e-bikes gain popularity, safe and reliable charging becomes even more crucial. Con Edison is offering incentives to offset electric infrastructure costs associated with installing chargers for e-bikes
Funding	$18M
Program Dates	**Start:** November 2023
Website	**coned.com/micromobility**
Email	dl-micromobility@coned.com

Incentive Overview

Utility-Side Costs	Customer-Side Costs
Up to 100% of utility-side costs*	Up to 50% of customer-side costs

Program Requirements

Electric Service	Must receive, or plan to receive, electric service from Con Edison		
Eligible Sites	Publicly accessible and located within a Disadvantaged Community (DAC)**	**OR**	In or adjacent to a multiunit dwelling where 25% of the units are at or below 80% of the Area Median Income (AMI)
Data Reporting	Quarterly basis		

*Participants may be responsible for some utility-side costs if the project is located on the curb
**For more information on DAC and to view the map, visit: Disadvantaged Communities - NYSERDA

Micromobility chargers can be categorized into two main types

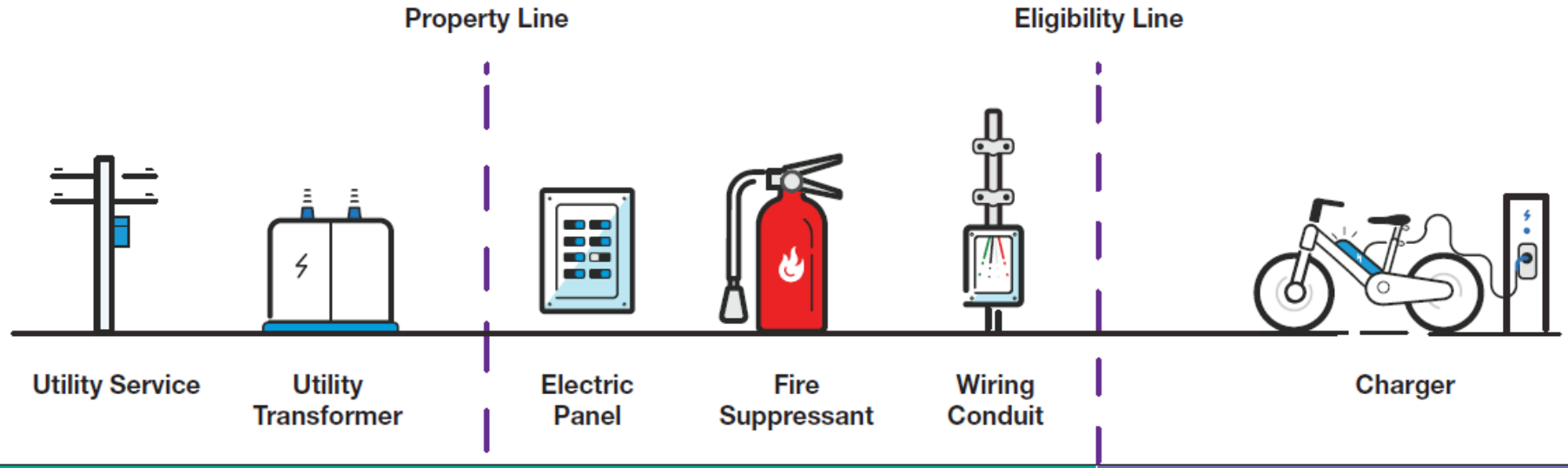
Docking Stations

Park e-bike & charge

Battery Charging Cabinets*

Remove battery to charge. Will require additional approvals and permits in NYC.

Con Edison's Micromobility Incentive program provides incentives for both utility side and customer side work



Eligible for Micromobility Incentives			Not Eligible for Micromobility Incentives	
• Customers may be required to pay for grid upgrades in excess of Con Edison's design requirements	• Panel • Conduit • Trenching • Design • Permitting	• Fire Suppressant • Wiring • Customer Switchgear	• Signs • Bollards • Network • Maintenance • Pedestal	• Charging Station • Network Equipment • Station Installation
Con Edison Constructs	**Customer Constructs**			

Managed Charging Programs

conEdison

SmartCharge New York

Program Overview

Program Description	The program offers cash incentives to EV drivers for charging their EVs at off-peak times, which reduces stress on the energy grid
Funding	$100M
Program Dates	**Start:** 2017, updated Jan 2023 **End:** December 2025
Website	https://scny.ev.energy/
Email	scny@ev.energy.com
Support No.	419-909-6237

Charging Incentive Overview

Off-Peak Charging Incentive (Year-round, baseline)	• **$0.10 per kWh incentive for off-peak charging:** All days, year-round, between 12 AM - 8 AM
Summer Peak Avoidance Incentives (Jun 1 – Sep 30)	• **$35 per month for avoided Summer Peak Incentive:** Earn per vehicle or charging station for avoiding charging throughout the whole month, weekdays 2-6PM • **Bonus for avoiding the full peak window all summer** Earn an additional $35 for avoiding peak charging during entire summer from Jun 1 – Sep 30

Eligibility and Requirements

Participants	Residential EV Drivers and Commercial Light-Duty Fleets
Locations	Charge with any charger in New York City or Westchester
Rate	Must be on standard rate (not Time-of-Use rate)
Connection	Must have compatible EV telematics or charger to participate
Charging Data	Must be able to provide location and energy use data
Eligible Models	Currently 56 models, 5 chargers. See FAQ for latest list

conEdison

SmartCharge Commercial

Program Overview

Program Description
The program offers a predictable cash incentive revenue stream for charging during off-peak periods and overnight

Funding
$239M

Program Dates
Start: January 2024

Resources
Website Email

Charging Incentive Overview

The more you shift to overnight and off network peak, the more you earn

			L2 Charger	DCFC Charger
Off Peak	Earn incentives **all days, year-round** for charging overnight		**$0.03** per kWh earned while charging from 12 AM – 8 AM	
Peak Avoidance	Earn incentives during **4-hour network peak** window with every kW avoided relative to nameplate capacity	Private	**$10** per kW avoided from Jun – Sep **$2** per kW avoided from Oct – May	
		Public	**$17** per kW avoided from Jun – Sep **$6** per kW avoided from Oct – May	**$20-26** per kW avoided from Jun - Sep **$8** per kW avoided from Oct – May

Requirements

Con Edison
Receive, or plan to receive service from Con Edison

Charger Ownership
Show proof of ownership/operating agreement of chargers or provide an application and data management authorization letter

Eligible Rates
SC8 I, II, III; SC 9 I, II, III; SC12 I, II, or III billed for both energy and demand; SC13 Rate I; PASNY Rate I or II

Charger Data
Provide 15-minute interval data

Eligible Stations

- Public station
- Workplace
- Light-duty, medium-duty, heavy-duty fleets
- Multifamily housing
- Industrial locations

Con Edison's *Charging Calculator* will help you understand your future electricity costs

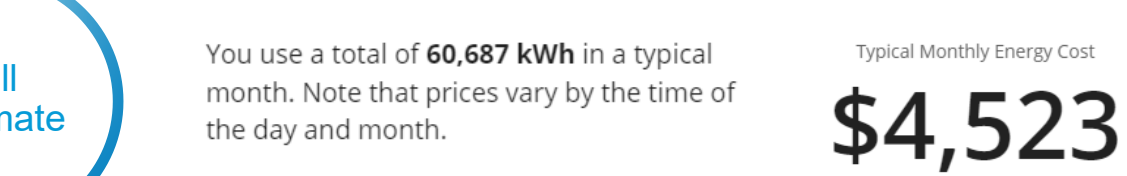
Description

A web tool designed to help you understand the potential electric costs associated with EV charging and the best rate for you, as well as how our operating cost relief programs can benefit you

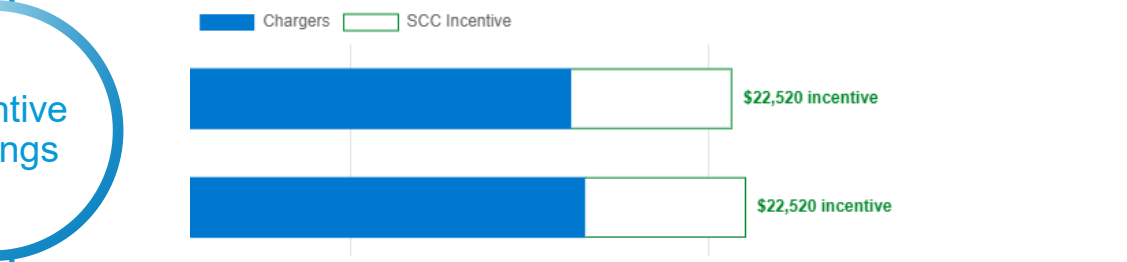
Directions are included on the web tool. You can also reach out the advisory services team to help you navigate the web tool.

Website: charging.coned.com

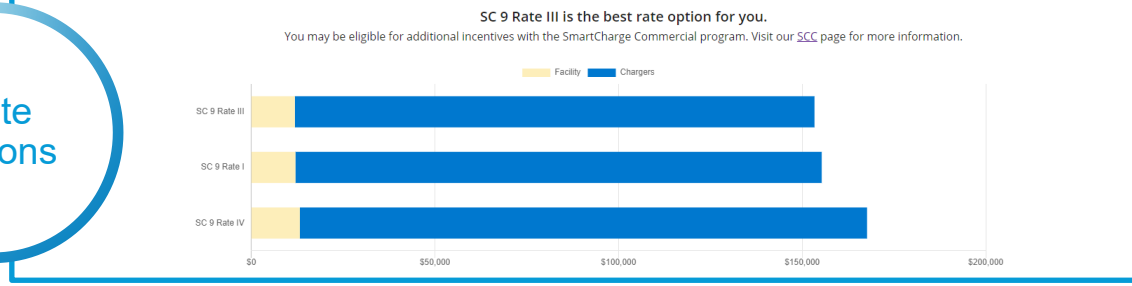
Bill Estimate



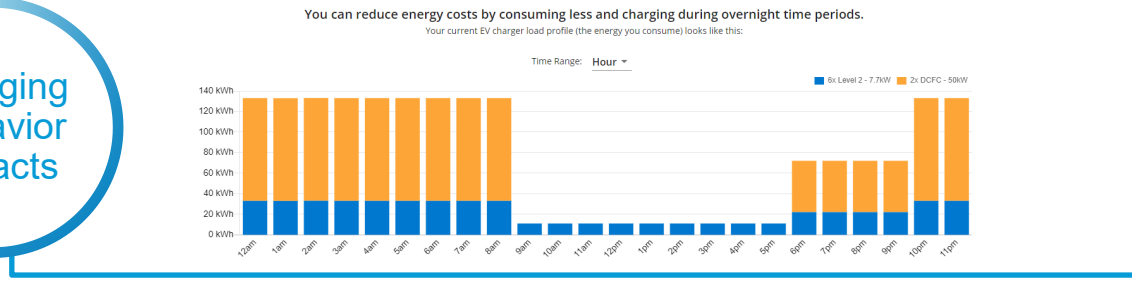
Incentive Savings



Rate Options



Charging Behavior Impacts



The more you shift off network peak, the more you earn Standard(Private) Peak Avoidance ~Incentives

% of nameplate capacity reduced during 4-hour peak window[1]	Charging Station Size and Associated Standard Offering Annual Incentive[2]				
	Total kW based on nameplate capacity				
	100 kW	*500 kW*	*1000 kW*	*1500 kW*	*2000 kW*
	Approximate # of L2 or DCFC Chargers				
	~ 14 L2 Chargers OR ~1 DCFC Chargers	*~70 L2 Chargers OR ~5 DCFC Chargers*	*~140 L2 Chargers OR ~10 DCFC Chargers*	*~210 L2 Chargers OR ~15 DCFC Chargers*	*~280 L2 Chargers OR ~20 DCFC Chargers*
100%	$5,600/yr	$28,000/yr	$56,000/yr	$84,000/yr	$112,000/yr
75%	$4,200/yr	$21,000/yr	$42,000/yr	$63,000/yr	$84,000/yr
50%	$2,800/yr	$14,000/yr	$28,000/yr	$42,000/yr	$56,000/yr
25%	$1,400/yr	$7,000/yr	$14,000/yr	$21,000/yr	$28,000/yr
0%	$0/yr	$0/yr	$0/yr	$0/yr	$0/yr

1. See appendix for peak window by network
2. Assuming 7.2 kW for L2 charger and 100 kW for DCFC charger

You can earn more with $0.03/kWh for overnight charging!

SmartCharge Tech

Program Overview

Program Description	Providing funding to offset costs of load management systems and battery storage to enable a site to balance and shift EV charging load
Funding	~$6M
Program Dates	**Program Launch:** Oct 18,2024, 2024
Website	coned.com/smartchargeteh
Email	dl-SCTApplications@coned.cor

Incentive Overview

Technology Segments	Tier 1: Enrollment to SCC	Tier 2: Enrollment to DCR*
Load control software	Up to 90%	Up to 45%
Battery storage	Up to 60%	Up to 30%
Load limiting hardware	Up to 60%	Up to 30%

NOTE: Tier 2 includes participants enrolled in SCC & DCR

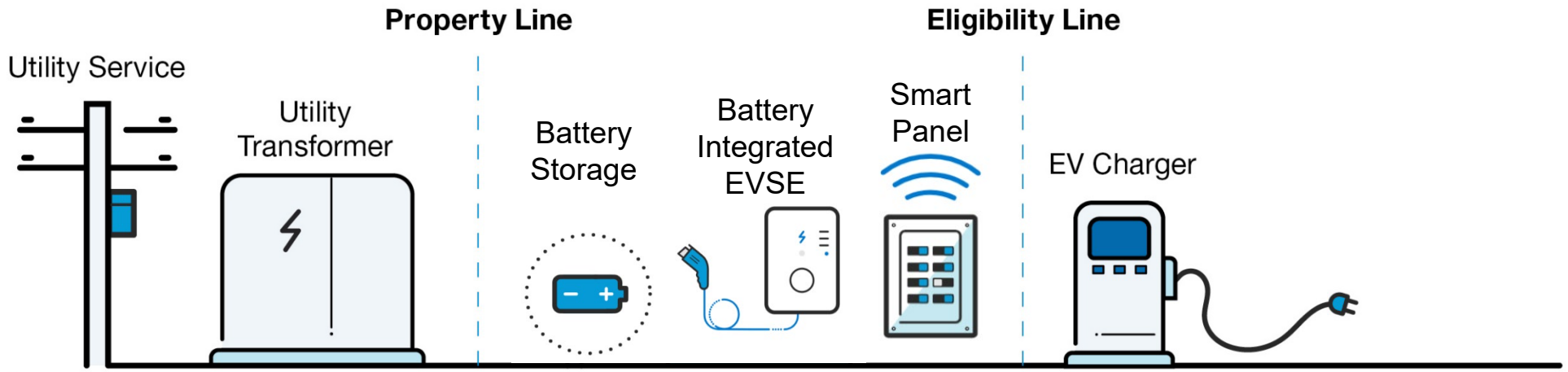
Eligibility and Requirements

Con Edison	Receive, or plan to receive, service from Con Edison
Participants Requirement	Participants are required to be enrolled in one of following: • SmartCharge Commercial or • Demand Charge Rebate program
Site Eligibility	New and existing sites are eligible, technology adopted post Order (August 19, 2024)

Novel technologies can be submitted for review for potential eligibility

SmartCharge Tech can provide incentives for both utility side and customer side work

What's Eligible?



SmartCharge Tech Technology List

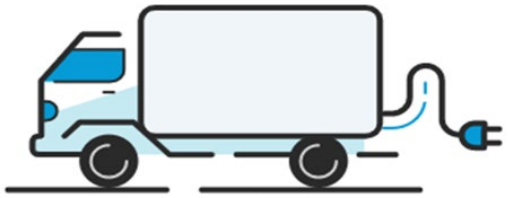
Novel technologies can be submitted for review for potential eligibility. See https://jointutilitiesofny.org/ev/lmtip for latest details

Technology	Eligible Costs	Minimum Capabilities	Technology Types	Required Certifications
Load Management Software	Up to five years of software costs that provides active load management for EV charging stations	• Manage the charging of all EVSE included in the application	All Software	• NEC 625.42 • OCPP conformance • Open ADR conformance
			Storage Applications	• Modbus
Load Management Hardware	Equipment with load-limiting functionality to EV charging stations, without energy storage. Examples: power cabinets, switches to enable power sharing, load monitoring, communications, or safety hardware	• Manage the charging of all EVSE included in the application	All Hardware	• NEC750
			Control Panels	• UL916
			Power Control Systems	• UL3141
			Inverters & Converters	• UL 62109
On-Site Energy Storage	Behind-the-meter battery energy storage systems that support EV charging stations. Example Use cases: to minimize demand charges, avoiding disruption to power, and delivering the maximum capacity to chargers using power sharing at a site.	• Meet utility requirements for sizing (discharging the minimum power to the minimum number of plugs simultaneously) • Min of 70% round-trip efficiency maintained • Connected to the grid • 10+ year manufacturer warranty for system	All Storage Applications	• NEC 750 • UL1973 • UL9540
Energy Storage-Integrated EVSE	EV charging station and ports are not eligible, but incentives are available for the incremental price of the energy storage component of battery-integrated EV chargers.	• Meet utility requirements for sizing (discharging the minimum power to the minimum number of plugs simultaneously) • Min of 70% round-trip efficiency maintained • Connected to the grid • 10+ year manufacturer warranty for system	All Storage Applications	• NEC 750 • UL1973 • UL9540

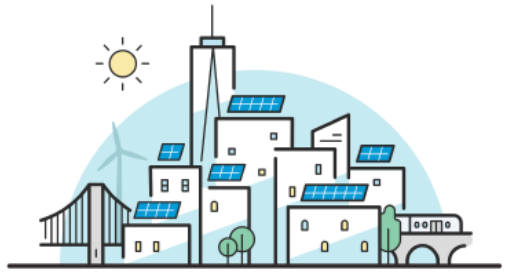
Con Edison Resources

Con Edison Advisory Services available to provide guidance during electrification process

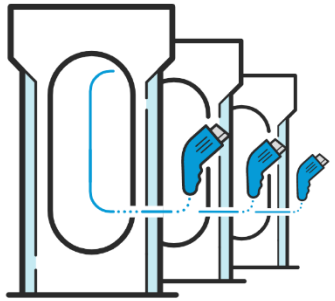
Con Edison has developed an EV Advisory Service to help you understand the grid capacity where you operate, how to plan for any upgrades that may be needed, and what electric rates may be best for you. You should engage with advisory services if you are:



A Light, Medium, Heavy Duty Fleet Operator



A Developer unsure of where to site your next project



Interested in installing a charging hub

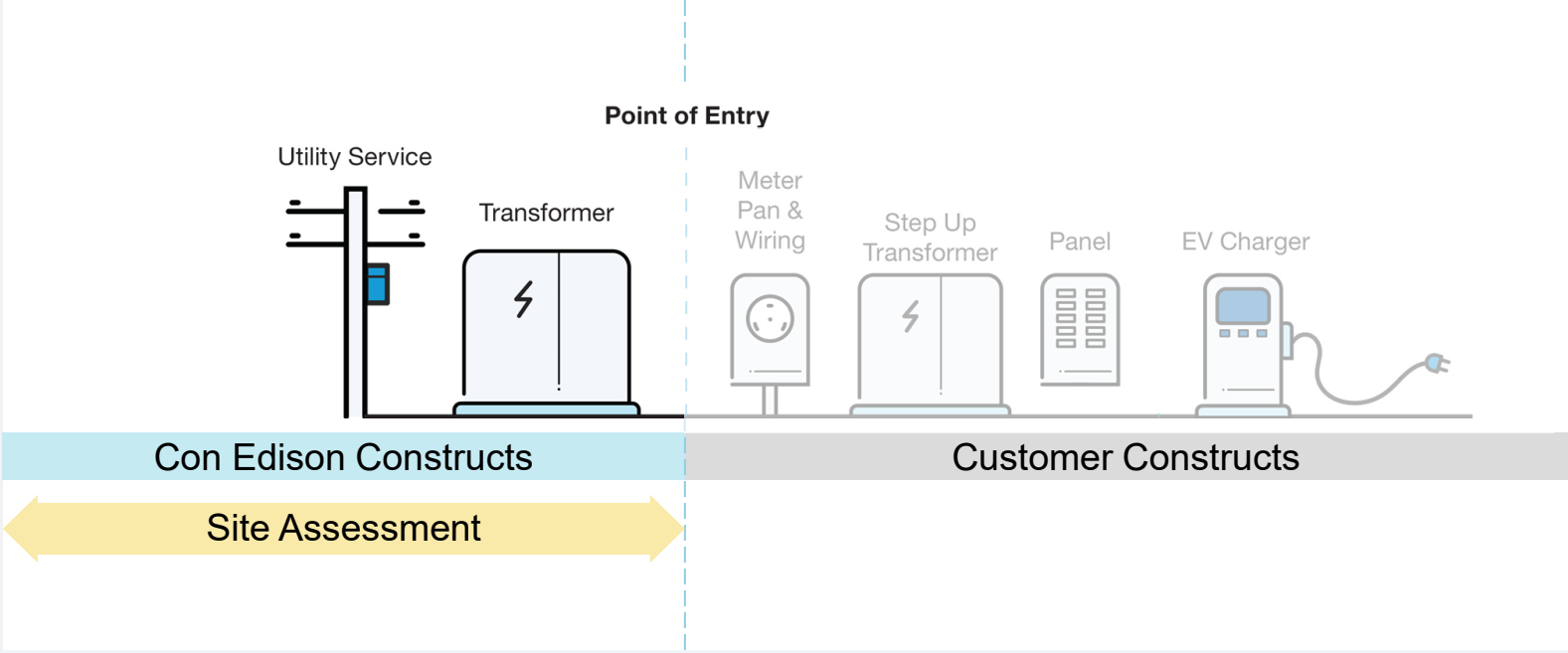
Unsure of where to start on your EV charging journey!

A *Site Assessment* provides a preliminary look at utility-side upgrades needed to support your EV project

Results

- Whether an existing service is expected to be adequate to support a proposed EV load
- The type and magnitude of utility-side work that may be required
- General timeline to expect for utility-side work if needed

A site assessment is not an authorization to install chargers or begin construction. Results are not guaranteed and do not replace a formal service application



Site Assessment Process

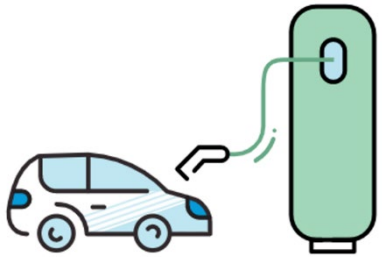
1. Customer submits a request form with EV load details and a Letter of Authorization if applicable
2. Advisory team performs a Site Assessment within two weeks or less
3. Results are shared with customer. Advisory is available to explain results and next steps

Program Resources

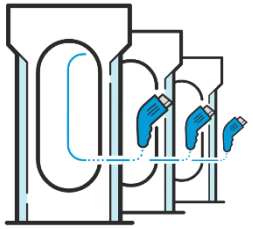
Resource	Details
ConEdison PowerReady Website	Incentive website including program information and resources.
PowerReady FAQs	Program Frequently Asked Questions.
Capacity Map/DAC Map	Look up your address on Con Edison capacity map.
Register – PowerReady Program Portal	Register for the PowerReady Program Portal.
Apply Now – PowerReady Program Portal	Apply for the PowerReady Program Portal.
PowerReady Program Portal Directions	Step by step directions to apply to the program.
Approved Contractor List	List of charger installers approved to participate in PowerReady.
Participant Guide	Includes program specifics, such as eligibility criteria and requirements.
EV Charging Cost Calculator	EV Charging cost calculator to determine bill impacts of charging.
EV Rates Webinar Replay	Video reviewing rate options for EV developers and customers.
EVMRP@coned.com	Reach out with any program questions or to start your project.

- **Lead the Charge!**

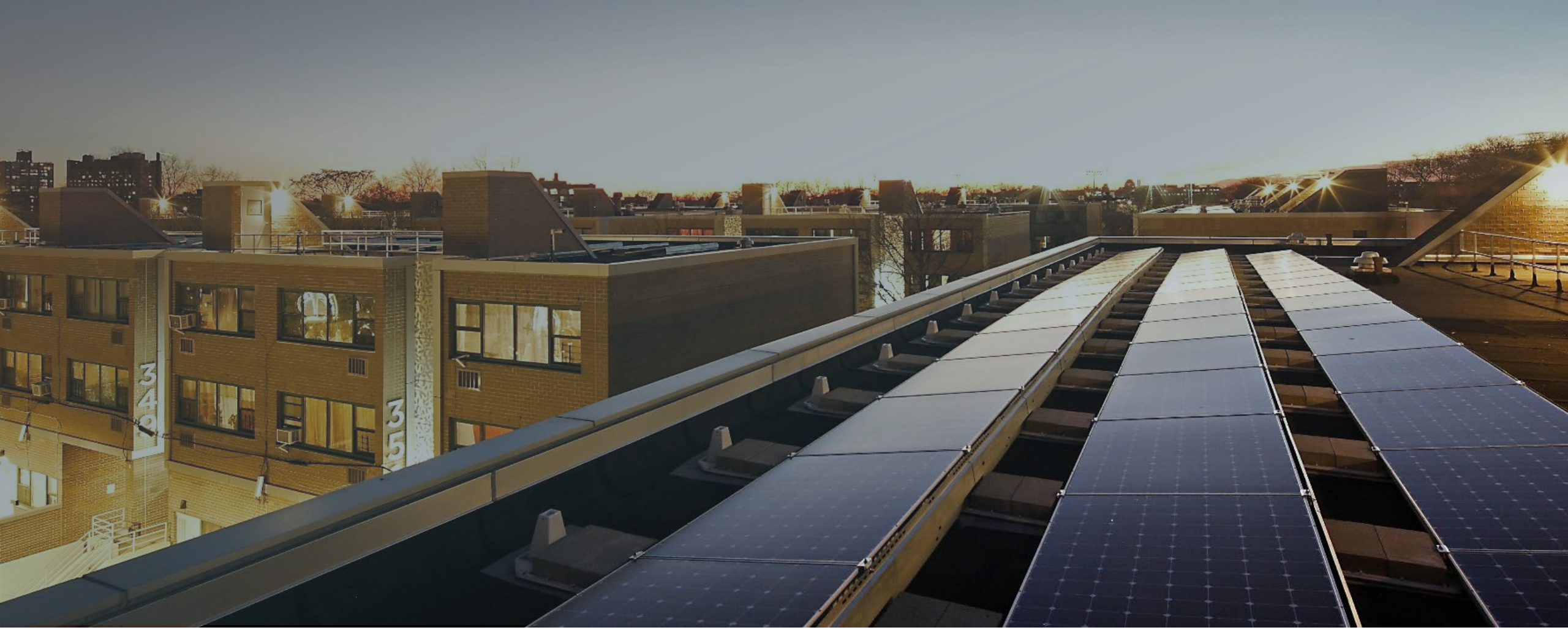
Forecasts indicate EVs will be responsible for 1/3rd of all car sales by 2025



EV Drivers save over $500 and 72 lbs of CO_2 on average a year vs. gas drivers



Studies have shown EV charging stations at commercial sites increased average EV driver dwell time by 50 minutes



Non-Wires Solutions Overview

March 27, 2025

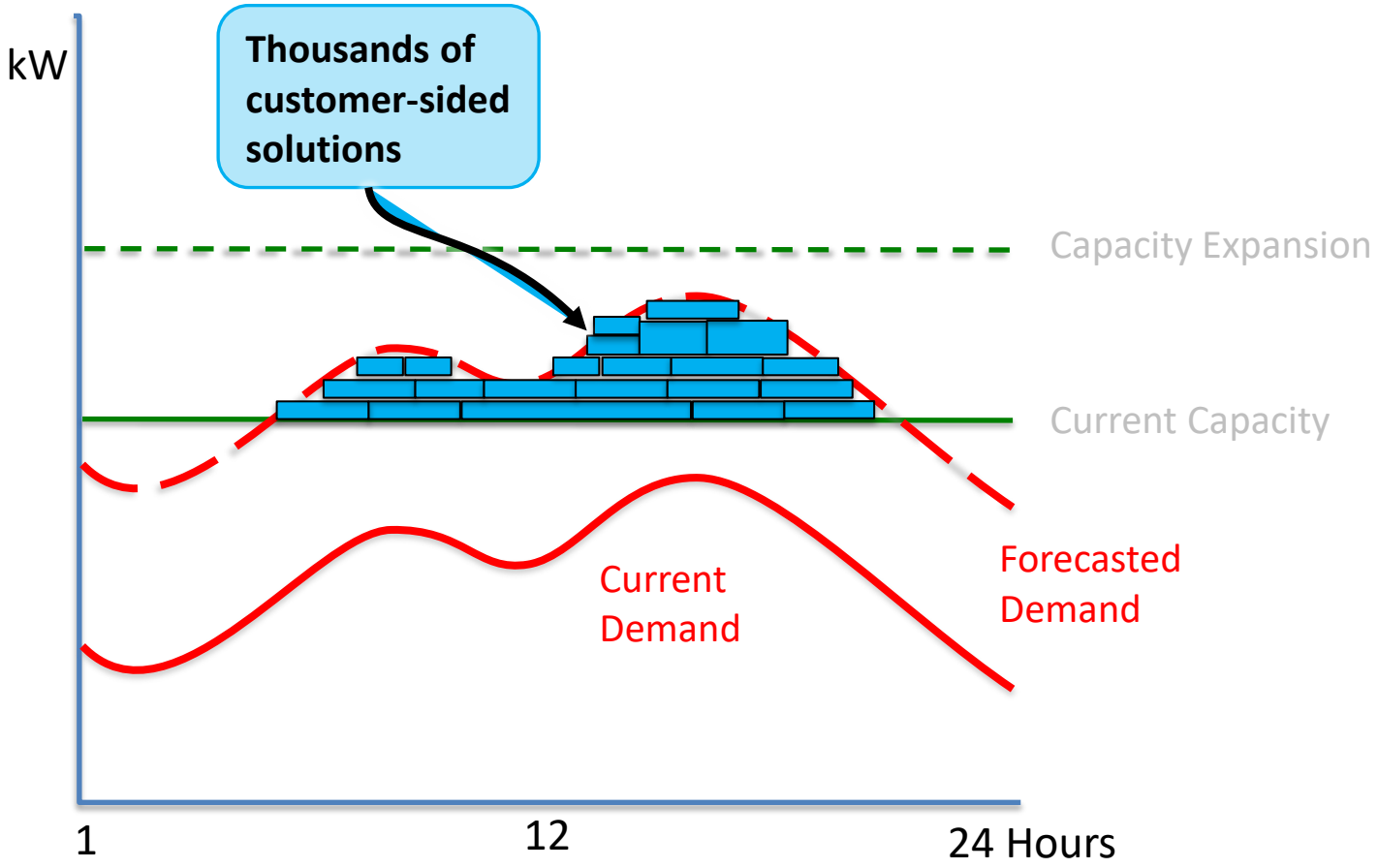
conEdison

Agenda

- Non-Wires Solutions Overview
- Portfolios and Program Structure
- Future NWS Opportunities

Non-Wires Solution (NWS) Overview

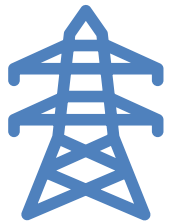
An NWS Project is a portfolio of non-traditional solutions that seek to defer or eliminate traditional infrastructure projects for the benefit of the distribution system



NWS provides benefits by:

- Working with customers to implement cost effective solutions that benefit communities
- Implementing portfolios that provide a net benefit to society
- Incentivizing innovative technologies
- Accelerating adoption of EE technologies

Selecting the *Neighborhood* for the Neighborhood Program



Energy Forecasting

Infrastructure Capital Plans

NWS Assessment

NWS Plan / Market Solicitations

Summary of NWS Portfolios

Jamaica

- Designed to eliminate equipment upgrades at Jamaica Substation
- Released RFP in 2023 to seek load relief through 2027

Brooklyn Queens Demand Management (BQDM) Program

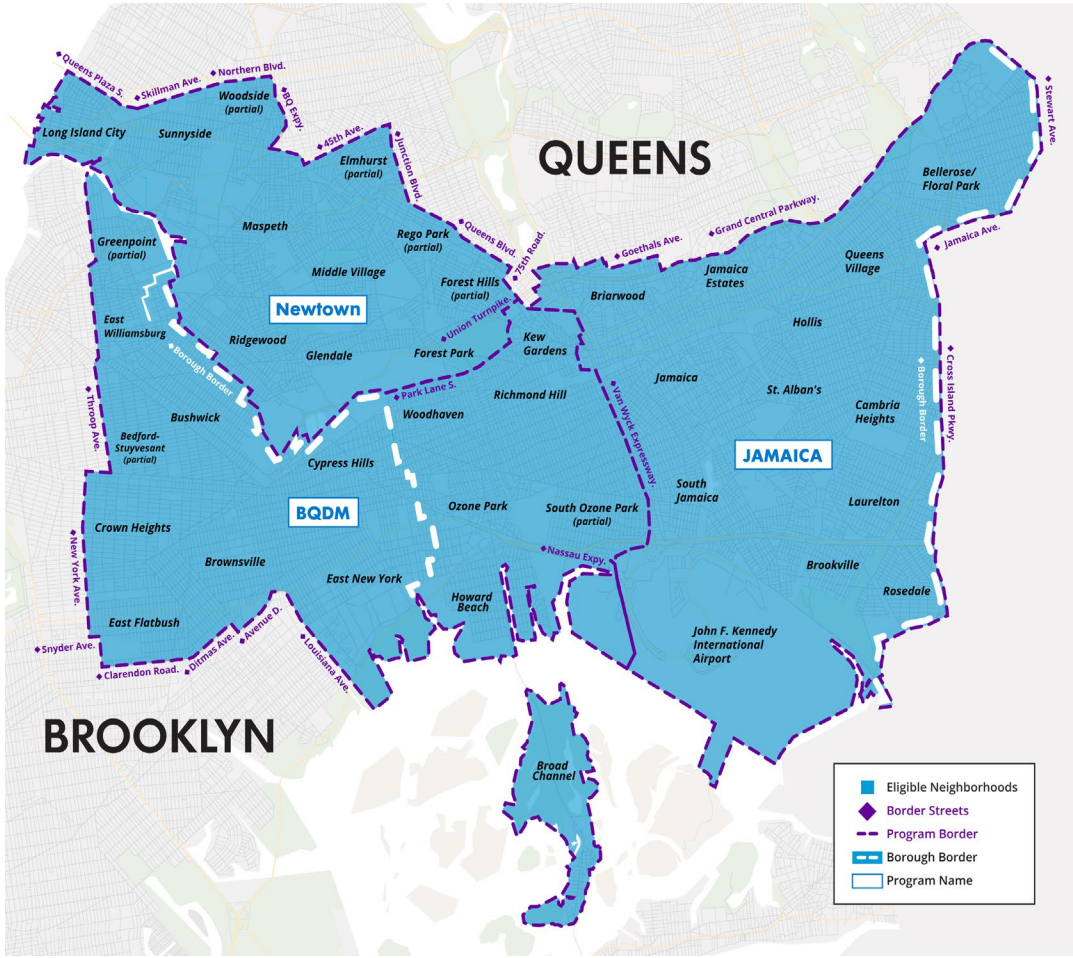
- Designed to defer new Gateway Substation
- Launched in 2014 and extended in 2017
- Released Prescriptive ESS program in 2022

Newtown

- Designed to defer load transfer from Newtown to North Queens
- Released RFP in 2019 for deferral from 2021 to 2025

Water Street (Closed)

- Successfully eliminated equipment upgrades at Water Street, Plymouth Street, and Farragut Supply Stations
- Commenced in 2018 for reductions needed for 2019 through 2021



Current Battery Storage Projects in NWS

	Jamaica	BQDM	Newtown	Water St
Battery Energy Storage Systems	3	5	3	1
Contracted Load Relief	5 MW	10.1 MW	9.8 MW	0.5 MW
Operational Date	Summer 2026	Summer 2026	Summer 2024	Summer 2021
Procurement Pathway	RFP	Prescriptive	RFP	RFP
BTM or FTM	FTM	Mix of BTM & FTM	FTM	FTM

ConEd called 18 NWS events in 2024 from May 1st – September 30th, where operational Battery Energy Storage Systems dispatched to the grid during peak demand times based on NWS event criteria

Case Study – Borden Ave Newtown Energy Storage System

- Newtown NWS Portfolio provided 21 MW of Total Peak Demand Reduction (kW)
- Front of the Meter BESS (4.7 MW)
- 50% installation incentive upon commercial operation date, 50% annual performance incentive
- Installed in summer 2024, performance contracted through summer of 2033
- Each BESS is contracted for summer dispatch to provide associated load reduction
- ConEd NWS has First Rights of Dispatch
- Multiple value streams for customer

Borden Ave - NWS Battery Energy Storage System

General Program Structure and Requirements

Applicant commits to:

- Limit projects to 5 MW of load reduction
- Follow NYS Standardized Interconnection Requirements (SIR)
- Use BESS technology approved for use in NYC
- Choose service connection that meets local reliability standard (e.g. N-2)
- Provide first-right-of-dispatch during the Summer Performance Period (May 1st – September 30th)
- Min. of 4 consecutive hours guaranteed load reduction
- Not participate in conflicting programs/markets
- Comply with Measurement & Verification plan

Con Edison commits to:

- Pay 50% of incentive upon approved operationality
- Pay up to 50% over 10-year contract term based on performance
- Provide 21-hour notification of NWS Events

Battery Energy Storage System in Woodside, Queens

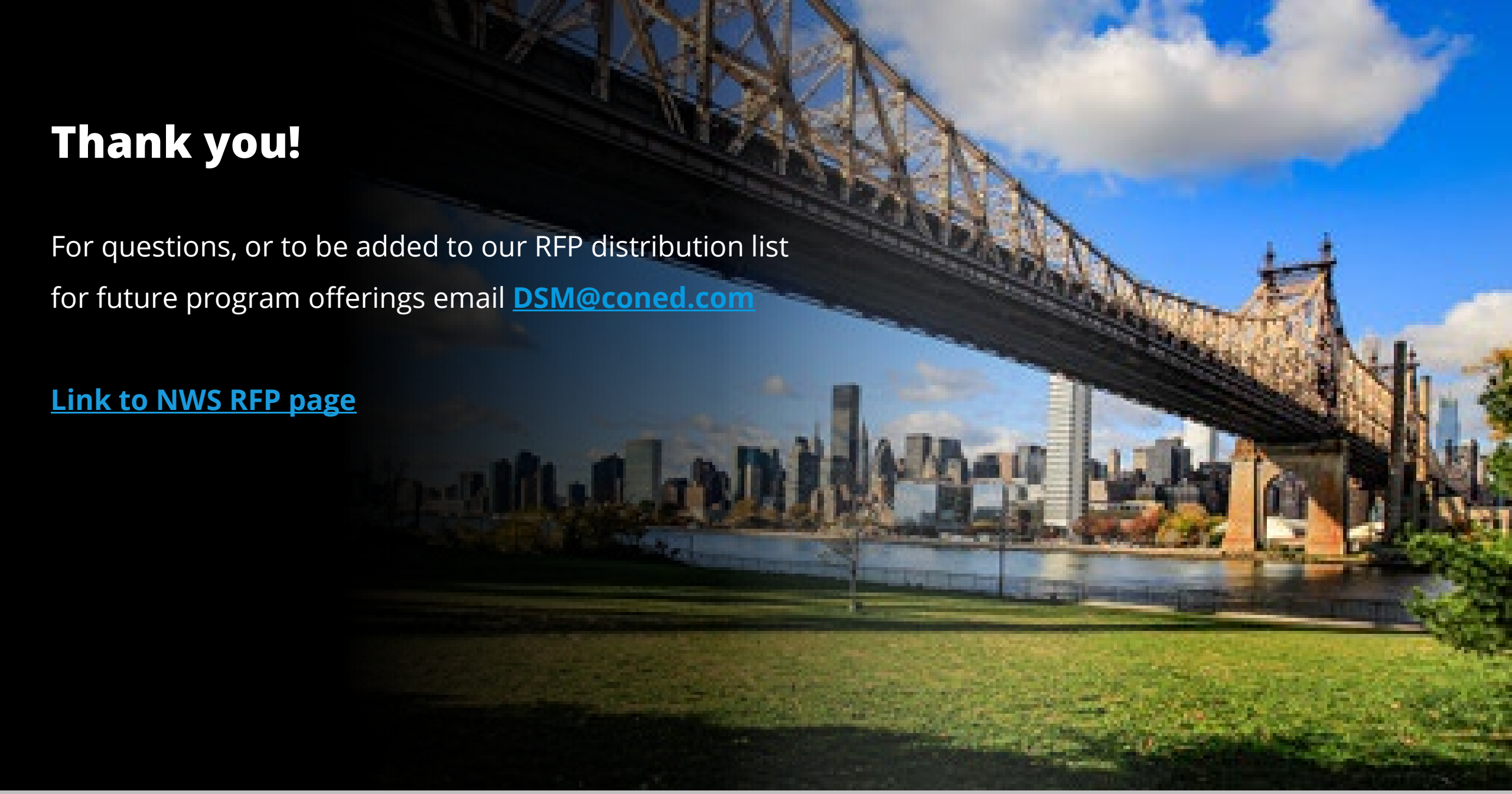
Future NWS Opportunities

- For the latest program info check out:
  - **NWS RFP page,** view past opportunities
- To make sure you don't miss announcements please reach out to us to be added to our distribution list at DSM@coned.com
- Interested developers, **email us** to set up an introduction meeting

Thank you!

For questions, or to be added to our RFP distribution list for future program offerings email DSM@coned.com

Link to NWS RFP page



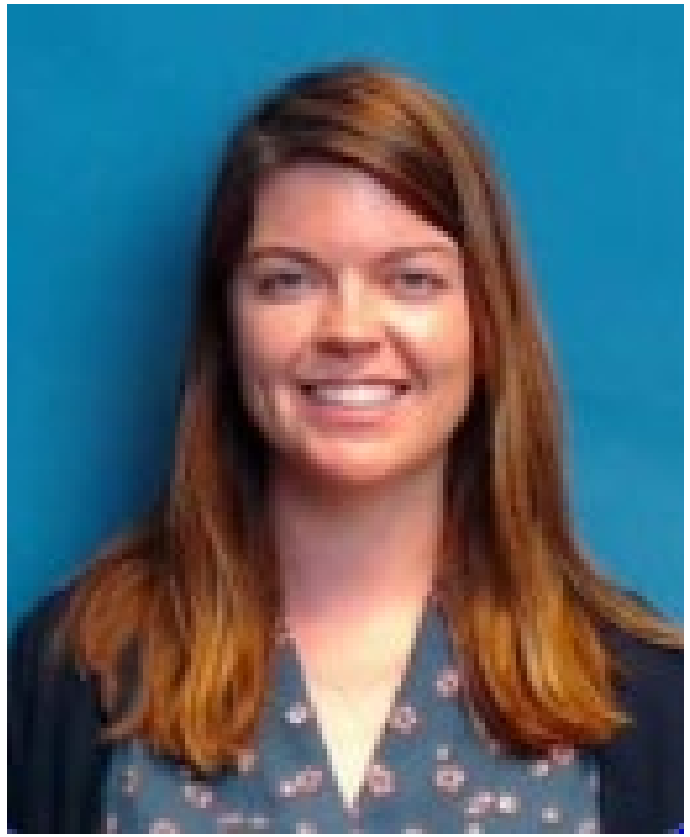
Con Edison DG Ombudsman Team

2025 CUNY Solar and Storage Installers Workshop

March 27th, 2025

conEdison

New Additions to the DG Team



Brittany Allerdings

Constantine Spanos

DG Team Roles and Responsibilities

8 CORE STAFF MEMBERS

- PROJECT MANAGERS SPANNING TECHNICAL AND POLICY

100 MW/YEAR OF PROJECTS

CUSTOMER DG TO-DATE:

- OVER 1GW OF DG INSTALLED
- 700 MW CUSTOMER SOLAR
- 96 MW CUSTOMER ESS

DESIGN + TECH INNOVATION

- NOVEL PROTECTION & CONTROLS HARDWARE
- NEW INTERCONNECTIONS

BETTER WAYS OF WORKING

- SYSTEM ENHANCEMENTS
- IMPROVED COORDINATION WITH T&D SME's

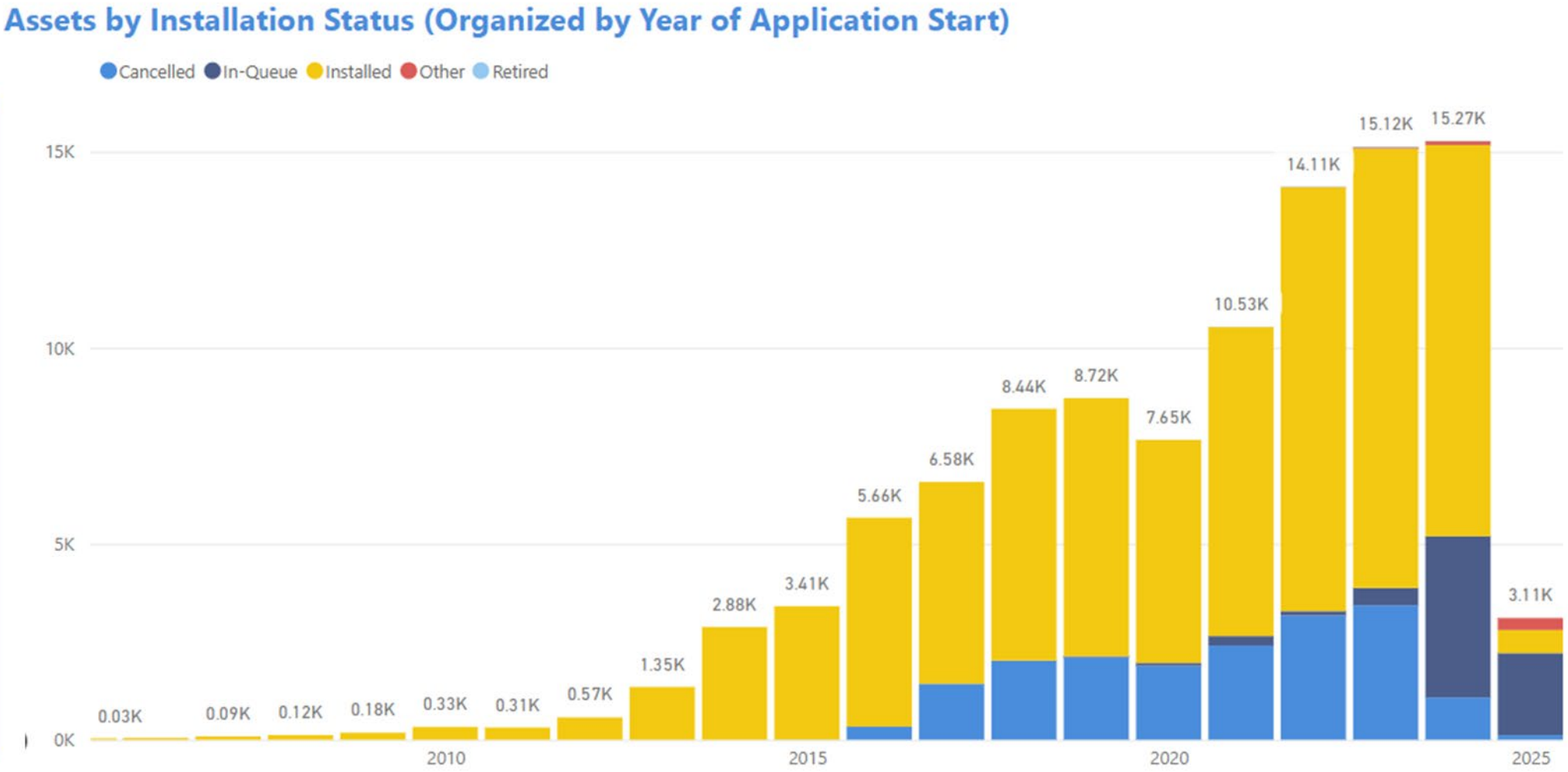
DG Interconnections Over Time

104,735
Total DER Assets

78,866
Installed DER Assets

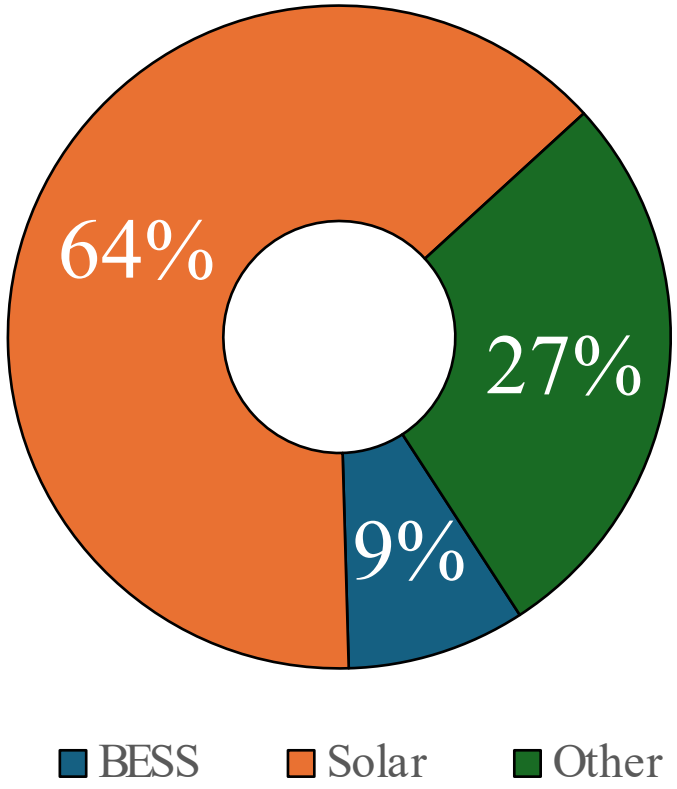
7,129
In-Queue DER Assets

292.90
Avg Size In-Queue (KW)

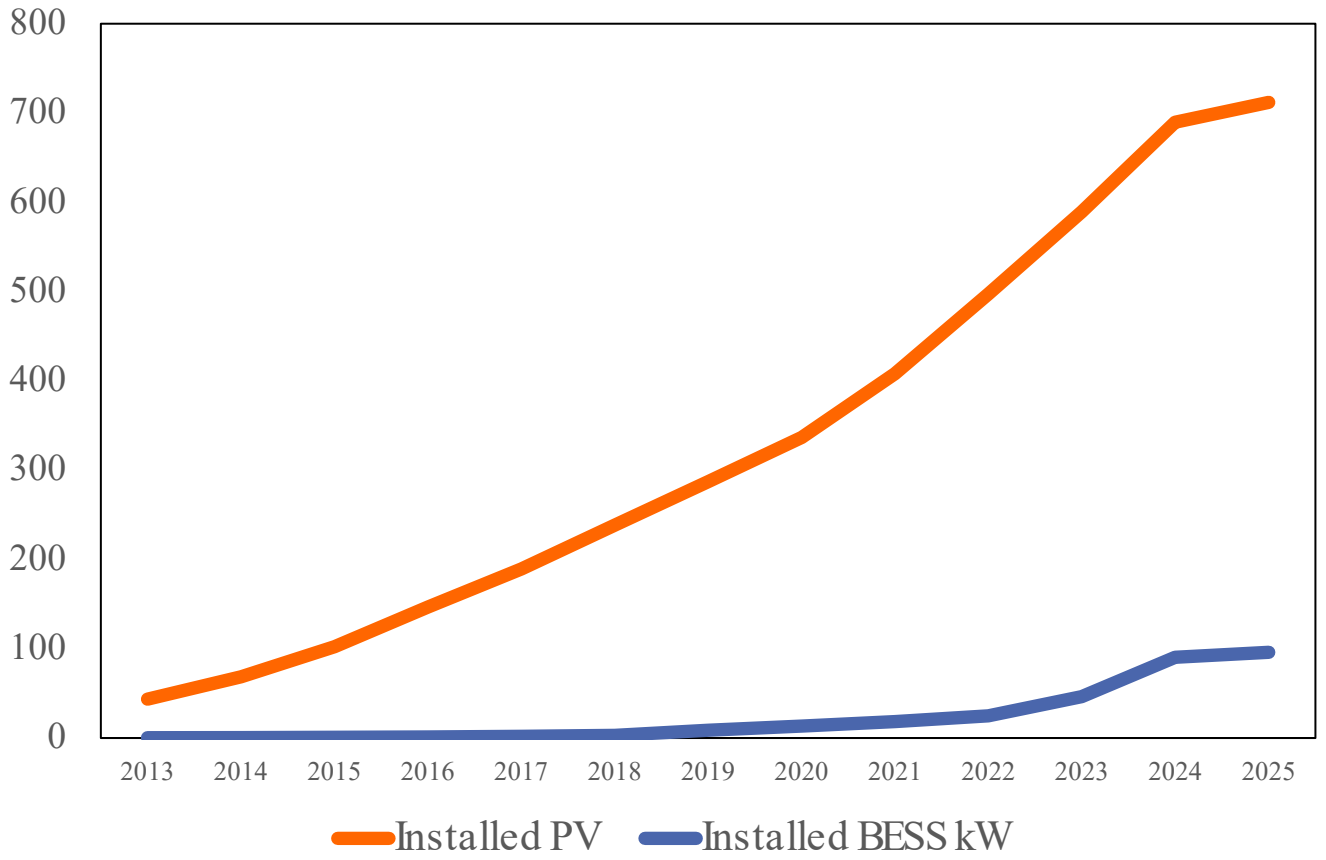


Installed DG by Technology Type

ICAP Breakdown by DG Type

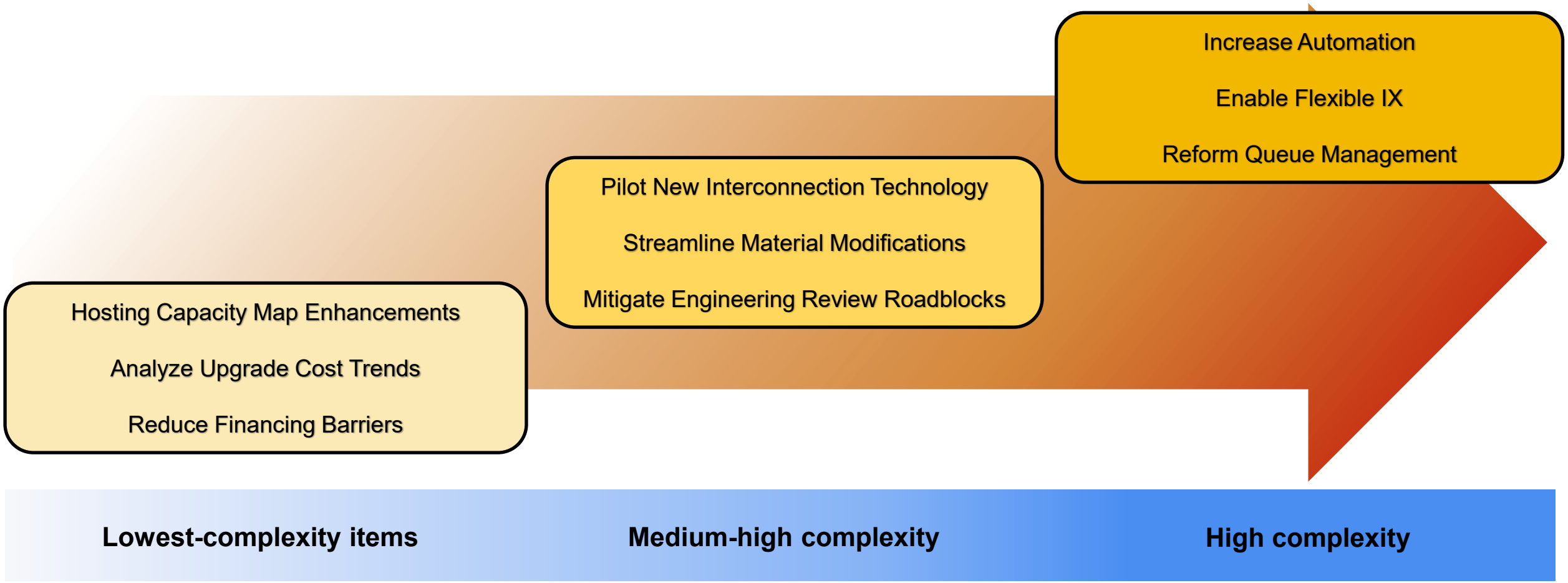


Cumulative PV and BESS Installed MW



DG Team Vision

Improving the interconnection experience is being approached through three priority tracks, organized by impact and complexity, aiming to achieve early wins while simultaneously addressing complex, longer-term challenges.



Thank You!