Con Edison E-Mobility Presentation for Queens Chamber of Commerce

October 2024

conEdison

Con Edison is Enabling the EV Future

Ambitious policy goals by the CLCPA* and NYC's dense infrastructure produces a unique EV market

100% Zero Emission Trucks Sales by 2045

100% Light-Duty EV Sales by 2035

100% School Bus EV Sales by 2027

*Climate Leadership Community Protection Act

Unique New York

Transportation accounted for approximately 28% of greenhouse gas emissions in New York in 2019

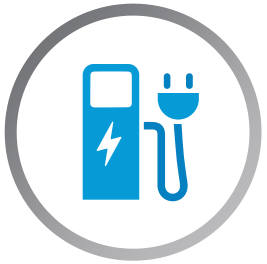
Disadvantaged communities experience disproportionate environmental burdens

50% of residential car owners in NYC rely on **on-street parking**

Taxis travel more than personal cars. Replacing one taxi with an EV is equivalent to 3 personal EVs

66% of **restaurant delivery** in NYC are completed by e-bikes

Con Edison E-Mobility Programs & Initiatives Overview



EV Infrastructure Incentives
For Widespread Access to EVs

PowerReady
$613M for light-duty vehicles

MHDV Pilot
$21.5M Pilot for medium and heavy-duty vehicles

Micromobility
$18M for e-bikes

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
(Coming soon)

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 Calculator
For understanding rates

Connect Services
Sharing upcoming projects with developers

Innovation and Research
Charting the Path to the Future

Curbside Charger
demonstration project to install and operate 120 plugs

Cost optimization demo for fleet electrification launching in Q3 2024

School bus V2G
vehicle-to-grid demo project completed in 2022

EV Infrastructure Incentives

conEdison

Light-Duty PowerReady Program

Program Overview

Program Description	Provides incentives to offset customer and utility-side infrastructure costs associated with installing light-duty EV chargers
Funding	$613M
Program Dates	**Start:** July 2020 **End:** December 2025
Program Goals	**L2 Plugs:** 21,371 **DCFC Plugs:** 3,157
Resources	Website Email

Incentive Overview

	Level 2 Plugs (< 50 kW)		DCFC Plugs (>= 50 kW)	
Access to Sites	**Non-Public**	**Public**	**Non-Public**	**Public**
Non-Proprietary Plugs	Up to 50% $5-7.5k per plug cap*	Up to 90%, $9-13.5k per plug cap*	Up to 50%, $400+ per kW cap*	Up to 90%, $720+ per kW cap*
Proprietary Plugs (ex. CHAdeMo, Tesla)	Up to 50%, $5-7.5k per plug cap*	Up to 50%, $5-7.5k per plug cap*	Up to 50%, $400+ per kW cap*	Up to 50%, $400+ 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	Based on project **commitment date**, hardware and software will need to conform with ISO 15118-2 or -20, ISO 15118-3, and OCPP 2.0.1

PowerReady Projects to-date in Queens

2,349

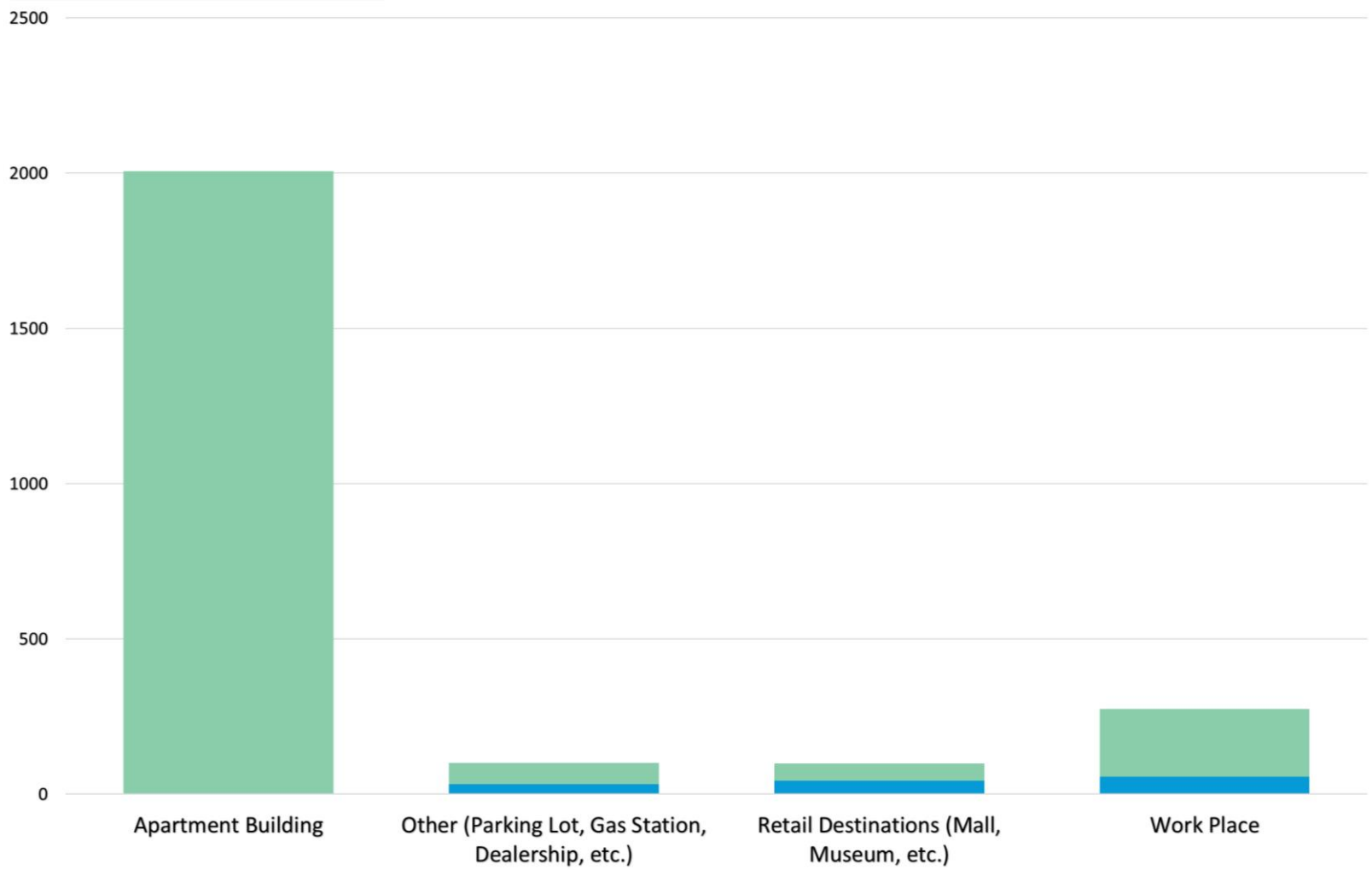
L2 Plugs

27.7% in DAC

132

DCFC Plugs

12.5% in DAC



MIT researchers found that "installing a charging station boosted annual spending at nearby establishments by an average of… **$3,400 per year** from 2021 through June 2023."[1]

[1]EV charging stations boost spending at nearby businesses (MIT News)

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

conEdison

MHDV Make-Ready Pilot

Program Overview

Program Description

To encourage the development of medium- and heavy-duty vehicle 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

Incentive Overview

		Non-Publicly Accessible (Voucher Program Required)		Publicly Accessible
Located within 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

Managed Charging Incentives

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

Rate
Must be on commercial rate

Charger Data
Provide 15-minute interval data

Eligible Stations

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

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

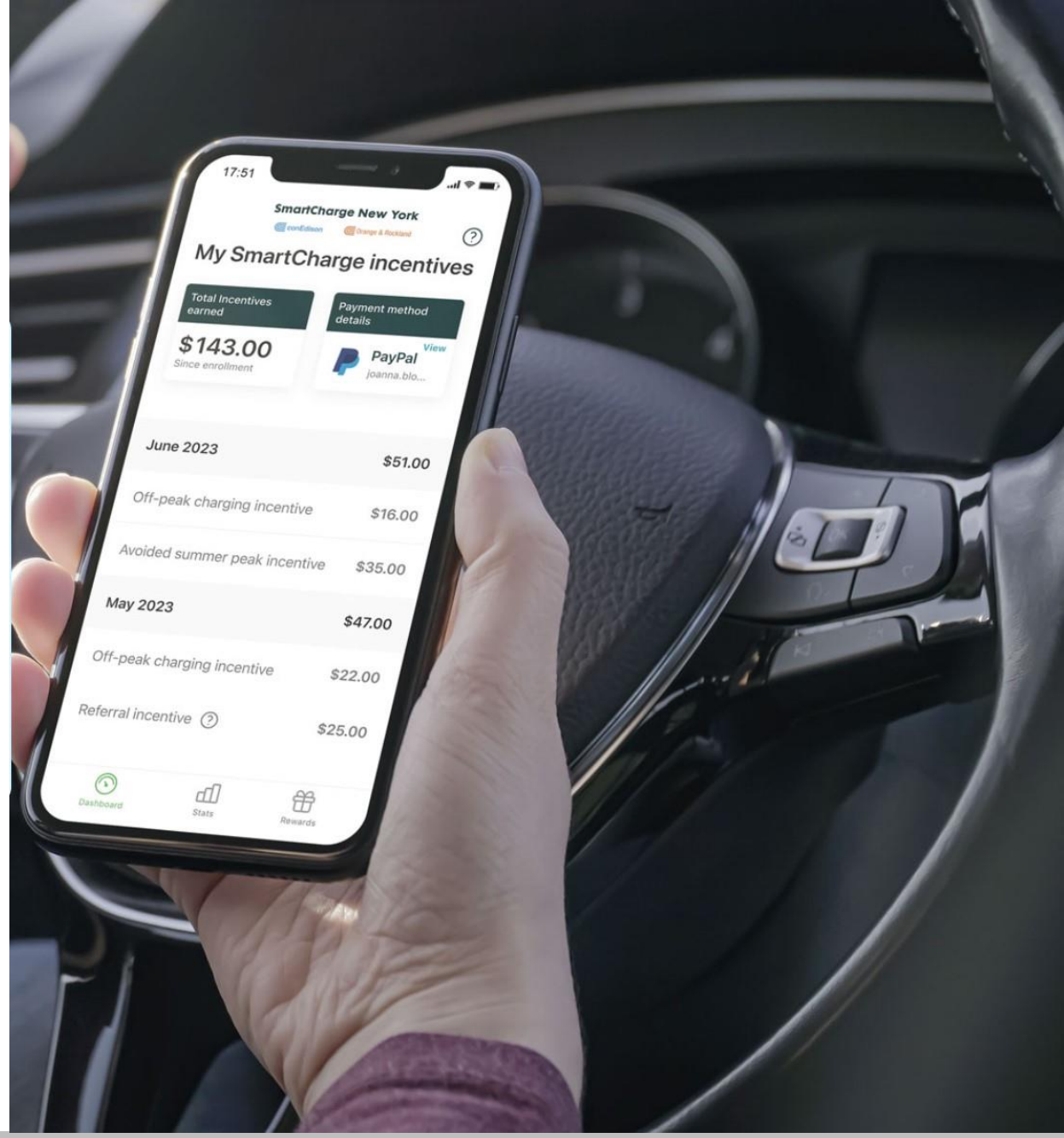
Eligibility and Requirements

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

How EV Drivers benefit from joining SmartCharge New York

Con Edison's SmartCharge New York program provides both economic and environmental benefits for shifting to off-peak charging

- **Financial incentives:** Earn cash by charging overnight and off peak, off-setting your charging cost
- **Environmental impact:** Reduce the demand on the grid during peak times, promoting grid resiliency and supporting the grid of the future that meets the need of NY's clean energy targets
- **Referral bonus:** Gain additional earnings by referring other EV owners to the program
- **Set it and forget it:** Once you have connected your vehicle or charger, incentives are automatically calculated and paid out monthly



Average Annual Earnings for EV Drivers

$475

per vehicle/charger
at 10,000 miles per year

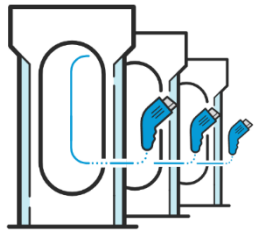
Some drivers can earn
$1000+

Customer Education & Support

E-Mobility Advisory Services

Complimentary tools and services to help you plan your EV Project

E-mail: dl-EmobilityAdvisory@coned.com



Site Assessment

Preliminary evaluation of utility-side work and timelines to support a proposed project

Electrification Capacity Map

Helps identify sites with existing service capacity to support your EV project

Charging Calculator

Projects utility bill costs and potential savings from incentive program participation

Innovation

System Utilization:
71%
(March 2024)

System Uptime:
99.9%
Throughout project lifespan

Unique Users
7,200

Total Charging Hours
504,822

Charging Sessions
139,066

Median Session Length
3 hours

NYC Curbside EV Charging Demo

First ever electric vehicle chargers in NYC installed with the goal of demonstrating demand and need for public L2 curbside chargers where 50% of car owners rely on on-street parking

Start Date	January 2021
Installed	**118** 7.2 kWh L2 plugs
Budget	**$13M** for construction to operation and maintenance for three years

conEdison · NEW YORK CITY DOT · flo EV Charging

Last updated March 2024