



ELECTRIC VEHICLE CHARGING PROGRAM

Community Board 7 TC Briefing
May 20th 2019

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Curbside EV Charging Pilot Program

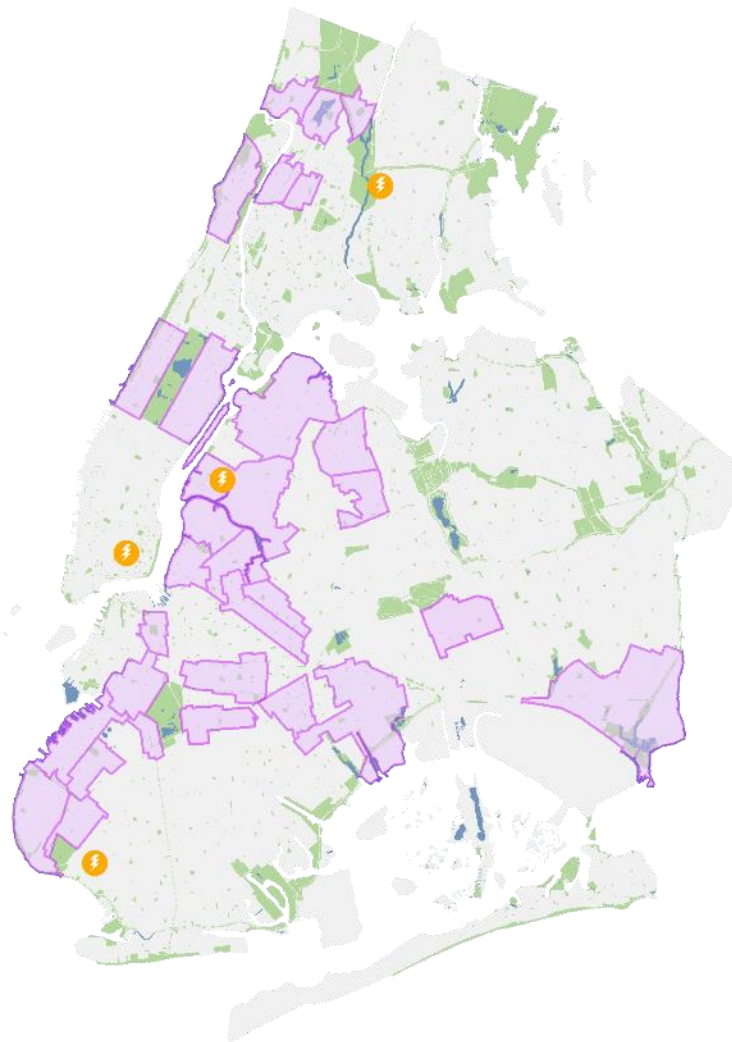
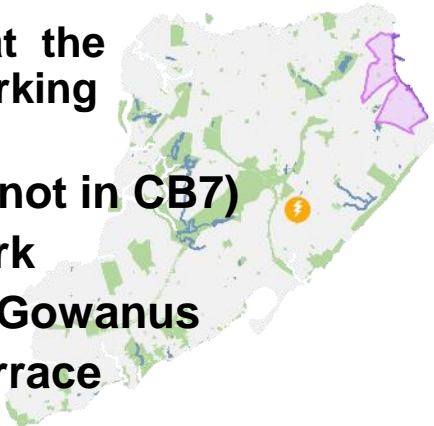
PROJECT BACKGROUND

Project Structure:

- **Partnership:** Con Ed and DOT will install 100 L2 EV charging ports on city streets for a four year demonstration.
- **Purpose:** Encourage EV ownership and test financial and operational feasibility of curbside EV charging.
- **User Cost:** Pay per hour, charge cost comparable to gas

Project Details:

- 100 curbside charging ports citywide for public use
- **In CB 7, we are looking at the following numbers of parking spaces:**
 - 4 in Bay Ridge (not in CB7)
 - 10 in Sunset Park
 - 6 in Park Slope/Gowanus
 - 2 in Windsor Terrace



CURBSIDE CHARGER: HOW IT WORKS

RGBW LED Status Lights



Flashing white: The charger is waiting for the user to start a charge event.

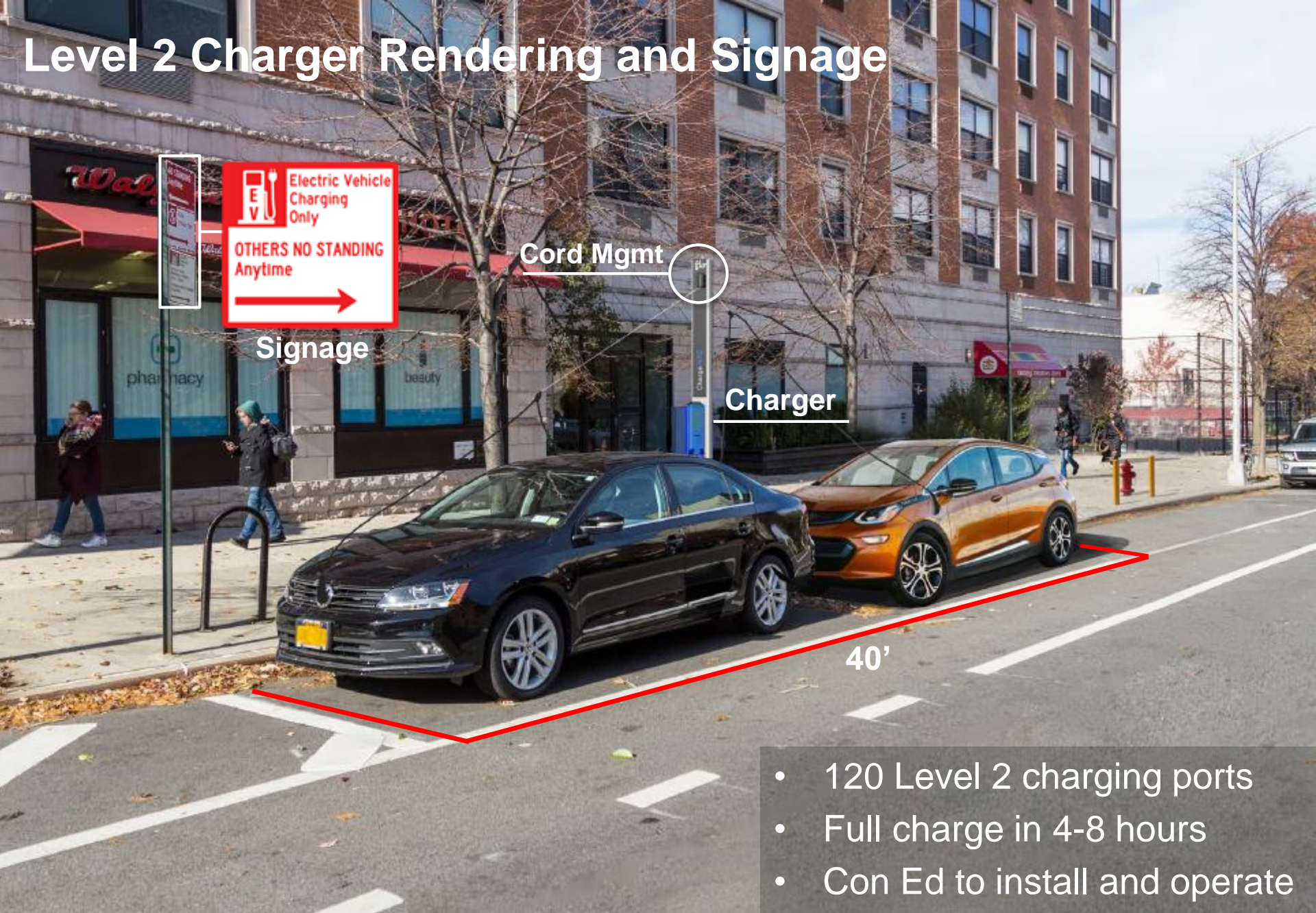
To start a Charge Event:

Once the user authentication is completed and the status light is flashing white

- 1 Open the flip-up door
- 2 Remove the connector from its holster
- 3 Open the vehicle charge port
- 4 Insert the connector into the vehicle charge port



Level 2 Charger Rendering and Signage



Electric Vehicle Charging Only
OTHERS NO STANDING Anytime

Signage

Cord Mgmt

Charger

40'

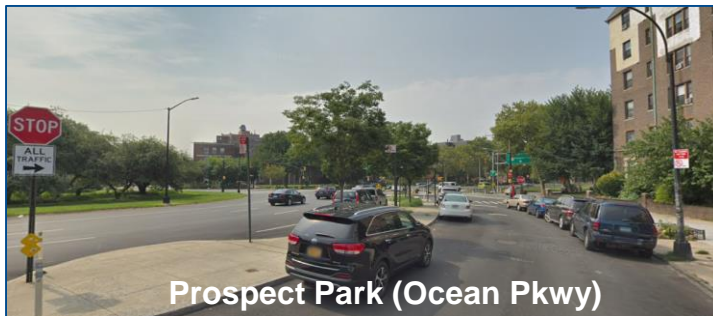
- 120 Level 2 charging ports
- Full charge in 4-8 hours
- Con Ed to install and operate

CB 7 SITE SELECTION AND SITES

Site Selection:

- Near major institutions, educational institutes and medical centers, commercial activity – high visibility, turnover, and utilization

Possible Location(s):

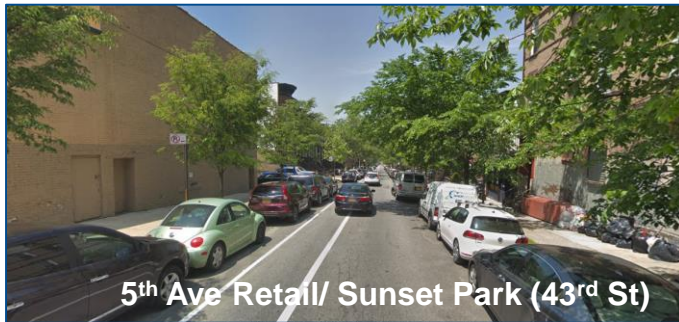


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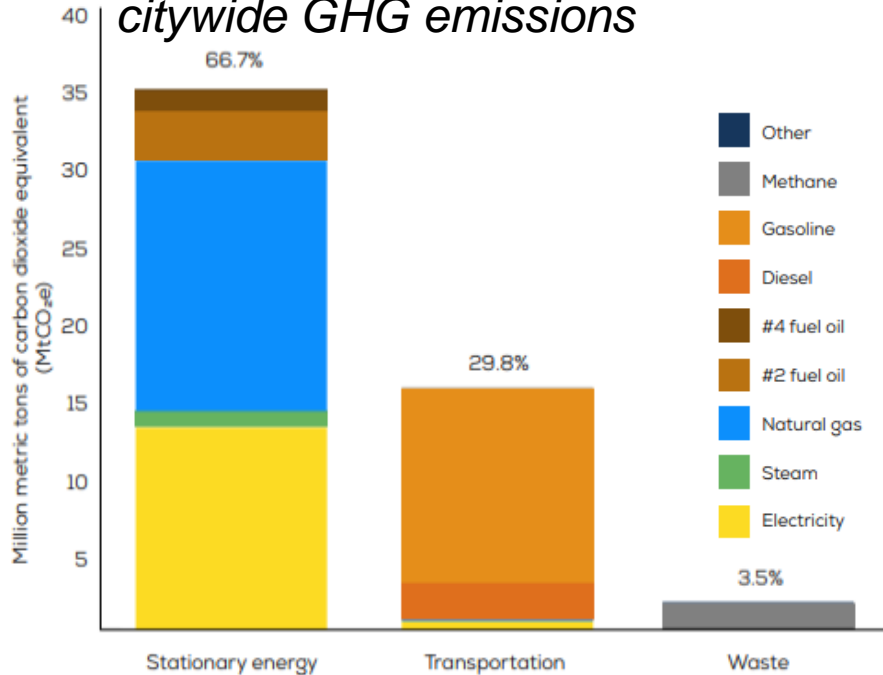
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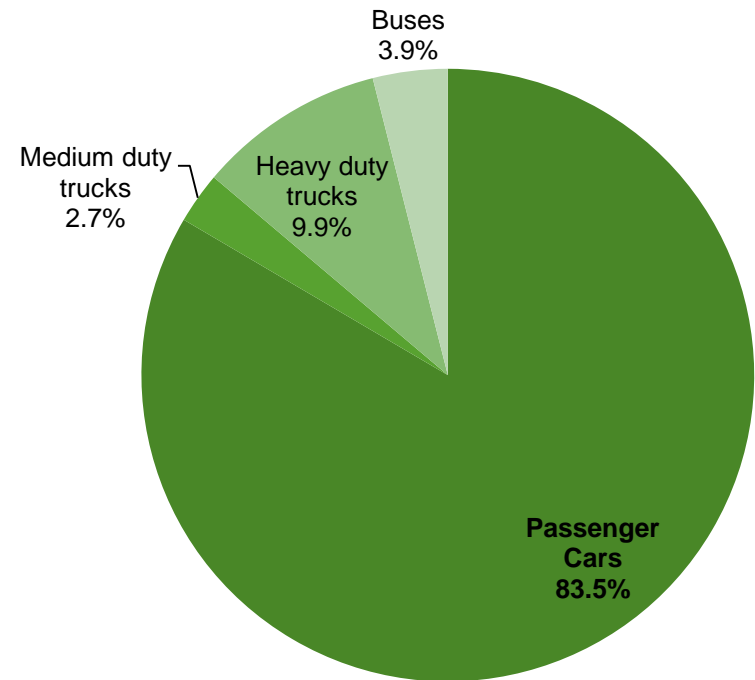
Background

CHALLENGE: PRIVATE CARS ARE A MAJOR SOURCE OF GHG EMISSIONS

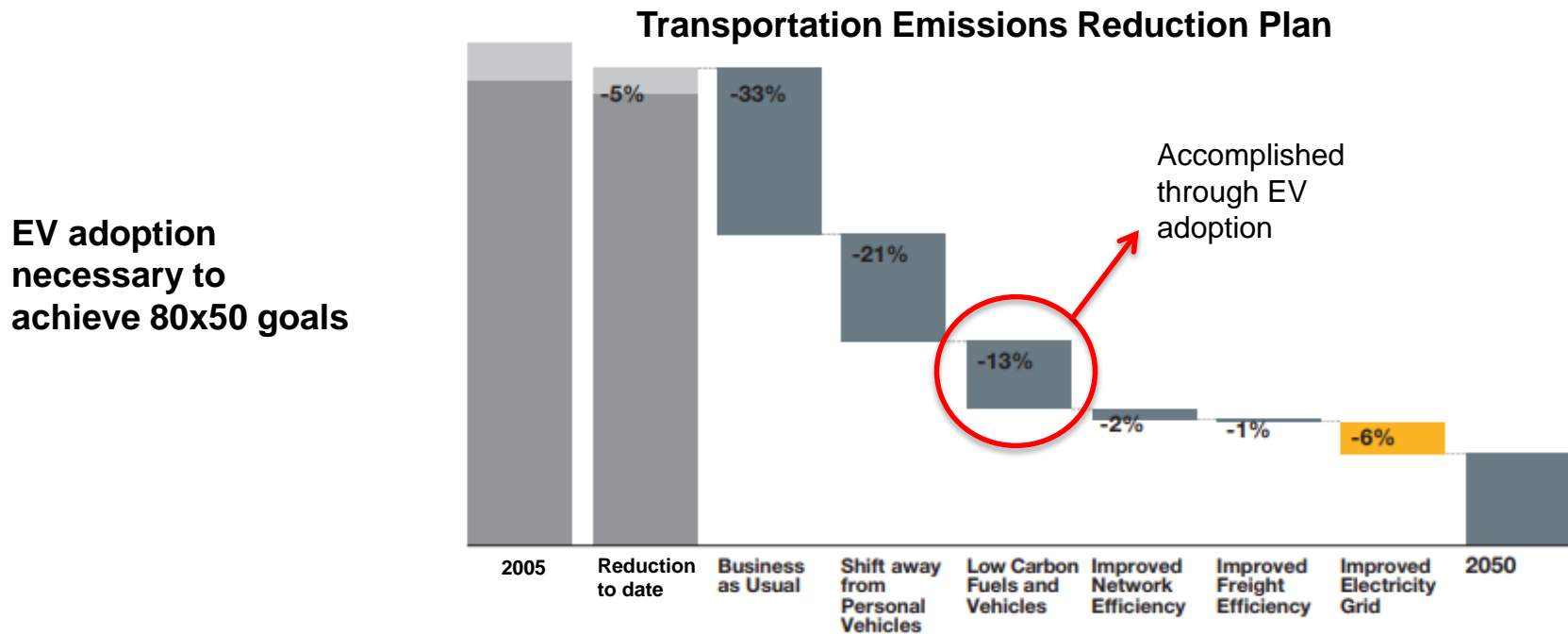
Transportation: constitute 30% of citywide GHG emissions



Passenger Cars: 83% of on-road transportation GHG emissions






INCREASING THE ADOPTION OF EVS IS KEY TO ACHIEVING CITY'S GHG GOALS



- **Goals of 80x50 plan and Paris Climate Agreement Executive Order 23:** requires electrification of most of the city's 1.8 M private light-duty vehicles.
- **Mayor's goal for 20% of new NYC vehicle registrations be EV by 2025:** requires more on- and off-street EV charging

EV CHARGING: HOW IT WORKS

	Level 1 	Level 2 	DC Fast 
Power Requirements	120V (1-3 kW)	240V (3-10 kW)	480 Volts (25-150 kW)
Charging Speed	5 miles per hour, 12+ hours for a full charge	12-25 miles per hour, 4-6 hours for a full charge.	100-600 miles per hour, 30 minutes for a full charge
Location	Home garage	Home garage, on street or parking field	Commercial locations, short stops, near highways

OUTREACH PROCESS

Outreach

- BP Adams multiple briefings in 2018 and 2019
- Brooklyn Borough Board Briefing in February 2019
- CM Lander briefing in December 2018
- CM Menchaca briefing in January 2019
- Sen. Gounardes briefing in April 2019
- Sen. Myrie briefing in May 2019

Public Feedback

- Launch public feedback portal where public can provide feedback on where DOT should or shouldn't locate chargers (16% of Brooklyn respondents suggested locations in CB7)

Pilot Zones

- Notify elected officials and community boards where pilot neighborhoods are chosen, offer and conduct briefings on the program and feedback on suggested locations.

CB Engagement

- Outreach to Community Boards and offer presentations and feedback on suggested locations.

Installation

- Fall 2019 for Authorized Parking for City Fleet, followed by installation of curbside public chargers.

THANK YOU!

Visit the NYC DOT Public Portal for FAQs on EV and to add a location for EV:

www.nyc.gov/charge

The screenshot shows the NYC DOT Public Portal for Curbside Level 2 Electric Vehicle Charging. The page features a green header with the project title and a sub-header "PLANNING". A navigation sidebar on the left includes links for Project Home, Overview, Where Should DOT Install Curbside EV Chargers?, Accessibility, and Request an EV Charger Outside Your Business. The main content area displays a "PROJECT UPDATES" section with a post from Thursday, August 30, 2016, at 10:53. The update text reads: "Where would you like to see curbside EV chargers? Show us! NYC DOT thanks you for your interest in curbside level 2 electric vehicle charging. Your feedback will help inform planners as they site 100 level 2 EV chargers across New York City." A photograph of a white car with a charging port is also visible.



QUESTIONS?

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