



ELECTRIC VEHICLE CHARGING PROGRAM

Manhattan CB8 DRAFT Briefing
September 4, 2019

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Curbside EV Charging Pilot Program

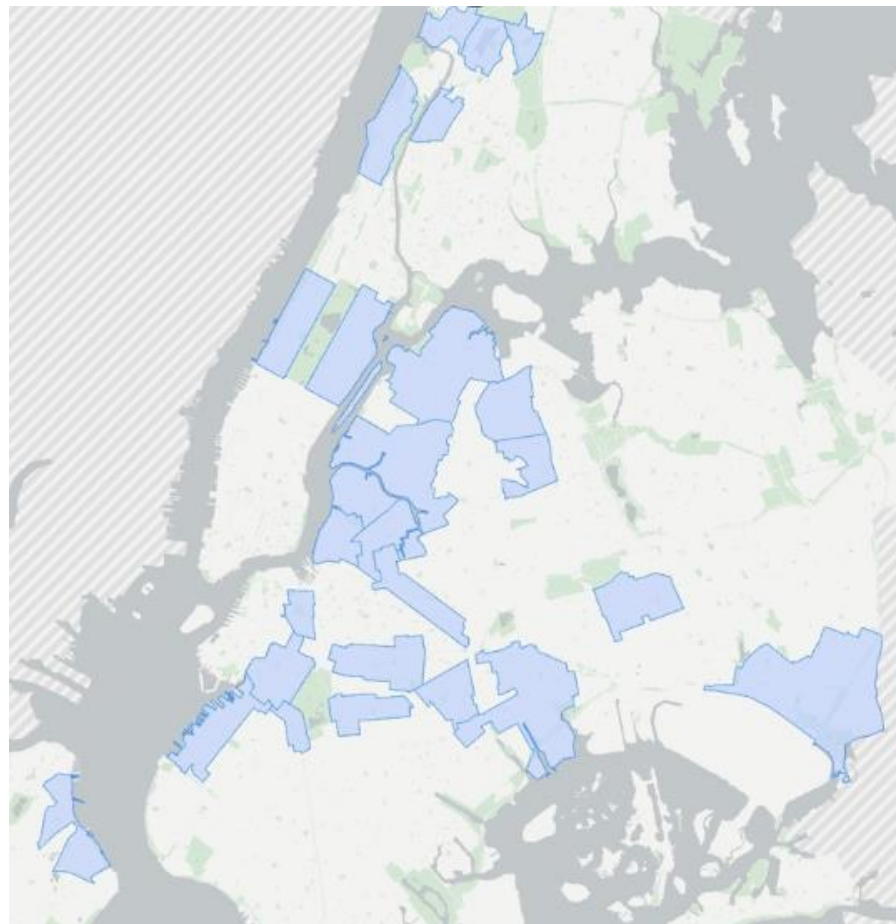
PROJECT BACKGROUND

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 time, charge cost comparable to gas.

Project Details:

- 50 chargers (100 curbside charging ports) citywide for public use.
- **In Manhattan, we are looking at the following numbers of parking spaces:**
 - **2 chargers (4 parking spaces) in Washington Heights**
 - **3 chargers (6 parking spaces) on the Upper West Side**
 - **3 chargers (6 parking spaces) on the Upper East Side**



CURBSIDE CHARGER: HOW IT WORKS

RGBW LED Status Lights



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

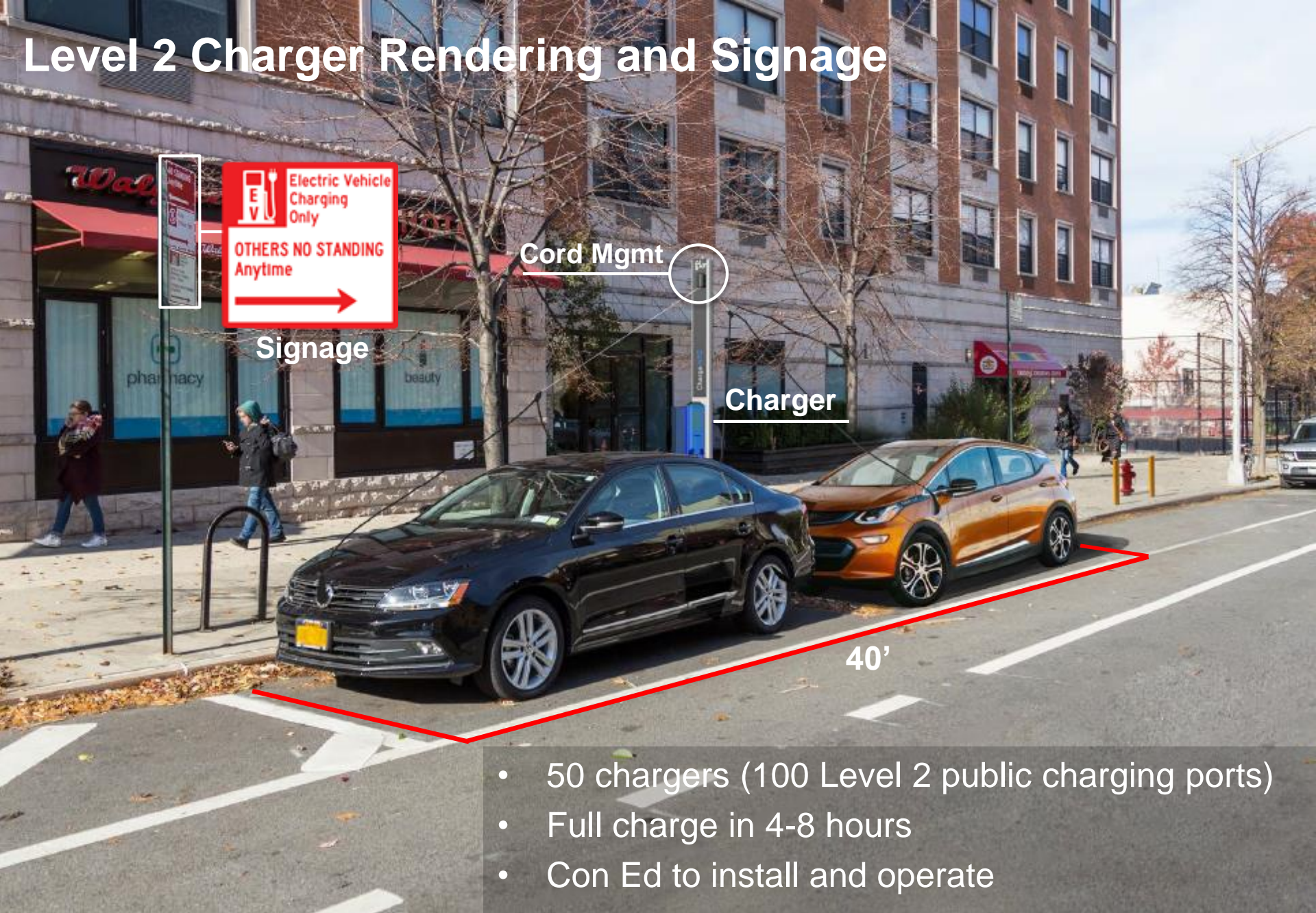
To start a Charge Event:

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



EV Electric Vehicle Charging Only
OTHERS NO STANDING Anytime

Signage

Cord Mgmt

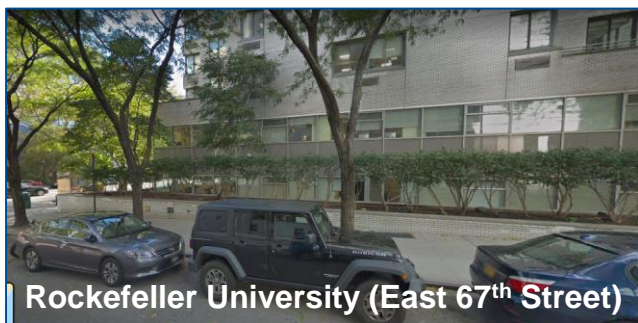
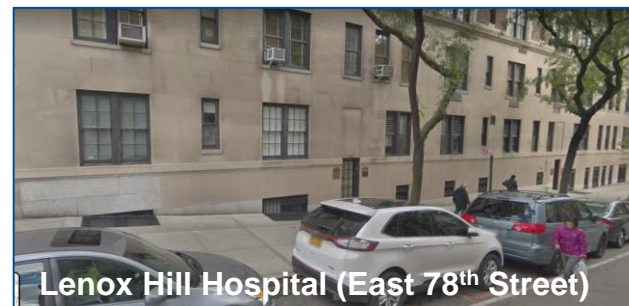
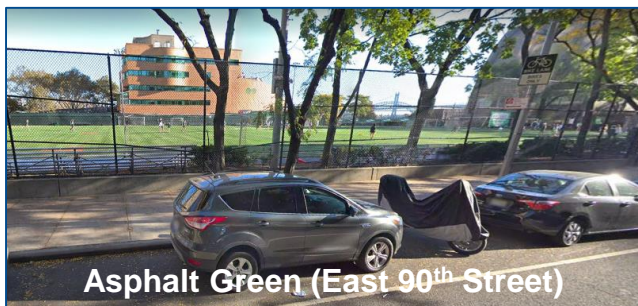
Charger

40'

- 50 chargers (100 Level 2 public charging ports)
- Full charge in 4-8 hours
- Con Ed to install and operate

SITE SELECTION AND SITES

- Near major institutions, educational institutes and medical centers, commercial activity – high visibility, turnover, and utilization
- Data used includes Journey to Work, Census, DCP, elected feedback, and EV registrations



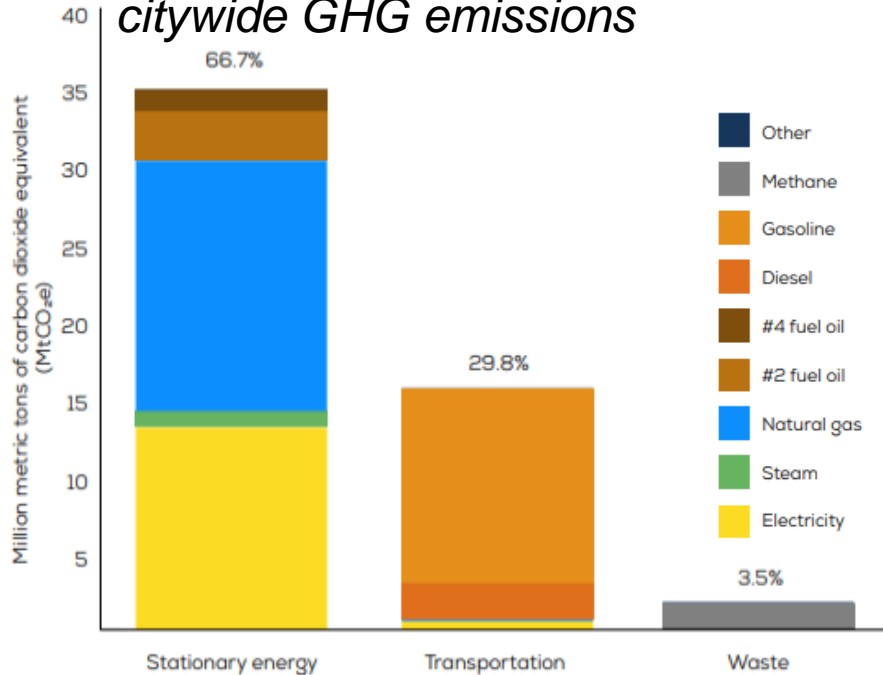
Other locations we are checking in this area for feasibility include:

street_name	st_name_intersect	st_name_sintersect
EAST 66 STREET	YORK AVENUE	1 AVENUE
EAST 73 STREET	5 AVENUE	MADISON AVENUE
EAST 77 STREET	LEXINGTON AVENUE	PARK AVENUE
EAST END DRIVE	EAST 88 STREET	EAST 86 STREET
EAST 83 STREET	3 AVENUE	LEXINGTON AVENUE

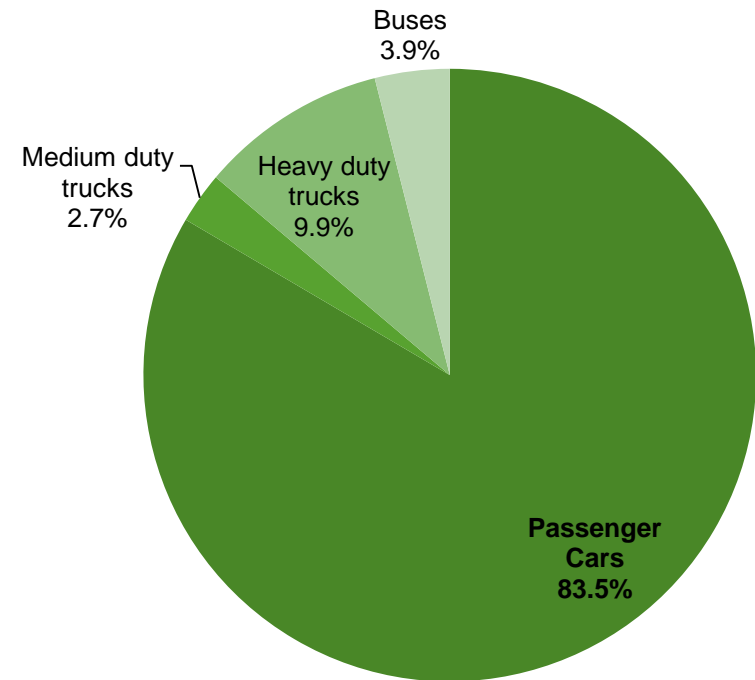
Background

CHALLENGE: PRIVATE CARS ARE A MAJOR SOURCE OF GHG EMISSIONS

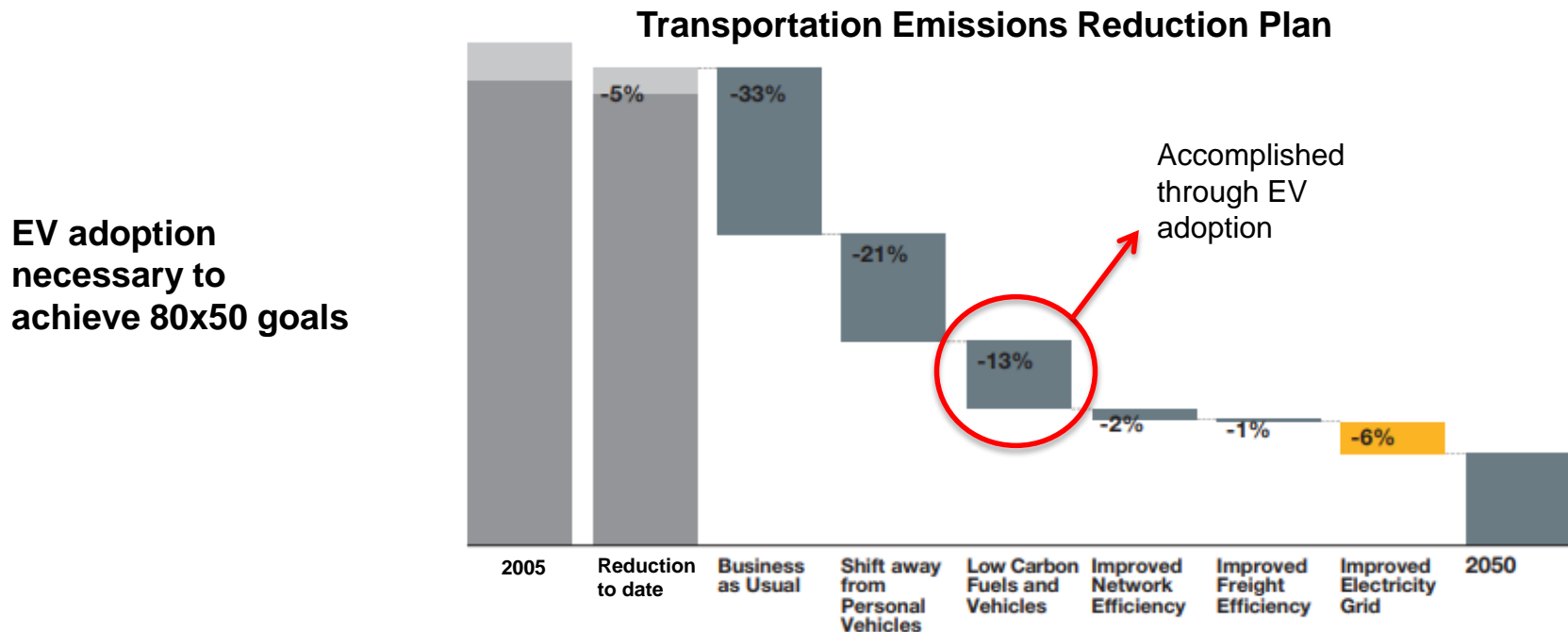
Transportation: constitute 30% of citywide GHG emissions



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 26:** 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 Brewer December 2018
- Manhattan DMs February 2019
- CM Kallos January 2019
- CM Powers March 2019
- AM Linda Rosenthal July 2019

Public Feedback

- Launch public feedback portal where public can provide feedback on where DOT should or shouldn't locate chargers

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.

Installation

- Spring 2020 for Authorized Parking for City Fleet, followed by installation of curbside public chargers.

Feasibility and Final Site Notification

- July notification to impacted CBs and electeds.
- September notification to impacted CBs and electeds

CB Engagement

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

THANK YOU!

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

www.nyc.gov/charge

New York City Department of Transportation
Projects & Initiatives

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NEW YORK CITY
DOT

Dashboard

Curbside Level 2 Electric Vehicle Charging
NYC DOT project to install 100 curbside level 2 electric vehicle chargers across New York City.

PLANNING



PROJECT UPDATES

Thursday, August 30, 2016 - 10:53

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.



QUESTIONS?

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