ELECTRIC VEHICLE CHARGING PROGRAM

Community Board 8 TC Briefing
May 16th 2019
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 8, a maximum of 8 parking spaces will be converted to EV parking
CB 8 SITE SELECTION AND SITES

Site Selection:
• Near major institutions, educational institutes and medical centers, commercial activity – high visibility, turnover, and utilization

Possible Location(s):

Manhattan College; Van Cortlandt Park Pool (Manhattan College Pkwy)

Van Cortlandt Park; Croton Aqueduct Trail; Amalgamated CoOps (Dickinson Ave)

Kingsbridge; Lower Riverdale Commercial district (W. 233rd St)
Level 2 Charger Rendering and Signage

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

- Passenger Cars: 83%
- Medium duty trucks: 2.7%
- Heavy duty trucks: 9.9%
- Buses: 3.9%

Stationary energy: 3.5%
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

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

Outreach
- Bronx Borough Board Briefing in December 2018
- CM Cohen briefing in January 2019
- Rep. Espaillat briefing in April 2019

Public Feedback
- Launch public feedback portal where public can provide feedback on where DOT should or shouldn’t locate chargers (20% of Bronx respondents suggested locations in CB8)

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
QUESTIONS?