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:
- 100 curbside charging ports citywide for public use
- **In Southeast Queens**, we are looking at the following numbers of parking spaces:
  - 4-6 spaces
CURBSIDE CHARGER: HOW IT WORKS

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

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

Site Selection Criteria:

• Data used:
  • Current EV registrations
  • Journey to Work data
  • Census/City Planning data

• Proximity to:
  • Major institutions
  • Educational institutes
  • Medical centers
  • Commercial activity

• Goals:
  • High visibility
  • Curb turnover
  • Utilization
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

<table>
<thead>
<tr>
<th>Power Requirements</th>
<th>Level 1</th>
<th>Level 2</th>
<th>DC Fast</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V (1-3 kW)</td>
<td>240V (3-10 kW)</td>
<td>480 Volts (25-150 kW)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Charging Speed</th>
<th>Level 1</th>
<th>Level 2</th>
<th>DC Fast</th>
</tr>
</thead>
<tbody>
<tr>
<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>
<td></td>
</tr>
</tbody>
</table>

<table>
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<th>Location</th>
<th>Level 1</th>
<th>Level 2</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Home garage</td>
<td>Home garage, on street or parking field</td>
<td>Commercial locations, short stops, near highways</td>
<td></td>
</tr>
</tbody>
</table>
OUTREACH PROCESS

Outreach

- Queens Service Cabinet Meeting in December 2018
- CM Richards briefing in January 2019
- Sen. Sanders briefing in April 2019
- Sen Comrie briefing scheduled for July 2019
- Notifications sent in April 2019 to AMs Hyndman, Titus, Cook; and Rep. Meeks

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.

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?