

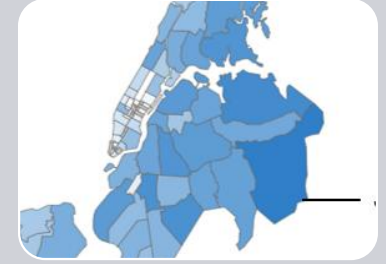
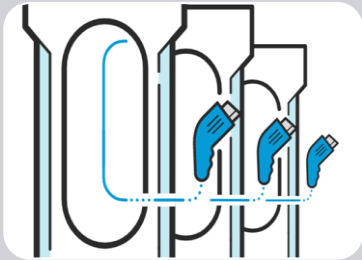
# Proactive Planning at Con Edison to Support Electrification

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# Our E-Mobility offerings are accelerating Transportation Electrification in New York



## EV Charging:

PowerReady program for cars

Pilot program for trucks & buses

Micromobility program for e-bikes

## Grid Beneficial Charging:

Residential & Commercial Managed Charging

Load Management Technologies

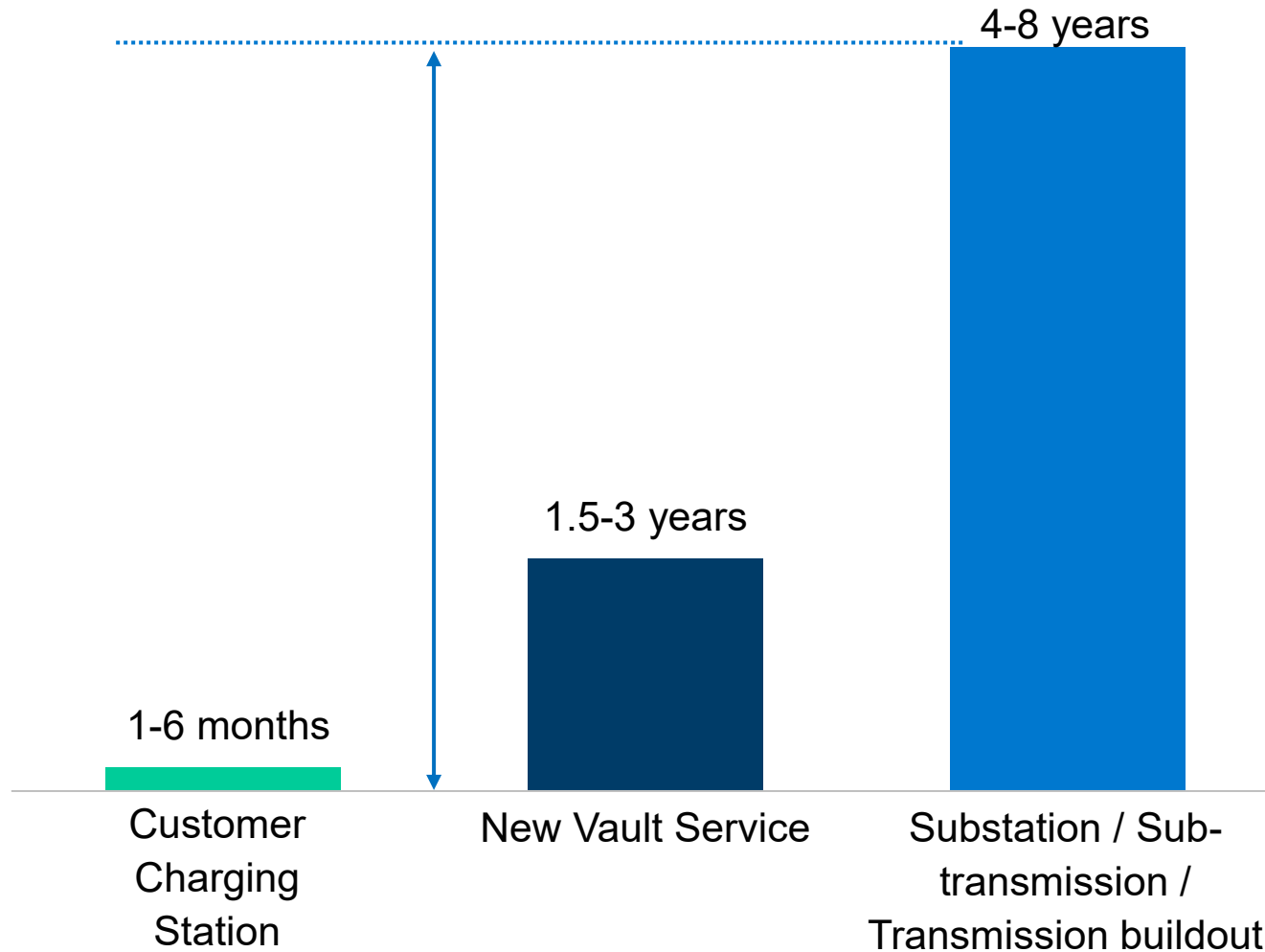
## Customer Experience: Interconnection & Advisory Services

## Innovation: Demonstration Projects

## Proactive Planning:

Proactive planning for rapid EV and other load growth

# Starting with EV charging stations, we saw the need for a new approach to planning to mitigate the risk of customer delays



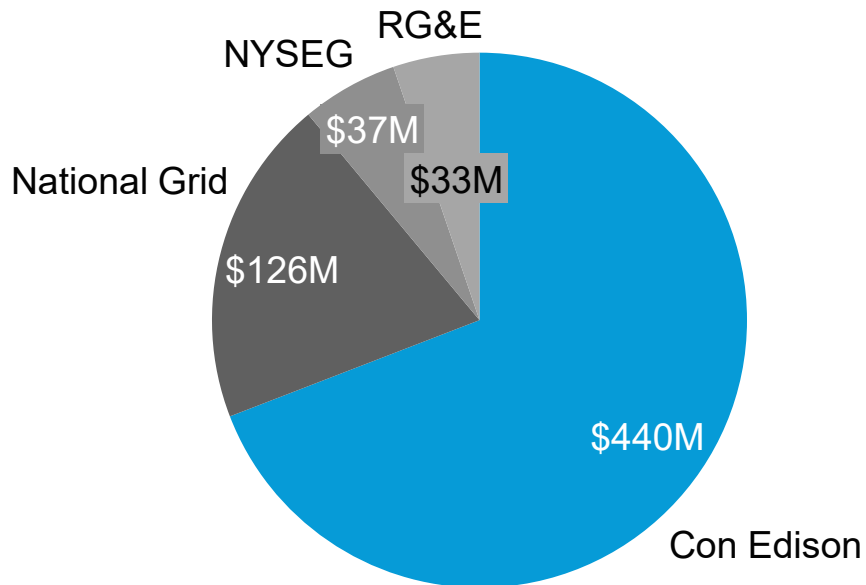
*Customer service delays are possible for **up to 8 years** in NYC's dense urban environment*

*Long lead times and last-minute planning would result in significant delays, indicating a need to prepare the grid in **advance** of beneficial electrification and DERs*



# NYS's Proactive Planning process began with two goals

“Urgent Upgrade Projects”  
necessary to enable electrification  
(approved June '25)



Statewide framework for proactive T&D grid upgrade projects  
(approved September '25)

- NYS utilities jointly propose (expected annually)
- Built off of “granular,” location-specific forecasts of spot load utilizing new data sources

## Scope of Proactive Planning Process

EVs

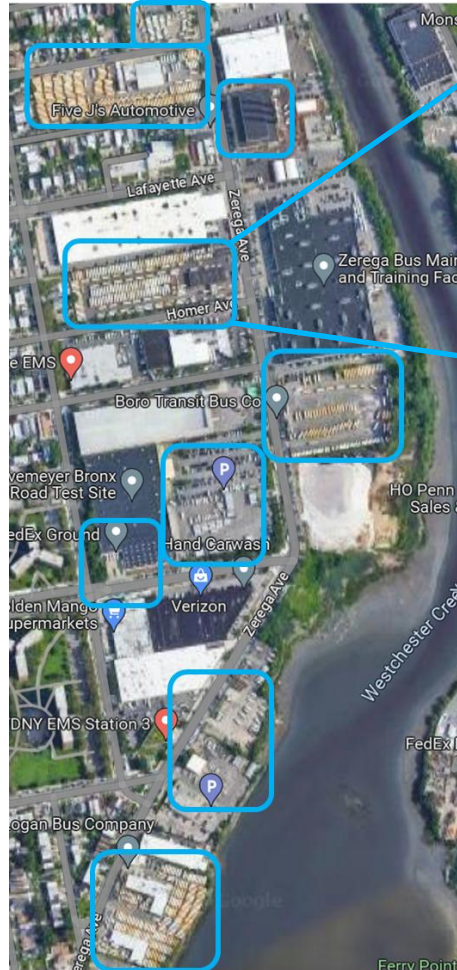
Building  
Electrification

Economic  
Development

Interconnecting  
DERs

*Addition / expansion*

# Differences across the state dictate approaches that are tailored to local needs

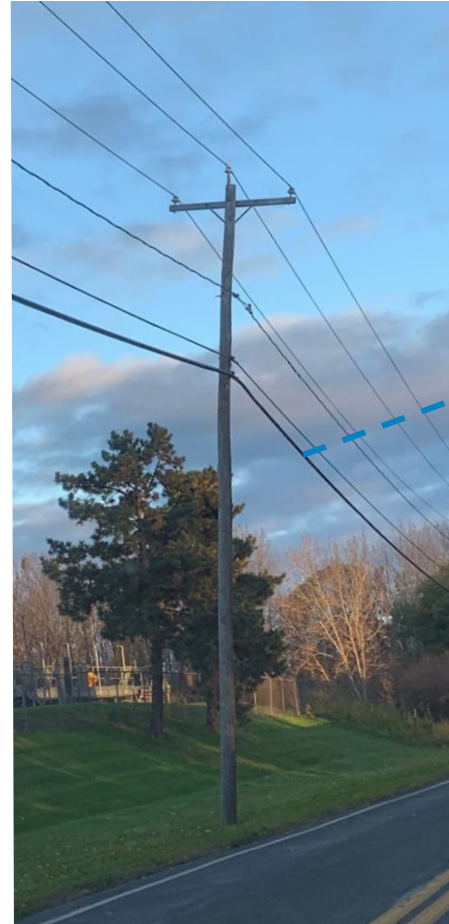


Zerega Avenue, Bronx  
(~1 mile)



## Con Edison Regional and System Characteristics

- 600 square miles
- Population of 9.2 million
- 3.6 million of electric customers
- Depot locations are well-established<sup>1</sup>
- High correlation in asthma rates and large fleet depots
- High load densities<sup>2</sup>

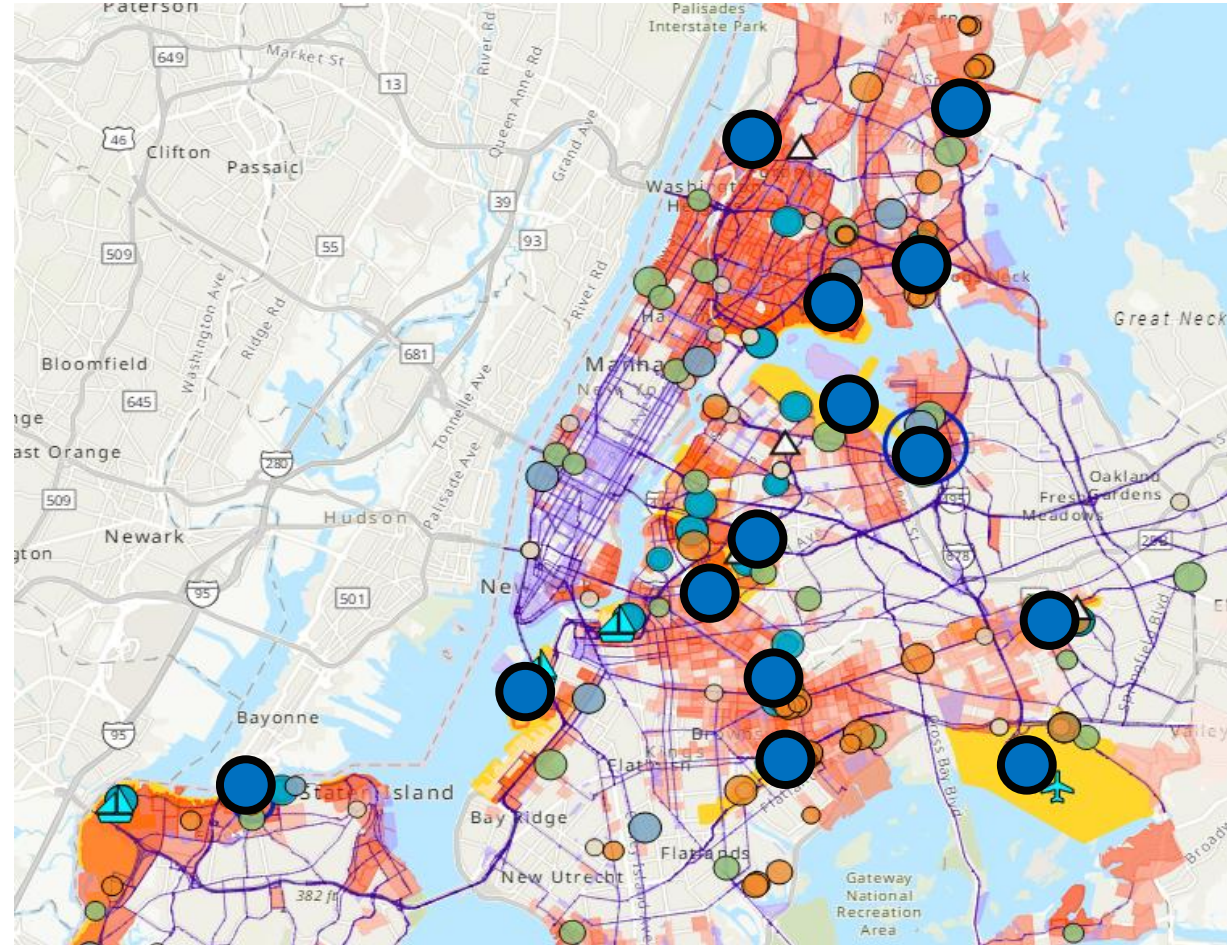
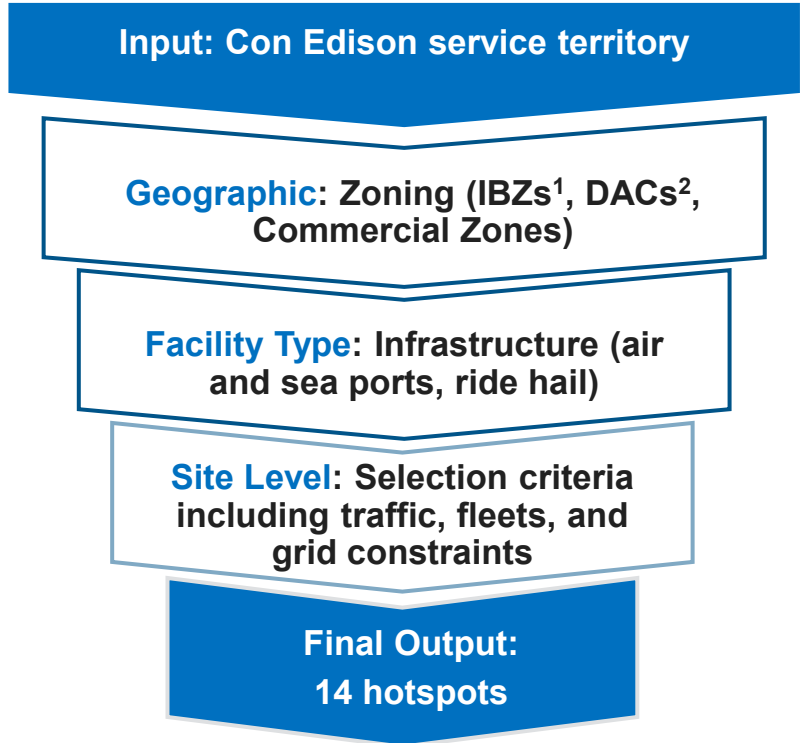


## National Grid Regional and System Characteristics

- 25,000 square miles
- 1.6 million electric customers
- 50,000 miles of electric lines
- Corridors / urban clusters are fixed; depot locations may have flexibility

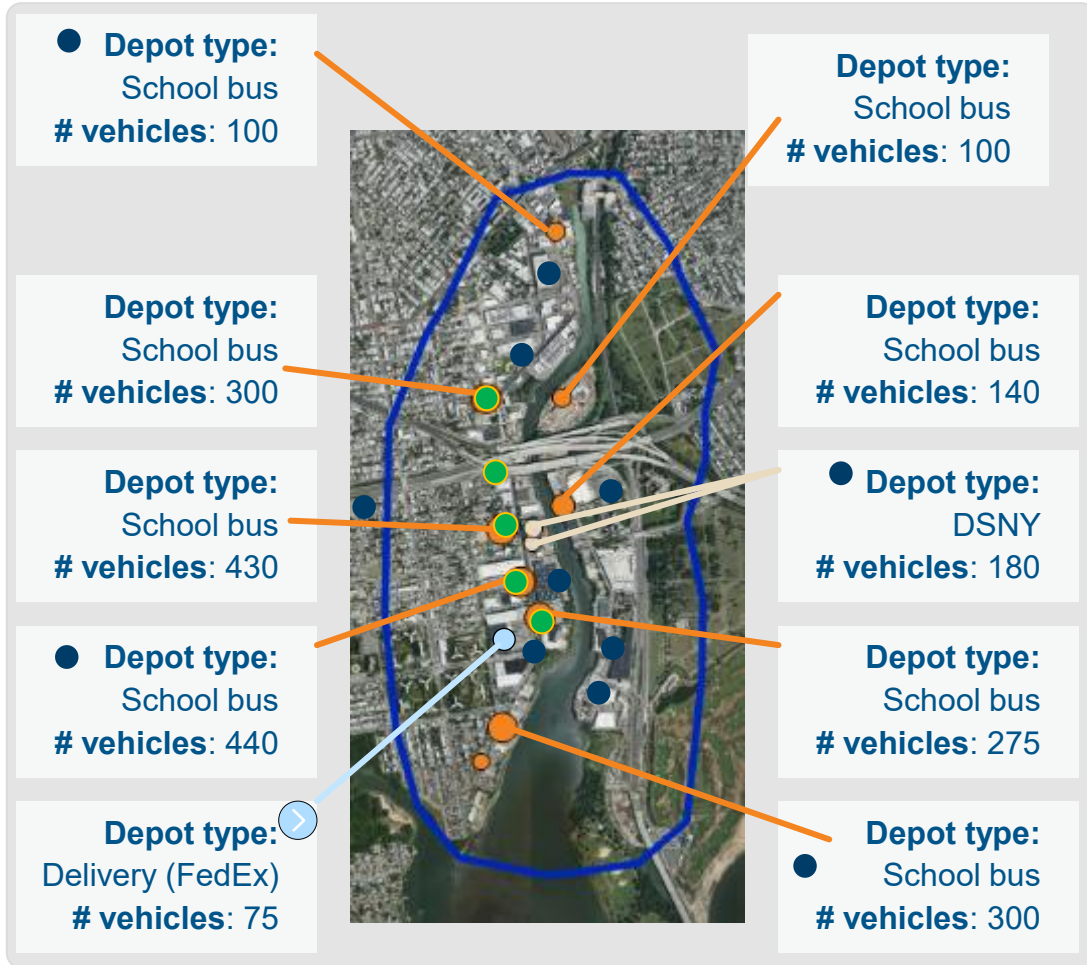
# Con Edison identified 14 future EV charging hotspots based on key geographic, customer, and grid considerations

Hotspot identification process

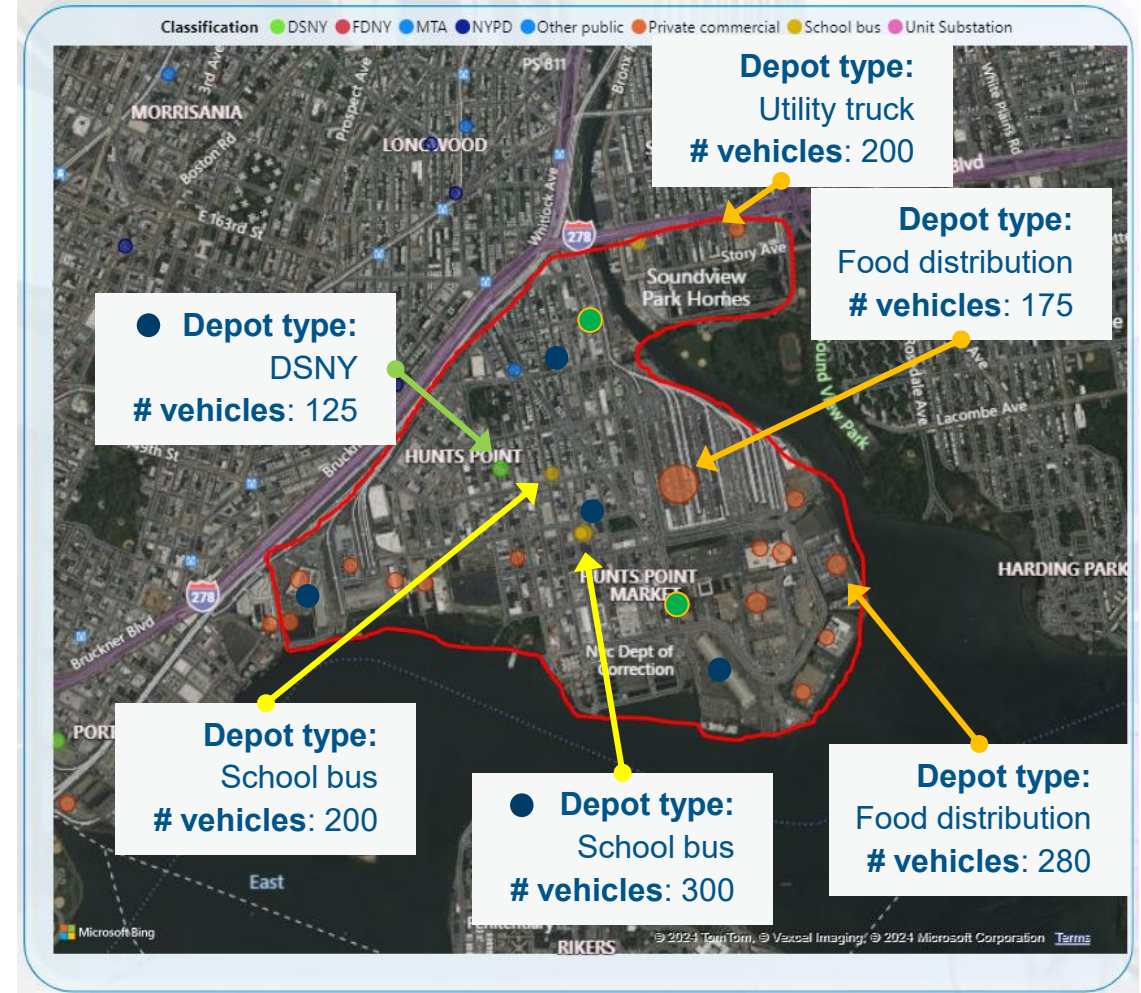


# The Zerega and Hunts Point projects will support cleaner air in some of the most densely polluted neighborhoods in the country

Zerega Hotspot

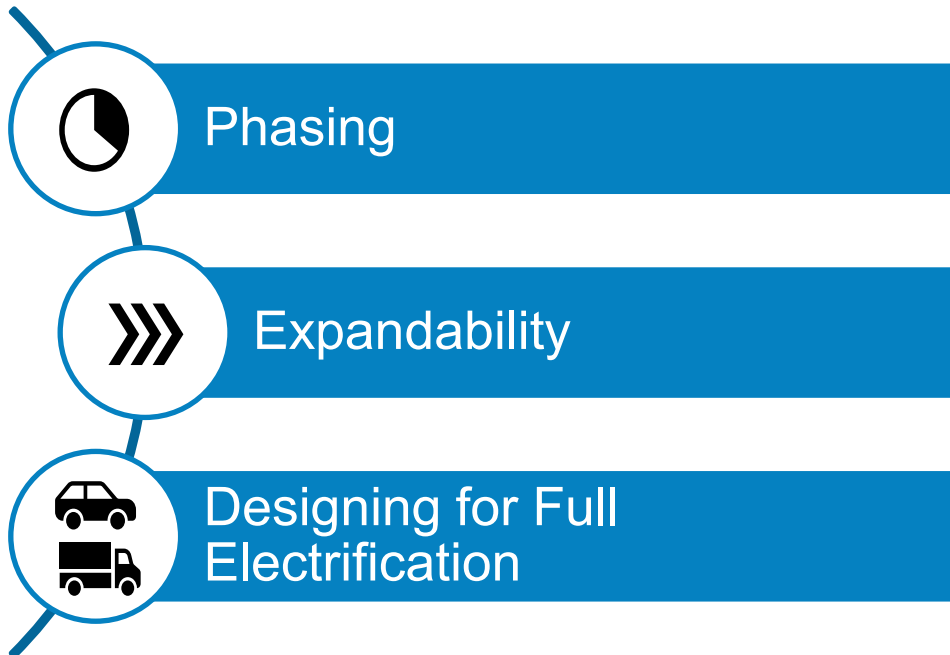


Hunts Point Hotspot



# Our projects support the two EV charging hotpots by building infrastructure with a long-term view and ‘dig-once’ approach

## Project Design Best Practices



### Phasing

Feeders installed in phases as the load materializes: spreads costs out over time & provides optionality

### Expandability

Conduit for latter phases is installed during initial construction, enabling future expansion and reducing community disruption

### Designing for Full Electrification

Designed for 20-year projections

# Looking forward

- Continuing improvement of proactive planning granular load forecasts
- Integration and/or coordination of proactive planning load assessments with existing utility planning processes
- Evolving cost recovery approaches (especially for DERs)