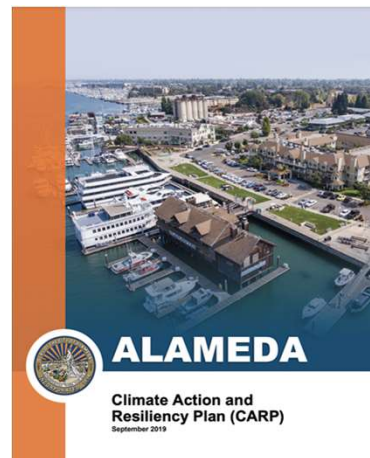


# Public EV Charging in City-Owned Facilities

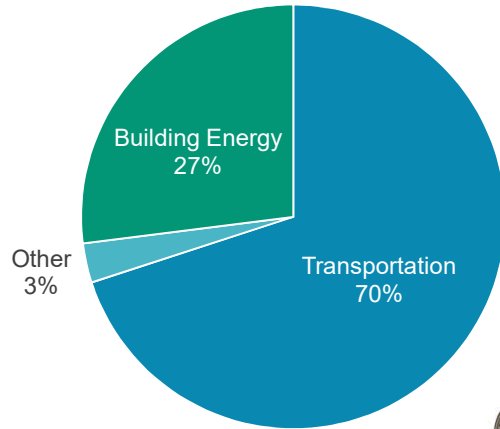
May 24, 2023

## Alameda Climate Action and Resiliency Plan (CARP)

- 2023 Priority: Implement public EV Charging in City-Owned Parking Lots
- Reduce emissions by 50% below 2005 levels by 2030
- Achieve net zero emissions as soon as possible
- Climate adaptation
  - flooding, sea level and groundwater rise, drought, extreme heat, hazardous air quality, and earthquakes/ liquefaction.

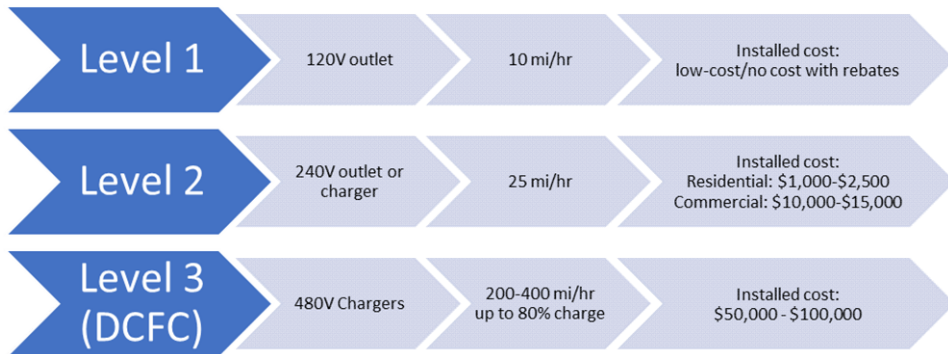


## Alameda's Emissions



3

## Types of EV Chargers



4

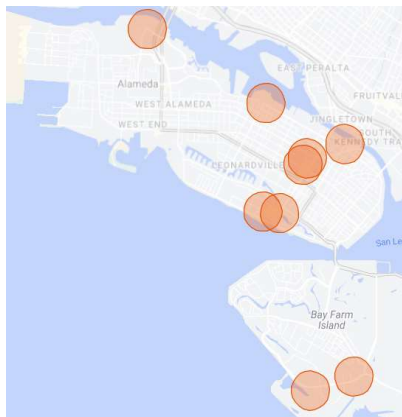
# Charging Locations

- Home charging
  - Lowest cost, most convenient
  - Requires private driveway or garage
- Workplace charging
  - Alternate primary charger for commuters if home charging not available
  - Encourages daytime charging when more renewables available
- Public charging
  - Accessible to everyone
  - Allows residents and visitors to charge while shopping, dining or visiting the park
  - Supports EV owners without access to home or workplace charging



5

# Current Public Chargers



Site Name	Level of Charging	Number of Ports
Target Parking Lot	DCFC	6
Nob Hill Foods	DCFC	2
Alameda Municipal Power	DCFC	1
Civic Center Garage	L2	4
South Shore Ctr (West)	L2	2
South Shore Ctr (East)	Tesla only	12
Broadway Management (Employee)	L2	2
Harbor Bay Park (Employee)	L2	14
Home2Suites (Guest)	L2	2



6

## Draft EV Charging Goals

- Provide affordable public EV chargers within a quarter-mile of all residents within Alameda and within 0.1 miles of multi-unit development hot spots.
- Prioritize DCFC at parks, commercial areas and other short-term parking locations when possible.
- Provide Level 2 charging options in long-term parking lots such as Civic Center garage, ferry terminals, the Park n Ride and others.
- Prioritize chargers in equity priority locations.
- Take advantage of all available funds from federal, state, regional, and local sources to limit costs incurred to the City.

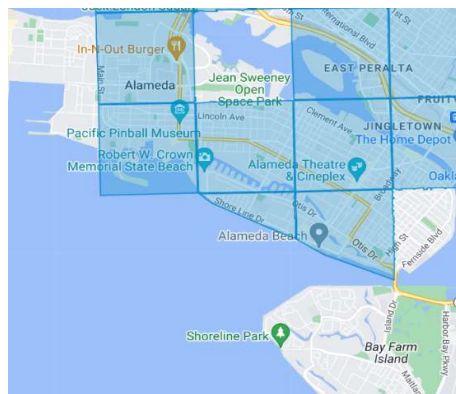


7

## Equity Priority Locations



Transportation Disadvantaged Census Tracts (Historically Disadvantaged Communities) and Electric Vehicle Charging Justice40 Map



MUD Hotspot Map



8

## Public Charging Locations

- City owned parking lots
- Curbside (adjacent to city owned sites)
- Shopping centers
- Schools
- Other public facilities



9

## Charging Fuel Infrastructure Grant

- Bipartisan Infrastructure Law funding through US DOT
- Goal
  - Facilitate broad public access to a national charging and alternative fuel infrastructure network to accelerate adoption of zero emissions vehicles
  - Implement Justice40 objectives, lower transportation costs, and increase economic opportunity
  - Advance job quality, workforce development, and workforce equity
  - Reduce greenhouse gas and vehicle-related emission
- Funding: \$500,000 to \$15 million
- Publicly accessible sites; prioritize equity priority locations



10

## Potential City Owned EV Charging Sites

Site Name	Site Address	Justice 40 Area	MUD Hotspot	Charger Type (Ports)	Cost Estimate
Central Ave Lot (Municipal Lot C)	2312 Central Ave	Yes	Yes	DCFC (2)	\$417,152
Civic Center Garage	1416 Oak St	Yes	Yes	L2 (6)	\$212,626
Mastick Senior Center	1155 Santa Clara Ave	No	No	L2 (4)	\$115,101
West End Lot (Municipal Lot W)	711 Santa Clara Ave	No	No	DCFC (2)	\$417,152
Jean Sweeney Park	1925 Sherman St	Yes	No	DCFC (2)	\$417,152
HBI Park and Ride	300 Island Dr	No	No	L2 (10)	\$233,018
<b>Total</b>				<b>26</b>	<b>\$1.81 M</b>



11

## Potential City Owned EV Charging Sites

Site Name	Site Address	Justice 40 Area	MUD Hotspot	Charger Type	Cost Estimate
Park Ave Lot (Municipal Lot A)	1418 Park Ave	No	Yes	DCFC (2)	\$412,064
Washington Park	1333 8th St	No	Yes	DCFC (4)	\$626,084
BFI Library	3221 Mecartney Rd	No	No	DCFC (4)	\$626,084
Lincoln Park	1450 High St	No	No	DCFC (1)	\$286,829
Main Library	1550 Oak St	Yes	Yes	DCFC (2)	\$412,064
Woodstock Park	351 Cypress St	Yes	Yes	Level 2 (4)	\$128,972
City Hall West	950 W Mall Square	Yes	No	Level 2 (4)	\$128,972
Estuary Park	230 Mosley Ave	Yes	Yes	DCFC (1)	\$286,829
City Hall	2263 Santa Clara Ave	Yes	Yes	DCFC (2)	\$412,064
<b>Total</b>				<b>24</b>	<b>\$3.32 M</b>



12

## EV Charging Provider

- Single, provider to install, operate and expand chargers on behalf of City
- Low or no cost to City
- Will be responsible for 20% match in grant
- Receive charging revenue and LCFS credits
- Pay electricity costs
- Next steps: Issue RFP to select provider



13

## Recommendation

- No action required
- Review and comment on public EV charging in city-owned lots



14