



MTC Transportation Electrification Program

**Joint MTC Planning Committee with the
ABAG Administrative Committee**

April 14, 2023

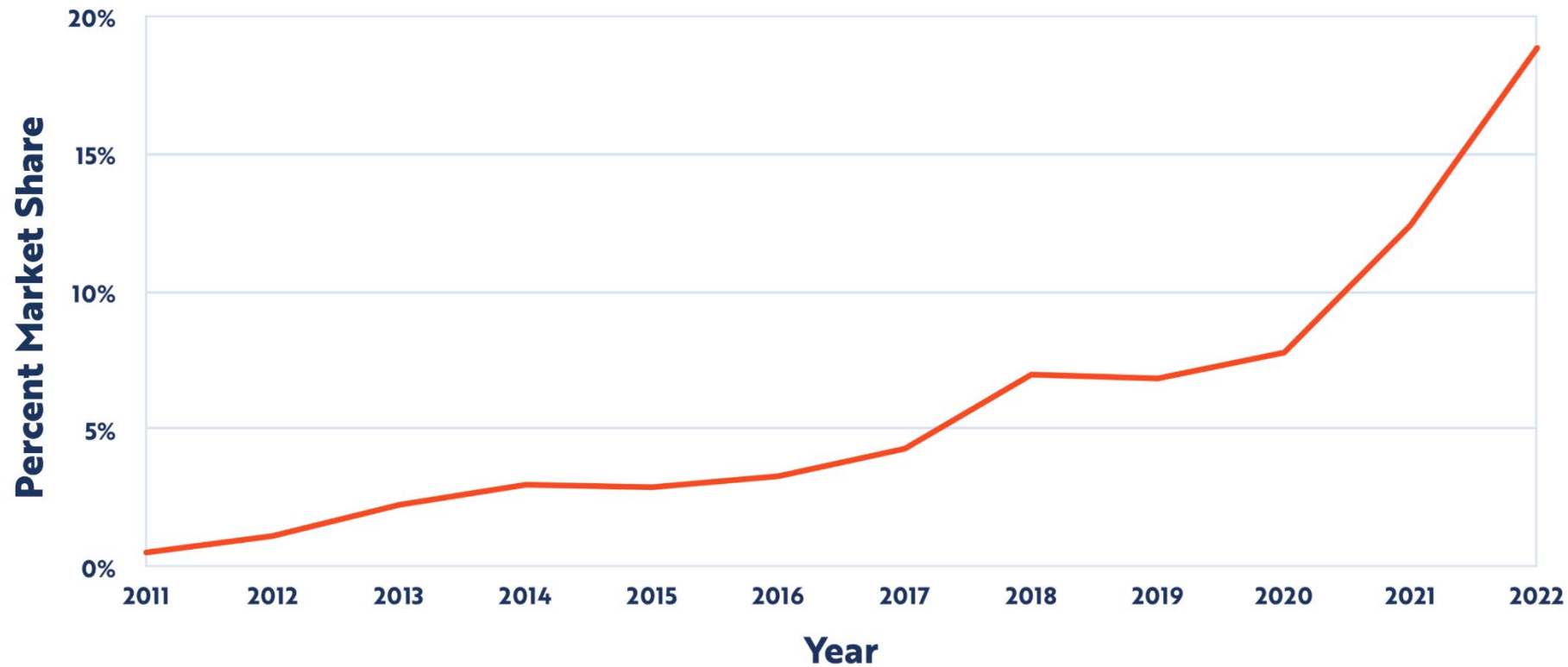


ASSOCIATION OF BAY AREA GOVERNMENTS
METROPOLITAN TRANSPORTATION COMMISSION

EV Adoption Is Accelerating



Electric Vehicle Market Share in California



1,399,913
CA EV Sales

Data source: California Energy Commission (2023). Retrieved January 2023 from energy.ca.gov/zevstats.

Q4 2022 data update: Cumulative data from 2011 – 2022.

Image source: Veloz Electric Vehicle Market Report, Q4 2022 Update (Feb 2023). Retrieved March 2023 from <https://www.veloz.org/ev-market-report/>.

The State of Charging



- As of 2022, more than 80,000 public and shared private EV chargers statewide
- CARB estimates 8 million ZEVs needed in 2030 to meet Executive Order N-79-20 goal
- CEC estimates nearly 1.2 million chargers needed to achieve the ZEV goal

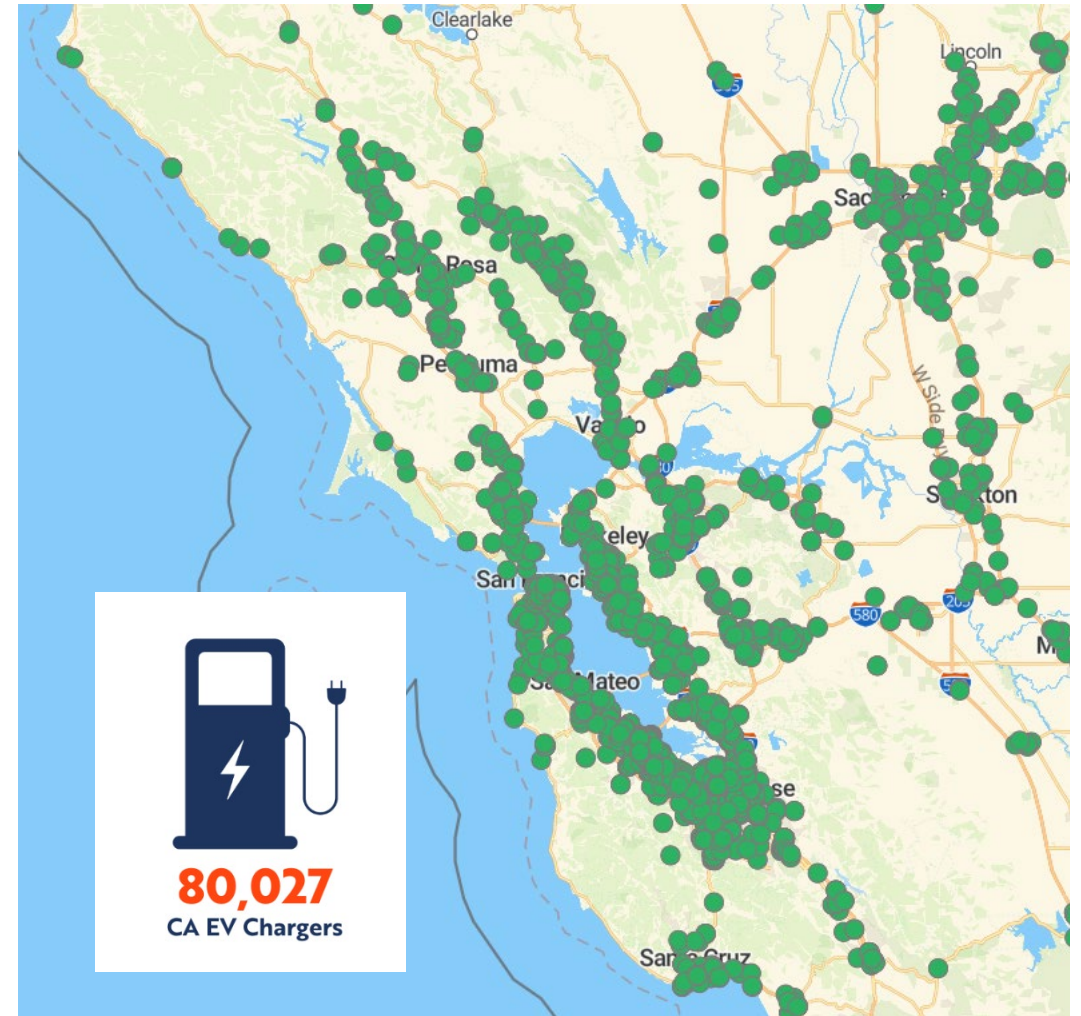


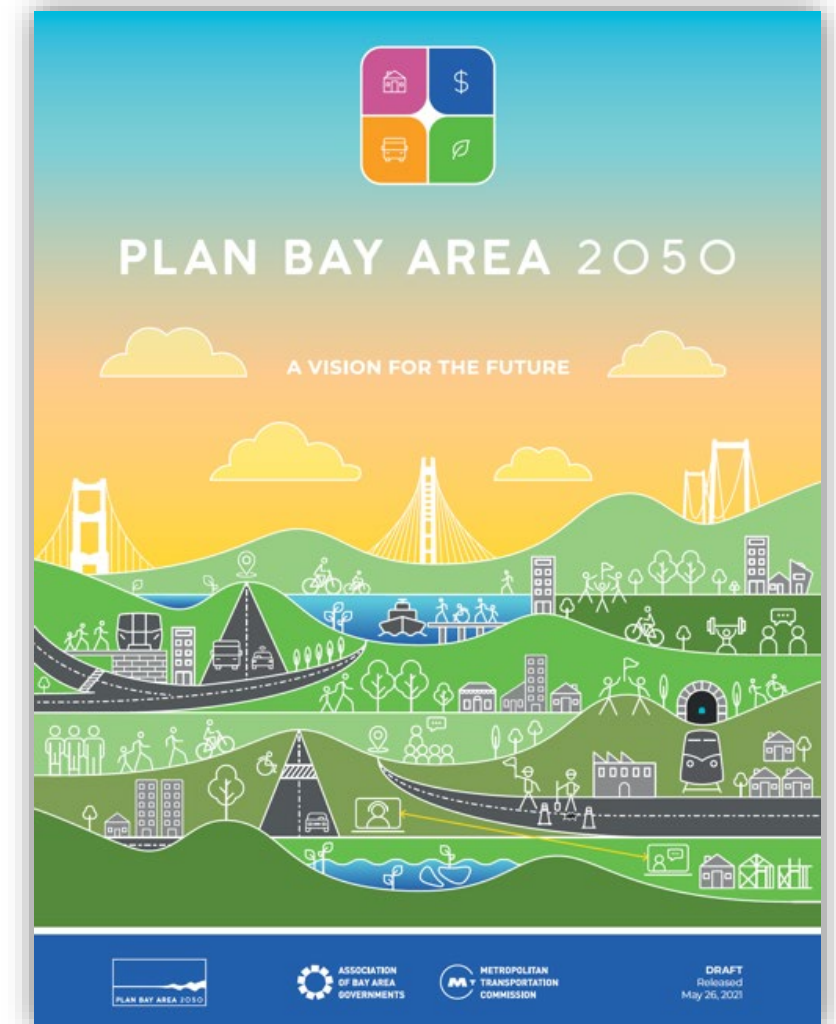
Image source: USDOE Alternative Fuel Data Center, Alternative Fueling Station Locator
Inset image source: Veloz Electric Vehicle Market Report, Q4 2022 Update (Feb 2023)

MTC Transportation Electrification Background

PLAN BAY AREA 2050

STRATEGY EN8
CLEAN VEHICLES

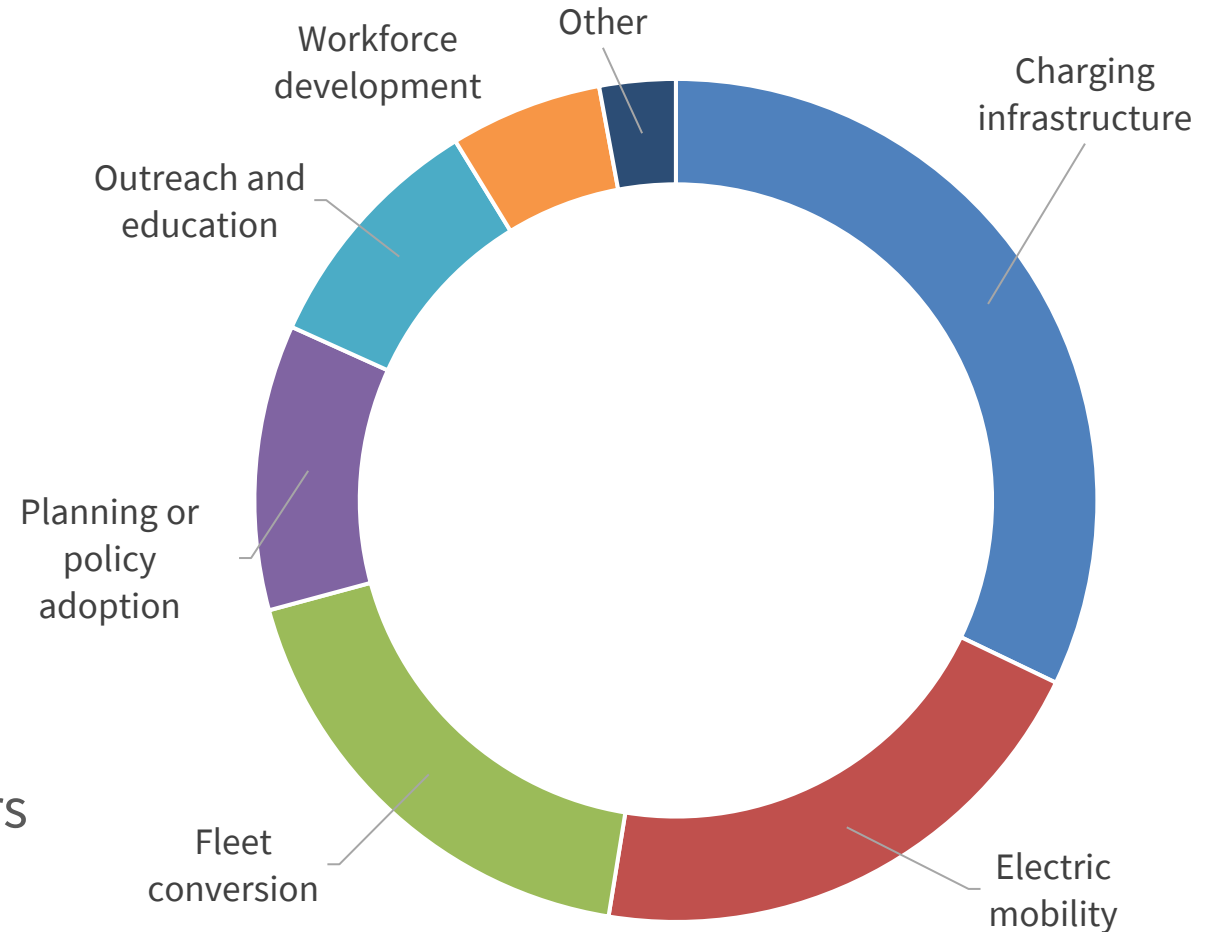
- Accelerating transportation electrification is a key strategy (EN8) in Plan Bay Area 2050 to help achieve the greenhouse gas reduction target
- MTC approved One Bay Area Grant (OBAG 3) programming on October 26, 2022, including \$65M for transportation electrification as part of the Climate Initiatives funding





Needs & Barriers: Who We Heard From

- 80 Letters of Interest (LOIs) from public agencies in all 9 counties
- Meetings
 - Bay Area Air Quality Management District (BAAQMD)
 - Community choice aggregators (CCAs)
 - PG&E
 - County transportation agency (CTA) Executive Directors and Planning Directors
 - Transit operators



2022-2023 Transportation Electrification Initiatives

Initiatives	Investment (in millions)
1. Charging Infrastructure 1A. Regional Transportation Electrification Assistance Program (\$20M) 1B. Transit Station Public Charging Program (\$10M)	\$30
2. <i>Electric Bikeshare*</i> 2A. <i>Bay Wheels Bikeshare E-bike Expansion (~\$16M)</i> 2B. <i>Additional Bikeshare Investments (~\$4M) – Return in Late Spring for Action</i>	\$20
3. Local Public Fleet Electrification 3A. Public Fleet Electrification Planning Assistance (\$10M)	\$10
4. Transportation Electrification Planning and Program Strategy 4A. Local Transportation Electrification Action Planning (\$4.5M) 4B. Regional Program Strategy (\$0.5M)	\$5
Total	\$65

*Operations Committee received information on electric bikeshare initiatives and approved the Executive Director to negotiate a Bay Wheels Bikeshare E-bike Expansion (2A) contract with Lyft, Inc. not to exceed \$15.94M on February 10, 2023.

1. Charging Infrastructure (\$30M)

1A. Regional TE Assistance Program (\$20M)

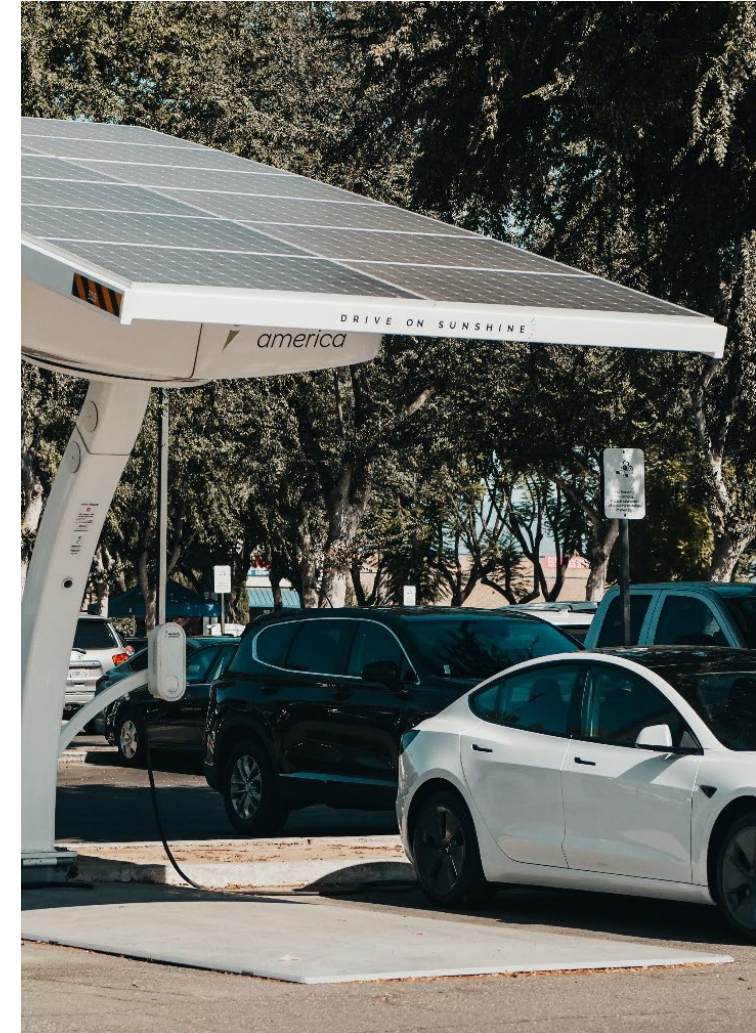
- Develop a coordinated Bay Area transportation electrification funding program in partnership with regional and local partners; advancing a charging infrastructure program in coordination with BAAQMD and potentially leveraging state and federal funding opportunities with CCAs
- Gap/Need Addressed:
 - Need for more charging infrastructure but existing array of programs is confusing
 - There is significant funding and expertise available in the Bay Area but lack of coordination to leverage those resources and extend their effectiveness



1. Charging Infrastructure (\$30M)

1B. Transit Station Public Charging (\$10M)

- Provide grants for transit agencies to install electric vehicle and e-mobility charging equipment at transit stations for both customers and community members
- Gap/Need Addressed:
 - Need for more public charging access at key destinations
 - Identify opportunities to support access to and use of clean mobility options



2. Electric Bikeshare (\$20M)

2A. Bay Wheels Bikeshare E-bike Expansion (\$16M)*

- Capital Investments: Bike fleet upgrade; Station infill and network expansion; Station electrification
- Equity Programs: College student program

2B. Additional Bikeshare Investments (\$4M) – *Return for Action in Late Spring*

- Regional Expansion to adjacent cities
- Capital Investments: Station electrification
- Equity Programs and Expansion: Adaptive bikeshare program; Regional expansion

*Operations Committee action on February 10, 2023.



3. Local Public Fleet Electrification (\$10M)

3A. Public Fleet Electrification Planning Assistance (\$10M)

- Provide consultant assistance to local public agencies for fleet electrification planning, including assessment of fleet vehicles, procurement status, vehicle replacement options, fueling and charging needs, financial costs and benefits, and transition actions
- Gap/Need Addressed:
 - Local jurisdictions need to meet imminent state mandates for clean fleets but lack the staff resources and expertise
 - Planning will improve access to upcoming fleet electrification funding



4. TE Planning and Program Strategy (\$5M)

4A. Local TE Action Planning (\$4.5M)

- Provide local planning assistance through county partners to improve public access to clean mobility options and charging infrastructure through local action plans, streamlining policies, project site planning and design, and engagement
- Gap/Need Addressed:
 - Some counties and cities have not prioritized TE actions, streamlining policies, or funding opportunities that will improve TE access and public charging infrastructure development



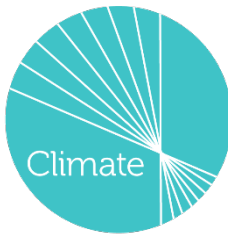
4. TE Planning and Program Strategy (\$5M)

4B. Regional Program Strategy (\$0.5M)

- Support targeted regional TE planning focusing on near-term actions for regional and local partners, including coordination of programs and pursuit of funding
- Evaluate regional TE program and develop recommendations for program updates or new initiatives
- Gap/Need Addressed:
 - Stakeholders have expressed interest in more coordination between agencies across the region to expand funding opportunities and impacts of assistance programs
 - Need to assess new initiatives to inform future programming



Next Steps



Coordination – Continue engagement with BAAQMD, CTAs, CCAs, PG&E, and other local partners to coordinate planning and programming for the following initiatives:

- *1A. Regional TE Assistance Program* – engage with BAAQMD and CCAs (Winter 2023)
- *2B. Additional Bikeshare Investments* – return to committee for programming (late Spring 2023)
- *4B. Regional Program Strategy* – coordinate with regional partners to prioritize actions (Winter 2023)

Implementation – Develop and begin administering the following initiatives:

- *1B. Transit Station Public Charging Program* – issue guidelines and call for projects (Summer 2023)
- *2A. Bay Wheels Bikeshare E-bike Expansion* – develop contract with Lyft (Winter 2023)
- *3A. Public Fleet Electrification Planning* – issue guidelines and call for projects (Summer 2023)
- *4A. Local TE Action Planning* – administer through county partners (Fall 2023)



Recommended Action

Approve proposed Transportation Electrification program categories 1, 3, and 4 and investment amounts

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Thank You



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