

2023

California Department of Transportation (Caltrans)

ZEV Role: Caltrans manages more than 50,000 miles of California's state highway system, operates one of the largest vehicle fleets in the country, provides inter-city rail services, supports transit operations, and works with local agencies to plan and construct transportation projects. Caltrans is incorporating zero-emission vehicles and infrastructure into all of these responsibilities.

Equity Focus: Reduce the negative externalities of the state's transportation system on the most impacted communities. Ensure that access to ZEVs, deployment of ZEVs, and the development of ZEV infrastructure is carried out in an equitable manner resulting in improvements in air quality and increasingly sustainable land use patterns.

ZEV Market Development Objectives

1. Caltrans fleet

Continue purchasing zero-emission vehicles and building out supporting infrastructure.

Key Collaborators:

DGS, CalSTA, CARB

Key Results & Actions:

- Complete delivery of 399 battery electric sedans; begin delivery of 235 battery electric SUVs and 18 battery electric street sweepers.
- Begin design and/or construction at 100 new sites to install Level 2 or Level 3 charging infrastructure, based on operational needs.
- Plan replacements of fleet vehicles with ZEVs and corresponding infrastructure needed to meet state goals and laws, including Executive Orders and regulations.

2. Public charging

Support publicly accessible infrastructure for zero-emission vehicle charging and fueling.

Key Collaborators:

CEC, Tribal governments, local and regional governments, FHWA, Joint Office of Energy and Transportation, GO-Biz, local and regional governments

Key Results & Actions:

- Collaborate with the California Energy Commission to release the first round of funding under the National Electric Vehicle Infrastructure program.
 - Support applications from State, regional, and local governments to the US DOT's Charging and Fueling Infrastructure discretionary grant program.
 - Analyze the ZEV charging/fueling network and identify opportunities to use the Caltrans right of way to fill gaps in the ZEV charging/fueling network.
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3. Rail and mass transit

Lead first-in-the-nation deployment of intercity zero-emission multiple unit passenger vehicles and cross-agency pilots for zero-emission passenger locomotives.

Key Collaborators:

Transit and rail agencies, CARB, CalSTA, CEC, GO-Biz, FRA, FTA, FHWA, vehicle manufacturers, host railroads.

Key Results & Actions:

- Perform market sounding for hydrogen railway (Hydrail) technology to support the replacement of diesel locomotives on inter-city routes.
- Implement the Zero-Emission Strategy for Intercity Passenger Rail to reduce emissions from locomotives, improve air quality, and establish a shared understanding of technologies.
- Begin procurement and provide oversight on the deployment of zero-emission multiple-unit rail vehicles. Gain direct experience operating and maintaining these vehicles in a passenger environment.
- Coordinate zero-emission rail efforts across all state rail agencies and zero-emissions transit efforts with partner agencies, including a Zero-Emission Handbook for agencies.
- Oversee the development of zero-emission dual-mode catenary and battery multiple unit passenger rail vehicles.
- Oversee the demonstration of zero-emission over-the-road hydrogen fuel cell electric coaches.

- Identify opportunities to develop charging and fueling infrastructure to support both rail and transit modes at station locations.
 - Administer funding agreements from FHWA to support hydrogen fueling stations at three transit agencies selected by CalSTA.
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4. Freight

Leverage existing freight planning and funding to support infrastructure for zero-emission trucks.

Key Collaborators:

CTC, CalSTA, CEC, CARB, local and regional governments, ports

Key Results & Actions:

- Publish the 2023 California Freight Mobility Plan, including findings from the SB 671 Clean Freight Corridor Efficiency Assessment, which will identify six freight corridors, or segments of corridors, and the infrastructure needed to support the deployment of zero-emission medium and heavy-duty vehicles. This plan will include strategies to support the deployment of infrastructure throughout California for zero-emission trucks.
- Oversee the Sustainable Transportation Planning Grant Program and support planning projects that develop zero-emission charging and fueling infrastructure.
- Continue organizing the Interagency Freight Program monthly meetings to coordinate sustainable freight activities across state agencies, including those related to zero-emission vehicles and charging and fueling infrastructure.
- Pending awards, begin implementation of Caltrans' zero-emission charging and fueling infrastructure projects that receive funding under Cycle 3 of the Trade Corridor Enhancement Program (TCEP). Scope zero-emission charging and fueling infrastructure projects to submit to Cycle 4 of TCEP.
- Begin project administration responsibilities for any zero-emission charging and fueling freight projects awarded under the Port and Freight Infrastructure Program.