

# California Department of Transportation (Caltrans)

## **ZERO- EMISSION VEHICLE ACTION PLAN 2.0**

Transportation is the largest source of greenhouse gas (GHG) emissions in California—with tailpipe emissions, oil extraction, and oil refining combined accounting for roughly 50 percent of all in-state emissions. Caltrans ZEV Action Plan 2.0 guides the Department's ZEV-related policies and plans by both identifying key actions to meet the State's ZEV targets and facilitating Department coordination.

Equity: Caltrans ZEV Action Plan 2.0 commits to implementation that serves priority communities, when feasible, defined in the California State Transportation Agency's (CalSTA) Climate Action Plan for Transportation Infrastructure (CAPTI) as disadvantaged, low-income, and Black, Indigenous, and People of Color (BIPOC) communities.

### **Caltrans ZEV Action Plan 2.0 Activity Categories:**

**GREEN FLEET:** Increasing zero-emission vehicles on road and rail.

**RIGHTS-OF-WAY:** Coordination to improve ZEV Electric Vehicle Supply Equipment (EVSE) within Caltrans' right-of-way.

**DIG SMART:** Planning activities to minimize resources spent on ZEV technology installations.

**BIKE/WALK INTEGRATION:** Supporting biking and walking as zero-emission modes of transport.

**RESEARCH AND DEVELOPMENT:** ZEV research and development activities that support ZEV market growth.

**ZEV INFRASTRUCTURE SIGNAGE:** Improve visibility to the ZEV market by installing ZEV infrastructure signage.

**PARTNERSHIPS AND COORDINATION:** Internal and external coordination to support our main objectives.

## **Caltrans ZEV Action Plan 2.0 Objectives & Actions:**

1. **GREEN FLEET:** Create and promote the greenest DOT fleet in the country and support the transition to zero-emission rail. Prioritize ZEV fleet and rail deployment to facilities located in regions that historically suffer from poor air quality.

Key Collaborators: DGS, CTC, CARB, CalSTA, CPUC, CEC, Go-Biz, OEMs, Utility Companies, USDOT, Amtrak, Rail Agencies

### Key Results & Actions:

- i. **Update and Implement the Caltrans Fleet Acquisition Plan** – Obtain non-competitive bid approval for three hydrogen sweepers. Deploy in priority communities when feasible given infrastructure constraints.  
Target Date: March 2021.
  - a. *Final quote produced June 2021 for all electric sweeper trucks after finalizing equipment specifications.*
  - b. *Purchase order for 15 all electric sweeper truck issued October 2021. Delivery of sweepers to begin Summer 2022.*
- ii. **Implement Caltrans Workplace and Fleet EV Charging** - Install 1,000 Level 2 EVSE at Caltrans facilities across all districts.  
Target Date: July 2022
  - a. *Caltrans is making great progress towards meeting workplace and fleet ZEV infrastructure goals by installing 699 electric vehicle charging ports at Caltrans facilities. The installation of an additional 326 charging ports is currently underway.*
- iii. **Implement Intercity Rail Fleet Management Plan** - Delivery of a strategy to achieve a zero-emission intercity rail fleet by 2035, with an emphasis on routes that impact priority communities.  
Target Date: 2021
  - a. *The Division of Rail and Mass Transit (DRMT) developed the Caltrans Intercity Passenger Rail Zero Emission Strategy to achieve a zero-emission Caltrans intercity rail fleet by 2035. Now, DRMT is working with stakeholders across California to develop a strategy to transition all rail to zero-emission, with the establishment and kick-off of a zero-emission working group.*

2. **RIGHTS-OF-WAY:** Leverage Caltrans' rights-of-way to increase opportunities to access EV infrastructure, particularly in high priority communities and “gap” locations where there is no private investment.

Key Collaborators: CARB, CPUC, CEC, Go-Biz, Utility Companies, Local & Regional Government Agencies

Key Results & Actions:

- i. **Explore and Advance Hydrogen Fueling Corridors** - Update objectives for supporting hydrogen fueling with emphasis on support for heavy-duty vehicles, including the development of fueling corridors for freight. Explore partnerships with various industry stakeholders.

Target Date: December 2021

- a. *In collaboration with the California Energy Commission and the US Department of Energy, the Caltrans Division of Equipment initiated a hydrogen fueling pilot project at the District 7 Sylmar Equipment Shop. This ongoing project will place a mobile hydrogen fueling station on site for use by Caltrans fleet and the public.*

3. **ZEV INFRASTRUCTURE VISIBILITY:** Raise awareness of publicly accessible ZEV infrastructure through signage, mapping, and other communications tools. Ensure all published information is accessible to all, as per the accessibility standards outlined in Assembly Bill 434.

Key Collaborators: CEC, Utility Companies, Local & Regional Government Agencies, Electric Vehicle Charging Station Providers, Hydrogen Providers

Key Results & Actions:

- i. **Facilitate Installation of ZEV-Related Signage** - Facilitate installation or update highway signage directing customers to ZEV charging and hydrogen fueling stations, including signs indicating HOV/HOT access for ZEVs. Support standardized roadside and other signage.

Target Date: 2021 Annual Update

- a. *To reflect signage-related changes in the California Manual on Uniform Traffic Control Devices, the ZEV Signage Installation Guide was updated and posted on Caltrans website in July 2021. The Guide outlines the eligibility criteria for General and Specific Service Signs.*

- 4. PARTNERSHIPS & COORDINATION:** Coordinate internally and externally to support ZEV Program goals. Establish a clear stakeholder engagement process, with a focus on reaching underserved communities of color, and low-income community representatives.

Key Collaborators: CARB, CPUC, CEC, Go-Biz, DGS, FTA, CalSTA Utility Companies, Local & Regional Government Agencies, Transit Agencies

Key Results & Actions:

- i. **Update to Caltrans ZEV Program Website** – Keep the Caltrans ZEV Website up-to-date with current Department ZEV efforts.  
Target Date: Ongoing
  - a. *The Sustainability program made exciting changes to the ZEV Program web page, including new information surrounding ZEV incentive programs, current ZEV progress across California, and various other ZEV-related activities in the Department.*
- ii. **Facilitate ZEHTRANS Meetings** - Regional ZEV transit technology coordination that enables sharing best practices and grant opportunities for ZEV adoption.  
Target Date: Ongoing
  - a. *The Department of Rail and Mass Transit facilitated monthly Zero-Emission Heavy Transport Working Group meetings.*
- iii. **Support Implementation of ZEV Freight Strategies** - Implement California Sustainable Freight Action Plan (CSFAP) and California Freight Mobility Plan (CFMP) ZEV strategies to incentivize zero-emission freight. Prioritize inclusion of zero-emission freight projects in the CFMP project list. Support local and regional agencies and businesses in zero-emission infrastructure and vehicle deployment. Make ZEVs integral to freight approaches.  
Target Date: Ongoing
  - a. *Quarterly meetings were coordinated with the California Freight Advisory Committee (CFAC) and the Truck Parking Technical Advisory Committee (TPTAC) to discuss ZEV issues and opportunities in relationship to truck parking.*