



ZERO-EMISSION VEHICLE PROGRAM

Presentation to the
California Transportation Commission

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CALTRANS ZEV PROGRAM

Public Charging	Public charging for general public use on Caltrans right-of-way
Workplace	Charging for private vehicles owned by Caltrans employees
Partnering	Activities to support development and deployment of ZEV technologies working with others
Fleet	Integrating vehicles and charging infrastructure into the Caltrans light, medium, and heavy duty fleet
Freight	Support for sustainable freight technology adoption for spectrum of freight activities

ZEV - STATE POLICY FRAMEWORK

AB/SB 32

Global Warming Solutions Act 2006

Statewide greenhouse gas emissions (GHG) to 1990 levels by 2020 (AB 32) and to 40% below 1990 level by 2030 (SB 32)

EO B-16-12

Zero-Emission Vehicle Executive Order 2012

1.5 million ZEVs on California roads by 2025

EO B-48-18

Zero-Emission Vehicle Executive Order 2018

5 million ZEVs on California roads by 2030; 250,000 ZEV chargers (including 10,000 DC Fast chargers) by 2025

SB 100

California Renewables Portfolio

Puts State on path to implement a zero-carbon electricity grid by 2045

PUBLIC CHARGING: “30-in-30” ZEV DC CHARGING STATIONS

- The CTC has programmed 11 projects including public DC fast chargers at 37 locations.
- Strategic locations chosen in consultation with the CEC
- Application to FHWA in process to enable piloting of fee-based public charging.
- \$1.82 million in grant funds received from Local Air Districts in D5 and D6 to install chargers.

PUBLIC CHARGING: PARK & RIDES

- Some park & rides offer valuable opportunities for EV charging.
- District 11 (San Diego) has early experience and is partnering with SDG&E on a PUC-approved plan with \$4 million in SDG&E investment
- Working to identify additional appropriate locations
- Seeking FHWA approval to pilot fee-based program



Charging station at Del Lago Park & Ride

WORKPLACE CHARGING: EVGO MAKE-READIES (NRG)

A Make-Ready means all the necessary electrical infrastructure to operate charging stations



Installed Make-Ready at District 4

- Funds from NRG legal settlement settlement of up to \$30,000 per site to provide Level 2 EV charger Make-Readies.
- Investment round 1: 155 Make-Readies installed at 17 Department locations.
- Investment round 2: 160 installations at 18 locations proposed
- Combined investment of over \$1 million.

WORKPLACE CHARGING: EV CONNECT (VW SETTLEMENT FUNDS)

Caltrans has entered into an agreement with EV Connect so the Department can benefit from the terms of the Settlement Agreement between VW and the State. EV Connect will provide the following at no cost to the State:

- Up to Six Level 2 Dual Charging stations at 40-45 locations.
- Ongoing warranty and support, maintenance and repair through 12/31/2026.
- \$4 to 5 million estimated investment.



Level 2 Dual Charging Station at District 4

PARTNERING / LEADING BY EXAMPLE

- Caltrans participates in the Interagency ZEV Working Group convened by GO-Biz
- Ongoing Partnerships with DGS, GovOps, and the Energy Commission
- Participation in a range of events with private industry
- In FY 2017-18, grants to transit operators statewide funded the purchase of 188 Zero Emission buses, 85 Hybrid Electric vans or cars, and 7 electric infrastructure projects.