Recommendations to Increase the Use of Zero-Emission Vehicles Per Senate Bill 498

January 23, 2020
SB 498 Report Requirements

- Review CARB programs affecting the adoption of ZEVs
- Compare CARB’s ZEV programs with other states’ and countries’ programs
- Make policy recommendations to accelerate the ZEV market
- Identify actions fleets can take to increase ZEVs within their operations
ZEVs Are Essential

- California’s transportation sector is leading source of air pollution
- ZEVs needed to achieve State goals in
  - Public health protection
  - Air quality
  - Climate change

Statewide Total Emissions Contribution from Mobile Sources

ZEV Programs

Regulations
- ZEV Regulation
- Advanced Clean Trucks
- Innovative Clean Transit

Incentives
- CVRP
- Clean Cars 4 All
- HVIP
- Clean Mobility Options

Supporting Programs
- CalGreen Code
- One-Stop-Shop
- AB 8 Hydrogen Fueling Infrastructure
Developing Policy Recommendations

- Build Upon the Governor’s ZEV Action Plan and EO N-19-19

- Stakeholder engagement:

  Across CARB
  - All ZEV programs across multiple divisions

  Other Agencies
  - Caltrans
  - CEC
  - CPUC
  - CWDB
  - DGS
  - GO-Biz
  - GovOps

  UC-ITS
  - Public Workshop
    - 5/31/19
  - Board Hearing
    - 7/25/19
  - Board Hearing
    - 1/23/2020

- Public
Policy Recommendations

To accelerate the ZEV market through:

1. Incentives and pricing strategies
2. Lower fuel costs
3. ZEV refueling infrastructure
4. Local policies
5. Fleet adoption
6. Outreach and education
7. Workforce development
8. Program flexibility
1. Incentives and Pricing Strategies

a. Provide predictable and expanded funding for ZEV incentive programs.

b. Provide increased incentive funding to ensure priority populations can access zero-emission transportation.

c. Establish Statewide pricing strategies and zero-emission truck lanes along freight corridors.
2. Lower Fuel Costs

a. Define SB 350 transportation electrification to be inclusive of renewable hydrogen.

b. Set targets for technologies and strategies that integrate electric vehicles with the electricity grid.

c. Require POUs to include electricity rate design details for transportation electrification in their Integrated Resource Plans.
3. ZEV Refueling Infrastructure (1 of 3)

a. Extend CEC’s Clean Transportation Program beyond 2023 and promote ZEV fuels.

b. Convene a multi-agency working group focused on accelerating heavy-duty and off-road ZEV infrastructure.

c. Require CALGreen Code to include mandatory installation of level 2 charging.
3. ZEV Refueling Infrastructure (2 of 3)

d. Exempt sales taxes on ZEV infrastructure.

e. Require charging infrastructure at State facilities.

f. Provide CEC additional funding for ZEV infrastructure within and near priority populations.

g. Direct CEC and CPUC to identify investment priorities for ZEV infrastructure.
3. ZEV Refueling Infrastructure (3 of 3)

h. Increase funding for ZEV regional readiness planning and implementation.

i. Expand focus of transportation funding to reflect freight ZEV infrastructure needs.

j. Direct the EPIC program to include research and development into next-generation ZEV infrastructure.
4. Local Policies

a. Provide explicit authority to local jurisdictions to create zero-emission zones.

b. Provide explicit authority to local governments to implement equitable pricing mechanisms.

c. Incentivize local governments to develop and implement local ZEV readiness plans.
5. Fleet Adoption

a. Building on SB 1014, direct CARB to adopt zero-emission mileage requirements in high-mileage and new mobility fleets.

b. Direct DGS to establish zero-emission VMT targets for the State’s fleet, and set ZEV targets for other vehicles used by the State.

c. Establish ZEV targets for other government fleets.
6. Outreach and Education

a. Create a State “Electricity Rate” Ombudsperson.

b. Increase funding for ZEV outreach with a focus on priority populations and heavy-duty fleet operators.

c. Fund training for local government officials and builders.

d. Provide funding for CARB to establish partnerships for experimentation.
7. Workforce Development

a. Increase investment programs that target gaps and promote job preparation through partnerships.

b. Fund research on the job benefits from public investments in ZEVs and strategies to ensure the quality of these jobs.
8. Program Flexibility

a. Explore methods to increase flexibility of ZEV program requirements.

b. Continue to provide six years to spend ZEV incentive funding.
Next Steps

- Approve resolution 20-3
  - Board supports these recommendations
  - Staff will explore actions to implement recommendations
  - Staff will evaluate comments received and revise report as appropriate
- Submit revised report to Legislature