



Update To The Three-year Plan For Light-Duty Vehicle and Clean Transportation Equity Investments

February 10, 2022

Agenda

Time	Topic
12:30 p.m.	Introduction & Overview
12:45 p.m.	ZEV Market and Technology Assessment Updates <ul style="list-style-type: none">• Trends in the Global, United States, and California ZEV Markets, <i>CARB and the California New Car Dealers Association</i>• Progress towards ZEV sales goals, <i>Center for Sustainable Energy</i>• ZEV Technology Assessment Update, <i>CARB</i>• California ZEV Infrastructure Update, <i>California Energy Commission</i>• COVID-19 Impacts on the ZEV Market, <i>UC Davis ITS</i>
2:15 p.m.	Break
2:25 p.m.	Clean Vehicle Rebate Project Trends / GHG & Cost-Effectiveness Metrics
3:15 p.m.	Clean Cars 4 All Update
3:45 p.m.	Financing Assistance Update
4:15 p.m.	Final Q&A and Next Steps
4:30 p.m.	Adjourn

Introduction & Overview

Overview of SB 1275 (2014)

- Charge Ahead California Initiative
- 1 million zero- & near-zero emission vehicles in California by 2023
- Changes to CVRP, including income cap
- Increase access to electric vehicles (EVs) for priority populations
- Long-term plan for CVRP and related programs
 - Began with 2016-17 Funding Plan
 - Update the plan at least every 3 years through January 1, 2023

Long-Term Plan Forecasting Requirements

- SB 1275:
 - 3 year forecast of funding needs
 - Market and technology assessment
 - Assessment of when self-sustaining market is expected
 - Update plan at least every 3 years
- Supplemental Report of the 2018-19 Budget Act:
 - Annual update of CVRP forecast until 2030
 - Projected sales figures of EVs
 - Assessment of marketing efforts of EVs by automobile manufacturers

Zero Emission Vehicle (ZEV) Market Goals

- ZEV Deployment Goals
 - 1 million by 2023
 - 1.5 million by 2025
 - 5 million by 2030
- All new vehicles must be electric by 2035
- Fleet turnover by 2040

Framework of Long-Term Plan

- 3 year funding forecast for CVRP, CC4A, and Financing Assistance
 - Forecast based on program demand in recent years
 - Forecast growth needed to meet 2023, 2025, and 2030 ZEV deployment goals
- Request input on these approaches, suggestions for other potential forecasting methods
- Evaluate when self-sustaining market may be reached
 - Will present update on indicators that will help refine analysis as market evolves
 - Due to market dynamics, exact timeline can not be predicted

Framework of Long-Term Plan

- Updates on
 - Battery and Fuel cell system and storage cost
 - Incremental cost of plug-in electric vehicles
 - ZEV charging infrastructure
- Focus on status of ZEV technology, consumer preferences, and an equitable transition to electric
- Analysis of the used ZEV market

Framework of Long-Term Plan

- Examine recent and ongoing research
- Assessment of how vehicle purchase incentives may be modified based on:
 - Expected changes in market conditions
 - Increased focus on an equitable transition to electric
- Separate but coordinated effort to update the long-term plan for clean mobility investments

Questions?

- Use the raised hand function (#2 if calling in by phone) or submit your question or comment in the Q&A box on Zoom.
- Please state your name and affiliation before asking a question or making a comment.

ZEV Market and Technology Assessment Updates

Global EV Market Update

- By the end of 2020, there were over 10 million electric vehicles on the world's roads.
 - Battery electric vehicles (BEVs) accounted for two-thirds of the global EV stock
- Top Global EV Fleets
 - China: 4.5 million EVs
 - Europe: 3.2 million EVs
 - United States: 1.8 million EVs

United States EV Market Update

- Over 295,000 new plug-in electric vehicles (PEV) registered in 2020 alone
 - BEVs accounted for nearly 78% of this total
- All-electric market share grew to 2.9% through Q3 of 2021 (up from 1.8% in 2020)
- Top 4 states with highest PEV share: California, Texas, Florida, and Washington
 - Account for more than half of the country's EVs

California EV Market Update

Anthony Bento, *California New Car Dealers Association*

Progress Towards California ZEV Sales Goals

John Anderson, *Center for Sustainable Energy*

ZEV Technology Assessment

Ryan Hart & Andrew Martinez, *CARB*

California ZEV Infrastructure Update

Brian Fauble, *California Energy Commission*

COVID-19 Impacts on the ZEV Market

Dr. Gil Tal, *UC Davis Institute of Transportation
Studies*

Break

CVRP Trends / GHG & Cost-Effectiveness Metrics

CARB and the Center for Sustainable Energy

Snapshot of CVRP Statistics

- Over \$1 billion invested since 2010
 - 448,000+ rebates issued
- Equity Statistics
 - 115,000+ rebates totaling nearly \$307 million (~30% of funding) benefitting priority populations
- FY 2021-22 Funding Allocation
 - \$515 million to last through FY 2023-24

CC4A Program Updates

Anthony Poggi, CARB

Program Background & Statistics

- \$190 million allocated to-date
- Funded more than 12,000 vehicle replacements
- Maximum Incentive Amounts
 - ZEV or PHEV: \$9,500
 - Hybrid: \$7,000
 - Mobility Option: \$7,500
 - EVSE or Charge Card: \$2,000



**CLEAN CARS
FOR ALL**



**CLEAN CARS
4 ALL**

District Status & Program Changes

- District Program Status
 - South Coast, Bay Area & San Joaquin: Open
 - Sac Metro: Temporarily Closed
 - San Diego: Coming Soon
- 2021-2022 Funding Plan Changes
 - Flexibilities for incentive amounts, vehicle technologies, and lowering of income cap
 - Statewide Expansion
 - Changes may be implemented after program guideline update

Financing Assistance Program Updates

Ali Koohestani, CARB

Project Goals

- Facilitate access to affordable and fair financing
- Provide additional health, economic, and social benefits to low-income communities.
 - Program goals and objectives will be updated through this year's funding plan process to institute measurable social goals.

Project Background & Current Status

- Started a pilot in small-scale in Northern California in 2015
- Expanded to Statewide in 2018
- More than \$43 million allocated
- More than 4,600 vehicle grants issued
- More than 1,700 EVSE grants provided
- Facilitated more than 1,500 low-interest loans

Project Revamp

- Adopting needs-based model
- Expanding partnership with CBOs and local communities
- Expanding partnership with more banks and credit unions
- New solicitation release planned for March 2021

Final Q&A and Next Steps

CARB

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Next Steps

- Funding Plan Development and Long-Term Plan

Date	Milestone
February 17	First clean mobility focused work group for the Long-Term Plan
Late March	Second light-duty vehicle focused workshop for the Long-Term Plan
Mid-May	Governor releases revised 2022-23 Budget proposal
Late May	Third light-duty vehicle focused workshop for the Long-Term Plan
March-July	Various public workshops and work groups for the FY 2022-23 Funding Plan
Fall 2022	Release proposed 2022-23 Funding Plan, w/ long-term plan for consideration at late-2022 Board meeting

CARB Contact Information

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- [Subscribe to CARB's GovDelivery listserv](#)

Thank you for participating!