Welcome! ¡Bienvenidos!

Simultaneous interpretation is being provided - English speakers may need to select English as their language.

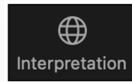
Accessing Zoom from a computer

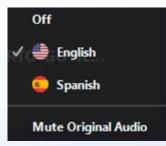
 Click the globe icon located at the bottom of the screen

Choose English

Accessing Zoom from a smart phone

- Click the 3 dots (more) on the bottom right side of the screen
- Choose Language Interpretation
- Choose English
- Press **Done** on the top right side of the screen







Interpretación simultanea al español disponible - los hispanohablantes deben seleccionar su idioma.

Entrando a Zoom por computadora

- Haga clic en el símbolo del globo terráqueo en la parte inferior de la pantalla
- Selecciona Español
- Apague el Audio Original (para solo escuchar una voz)

Entrando a Zoom por un teléfono inteligente

- Haga clic en los 3 puntos encima de la palabra more o más en la parte inferior derecha de la pantalla
- Selecciona Interpretación
- Selecciona Español
- Haga clic en **Done** o **Finalizar** arriba y de lado derecho de la pantalla







Evening Community Meeting: Clean Transportation Incentives for a Cleaner California

Public Workgroup Meeting September 17, 2024



Meeting Agreements

- Be respectful
- Take space, make space
- Listen to understand
- Strive to follow an equitable approach when helping to strategize solutions for our clean transportation incentive programs
 - Equity recognizes that advantages and barriers exist, and that, as a result, we do not all start from the same place



Evening Community Meetings

- Monthly community meetings will provide a space for community members across the state to engage with California Air Resources Board staff.
- Community Meeting Goals
 - o Hold a platform for community voices and their priorities
 - o Brainstorm solutions for clean transportation needs
 - Highlight the most important information for communities
 - o Continuous two-way communication between staff and communities



Today's Agenda

Time	Session
5:00 - 5:10 p.m.	Introduction
5:10 - 6:00 p.m.	Review of the Clean Transportation Equity and Light-Duty Vehicle Investments
6:00 - 6:05 p.m.	Break
6:05 – 6:55 p.m.	Review of the Clean Truck and Bus Voucher Incentive Project, Innovative Small E-Fleet Pilot Project, Zero-Emission Truck Loan Pilot Project, Clean Off-Road Equipment Voucher Incentive Project, and Long-Term Heavy-Duty Investment Strategy
6:55 - 7:00 p.m.	Wrap-up and next steps



Comments and Questions



Use the raised hand function (#2 if calling in by phone)



Please state your name and affiliation, if any, before asking a question or making a comment.



You may also email questions to cleantransportationincentives@arb.ca.gov





Review of the Clean Transportation Equity and Light-Duty Vehicle Investments

Workgroup Topics

- 1. Zero-Emission Assurance Project
- 2. Vehicle Affordability Analysis
- 3. Driving Clean Assistance Program
- 4. Sustainable Community-Based Transportation Equity Projects
- 5. Metrics and Evaluation





Zero-Emission Assurance Project (ZAP)



Background on ZAP

Established by Assembly Bill 193 Helps lowerincome
Californians
reduce risk of
buying an
unreliable used
zero-emission
vehicle

Rebate for replacement of battery or fuel cell component

- No funds appropriated in the Fiscal Year 2024-25
- Expected project launch in 2025



Potential Zero-Emission Assurance Project (ZAP) Policies: Participant Eligibility

Anyone who has participated in CARB's Clean Cars 4 for All or Financing Assistance projects are eligible if:

Maintained continuous ownership

Have household income at or below 300% of the Federal Poverty Level

Limit incentive/warranty to one per vehicle



Potential ZAP Policies: Vehicle Coverage and Rebate Amount

- Fifteen years after the date of manufacture or up to 200,000 miles, whichever is later.
- Rebate up to \$7,500 to replace premature failure of batteries or fuel cell components, including labor, or
- Grant equivalent up to \$7,500 to purchase a new or used clean vehicle.
 - Stackable with any other local or federal incentive programs. Not stackable with CARB vehicle purchase incentive projects.
 - Older vehicle donated to community college automotive technician programs to assist with workforce training.





Vehicle Affordability Analysis Update



Key Takeaways

New ZEVS

• CARB's cash incentives, 8% interest rate loan, and Federal Clean Vehicle Tax Credit reduce the costs of a new ZEV but do not enable affordable choices for lower-income households given the parameters of the analysis.

Used ZEVs

- Few affordable used small ZEV options without CARB incentives (6 options).
- Factoring in the Clean Cars 4 All incentive, 8% loan, and the used Federal Clean Vehicle Tax Credit greatly increases the number of affordable options (88 options)
- Combined incentives provide diverse vehicle choice but larger vehicle options limited



Summary

- While these results suggest that there are no affordable new vehicle options for lower-income households even when including incentives, we continue to see an increase in demand for new vehicle purchases through CARB incentive programs focused on lower-income consumers.
- With the expansion of the Clean Cars 4 All and Financing
 Assistance statewide through the Driving Clean Assistance
 Program, CARB staff will continue to analyze real-world data from
 these programs to inform future updates of this analysis.



Updates to Driving Clean Assistance Program (DCAP)

Prior Funding Plans have established a financing loan cap of \$35,000.

In response to market analysis and comments in other workgroups, staff proposes to increase the financing loan cap to \$45,000.

Enables DCAP to be responsive to market conditions and will provide participants with greater opportunities to find a vehicle.



Sustainable Community-Based Transportation Equity Projects

Statewide Clean Mobility Options Voucher Pilot Program (CMO)

Small-scale, shared-mobility projects and community transportation needs assessments

Sustainable Transportation Equity Project (STEP)

Holistic, equity-focused projects to address community mobility needs and reduce vehicle miles traveled



Regional Clean Mobility Options Pilot Projects

Early pilots to provide shared mobility services







Community-led planning and capacity building projects

Clean Mobility in Schools (CMIS)

Clean transportation and education projects at K-12 public schools







Evaluating Needs-Based Models

Background

- Received feedback to implement a needs-based model across all investment projects
- Implementing a need-based model with launch of the Driving Clean Assistance Program (DCAP)
- Sustainable Community-Based Transportation Equity (Mobility) Projects currently implement needs-based models

Next Steps

- Discuss alternatives to needs-based models for Mobility Projects through future public workgroups
- Evaluate current application processes across the Mobility Projects
- Evaluate findings from FY 2022-23 STEP/CMIS/PCB technical assistance survey for project improvements
- Collect data and lessons learned from DCAP

Metrics and Evaluation

- CARB's metrics and evaluation goals
- Data and metrics currently collected
- Measuring socioeconomic benefits
- Challenges and opportunities





CARB's Metrics and Evaluation Goals



- Evaluate project/program effectiveness
- Address audit findings
- Standardize data collection
- Identify gaps
- Data-sharing system



Data and Metrics Currently Collected





Categories of Metrics



- 1. Estimated (modeled) benefits
- 2. Participant information
- 3. Project- and program-level information
- 4. Outreach and engagement data



1. Estimated (Modeled) Benefits

- Outputs from California Climate Investments (CCI) Benefit Calculator Tools
- Examples: Emission reductions, vehicle miles traveled reductions, fuel use avoided, etc.
- Takeaway:
 - Based on *expected* project scope and performance. Publicly available on the CCI website.

2. Participant Information

- Data from incentive applications, surveys, and telematics
- Examples metrics: participant demographics, location of participant or service, vehicle information, trip information, etc.
- Takeaway: Data reporting varies across programs.
 - Purchase incentives have data dashboards and maps¹, but demographic data is limited.
 - Mobility projects are early in the process of compiling and analyzing data.

¹https<u>://www.calzevinsights.org/</u>



3. Project-Level Information

- Collected by grantees or project administrators
- Examples: number of grants, enrollments, partners; monetary values (total and individual grant/incentive/voucher values), number of vehicles/equipment, etc.
- Takeaway:
 - Data is publicly available, but not in a single, centralized location. Some metrics are reported in the annual Funding Plan and on the California Climate Investments Data Dashboard.

4. Outreach and Engagement Data

- Data tracked by grantees and project administrators or collected via surveys
- Examples: Number and type of outreach events and partners, number and type of engagement interactions, community member feedback, etc.
- Takeaway:
 - Data is challenging to track and report but helps to illustrate successes and gaps in CARB's and partners' outreach efforts.



Measuring Socioeconomic Benefits



Above: Shasta Living Streets hosts a celebration to mark the opening of the Shasta Bike Depot and Redding Bikeshare in downtown Redding, California, on Friday, May 12, 2023. The bikeshare project is funded by Clean Mobility Options.



Measuring Socioeconomic Benefits



Purpose: Ensure that projects deliver intended socioeconomic benefits.

- Step 1: Identify metrics indicative of socioeconomic benefits
 - Completed for Fiscal Year 2022-23 Funding Plan)
- Step 2: Develop a process to collect data
 - Completed by fall 2023 and documented on CARB's website
- Step 3: Evaluate program/project effectiveness by analyzing metrics
 - In progress



Challenges and Opportunities

Challenges:

- Demographic data collection and reporting
- Standardizing and systematizing metrics collection
- Capacity to perform robust data/metrics analysis

Opportunities:

- Standardized user survey
- Utilize available data to update policies





Comments and Questions



Use the raised hand function (#2 if calling in by phone)



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5-Minute Break Return at 6:05 p.m.







Review of the Clean Truck and Bus Voucher Incentive Project, Innovative Small E-Fleet Pilot Project, Clean Off-Road Equipment Voucher Incentive Project, and Long-Term Heavy-Duty Investment Strategy



Workgroup Topics

- Proposed updates to Fiscal Year (FY) 2024-25 Clean Truck and Bus Voucher Incentive Project (HVIP)
- Proposed updates to FY 2024-25 Innovative Small E-Fleet Pilot Project (ISEF)
- Proposed updates to FY 2024-25 Clean Off-Road Equipment Voucher Incentive Project (CORE)
- FY 2024-25 Long-Term Heavy-Duty Investment Strategy update





Clean Truck and Bus Voucher Incentive Project (HVIP)

HVIP Principles

- Accelerate market transformation for the cleanest advanced technologies
- Support the goals laid out in CARB's Long-Term Heavy-Duty Investment Strategy
- Drive purchase decisions
- Maintain simplicity and a fleet-friendly process
- Support CARB regulatory programs
- Avoid market disruptions by unpredictable funding availability
- Graduate established technologies
- Support more equitable investments



Clean Truck and Bus Voucher Project (HVIP)

- Support CARB regulatory programs
- Accelerate market transformation for cleanest technologies
- Support equitable investments



Status:

\$144 Million in available funds

12,100+ vehicles funded 2,000+ fleets participating

Vouchers may be exhausted by late 2024

Staff Proposals:

Review Voucher amounts and simplify structure

Consider implementing MSRP cap

of vehicle
Vouchers to
fleets

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California HVIP webpage

- https://californiahvip.org
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Comments and Questions



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Innovative Small E-Fleet Pilot Project (ISEF)



Background

- Accelerates market transformation by further reducing purchase price of zero-emission technologies for small fleets
- Provides fleets innovative solutions such as all-inclusive leases, truck-as-a-service, and other mechanisms
- Transactions have involved three primary parties ISEF provider,
 HVIP approved dealer, and an eligible small fleet participant
- Small fleet participants own 20 or fewer vehicles and make less than \$15 million in annual revenue



FY 2024-2025 Proposals

Status:

\$21 million in available funds

Continued focus on small fleets & innovation



Staff Proposals:

\$14.97 million of the AQIP appropriation

Future Options Being Explored:

Design Used Truck Voucher Pilot Fleet Management Assistance Insurance



Contact Us

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Comments and Questions



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Clean Off-Road Equipment Voucher Incentive Project (CORE)



First Come, First Served



Offset Higher Zero-Emission Costs

CARB Determines Funding Amounts

Stacking Allowed - No Scrappage Required

Enhancements for infrastructure, small business, and disadvantaged communities



Clean Off-Road Equipment (CORE) Voucher Update

Staff Proposals:

Proposing \$14.97 million Air Quality Improvement Program

Funding focused solely on small businesses

Graduate terminal tractors

New voucher amounts for forklifts >54,001 lbs. lift capacity

Streamline equipment eligibility





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California CORE webpage

- https://californiacore.org/
- info@californiaCORE.org



Comments and Questions



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Fiscal Year (FY) 2024-25 Long-Term Heavy-Duty Investment Strategy

Agenda

- 1. Introductions, Background, and Purpose
- 2. Heavy-Duty Investment Strategy Overview
- 3. Programmatic Metrics
- 4. Three-Year Investment Priorities



Long-Term Heavy-Duty Investment Strategy

Annual three-year investment strategy for Clean Transportation Incentives

Roadmap for accelerating technology and market development

Outlines priorities for investment

Focus on equity and small businesses

Includes annual report on the State's school bus fleet

CARB Incentive Programs and Regulations

- CARB's portfolio of investments support clean technologies from pre-commercial demonstrations through market scaling and assistance for small fleets
- The Long-Term Heavy-Duty Investment Strategy is specific to Low Carbon Transportation Investments (LCT) and the Air Quality Improvement Program (AQIP)
- Strategic investments work hand-in-hand with CARB's regulatory framework
 - Help prepare markets for regulation, prioritize equity, and support small businesses



Metrics of Success 2024

Supporting Healthy Communities

Supporting Technology Evolution

Growing the Green Economy

57
PERCENT

SMALL AND PUBLIC FLEET SUPPORT

Fifty-seven percent of 2021-2024 HVIP vouchers were given to public or small fleets (private entities with <\$10 million annual revenue or fewer than 50 employees).

84
PERCENT

FUTURE ZEV PURCHASES

Eighty-four percent of HVIP voucher recipients surveyed plan to purchase additional medium- and heavy-duty zero-emissions vehicles within the next five years.

447
MODELS

MANUFACTURERS

There are 114 HVIP- and/or COREeligible manufacturers offering 447 vehicle or equipment models.





353 MILLION

DAC MILES TRAVELED

HVIP-funded vehicles have traveled approximately 353 million miles in DACs, as identified in CalEnviroScreen.

123 MODELS

CORE NEW TECHNOLOGY

Since July 2023, 123 new off-road equipment models or model-year updates have been added to CORE's catalog.



\$4.4
BILLION

TOTAL INVESTMENT

Additional public and private spending toward these purchases totaled \$4.4 billion--over \$3 for every \$1 of voucher investment. Leveraged private spending represents purchases redirected from traditional technologies to clean technologies.



FY 2024-25 Heavy-Duty Investment Priorities

	FY 2025-26	FY 2026-27	FY 2027-28
Demos and Pilots	\$290-\$450 Million	\$325-\$515 Million	\$360-\$480 Million
	ZE Line-Haul Rail, AT Aviation, AT Ocean- Going, ZE/Hybrid Marine, ZE Ag/Construction/Mining/Heavier CHE, Emergency and Heavy Specialty Equipment, Hydrogen and Off-Road ZE Ecosystems, Green Zones	ZE Line-Haul Rail, ZE Light Aviation, AT Heavy Aviation, AT Ocean-Going, ZE Marine, ZE Ag and Heavier Construction/Mining/CHE, Emergency and Heavy Specialty Equipment, Hydrogen and Off-Road ZE Ecosystems, Green Zones	ZE Line-Haul Rail, ZE Light Aviation, AT Heavy Aviation, AT Ocean-Going, ZE Marine, ZE Heavy Ag/Construction, ZE Extra-Specialty, Hydrogen and Off-Road ZE Ecosystems, Green Zones
Market Acceleration	\$560-\$610 Million	\$450-\$545 Million	\$530-\$830 Million
	ZE Construction and Heavier CHE, ZE Switcher Rail, ZE/Hybrid Marine, Heavy/Specialty ePTOs, ZE Long Haul Trucks, Temp. Fueling	ZE Construction/Mining and Heavier CHE, ZE Switcher Rail, ZE/Hybrid Marine, Heavy/Specialty ePTOs, ZE Long Haul Trucks, Temp. Fueling	ZE Ag and Heavier Construction/ Mining/CHE, ZE/Hybrid Marine, Emergency and Heavy Specialty Equipment
Market Equity	\$640-\$660 Million	\$620-\$655 Million	\$260-\$320 Million
	ZE Drayage/Small Fleets, ZE Forklifts, ZE School/Transit, Financing and Insurance Assistance, Secondary Market Support	ZE Drayage/Small Fleets, ZE Forklifts, ZE School/Transit, Financing and Insurance Assistance, Secondary Market Support	ZE Long Haul Trucks, ZE Drayage/Small Fleets, ZE Forklifts, ZE School/Transit, Secondary Market Support, ZE Switcher
Total Funding	\$1,490-\$1,720 Million *	\$1,395-\$1,715 Million *	\$1,150-\$1,630 Million *



Heavy-Duty Investment Strategy Contacts

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Comments and Questions



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Wrap-Up and Next Steps



Moving Forward

Meeting/Item	Date
Proposed Funding Plan web-posted for 30-day public comment	October 11, 2024
Evening Community Meeting	October 15, 2024
Evening Community Meeting	No November Meeting
CARB Board Hearing on the Proposed Funding Plan	November 21, 2024
Evening Community Meeting	December 17, 2024



Contact Us

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