

### Heavy-Duty Vehicle and Equipment Policy Workgroup

August 6, 2024

# Agenda

Time	Topic Session
1:30- 1:45pm	Meeting Overview
1:45 – 2:30pm	Clean Truck and Bus Voucher Incentive Project (HVIP)
2:30 - 2:45pm	Innovative Small E-Fleet Pilot Project (ISEF)
2:45 - 3:00pm	Zero-Emission Truck Loan Pilot Project
3:00 - 3:45pm	Clean Off-Road Equipment Voucher Incentive Project (CORE)
3:45 - 4:30pm	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

+ CALIFORNIA HUP



Status:					
\$165 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	Explore issuance of vehicle Vouchers to fleets			

# **Contact Information**

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# **Innovative Small E-Fleet Pilot Project (ISEF)**



### Proposal: Used Truck Voucher ISEF Pilot

- What: The goal is to collect data, support residual values, and spur a secondary vehicle market.
- **Why**: A used vehicle voucher program will provide another innovative solution to small fleets in making the switch to a zero-emission vehicle.
- **How**: Seller would submit a request to CARB voucher amounts to be determined.



# Comments



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



Please state your name and affiliation before asking a question or making a comment



# **Contact Us**

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# **Zero-Emission Truck Loan Pilot Project**



# **Zero-Emission Truck Loan Pilot**

- Uses a loan loss reserve system
- Eligibility:
  - On-road ZEVs class 2b & up
  - Fleets up to 20
  - Contribution rate is set at 25%
- Administrator: California Pollution Control Financing Authority
- Partners: CA Energy Commission & Southern California Edison

	Status:							
	Opened May 1, 2024	\$5 mi from F Year 20	Fiscal	\$4 million from legacy project				
Staff Proposals:								
	\$5 million allocation for Fiscal Year 2024-25			olicy changes commended				



# Comments

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



Please state your name and affiliation before asking a question or making a comment



# **Contact Us**

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# Clean Off-Road Equipment Voucher Incentive Project (CORE)



#### First Come, First Served

# \* CALIFORNIA \* CORRE

Clean Off-Road Equipment

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 Project

### **Staff Proposals:**

Proposing \$14.97 million Air Quality Improvement Program

Increase voucher amounts for forklifts >36,001 lbs. lift capacity

Graduate terminal tractors

Funding focused solely on small businesses

Streamline equipment eligibility





# **Contact Information**

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

# Overview

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



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**

### Creating Healthy Communities

### Supporting Technology Evolution

### Growing the Green Economy



#### 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.



#### CORE NEW TECHNOLOGY

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

catalog.





#### 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
	\$290-\$450 Million	\$325-\$515 Million	\$360-\$480 Million
Demos and Pilots	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
	\$560-\$610 Million	\$450-\$545 Million	\$530-\$830 Million
Market Acceleration	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
	\$640-\$660 Million	\$620-\$655 Million	\$260-\$320 Million
Market Equity	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 *



# **Next Steps**

- <u>Draft Funding Plan</u> expected Aug. 19
- <u>Final Funding Plan Workshop</u> on Aug. 29
- Final Proposed Funding Plan and Heavy-Duty Investment Strategy posted in October
- Board consideration likely in November



# **Heavy-Duty Investment Strategy Contacts**

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