



## **Clean Transportation Incentives**

For Low Carbon Transportation Investments and the Air Quality Improvement Program

Public Workshop on the Fiscal Year 2023-24 Funding Plan August 31, 2023

## Today's Agenda

Time*	Session
10:00 a.m 10:30 a.m.	Introduction and Overview of Draft Funding Allocations
10:30 a.m 12:30 p.m.	Clean Transportation Equity and Light-Duty Projects
12:30 p.m. – 1:30 p.m.	Lunch Break
1:30 p.m 2:00 p.m.	Long-Term Heavy-Duty Investment Strategy
2:00 p.m 2:50 p.m.	Heavy-Duty Vehicle and Off-Road Equipment Investments
2:50 p.m 3:00 p.m.	Next Steps





## **Funding Plan Development Schedule**

Milestone	Date
Daytime Themed Work Group Meetings	July - Oct 2023
Evening Community Meetings	June - Oct 2023
Release Draft Funding Plan	August 21, 2023
Final Workshop	August 31, 2023
Release Proposed Funding Plan	October 6, 2023
Board Consideration of Proposed Funding Plan	November 2023
Start implementing projects	December 2023



## Introduction and Overview of Draft Funding Allocations



# Key Priorities for Fiscal Year 2023-24 Funding Plan



Support the State's climate change, air quality, zero-emission vehicle (ZEV) deployment, and petroleum reduction goals

Accelerate the transition to zero-emission (ZE)





Support priority populations by implementing community-driven clean transportation solutions and equitable investments

Support economic recovery and job training and apprenticeship opportunities





Build on successes of previous investments and incorporate lessons learned



# **CARB Incentive Programs**

#### **Community Air Protection Program (AB 617)**

Criteria, toxics and GHG reductions for community goals

#### Air Quality Improvement Program (AQIP)

Criteria pollutant and toxics reductions

#### **Carl Moyer Program**

Cost-effective, State Implementation Plan creditable criteria pollutant emission reductions



#### **Volkswagen Mitigation Trust**

Oxides of Nitrogen (NOx) mitigation and ZE



#### Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program

Criteria, toxics and GHG reductions for the ag sector

## (\$)

#### **Low Carbon Transportation**

Advance technologies to provide GHG reductions and Priority Populations benefits



#### **Woodsmoke Reduction Program**

Reduces particulate reductions from home heating devices

#### Fluorinated Gases (F-Gas) Reduction Incentive Program

Reduces high global warming potential F-Gas emissions



## **Budget Update**

- The 2023 state budget builds upon the past two budgets, for a proposed total investment of approximately \$10.1B through fiscal year (FY) 2026-27
- CARB's portion of the state's multi-year investment, includes:
  - \$140M appropriated for CARB's clean transportation equity programs established under Senate Bill (SB) 1275
  - \$483.6M appropriated for heavy-duty ZE trucks, public school buses, fleets, and off-road equipment.
- Funding sources include the Greenhouse Gas Reduction Fund (GGRF), the State's General Fund, and the Air Quality Improvement Fund (AQIF)



## Clean Transportation Incentives Proposed Allocations (millions)

Project Category	GGRF	General Fund	AQIF
Clean Transportation Equity Programs	-	-	-
Established under SB 1275			
Vehicle Purchase Incentive Equity Programs	\$30	\$50	-
Sustainable Transportation and Mobility Equity	\$60	-	-
Programs			
Heavy-Duty ZE	-	-	-
Drayage Trucks	\$80	-	-
Public School Buses	-	\$375	-
Air Quality Improvement Program	-	-	\$28.64
Funding Plan Total	\$170	\$425	\$28.64
-	-	<b>Total Budget</b>	\$623.64



## Funding Plan Development Next Steps

- Consider feedback from today's workshop
- Continue one-on-one meetings and follow-up with stakeholders
- Release proposed Funding Plan for public comment October 6, 2023
- Board considers Funding Plan at public meeting on November 16-17, 2023



#### **Comments and Questions**



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.



# Clean Transportation Equity and Light-Duty Vehicle Investments



#### **Overview**

#### **Light-Duty Vehicle Investments**

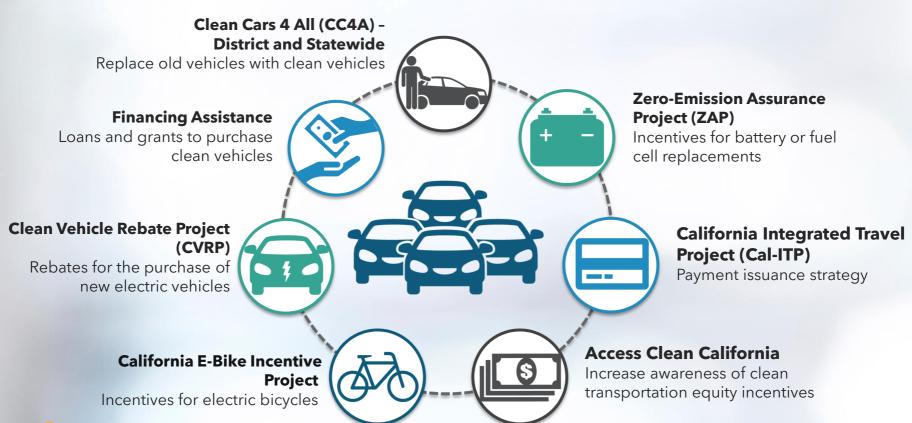
- Vehicle purchase incentives
- Clean mobility investments

#### Goals

- Achieve GHG reductions and improve air quality
- Support long-term transformation of the State's fleet and accelerate ZEV deployment
- Bring ZEVs and Clean Mobility Options to priority populations
- Support complementary community protection efforts such as AB 617 and SB 375



#### **Vehicle Purchase Incentives**





## Statewide Vehicle Purchase Incentives Draft Project Allocations (millions)

Project		GGRF	GF	Total
CC4A		\$15	\$13	\$28
Financing Assistance		\$15	\$13	\$28
California E-Bike Incentive Project		-	\$18	\$18
Access Clean California		-	\$5	\$5
Cal-ITP		-	\$1	\$1
	Total	\$30	\$50	\$80



Draft Allocation: \$28M for CC4A per the Budget Act of 2023

Project	To D	ate Remai	ning Total
District Programs	\$311	\$132	\$325
Statewide Program	\$125	\$125	\$139
	Total \$43	6 \$257	\$464











- Proposed Changes to Program Criteria:
  - Providing funding for adaptive equipment to reduce barriers for drivers with disabilities as required by the Budget Act of 2022
  - Considering eligibility for Zero-Emission Motorcycles (ZEM) as CVRP phases out
    - Staff is currently seeking feedback on appropriate funding amounts
- Launching the new joint program with Financing Assistance by the end of 2023











- Draft Allocation: \$28M
- Proposed Changes to Program Criteria:
  - Providing funding for adaptive equipment to reduce barriers for drivers with disabilities as required by the Budget Act of 2022
  - Considering eligibility for ZEMs as CVRP phases out
    - Staff is currently seeking feedback on appropriate funding amounts
- Launching the new joint program with statewide CC4A by the end of 2023







- Draft Allocation: \$18M
- No changes to program criteria
- Statewide launch in Fall 2023
- Launch will include:
  - Incorporating lessons learned from the soft launch
  - E-bike retailer outreach and on-boarding
  - Expanding applicant outreach with the assistance of community-based organizations



- Draft Allocation: \$5M
- No changes to program criteria
- Continue implementing and improving:
  - Expand outreach partner network
  - Complement Statewide Financing Assistance and CC4A
  - Streamline access to incentives
- Release solicitation by January 2024



- Draft Allocation: \$1M
- No changes to program criteria
- Continued investment into work being done under the contract with FY 2022-23 funds
- Exploring areas such as:
  - Universal payment for transportation, including electric vehicle charging
  - Streamlined income verification for incentive programs
  - Alternative distribution methods for incentives (e.g., Providing rewards for using clean transportation or mobility options)



#### **Comments and Questions**



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## 5-minute Break



#### Sustainable Community-Based Transportation Equity Projects

#### Clean Mobility Options Voucher Pilot Program (CMO)

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

#### Sustainable Transportation Equity Project (STEP)

Multifaceted clean transportation and supporting projects to address community transportation needs and reduce VMT



#### Regional Clean Mobility Options Projects

Early pilots to provide shared mobility services across the state



#### **Clean Mobility in Schools (CMIS)**

Supports clean transportation needs of K-12 public school districts



#### Planning and Capacity-Building (Planning)

Community-led planning and capacity building projects and dedicated, localized technical assistance and outreach



- Streamline access to funds
  - Continue two-phased application approach
  - Combine application, timeline, and grant process for all four project categories (CMO, CMIS, STEP, and Planning)
  - Maintain project category goals/priorities
  - CARB will oversee application and selection process
- Streamline administration of project funding
  - Planning Administrator (selecting using FY 2022-23 funds)
  - Mobility Administrator (new solicitation for FY 2023-24)



## Sustainable Community-Based Transportation Equity Draft Project Allocations (millions)

Project	GGRF
Sustainable Community-Based Transportation Equity Mobility Projects  • Split evenly between CMO, CMIS, and STEP  • Mobility Administrator funding TBD	\$50
Sustainable Community-Based Transportation Equity Planning and Capacity Building Planning projects, \$7.5M Planning Administrator, \$2.5M	\$10
Total	\$60



#### **Comments and Questions**



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## Lunch Break Return at 1:30 p.m.



# **Long-Term Heavy-Duty Investment Strategy**



# Long-Term Heavy-Duty Investment Strategy

Annual three-year investment strategy for Clean Transportation Incentives

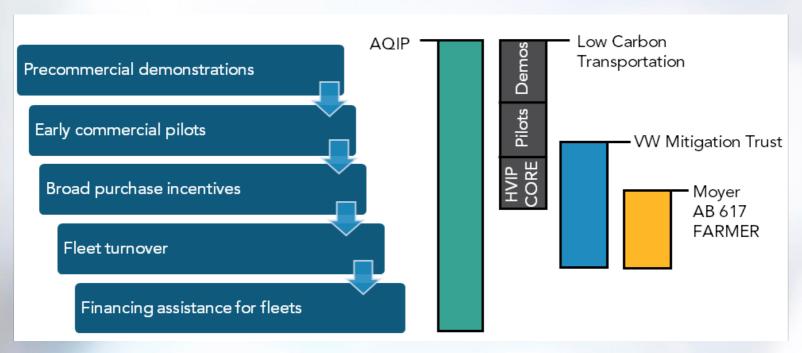
Roadmap for transforming the heavy-duty transportation sector

Outlines priorities for investment

Focus on equity and small businesses

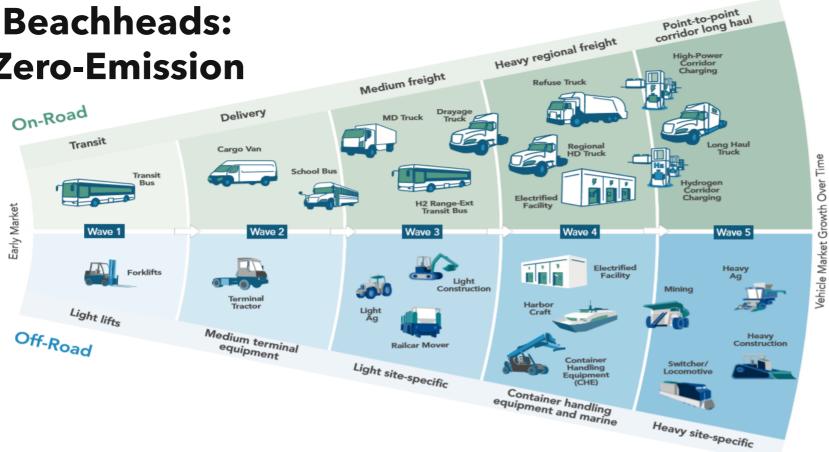
Includes annual report on the State's school bus fleet

## Heavy-Duty Technology Progression Through CARB Incentive Programs





**Beachheads: Zero-Emission** 





#### **Metrics of Success**

## Supporting Healthy Communities

#### Supporting Technology Evolution

Growing the Green Economy

58 PERCENT

#### **DAC VOUCHERS**

Fifty-eight percent of vouchers (HVIP and CORE combined) have funded vehicles and equipment deployed in DACs, as identified in CalEnviroScreen.

399 MILLION

#### **MILES TRAVELED**

There were 399,110,203 cleaner-thandiesel miles traveled in California by HVIP-funded vehicles between 2010 and 2023. 509 MODELS

#### **MANUFACTURERS**

There are 88 HVIP- and/or COREeligible manufacturers offering 509 vehicle or equipment models.





198 MILLION

#### DAC MILES TRAVELED

HVIP-funded vehicles have traveled approximately 198 million miles in DACs, as identified in CalEnviroScreen.

895+
THOUSAND

#### **FOUIPMENT RUNTIME**

CORE-funded zero-emission off-road equipment has been used for 895,954 hours in California between 2020 and 2023.

\$3.4

#### TOTAL INVESTMENT

Additional public and private spending toward these purchases totaled \$3.4 billion--over \$3 for every \$1 of voucher investment. Leveraged private spending represents purchases redirected from traditional technologies to clean technologies.



## **Heavy-Duty Investment Priorities**

	FY 2024-25	FY 2025-26	FY 2026-27
	\$55-\$95 Million	\$65-\$100 Million	TBD
Demos	Focus: ZE Construction and Mining Equipment, ZE Heavier Cargo Handling Equipment, ZE Line-Haul Rail, ZE Marine, ZE Aviation	Focus: ZE Construction and Mining Equipment, ZE Heavier Cargo Handling Equipment, ZE Line-Haul Rail, Emergency and Heavy Specialty Equipment, ZE Aviation	Focus: ZE Line-Haul Rail, Emergency and Heavy Specialty Equipment, ZE Heavy Aviation
	\$200-\$325 Million	\$225-\$350 Million	TBD
Pilots	Focus: ZE Ag-Construction-Heavier Cargo Handling Equipment, ZE/Hybrid Marine, Strategic Range Extenders, ZE Facilities/ Communities/Corridors	Focus: ZE Longer Range Trucking, ZE Ag- Construction-Mining-Heavier Cargo Handling Equipment, ZE/Hybrid Marine, Strategic Range Extenders, ZE Facilities/ Communities/Corridors	Focus: ZE Longer Range Trucking, ZE Ag- Construction-Heavier Cargo Handling Equipment, ZE/Hybrid Marine, ZE Facilities/Communities/Corridors, ZE Light Aviation
	1,210-\$1,815 Million	\$1,460-\$2,170 Million	TBD
Commercial	Focus: ZE Drayage, ZE Long Haul Trucks, ZE School/Transit, ZE Heavier Cargo Handling Equipment, ZE Switcher Rail, ZE/Hybrid Marine, Financing & Insurance Assistance, ePTOs	Focus: ZE Drayage, ZE Long Haul Trucks, ZE School/Transit, ZE Heavier Cargo Handling Equipment, ZE Switcher Rail, ZE/Hybrid Marine, Financing & Insurance Assistance, Heavy/Specialty ePTOs	Focus: ZE Drayage, ZE Long Haul Trucks, ZE School/Transit, ZE Construction and Mining Equipment, ZE Switcher Rail, ZE/Hybrid Marine, Financing & Insurance Assistance, Heavy/Specialty ePTOs
Total Funding	\$1,465-\$2,235 Million*	\$1,750-\$2,620 Million*	TBD



#### **Comments and Questions**



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# On-Road Heavy-Duty Vehicle and Off-Road Equipment Investments



# Draft Heavy-Duty and Off-Road Equipment Allocations (millions)

Project Category	Allocation
Drayage Trucks - Clean Truck and Bus Vouchers (HVIP)	\$80
Public School Bus - HVIP	\$375
Innovative Small E-Fleets Pilot	\$14.3
Clean Off-Road Equipment Voucher Incentive Project (CORE)	\$14.3
Total	\$483.6



# FY 2023-24 Goals for Heavy-Duty On-Road and Off-Road Investments

- CARB continues to build on efforts to ensure investments are equitably distributed.
- Strategically focus funds on priority communities.
- Focus on reducing barriers for small fleets.
- Collaboration with other State agencies and community partners



# Clean Truck and Bus Voucher Incentive Project (HVIP)





# **Draft Recommendations**

- Draft allocation: \$80M for zero-emission drayage
- Potential delay of fleet size limitations
- Small fleet support
- Potential voucher amount modifications
- Manufacturer performance review



# **Potential Delay of Fleet Size Limits**

- Approved by Board in <u>FY 2022-23 Funding Plan</u> to promote more equitable investments
  - Only fleets with 50 or fewer trucks or buses will be eligible for HVIP
- Propose extending to January 1, 2025
  - Maintain exemptions for public agencies, California Native American Tribal Governments, non-profits.
  - Maintain other mechanisms to ensure fund availability for small fleets



# **Small Fleet Support**

- FY 2022/2023: Move \$50 million from HVIP Standard to Innovative Small E-Fleets (ISEF)
- FY 2023/24:
  - Align HVIP small-fleet definition and incentives with ISEF
    - ≤20 vehicles and <\$15 million annual revenue</p>
    - Applies elsewhere in HVIP (e.g., stacking, disadvantaged communities voucher enhancement)
    - +100% base voucher modifier
  - Move all standard purchases from ISEF to HVIP Standard



#### **Potential Voucher Amount Modifications**

- Preliminarily considering the following adjustments to voucher amounts:
  - Extending 25% early adopter bonus for ZE Class 8
     Drayage Trucks through 2024
  - Extending 25% early adopter bonus for ZE refuse trucks through 2024



### **Manufacturer Performance Review**

- Remove manufacturer rolling soft cap
- Institute ad hoc review to implement controls
  - o Reduces administrative burden, increases selectiveness
- Potential metrics to begin specific review:
  - Share of vouchers by model with extension requests
  - Average redemption time
- Potential consequences:
  - Conference with manufacturer
  - Hold new requests for affected model
  - Case-by-case for hold-till date or limited resumption



# Other HVIP Policy Changes Under Consideration

- Supplement other clean mobility projects
  - Use HVIP to cover eligible vehicle costs in those projects to stretch resources
- Increase annual voucher request limit for public transits and refuse fleets
- Focus first year of Local Educational Agency School Bus Replacement Grants on ZE buses only
- Explore mechanisms for additional small fleet assistance
  - o Borrowing costs, residual value, insurance



#### **Innovative Small e-Fleet**

HVIP set aside established to inform policies and provide increased funding for small fleets (≤20 vehicles) to access ZE technologies.

Encourages fleets to explore all-inclusive leases, rentals, peer-to-peer truck sharing, truck-as-a-service, straight purchases and other mechanisms

FY 2022-23 funding opened for new voucher requests on August 30, 2023



### **Draft Recommendations**

- Draft allocation: \$14.32M
- Focus solely on exploration of innovative solutions for small fleets
- Expand eligible vehicles to include buses, such as those used at daycares, retirements homes, etc.



# **Clean Off-Road Equipment Vouchers**





#### **CORE Overview**

First come - First served

Offset higher ZE cost

CARB determines funding amounts

Stacking allowed and no scrappage required

Enhancements for infrastructure, small business, and DAC



#### CORE

### **Draft Recommendations**

- Draft allocation: \$14.3M
- Small businesses only
- Update voucher pricing
- Overhaul equipment eligibility
- Review 3-year warranty and telematics requirements



# **Ongoing Projects**

- The Following Projects are Ongoing but not Receiving Funding this Year
  - Advanced Technology Demonstration and Pilot Projects
  - o Zero-Emission Truck Loan Pilot Project



#### **Comments and Questions**



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# **Summary and Next Steps**



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#### **Contact Us**

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