

Today's Agenda

Time	Session
10 am – 10:30 am	Introduction and Overview of Project Category Funding Allocations
10:30 am - Noon	Vehicle Purchasing Incentives and Clean Mobility Investments: CVRP & Clean Transportation Equity Projects
Noon – 1pm	Lunch Break
1 pm – 2:30 pm	Heavy-Duty Vehicle and Off-Road Equipment Investments



Session 1:

Introduction and Overview of Funding Allocations



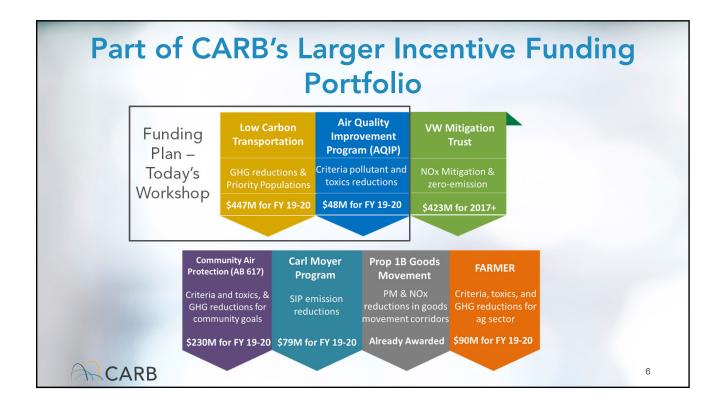
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Funding Plan Development Progress

- ✓ Kickoff workshop in March
- √ 12 work group meetings January June
- ✓ Discussion Draft Funding Plan released June 7
- Today's workshop
- Additional work group meetings June August
- Release proposed Funding Plan for 30-day public comment period – by September 18
- Board considers Funding Plan October 24-25



\$495 N	\$495 Million from Two Separate Sources in Funding Plan			
\$447 million	Low Carbon Transportation Program funded with Cap-and-Trade Auction Proceeds			
\$48 million	Air Quality Improvement Program (AQIP)			
CARB	5			



A Closer Look at Each Funding Source Covered in the Plan



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Proposed Low Carbon Transportation Budget

Vehicle Purchasing Incentives and Clean Mobility Investments

- \$175 million for CVRP
 - Continues income limits set by Legislature
- \$25 million for increased CVRP rebates for lowincome applicants
- \$65 million for transportation equity projects
 - For EFMP Plus-up, financing assistance, clean mobility options, school bus replacement, etc.



Proposed Low Carbon Transportation Budget Cop and Trade Cop and

Heavy-Duty Vehicles and Off-Road Equipment

- \$182 million for heavy-duty vehicles and off-road equipment
- Continue funding Clean Truck and Bus Vouchers
- Consider funding heavy-duty demonstration and pilot projects



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AQIP

- \$48 million for projects focused on criteria pollutant and toxic emission reductions
 - Staff proposes allocating full amount to truck loan assistance program
- Focus on projects that don't fit under Low Carbon Transportation



Key Priorities for FY 2019-20 Funding Plan

- Support the State's climate change, air quality, ZEV deployment, and petroleum reduction goals
- Accelerate the transition to advanced technology low carbon freight and passenger transportation
- Increase access to and awareness of clean transportation for priority populations
- Coordinating investments with Sustainable Communities Strategies



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AB 1550 Disadvantaged Community and Low-Income Investment Targets

- Staff recommends 50 percent of Low Carbon Transportation funds meet AB 1550 criteria
 - ≥30 percent in disadvantaged communities
 - ≥15 percent in low-income communities or for low-income households
 - ≥5 percent in low-income communities or for low-income households within half a mile of a disadvantaged community
- Staff considers targets as a floor and strives to exceed



Investments	Support	Multiple	Policy	Goals
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Scoping Plan	Short-Lived Clima Pollutants	Ozone & PM SIPs	Sustainable Freigl	Air Toxics	Petroleum Reduct	Disadvantaged/Lo Income Communi	SB 375 Sustainable Communities
✓	✓	✓		✓	✓	✓	
✓	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark
√	√	✓	✓	✓	✓	✓	✓
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Next Steps

- Request comments by July 12
- Additional work group meetings
- Post proposed Funding Plan for 30 day public comment by September 18
- Board considers Funding Plan at public meeting in Sacramento on October 24-25

Webcast email address: coastalrm@calepa.ca.gov



Session 2:

Light-Duty ZEV Market and Clean Transportation Equity Projects



Goals

- CARB light-duty vehicle investments
 - Vehicle purchasing incentives
 - Clean mobility investments
- Support long term transformation of the State's fleet and accelerate ZEV deployment
- Bring zero-emission options to disadvantaged and lower-income communities and low-income households
- Support complementary efforts (AB 617, SB 375)



Draft Recommended Project Allocations

Project Category	Allocation (millions)
Vehicle Purchasing Incentives - CVRP	\$200
Clean Vehicle Rebate Project Standard Rebates Rebates for Lower Income Consumers	\$175 \$25
Vehicle Purchasing Incentives - Clean Transportation Equity Projects	\$10 of \$65
Clean Mobility Options – Clean Transportation Equity Projects	\$50 of \$65
Outreach, Community Needs Assessments, Technical Assistance, and One-Stop-Shop	\$5 of \$65
Total	\$265



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Program Alignment

- Streamline access to clean transportation and mobility options
 - Incentive amounts
 - Income verification
 - Other program requirements



Summary of Long-Term Plans

Light-Duty ZEV Market and Clean Transportation Equity Projects



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Long-Term Plan for ZEV Market

- CVRP demand forecast & ZEV market growth rate
 - Three-year projections
 - 2030 forecasting per budget language
- Market and tech assessment
- Market sustainability
 - Research still indicates 16% new car sales as reasonable sustainability target
- Latest research and data analysis



Primary Indicator: Continuous Evaluation of ZEV Market Growth

- California ZEV market share reached 7.8% in 2018
- 40 PEV models available in California
- All-electric vehicle range increased by 56%
- Continuous reduction in battery pack production cost
- Secondary ZEV market emerging and growth is expected
- General ZEV awareness is increasing
- Global market emergence: 5% global vehicle sales in 2023



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Long-Term Plan for Transportation Equity

- Transition from pilot phase and apply lessons learned
- Identify pathways to sustainability for Clean Mobility Options projects
- Refine metrics for success and coordinate with academic research
- Continued coordination across projects at state and local levels
- Develop three-year projections



Vehicle Purchasing Incentives

- CVRP
- Clean Cars 4 All
- Financing Assistance



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CVRP Project Update

- 308,000 rebates issued since 2010
 - 295,000 Standard Rebates
 - 12,000 Increased Rebates for low-income consumers
 - 200 Increased Rebates for Fleets in Disadvantaged Communities
- 2018-19 CVRP budget
 - Standard rebate funds expended; Waitlist in effect
 - \$25 million for low-income rebates; last through Fall 2019
- Monthly application totals have doubled since July 2018
 - Now average 7,000-8,000 rebates issued a month



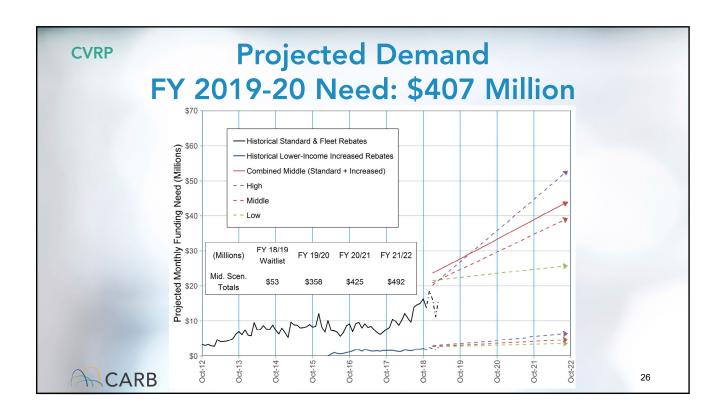


CVRP

Draft Funding Allocation

- Governor's budget \$200 million for CVRP
 - \$175 million for standard CVRP rebates
 - \$25 million for CVRP low-income rebates

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CVRP

FY 19-20 Program Changes to Consider

- Limited-time offer
- One rebate per person
- Shorter application window
- Lowered income cap
- Introduction of a base MSRP cap
- Increased minimum all-electric range requirement for PHEVs
- Reduced rebate amounts for standard rebates
 - Rebate amounts for increased rebates will not change



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Clean Cars 4 All Project Update

- \$112 million allocated to-date
 - \$42 million expended
- Over 4,700 vehicles replaced in South Coast and San Joaquin Valley air districts
- Bay Area AQMD recently launched new program
- Sac Metro AQMD expected to launch program by 2020









Clean Cars 4 All

Funding Recommendations

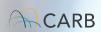
- Staff estimates total funding need of \$25 \$35 million for FY 2019-20
 - \$70 million still available from previous allocations
 - \$40 million not yet awarded in grants
- Staff proposal for FY 2019-20
 - No need for additional funding, instead reallocate \$40 million to districts based on need
 - No policy changes



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Financing Assistance Project Update

- Local project allocated \$2.9 million
- Launched December 2015 with \$0.9 million, completed December 2018
- 80 advanced technology purchased
 - High interest in PHEVs
- \$2 million in expansion funds awarded







Financing Assistance Project Update

- Statewide project allocated \$33 million to-date
- Launched in June 2018 with initial \$5 million award
 - 404 grants and strong interest in PHEVs and BEVs
 - Majority of applicants earn less than 300% of federal poverty level
 - Large volume of applications from outreach efforts
 - Closed in November 2018
- \$28 million additional allocated to cover revamped project





Financing Assistance

Challenges and Lessons Learned

- Demand for statewide program higher than anticipated
- Outreach can cause demand spikes
- Income verification is time-intensive
- Financial and vehicle education and high-touch case management is key
- Word of mouth, social media, and online referrals vital
- Must leverage existing trust networks



Financing Assistance

Funding Consideration for FY 2019-20

- Staff estimates funding need of \$10 12 million
- Considering Policy Changes
- Long term plan
 - HEV phase-out



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Clean Mobility Projects

- Clean Mobility Options
- Agricultural Worker Vanpools
- Rural School Bus
- Community Solutions for Clean Transportation Equity Pilot
- Clean Mobility in Schools



Clean Mobility Options Project Update

- Clean mobility options: car share, vanpools, shuttles, ebike share, and first mile / last mile solutions
- Over \$46 million allocated to date
- \$14.6 million to 6 regional projects
 - Over \$35 million in match funds
- \$32 million for statewide administrator



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Clean Mobility Options for DACs

Project Highlights

- Almost 500 ZEVs have been put into service
- More than 600 ebikes/scooters will be available
- Launching in over 40 communities







Clean Mobility Options for DACs

Project Highlights, cont.

- Our Community Carshare and BlueLA
 - >230,000 zero-emission miles driven
 - >1,800 participants
 - >17,000 trips
- Making positive impacts on residents





Increasing access to clean mobility options



Clean Mobility Options for DACs

Funding Consideration

- \$10 20 million
- Proposed policy changes:
 - Fund transportation needs assessments
 - Prioritize funding for existing projects
 - Allow funds specifically for mobility enhancements
 - Open grant eligibility to Low-Income Communities and Tribes



Clean Mobility in Schools Project Update

- Help schools in disadvantaged communities deploy clean transportation and mobility options
 - Introduce students, teachers, and staff to advanced clean transportation
- \$10 million allocated in FY 18-19, will be available to 1-2 grantees
- Solicitation planned to be released later in 2019



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Clean Mobility in Schools

Funding Consideration

- \$5 \$10 million for FY 19-20
- No policy changes



Agricultural Worker Vanpools Project Update

- Expands access to clean transportation vanpools for agricultural workers
- Serves workers in disadvantaged and low-income communities statewide
- \$6 million spent to-date
- 154 hybrid conversion vans in service
- Additional \$4.7 million recently awarded to expand



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Agricultural Worker Vanpools

Funding Consideration

- Staff proposes \$5 \$6 million for FY 19-20
 - Competitive solicitation with option for additional two years
- No policy changes proposed



CARB

Rural School Bus Pilot Project Update

- \$55 million allocated in past three funding years to North Coast Unified AQMD
 - All Year 1 (FY 16-17) projects under contract
 - Year 2 (FY 17-18) projects undergoing document review and contracting
 - Year 3 (FY 19-20) project review and contracting later in 2019
- High applicant demand
 - · Last solicitation received applications for \$185 million
 - Over 43 clean buses delivered and in service



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Rural School Bus Pilot Project

Funding Consideration

- \$5 \$30 million for FY 19-20
- Staff considering two policy changes
 - Require old school bus scrap for all replacements
 - Prioritize compliant buses in ranking or award amount



Community Solutions for Clean NEW Transportation Equity Pilot (CSCTEP)

- New proposed clean mobility pilot project
- Planning grants to improve understanding of communities' transportation needs
- Implementation block grants to help increase access to community mobility systems
- Eligible applicants: cities, counties, or communitybased organizations as lead applicants, representing a broader coalition of partners



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CSCTEP Planning Grants

\$2 - 2.5 million

- Measures of Success
 - Increased understanding of residents' transportation needs and prioritization of projects accordingly
 - High level of engagement with community residents



CSCTEP Implementation Block Grants

\$18 - 22.5 million

- Measures of Success
 - Reduction in Vehicle Miles Traveled and greenhouse gas emissions
 - Increase integration of transportation options
 - · Increase in clean transportation choices
 - · Increase accessibility to destinations
 - Mode shift from owning vehicles
 - Improve public health



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Senate Bill 350 and Outreach

- \$5 10 million to support implementation of SB 350 Guidance Document Recommendation
- Expand community transportation needs assessments
- Develop an outreach plan/roadmap
- Provide technical assistance
- Continue to develop One-Stop-Shop Pilot



One-Stop-Shop Pilot Project Update

- Allocated \$5 million in FY 2017-18
- Coordinate community-based outreach and education
- Develop single application for CARB's Clean Transportation Equity Projects
- Limited launch anticipated July 2019
- Statewide launch anticipated late 2019



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One-Stop-Shop Pilot Project

Challenges and Lessons Learned

- Technological barriers to program integration
- Additional resources needed for equity project administrators
- Building partnerships and trust is critical for success
- Highlight: tribal government outreach pilot project







Investment Priorities for 2019-20 Heavy-Duty and Off-Road Projects

- Support strategies in CARB's climate change and air quality plans to meet long-term goals
- Support California Sustainable Freight Action Plan
- Support Sustainable Communities Strategies
- Maximize disadvantaged community benefits and support SB 350 study
- Consistent with 3-year strategy for heavy-duty and offroad investments
- Coordinate with other funding sources



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SB 1204: Clean Truck, Bus, and Off-Road Vehicle Technology Program

- Guide Low Carbon Transportation investments
- Zero- and near zero-emission vehicle and equipment projects
- Priority for projects in disadvantaged communities
- Support evolution of technology advancement
- Requires 20% of truck funding for early commercial deployment





Update to the Three-Year Investment Strategy for Heavy-Duty Vehicles and Off-road Equipment



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Three-Year Investment Strategy for Heavy-Duty Vehicles and Off-Road Equipment

- Roadmap based on beachhead concept
- Annual updates
 - Technology status
 - Three-year funding priorities
- Major updates and new additions
 - Metrics of Success
 - Off-Road Integration
 - Infrastructure



Key Outcomes

- Off-road integration into existing beachheads
- New additions to metrics of success
- Technology statuses updated
- Infrastructure: early assessment
- Draft for comment



	FY 2020-21	FY 2021-22	FY 2022-23	
Demos	\$60-\$85 Million* Focus: ZE/PHEV HD Regional Delivery, ZE/Hybrid Ag-Construction Equipment, ZE/Hybrid Heavier Cargo Handling Equipment, ZE/Hybrid Marine	\$50-\$90 Million* Focus: ZE/PHEV Longer Range HD Goods Movement, ZE/PHEV Ag- Construction Equipment, ZE/Hybrid Heavier Cargo Handling Equipment, ZE/Hybrid Marine	\$50-\$90 Million* Focus: ZE Longer Range HD Goods Movement, ZE Construction Equipment, ZE Heavier Cargo Handling Equipment, ZE Rail, ZE/Hybrid Marine	
The vehicle and equipment types listed in the table above are a prioritized selection of the project types that CARB would invest in, given sufficient available funds. These focus areas are identified following the strategy laid out in this document and take into consideration a wide number of factors. This is not an exhaustive list of technologies or applications that Low Carbon Transportation would fund and indeed funding numbers are inclusive of a much broader set of vehicle and equipment investments CARB hopes to make. * The draft funding amounts listed here represent a critical down payment towards meeting the total funding need and the minimum investment necessary to continue technology advancement, but does not meet the entire need.				

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	FY 2020-21	FY 2021-22	FY 2022-23
Pilots	\$185-\$310 Million* Focus: ZE/PHEV Drayage and Regional Delivery, Advanced Powertrains, ZE/Hybrid Heavier Cargo Handling Equipment, ZE Facilities	\$200-\$325 Million* Focus: ZE/PHEV Drayage and Regional Delivery, Advanced Powertrains, ZE/Hybrid Ag- Construction- Heavier Cargo Handling Equipment, ZE/Hybrid Marine, ZE Facilities	\$200-\$325 Million* Focus: ZE Longer Range Goods Movement, Advanced Powertrains, ZE Ag-Construction-Heavier Cargo Handling Equipment, ZE/Hybrid Marine, ZE Facilities
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	FY 2020-21	FY 2021-22	FY 2022-23	
Commercial	\$365-\$545 Million* Focus: ZE Delivery, ZE Transit, Low NOx Linehaul Trucks, Ground Support Equipment, ZE/Hybrid Heavier Cargo Handling Equipment	\$420-\$580 Million* Focus: ZE/PHEV Drayage and Regional Delivery, ZE Delivery, ZE Transit, Low NOx Linehaul Trucks, ZE/Hybrid Heavier Cargo Handling Equipment	\$425-\$582 Million* Focus: ZE/PHEV Drayage and Regional HD Delivery, ZE Delivery, ZE Transit, Low NOx Linehaul Trucks, ZE/Hybrid Heavier Cargo Handling Equipment, ZE/Hybrid Marine	
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THREE-YEAR HEAVY-DUTY STRATEGY INVESTMENT PLAN UPDATE*			
	FY 2020-21	FY 2021-22	FY 2022-23
Demos	\$60-\$85 Million Focus: ZE/PHEV HD Regional Delivery, ZE/Hybrid Ag-Construction Equipment, ZE/Hybrid Heavier Cargo Handling Equipment, ZE/Hybrid Marine	\$50-\$90 Million Focus: ZE/PHEV Longer Range HD Goods Movement, ZE/PHEV Ag. Construction Equipment, ZE/Hybrid Heavier Cargo Handling Equipment, ZE/Hybrid Marine	\$50-\$90 Million Focus: ZE Longer Range HD Goods Movement, ZE Construction Equipment, ZE Heavier Cargo Handling Equipment, ZE Rail, ZE/Hybrid Marine
Pilots	\$185-\$310 Million Focus: ZE/PHEV Drayage and Regional Delivery, Advanced Powertrains, ZE/Hybrid Heavier Cargo Handling Equipment, ZE Facilities	\$200-\$325 Million Focus: ZE/PHEV Drayage and Regional Delivery, Advanced Powertrains, ZE/Hybrid Ag- Construction- Heavier Cargo Handling Equipment, ZE/Hybrid Marine, ZE Facilities	\$200-\$325 Million Focus: ZE Longer Range Goods Movemen Advanced Powertrains, ZE Ag-Construction Heavier Cargo Handling Equipment, ZE/Hybrid Marine, ZE Facilities
Commercial	\$365-\$545 Million Focus: ZE Delivery, ZE Transit, Low NOx Linehaul Trucks, Ground Support Equipment, ZE/Hybrid Heavier Cargo Handling Equipment	\$420-\$580 Million Focus: ZE/PHEV Drayage and Regional Delivery, ZE Delivery, ZE Transit, Low NOx Linehaul Trucks, ZE/Hybrid Heavier Cargo Handling Equipment	\$425-\$582 Million Focus: ZE/PHEV Drayage and Regional HI Delivery, ZE Delivery, ZE Transit, Low NOx Linehaul Trucks, ZE/Hybrid Heavier Cargo Handling Equipment, ZE/Hybrid Marine
Total Funding	\$610-\$940 Million*	\$670-\$995 Million*	\$675-\$997 Million*

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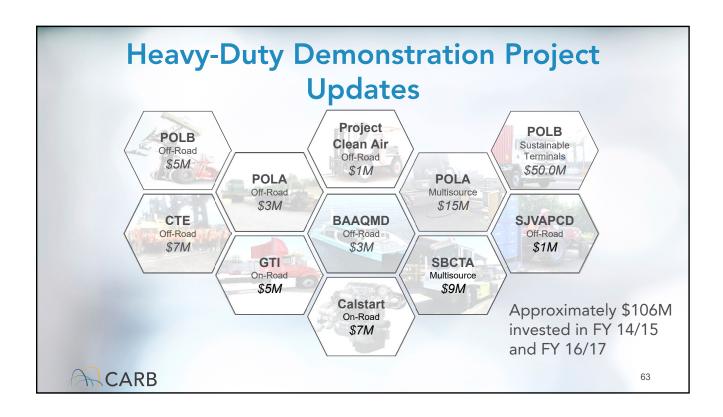
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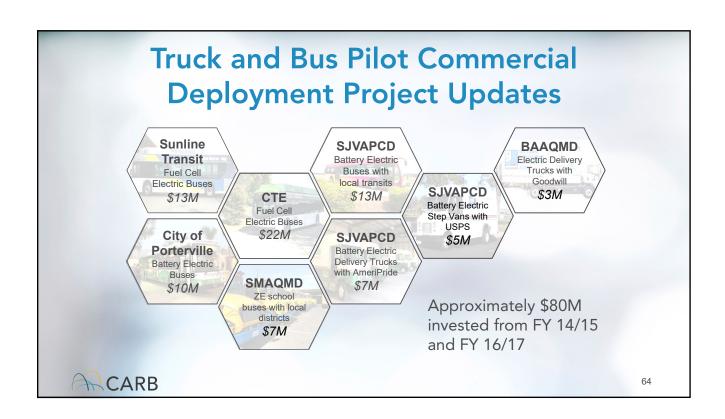
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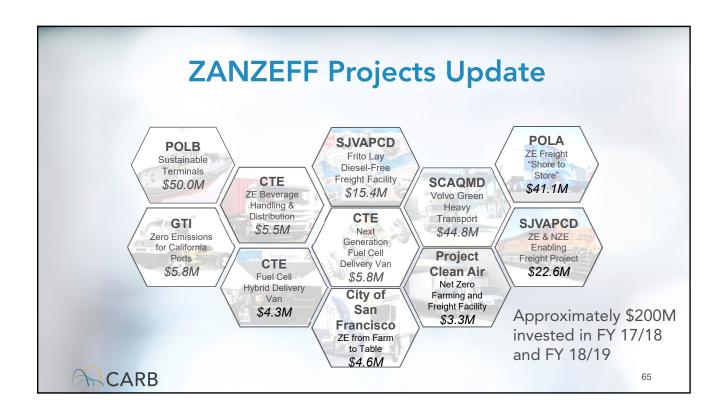
Heavy-Duty Demonstration and Pilot Projects



^{*} The draft funding amounts listed here represent a critical down payment towards meeting the total funding need and the minimum investment necessary to continue technology advancement, but does not meet the entire need.







HVIP Update 1 of 2

- \$446 million invested since 2010
- Continue to help meet SB 1204 early commercial truck deployment requirement
- Help meet AB 1550 disadvantaged community investment goals
 - 52% of HVIP funding has been in DACs
- Interactive data tool available at: <u>https://www.californiahvip.org/</u>



HVIP Update 2 of 2

Total- 7,194 vouchers

- Hybrid- 2,626 vouchers
- ZEV- 2,500 vouchers
- Low-NOx Engine- 1,873 vouchers
- ePTO- 195 vouchers
- EVSE- \$12 million





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Truck Loan Assistance Program

- About \$107 million State contribution to date
 - · Leveraged to provide about \$1.4 billion in financing
 - 23,200 trucks, exhaust retrofits and trailers
 - Additional demand generated by SB1 requirements may eventually surpass available funding



Other Heavy-Duty Projects Underway

- Clean Off-Road Equipment Voucher Incentive Project (CORE)
 - Grantee selected; expect to commence fall of 2019
- Diesel Filter Replacement Project
 - Grant executed; work group and program start summer 2019



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Draft Project Allocations: Heavy-Duty Vehicles and Off-Road Equipment

Project Category	Allocation (millions)
Clean Truck and Bus Vouchers (HVIP including Low NOx Engines)	¢400
Heavy-Duty Demonstration and Pilot Projects	\$182
Clean Off-Road Equipment (CORE)	
Truck Loan Assistance Program (AQIP)	\$48
Total (\$182M Low Carbon Transportation/\$48M AQIP)	\$230





Clean Truck and Bus Vouchers: HVIP and Low NOx Engine Incentives



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Background

- HVIP Incentives encourage and accelerate the deployment of cleaner advanced technology
- Vouchers for California fleets on a first-come, firstserved basis to lower the cost of clean trucks and buses
- Funding amounts intended to offset some or all of incremental costs
- No scrap required



HVIP Incentives Funding Consideration

- Projected demand for FY 2019-20 is \$185 280 million
- Will not meet demand even with full \$182 million allocation
- Incorporating significant changes to HVIP could reduce demand to between \$133-228 million
- Options to be discussed at July work group meeting



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Potential Changes to HVIP Project Criteria 1 of 2

- Transition out school buses and shuttle buses using the 8.9-liter low NOx engine
- Disallow stacking with other State incentive funding
- Reinstate fleet limits
- Incorporation of zero-emission powertrain certification



Potential Changes to HVIP Project Criteria 2 of 2

- Eliminate some plus-ups
- Eliminate some vehicle/technology categories
- Eliminate the infrastructure enhancement
- · Others?



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Heavy-Duty Demonstration and Pilot Projects



Background

- Demonstration Projects
 - Accelerate the introduction of advanced technologies
 - Feed the innovation pipeline
 - Help cover the costs of technology development
- Pilot Projects
 - Support larger-scale deployments
 - Seed promising next markets
 - Focus on manufacturing design, user acceptance, and support



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Draft Funding Recommendation

Heavy-Duty Demonstration and Pilot Projects

- \$30 50 million
- · Work group meeting in July to discuss this



Truck Loan Assistance Program



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Truck Loan Assistance Program Background

- Provides financing assistance to truckers subject to the In-Use Truck and Bus Regulation for purchasing newer trucks
- Helps small fleets (10 or fewer trucks)
- Incremental recapture of funds in place



CARB

Truck Loan Assistance Program Draft Funding Allocation

\$48 million from AQIP

 Funds from previous fiscal years will ensure continuous funding until FY 2019-20 funds are available

Strategies to ensure sustainability of program

- Analyze data to more accurately determine future demand expected by truck turnover requirements
- Search for funding to meet anticipated demand



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Next Steps

- Request comments by July 12
- Post proposed Funding Plan for 30 day public comment on September 18
- Board considers Funding Plan at public meeting in Sacramento on October 24-25



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Jason Crow – Lead Staff jason.crow@arb.ca.gov

Michelle Buffington – Manager michelle.buffington@arb.ca.gov

Webcast email address: coastalrm@calepa.ca.gov

