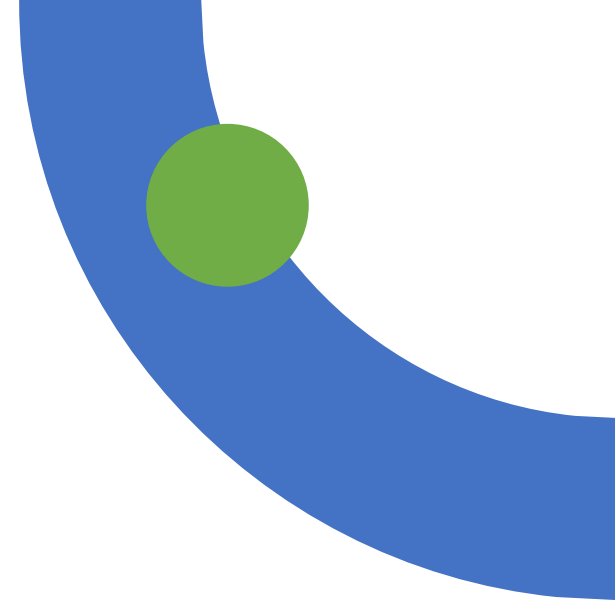


# CalCAP Zero-Emission Heavy-Duty Vehicle and Infrastructure Programs







# CPCFA



- State-level financing authority
- CPCFA Board chaired by the State Treasurer
- Administers various programs which help make private capital investment more effective in meeting state and federal goals

# CalCAP

- CalCAP umbrella: seven programs
- Multiple credit enhancement mechanisms
- Different funding sources including “independent contributor”



CALIFORNIA  
CAPITAL  
ACCESS  
PROGRAM



# Three Independent Contributors, Three Pilot Programs

- California Air Resources Board (CARB)
  - \$5M for Medium- & Heavy-Duty Zero-Emission Vehicles
- California Energy Commission (CEC)
  - \$5M for Medium- & Heavy-Duty Zero-Emission Infrastructure
- Southern California Edison (SCE)
  - \$20M for Medium- & Heavy-Duty Zero-Emission Trucks, Buses, & Infrastructure

# California Air Resources Board (CARB)



- [Zero-Emission Truck Loan Pilot Project](#)



- [CARB Representative,](#)  
Brandon Rose





# California Air Resources Board (CARB)



- [ZEV TruckStop](#)
- [ZEV TruckStop Incentives & Funding](#)

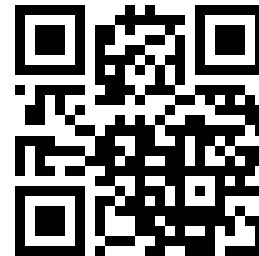
- [CARB Representative,](#)  
Arianna Corpuz





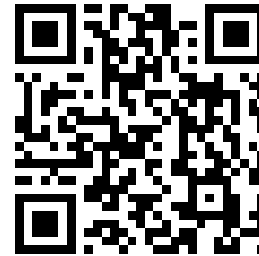
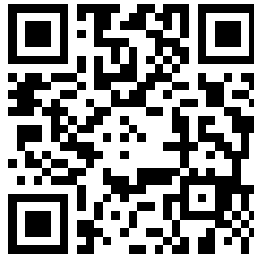
# California Energy Commission (CEC)

- [Clean Transportation Program](#)
- [CEC Representative,](#)  
Marc Perry



# Southern California Edison Company (SCE)

- [SCE Electric Vehicles for Business](#)
- [SCE Charge Ready Transport Program](#)
- [Chargereadytransport@ sce.com](mailto:Chargereadytransport@sce.com)





## Credit Enhancement Mechanism: Loan Loss Reserve

- One loan loss reserve account (LLR account) for each lender
- A percentage of each enrolled loan is contributed to the LLR account
- Qualifying defaults are reimbursed from the combined contributions in the LLR account for each lender

## — Shared Features of CalCAP ZEHD Programs

- Contribution to loan loss reserve account: 25%
- Interest rate no more than 20%
- Loans can include warranties and/or maintenance plans when purchased with vehicle or equipment (limitations apply)



# CARB/CalCAP Zero-Emission Heavy-Duty Vehicle Program

## CalCAP ZEHDV

### Vehicle requirements

- ZE powertrain
- Medium- and heavy-duty, over 8,500 lbs. GVWR
- New or used
- Maximum fleet size:  
20 heavy-duty vehicles
- Borrower may use other CARB programs

# CalCAP/CEC Zero-Emission Heavy-Duty Infrastructure Program CalCAP ZEHD

## Infrastructure requirements

- New electric charging and/or hydrogen fueling equipment
- Supports ZE medium- or heavy-duty vehicles and/or equipment

- Maximum quantity:  
20 ports and/or nozzles
- Includes equipment, labor and certain other costs



# CalCAP/SCE Zero-Emission Truck, Bus, and Infrastructure Program

## CalCAP ZETBIF

### **Borrower requirements**

- SCE customer located or operating in certain areas

### **Infrastructure requirements**

- Electric vehicle charging station equipment only

### **Vehicle requirements**

- Battery-electric powertrain
- Medium- and heavy-duty, over 8,500 lbs. GVWR
- New or used



# Notable Features

- No contributions from lender or borrower
- Post-disbursement enrollment with CalCAP enrollment application forms
- Lender follows own underwriting standards
- If lender is depository and meets credit standards, loan loss reserve will be deposited at their institution

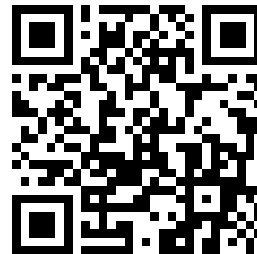


# CARB: Common Guidance for Stacking Incentives

- Fleets generally must be in compliance with all applicable regulations
- Vehicles purchased with incentives can be used to achieve emission reductions earlier than, or in excess of, regulatory requirements
- Specific guidance for each program

# CARB: HVIP

- HVIP - Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project
- Co-funding is available with other incentive programs (as allowed by the other programs)
- All program requirements must be met
  - However, some flexibility for small fleets and public agencies
- <https://californiahvip.org/>



# CARB: Carl Moyer & VIP

- VIP - On-Road Heavy-Duty Vehicles Voucher Incentive Program
- Co-funding is available with other incentive programs (as allowed by the other programs)
- All program requirements must be met, including percentage of total project costs and private cost sharing requirements
- <https://ww2.arb.ca.gov/our-work/programs/road-heavy-duty-voucher-incentive-program>



# CARB: VW Mitigation

- VW Mitigation - Volkswagen Environmental Mitigation Trust for California
- Funds can be combined with other CARB-implemented funding programs
  - However, NOx reductions can be counted for one program only (no double-counting)
- <https://ww2.arb.ca.gov/our-work/programs/volkswagen-environmental-mitigation-trust-california>





# CARB: More Incentive Programs for Medium- & Heavy-Duty ZE Vehicles

- CAP/617 - Community Air Protection program, AB 617 funding
- Other Carl Moyer Program Projects including
  - FARMER - Funding Agricultural Replacement Measures for Emission Reductions
- CORE - Clean Off-Road Equipment Vouchers
- Pilots and Demos such as
  - JETSI – Joint Scaling Initiative
  - Zanzeff Project



# CARB: Federal and Local Incentive Programs for Medium- & Heavy-Duty ZE Include

- Federal tax credits
- Programs at local Air Quality Management Districts (AQMDs)
- Port-specific programs
- Tribal-specific programs



# CARB: Incentive Programs for Medium- & Heavy-Duty ZE Infrastructure Include

- Energiize - Energy Infrastructure Incentives for Zero-Emission Commercial Vehicles
- CALeVIP - California Electric Vehicle Infrastructure Project
- Carl Moyer Program Projects including
  - Infrastructure via Air Quality Management Districts (AQMDs)
- 45W and 30C federal tax credits

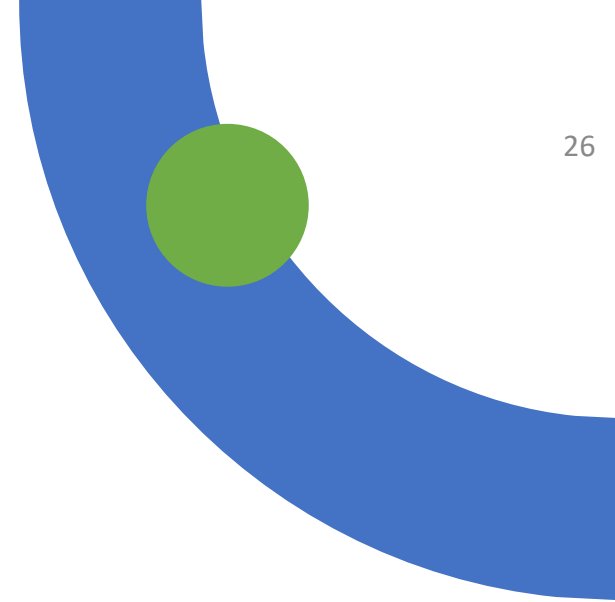


Example from CARB: Class 8 battery-electric drayage truck owned by a small fleet, located in a disadvantaged community, and operating in the Port of Oakland

<b>Program</b>	<b>Range</b>	<b>Example Amount with taxes and fees</b>
Vehicle Purchase Price	\$375-425k	\$480,000
HVIP ISEF Incentive	\$240k	-\$240,000
HVIP Drayage (25%)	\$60k	-\$60,000
DAC (15%)	\$36k	-\$36,000
Federal Tax Credit	\$40K	<u>-\$40,000</u>
After Incentives		\$104,000
Down Payment		<u>-\$20,000</u>
Loan Amount		<u>\$84,000</u>



# Timing



# Questions

- Loan Eligibility
  - CARB
  - CEC
  - SCE
- Loan Enrollment Process
  - CalCAP



# Thank you

QR code to new webpage (pending)

QR code to financial institution enrollment form



Ready to enroll: [calcap@treasurer.ca.gov](mailto:calcap@treasurer.ca.gov)

Questions: [cpcfaoutreach@treasurer.ca.gov](mailto:cpcfaoutreach@treasurer.ca.gov)