

California



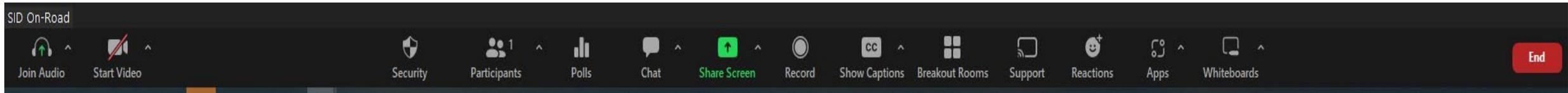
Mitigation
Trust

Statewide Zero-Emission Freight and Marine Program

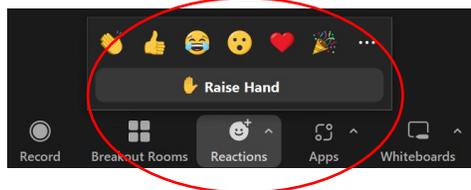


Hanna Muegge, Senior Staff Specialist
Desiree Tavera, Assistant Staff Specialist
John Del Arroz, Staff Specialist
Chengfeng Wang, PhD, Manager

Webinar Information and Logistics



- We have muted all the participants and turned off the video function.
- Send questions/comments to the “Pls send me your question - Desiree” host in the chat.
- Taking live comments and questions at the end. Please use the “raise hand” function if you would like to speak during Q & A.



- Presentation slides and the recording will be available at <https://www.californiavwtrust.org/zero-freight-marine/>
- If you have additional questions, please email CaliforniaVWTrust@baaqmd.gov .



Statewide
Zero-Emission
Freight and
Marine Program

Overview of VW Mitigation Funds for California

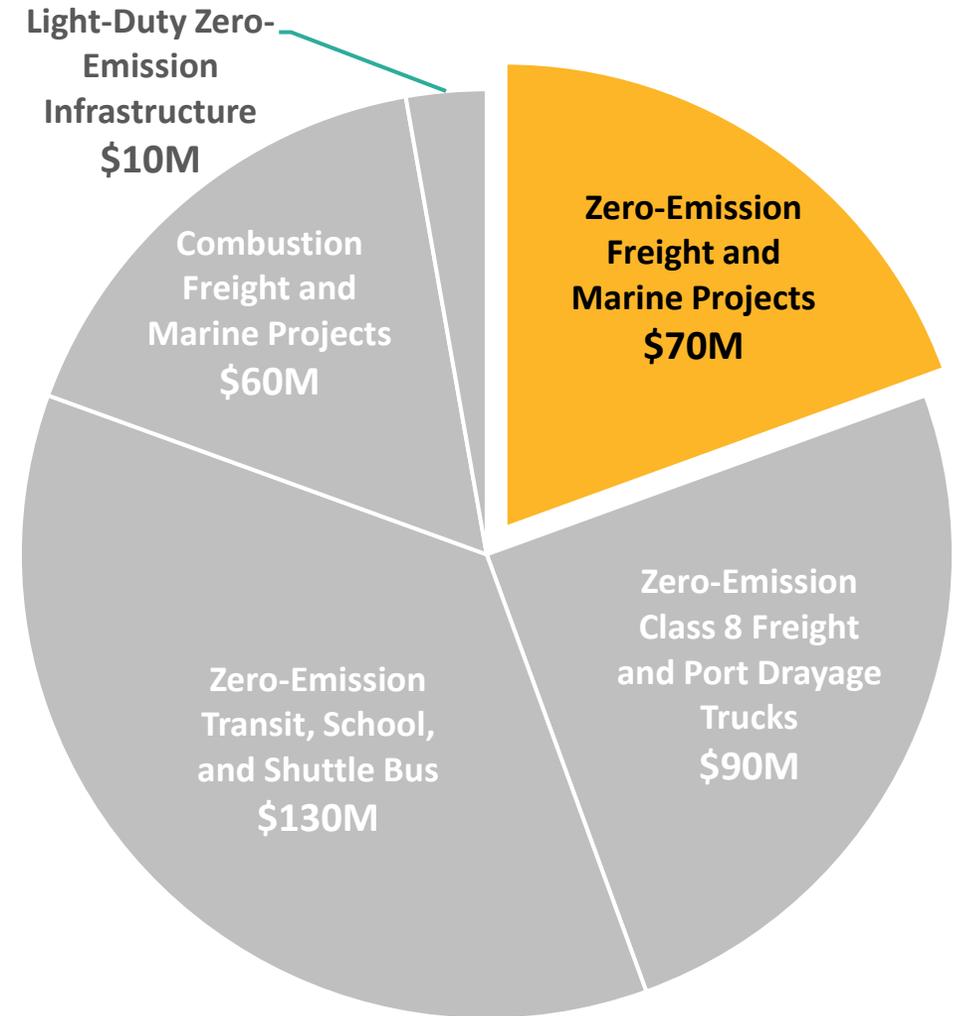
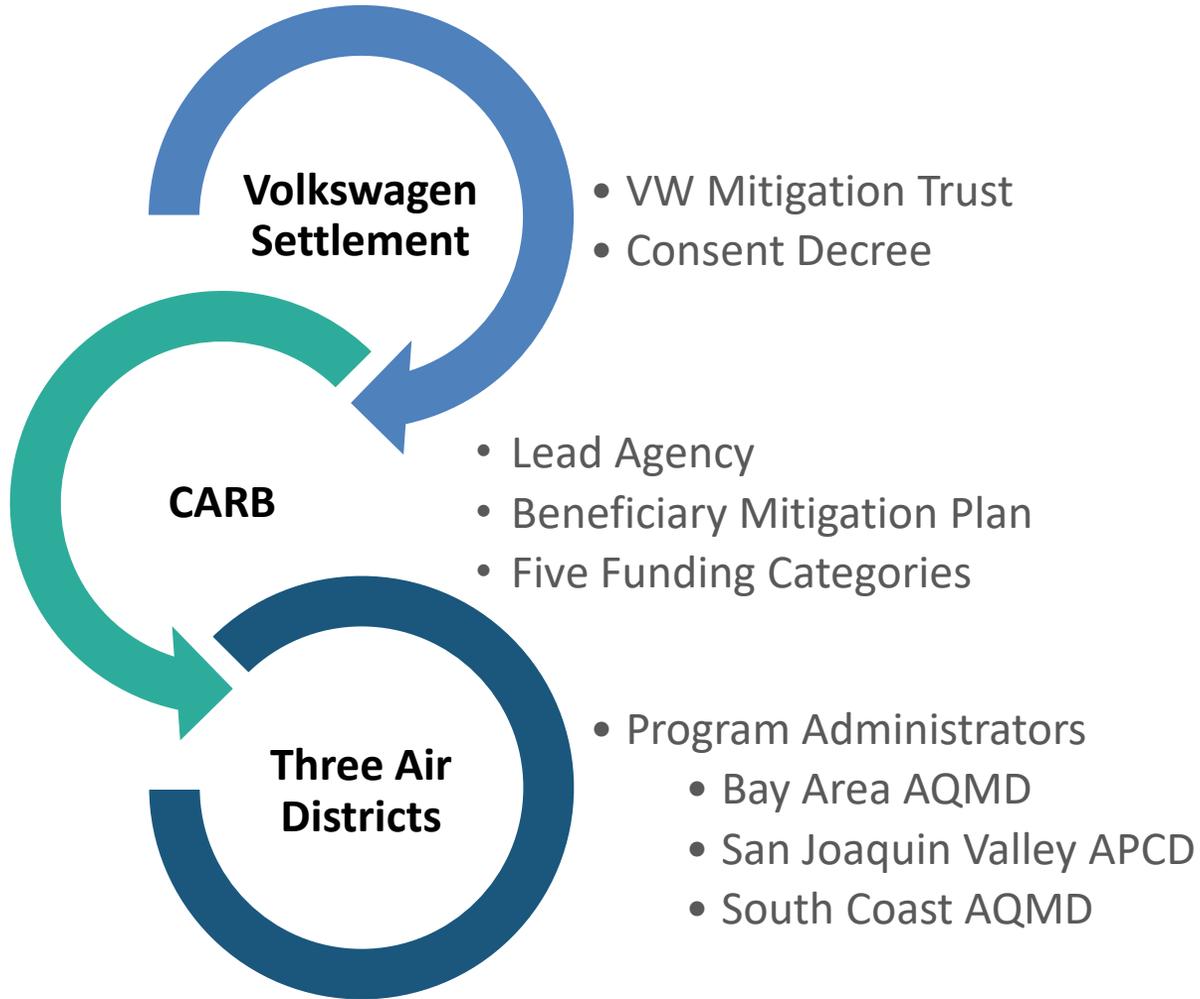
Program Highlights

Eligible Projects & Evaluation

Funding Example

How to Apply

Overview of Statewide VW Mitigation Funds



Zero-Emission Freight and Marine Program

\$70 million

Program
Funding

- Available statewide
- 2024-2025: \$25 Million Sol. 5 cycle

Program Highlights

- Three eligible project categories for this solicitation
- First-come, first served Statewide solicitation
- Reimbursement-based
- Award at higher of cost-effectiveness(CE) and baseline grant amount
- Water taxis now eligible under "ferry" definition
- Updated "port" definition to include land-based facilities (i.e. railyards, intermodal, freight corridors)
- Stacking of funding allowed

Eligible Project Categories

Scrap and Replace



HEAVY
LIFT
FORKLIFTS

ANYWHERE
IN CA



PORT CARGO
HANDLING
EQUIPMENT

PORTS / RAILYARDS
FREIGHT FACILITIES

Repower



FERRIES,
TUGBOATS, AND
TOWBOATS

CA WATERS

Max. Award Amount:

Based on Either:

1) Baseline Grant Amount

Project Type	Amount
Heavy-lift Forklift	\$210,000
Port Cargo-Handling Equipment	\$210,000
Ferry, Tug and Towboat Repowers	\$3,000,000

OR:

Cost-effectiveness (CE)

CE limit: (*\$466k per Ton NOx*) x NOx Reductions

- Staff evaluates CE for each project component individually
- NOx reductions are estimated over 10-year project life

AND:

2) Eligible Project Costs

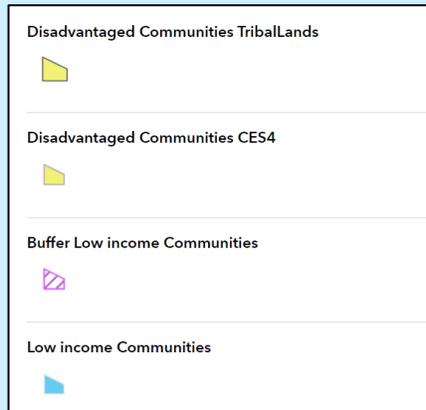
Award cannot exceed

- 75% of eligible costs (non-government entities)
- 100% of eligible costs (government entities)

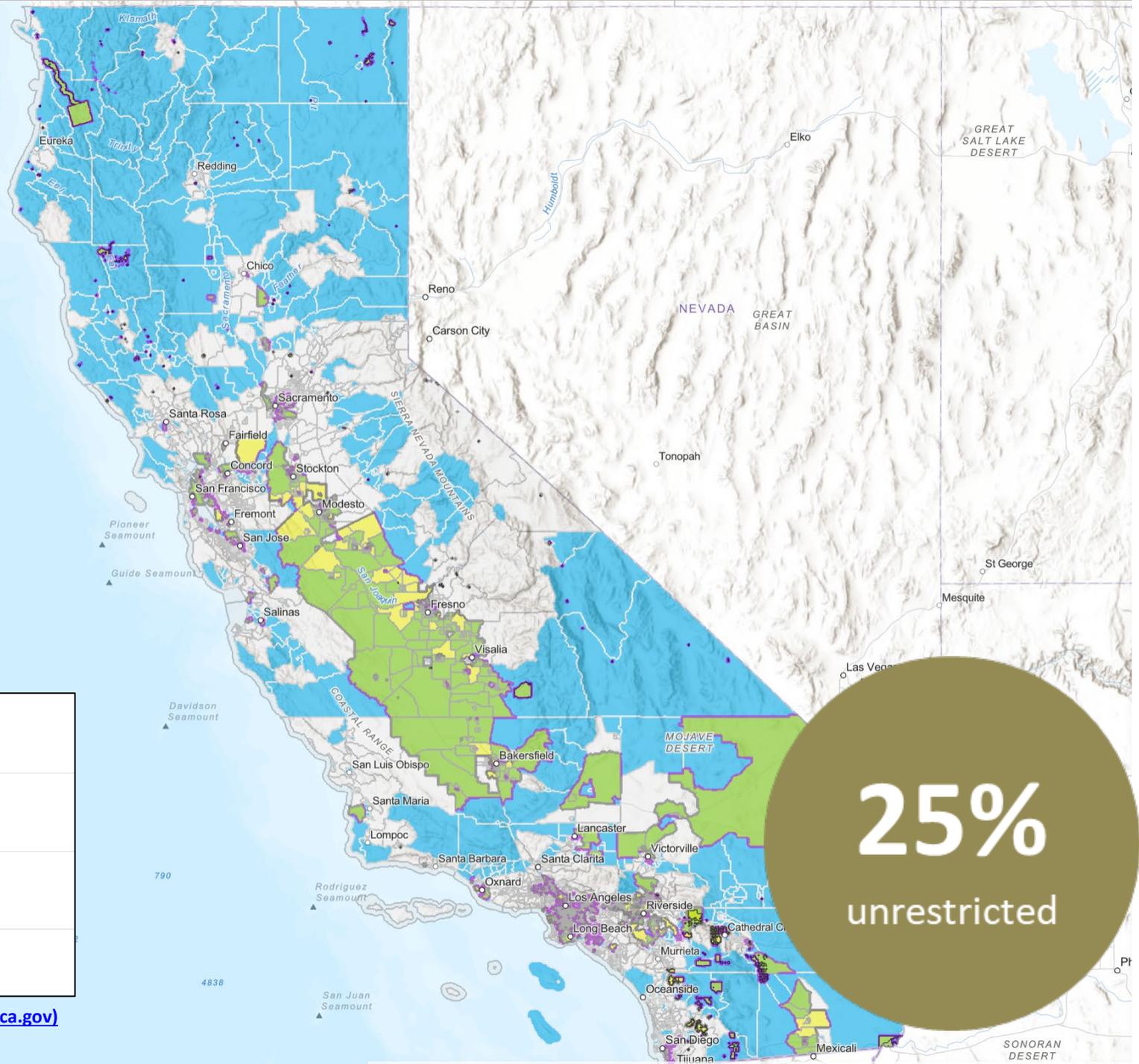


75%
Communities
Most in Need

Prioritizing Low-Income and Disadvantaged Communities



Source: Priority Populations (ca.gov)



25%
unrestricted

HEAVY-LIFT FORKLIFTS

Awards up to **75-100%** of eligible costs per forklift and infrastructure

- Lift capacity \geq **8,001 lbs**
 - Forklifts must meet this requirement
- E.g., reach stackers, side loaders, and top loaders
- Must have Tier 4 or earlier internal combustion engine (ICE)
- Can be anywhere in CA (i.e., seaport /airport not required)
- Infrastructure is eligible for funding



PORT
CARGO
HANDLING
EQUIPMENT

Awards up to **75-100%** of eligible costs per CHE and infrastructure

- E.g., rubber-tired gantry cranes, straddle carriers, shuttle carriers, terminal tractors, yard hostlers, yard tractors
- Existing equipment must have Tier 4 or earlier ICE engine
- Must operate at least partially/consistently at a **seaport, railyard, or freight facilities – See “Port” Definition in Program Guidance.**
- Infrastructure is eligible for funding



MARINE VESSELS

Awards up to 75-100% of eligible costs per project and infrastructure

- Ferries, tugboats and towboats
- Applicant must have Tier 2 or earlier ICE engine(s) to scrap
 - Engines don't need to originate from vessel to be repowered. Usage must be from vessel to repower.
- Must be vessel repower; vessel replacement not eligible
- Must have submitted a CARB ZEAT application to verify the proposed replacement system. Email harborcraft@arb.ca.gov to start your ZEAT application.
- Infrastructure is eligible for funding



Funding Example



Forklift Replacement

Baseline Equipment: 2000, Tier 1, 117 hp Forklift
Replacement: *2023 Electric Forklift*



Example



Forklift Replacement

Example Quote

Description	Eligibility	Cost
Price per Forklift	Yes	\$289,562
Freight in CA	Yes	\$23,850
Charger and Installation Costs	Yes	\$19,670
Taxes	Yes	\$23,965
	TOTAL COSTS	\$357,047

Maximum Funding %	Cost-Effectiveness Limit
75%	\$466,000 / Tons of NOx emission

Example Grant Outcomes

Engine Model Year, Tier, Horsepower	Annual Hours	NOx Emission Reductions	Total Eligible Costs	Cost Effective?	Baseline Grant Amount	Max Grant
2000, Tier 1, 117 hp forklift	256 hrs/year	0.076 tpy	\$357,047	YES (qualifies for 75%)	\$210,000	\$267,700.00
2000, Tier 1, 117 hp forklift	50 hrs/year	0.013 tpy	\$357,047	NO (CE more than \$466k/T)	\$210,000	\$210,000.00

How to Apply

**Our Electronic
Application System**

Zero-Emission Freight and Marine Projects

For a quick peek at funding, click an equipment category below.

Forklift Flyer Heavy-lift Forklifts	CHE Flyer Port Cargo Handling Equipment	Marine Flyer Marine Vessel Repower
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Equipment-specific Information

Getting Started

The ZEFM Program Solicitation is now **OPEN**.

Register for January 8, 2025 Forklift, Port Cargo Handling Equipment, and Marine Vessel Repower Webinar.

Please follow the **Solicitation Guidance** closely for eligibility requirements, and evaluation criteria, and application instructions.

APPLY NOW

To Apply!

For program updates
please sign up for our e-mail list

Guide to a Successful Application

Instructional Videos

- Video: **Portal Registration and Accounts**
- Video: **Functions of the Grants Management Portal**
- Completing the Application
 - Video: **Organizations, Accounts, and Adding Project Components**
 - Video: **Equipment Information and Application Submission Grants**

How to Complete Application



Welcome to the Grants Portal!

Login Now:

Sign in

[Reset or create password](#)

New to the Grants Portal?

This portal allows users to register and create a user account, create applications for grant funding, and conduct all required activities for previously awarded grant projects (e.g., submit reports and reimbursement requests).

If your business or organization has already started an application or previously applied for funding through this portal, we recommend that you contact the person who created the application and request that they create an associated user account so you can collaborate on applications and grant management activities for your organization.

▼ Applicant information

You may enter information about the organization that will be applying for the grant by clicking 'Add New'. If you have already created an organization in a previous application, the organization name will be pre-filled below.

Organization [Add New](#)

Organization Location

Primary Contact

Primary Signatory

Additional Contact 1

Additional Contact 2

Organization Location, Primary Contact and Primary Signatory autofills from information provided when organization is first created. If the dropdown does not contain the correct person, a new Primary Contact and/or Signatory may be created after the application is saved.

You can also select any additional users that will receive notifications about this project.

 Primary Contact is required.

After you have added the organization above, you can edit your organization information by saving this form, and then selecting 'Organizations' on the menu on the left side of the page.

▼ Project Component Information

Please **enter the domicile location** for the new and baseline equipment. To add a location, click the (+) button on the right. Each location entered here can be associated with each project component (i.e., piece of equipment) in your application. We recommend that you assign each location with a unique and descriptive name.

Domicile Location(s) 

Next, **add each project component** by clicking the (+) button on the right.

Project Component(s) 

After adding a Project Component, to **continue filling out equipment information**, save this application form and then select "Draft Project Components" on the left menu.

Application Checklist

- Read Guidance closely
- Act earlier to maximize funding
- Complete Application
 - ✓ Proof of ownership
 - ✓ [Optional] usage records
 - ✓ Insurance documentation
 - ✓ Equipment price quote(s)
 - ✓ Information about baseline and new equipment
 - ✓ Compliance documentation
 - ✓ Readiness Documentation (when planning/permitting/
environmental review required)
 - ✓ [Marine repowers] ZEAT application submitted)
(See Appendix A for a complete list)

Key Grantee Obligations

- Sign grant agreement
- Comply with applicable regulations and contract requirements
- Implement project within 18-24 months
 - Order/install new equipment
 - Scrap old equipment
- Cooperate with inspections/audits
- Submit reimbursement request
- Operate new equipment and submit annual reports for three years
- Record retention

Contact Us



<https://www.californiavwtrust.org/zero-freight-marine/>



CaliforniaVWTrust@baaqmd.gov



1-844-9VW-FUND