

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
Yu Zhang Liu, Senior Staff Specialist
Eliza Kane, Staff Specialist

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.
- The webinar recording will soon 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 Grant
Program

Overview of VW Mitigation Funds for California

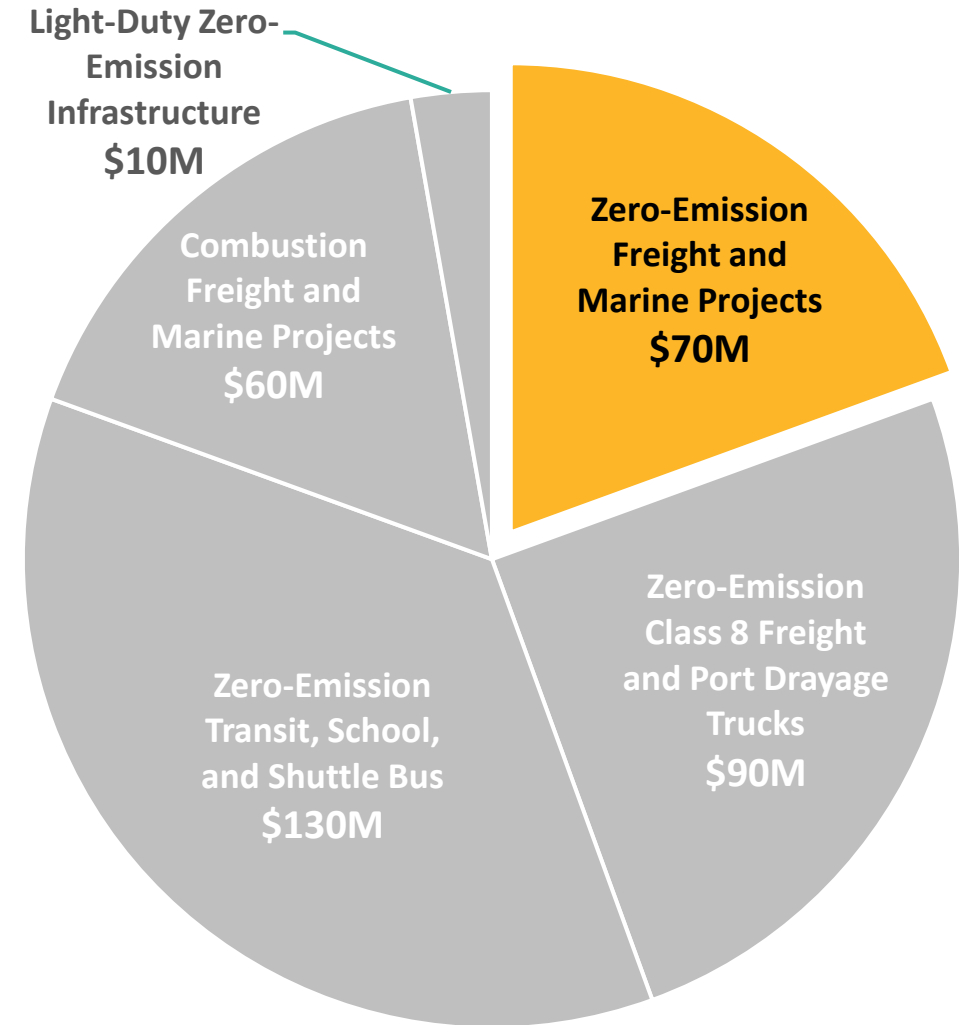
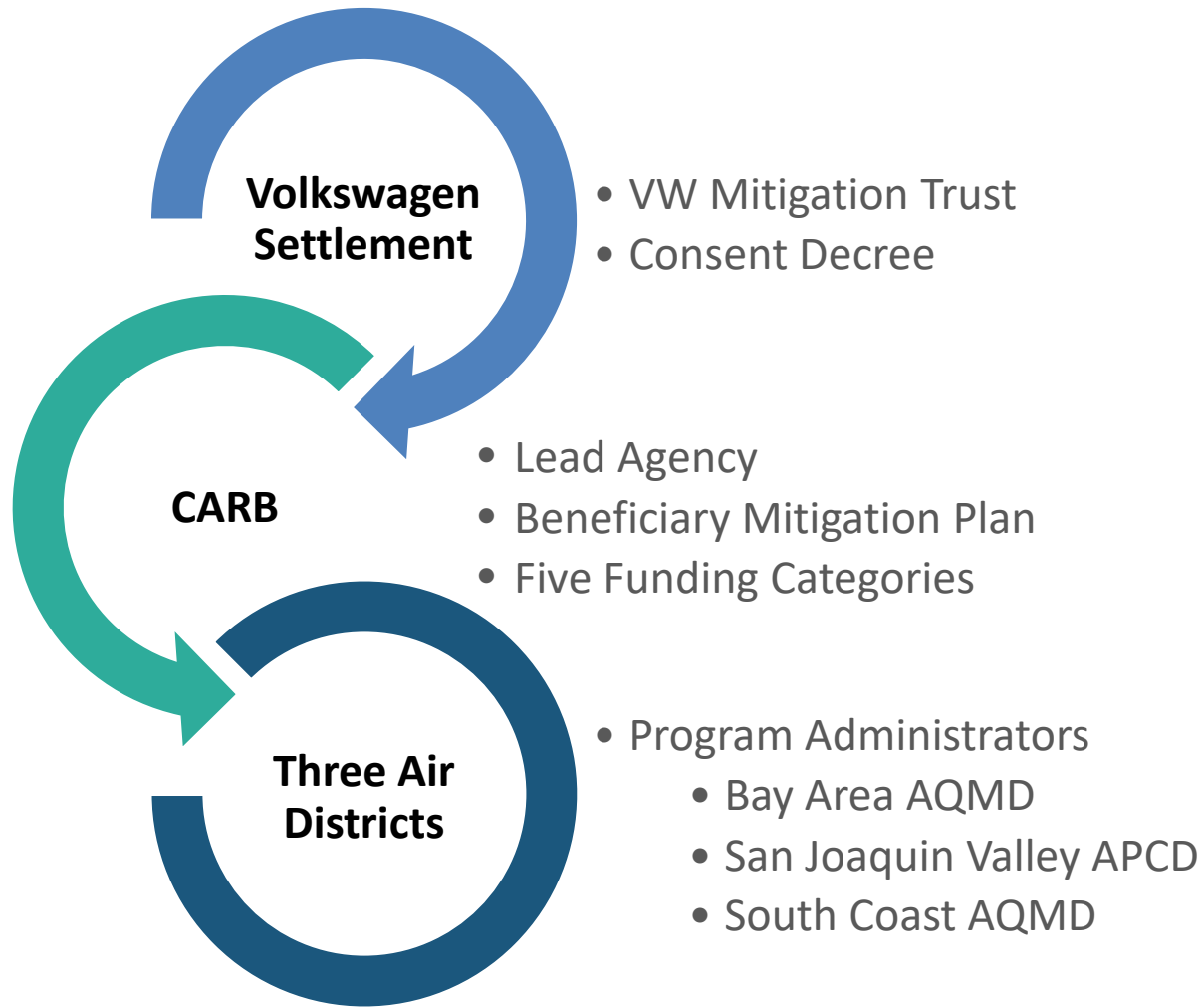
Program Basics

Eligible Projects & Evaluation

Funding Example

How to Apply

Overview of Statewide VW Mitigation Funds



Program Funding

Zero-Emission Freight and Marine Program

- Funding is open to eligible projects across California
- \$13 million currently available for marine repower projects
- CHE/Forklift Applications received are currently waitlisted
- Remaining marine funds will be reallocated to CHE/Forklift projects
 - Waitlisted applicants will be notified accordingly

Program Basics

- First-come, first served Statewide solicitation
- Eligible project categories:
 - Scrap and replace forklifts and cargo handling equipment
 - Repower of eligible marine vessels
- Reimbursement-based
- Co-funding with other grants may be allowed

Eligible Project Categories

Don't miss your chance! Apply for grant funding for marine vessel repower projects by **4:00 PM on August 14**

Scrap and Replace



HEAVY
LIFT
FORKLIFTS

ANYWHERE
IN CA



PORT CARGO
HANDLING
EQUIPMENT

PORTS / RAILYARDS
FREIGHT FACILITIES

Repower



FERRIES,
TUGBOATS, AND
TOWBOATS

CA WATERS

Marine Application Tentative Timeline

- Application Submission Deadline:
 - *August 14, 2025*
- Review Completed & Approvals Received By:
 - *October 27, 2025*
- Contracts Routed to Awardees:
 - *By November 26, 2025*
- Awardees Return Signed Contracts:
 - *By January 25, 2026*
- Contracts Fully Executed:
 - *By February 24, 2026*
 - Contracts not signed by this date will be cancelled
- Vessel Work Completed and In-Service:
 - *By February 24, 2028*



Max. Award Amount:

Based on either:

1) Base 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:

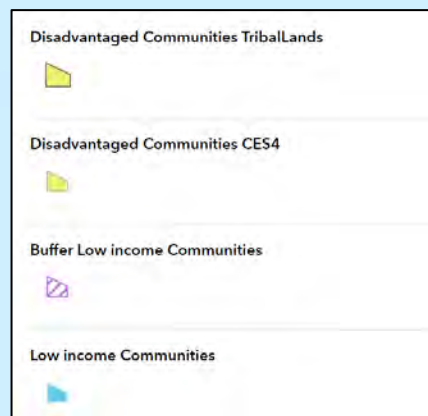
2) Eligible Project Costs

Award cannot exceed

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

Prioritizing Projects that Benefit Low- Income and Disadvantaged Communities

75%
Communities
Most in Need



[Source: Priority Populations \(ca.gov\)](https://www.ca.gov/priority-populations/)

25%
unrestricted

HEAVY-LIFT FORKLIFTS

May be eligible for 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 operated anywhere in CA (i.e., seaport /airport not required)
- Infrastructure is eligible for funding



**PORT
CARGO
HANDLING
EQUIPMENT**

May be eligible for 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 updated “Port” Definition in Program Guidance
- Infrastructure is eligible for funding



MARINE VESSELS

Marine vessel repower projects application deadline is 4:00 PM on August 14, 2025

May be eligible for 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
- 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: Model Year (MY) 2000, Tier 1, 117 hp Forklift
Replacement: *MY 2025 Electric Forklift*



Example



Forklift Replacement – Example of Funding Amount

Example Quote

Description	Eligibility	Eligible Costs	Ineligible Costs
Price per Forklift	Yes	\$289,562	
Freight in CA	Yes	\$23,850	
<i>Turn-key support for installation</i>	<i>No</i>		<i>\$12,000</i>
Charger and Installation Costs	Yes	\$19,670	
Taxes	Yes	\$23,965	
TOTAL ELIGIBLE COSTS		\$357,047	

Maximum Funding %	Cost-Effectiveness Limit
75% for Private	\$466,000 / Tons of NOx emission
100% for Public	

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



Forklift Replacement – With Co-Funding



Big Lift LLC

CPD50F8/LPE100

Lift Capacity:

10,000 lb capacity; 24-inch load center

Battery:

44.8 kWh Lithium-Ion

Incentive Amount

\$ 43,000

Example Grant Outcomes

Engine Model Year, Tier, Horsepower	Annual Hours	NOx Emission Reductions	Total Eligible Costs	CORE VOUCHER	Max Grant
2000, Tier 1, 117 hp forklift	256 hrs/year	0.076 tpy	\$357,047	\$43,000	\$267,700.00



Forklift Replacement

Example of Ineligible Costs (a complete list is found in the Guidance Document)

- Any costs not directly related to the new equipment
- Labor costs related to grant administration and project management
- Contractor labor, fees, or other costs that are not directly related to installation of infrastructure or repower of commercial harbor craft
- Planning or feasibility studies
- Costs related to scrapping of baseline equipment
- Maintenance costs (note: cost of extended warranty is allowed)
- Existing station upgrade
- Fuel and energy costs
- Distributed energy costs (e.g., fuel cells installed to provide power for charging infrastructure)

How to Apply

**Our Electronic
Application System**

www.CaliforniaVWTrust.org



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

**Equipment-specific
Information**

Getting Started

The ZEFM Program Solicitation is **OPEN**. Marine repower application is closing on **August 14 at 4pm**. We are hosting a webinar on **July 29 at 2 pm** – be sure to [sign up](#).

Please follow the [Solicitation Guidance](#) closely for eligibility requirements, evaluation criteria, and application instructions.

Review [Slides](#), [Question & Answer Document](#), and [Recording](#) from the April 9th, 2025 Forklift, Port Cargo Handling Equipment, and Marine Vessel Repower Webinar.

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**
- **Complete Application**
 - ✓ Proof of ownership
 - ✓ 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 within 60 days of receipt
- Comply with applicable regulations and contract requirements
- Implement project within the required deadline
 - Order/install new equipment
 - Scrap old equipment
 - Submit reimbursement request no later than 90 days after new equipment becomes operational
- Cooperate with inspections/audits
- Operate new equipment and submit annual reports for three years
- Record retention (contract length + 3 yrs)

Contact Us



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



CaliforniaVWTrust@baaqmd.gov



1-844-9VW-FUND