



Mitigation
Trust

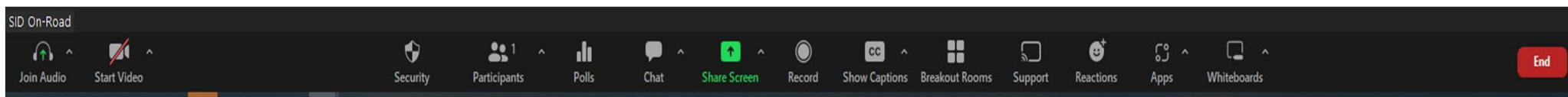
Statewide Zero-Emission Freight and Marine Program



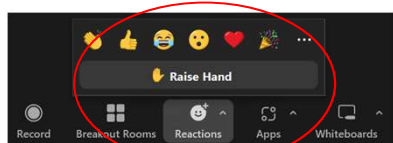
September 20, 2023 – 10:00 AM PDT

Hanna Muegge, Senior 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 - Cynthia” 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.

Outline



Statewide
Zero-Emission
Freight and
Marine Program

Overview of VW Mitigation Funds for California

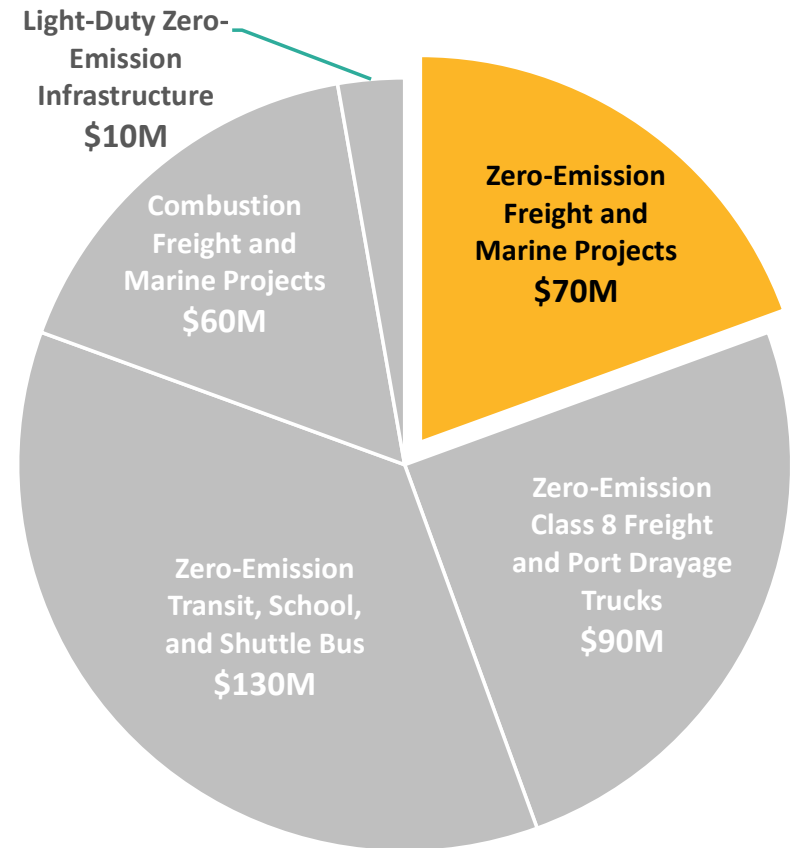
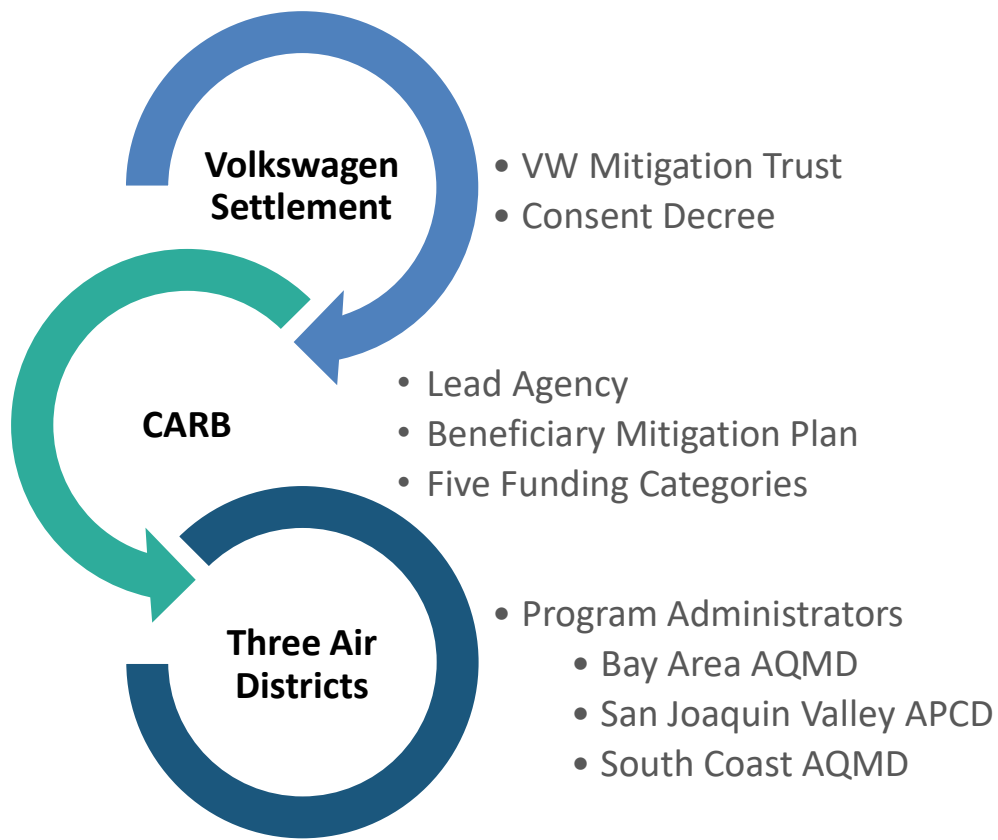
Program Highlights

Eligible Projects & Evaluation

Funding Example

How to Apply

Overview of VW Mitigation Funds for All California



<https://www.californiavwtrust.org/>

Program Funding

Zero-Emission Freight and Marine Program

\$70 million

- 2020-2023: \$15 million awarded
 - **2021: \$20 million open for awards**
-
- 202x: \$35 million in future awards
 - All funds must be awarded by end of 2025

Program Highlights

- Five eligible project categories
- First-come, first-served
- Reimbursement-based
- All static funding caps removed
- Higher cost-effectiveness (CE) limit as primary factor in determining funding
- Stacking of funding allowed

Eligible Project Categories

Scrap and Replace

Repower

Install



HEAVY
LIFT
FORKLIFTS

ANYWHERE
IN CA



PORT CARGO
HANDLING
EQUIPMENT

PORTS



AIRPORT
GROUND SUPPORT
EQUIPMENT

AIRPORTS



FERRIES,
TUGBOATS, AND
TOWBOATS

CA WATERS



OCEANGOING
VESSEL
SHORE POWER

BERTHS



Max. Award Amount =

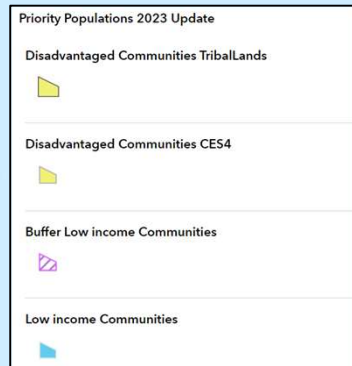
CE limit x NOx Reductions

*CE limit increased to **\$466,000** per Ton of NOx reductions*

- Grant award is based on eligible project costs, maximum CE, and maximum funding % for that category
- CE is evaluated for each project component individually
- NOx reductions are estimated over 10-year project life

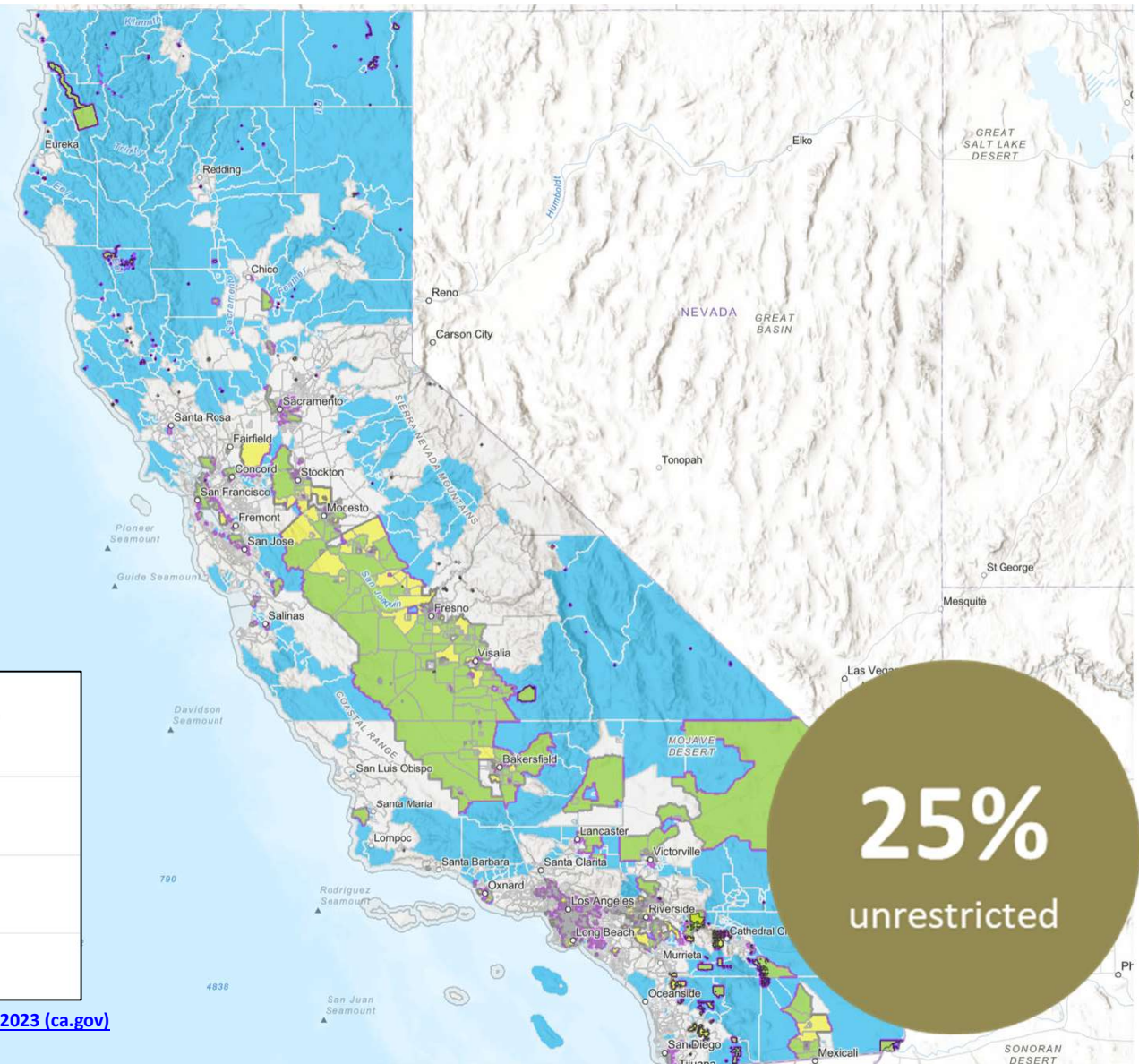
75%
Communities
Most in Need

Geographically
Focused

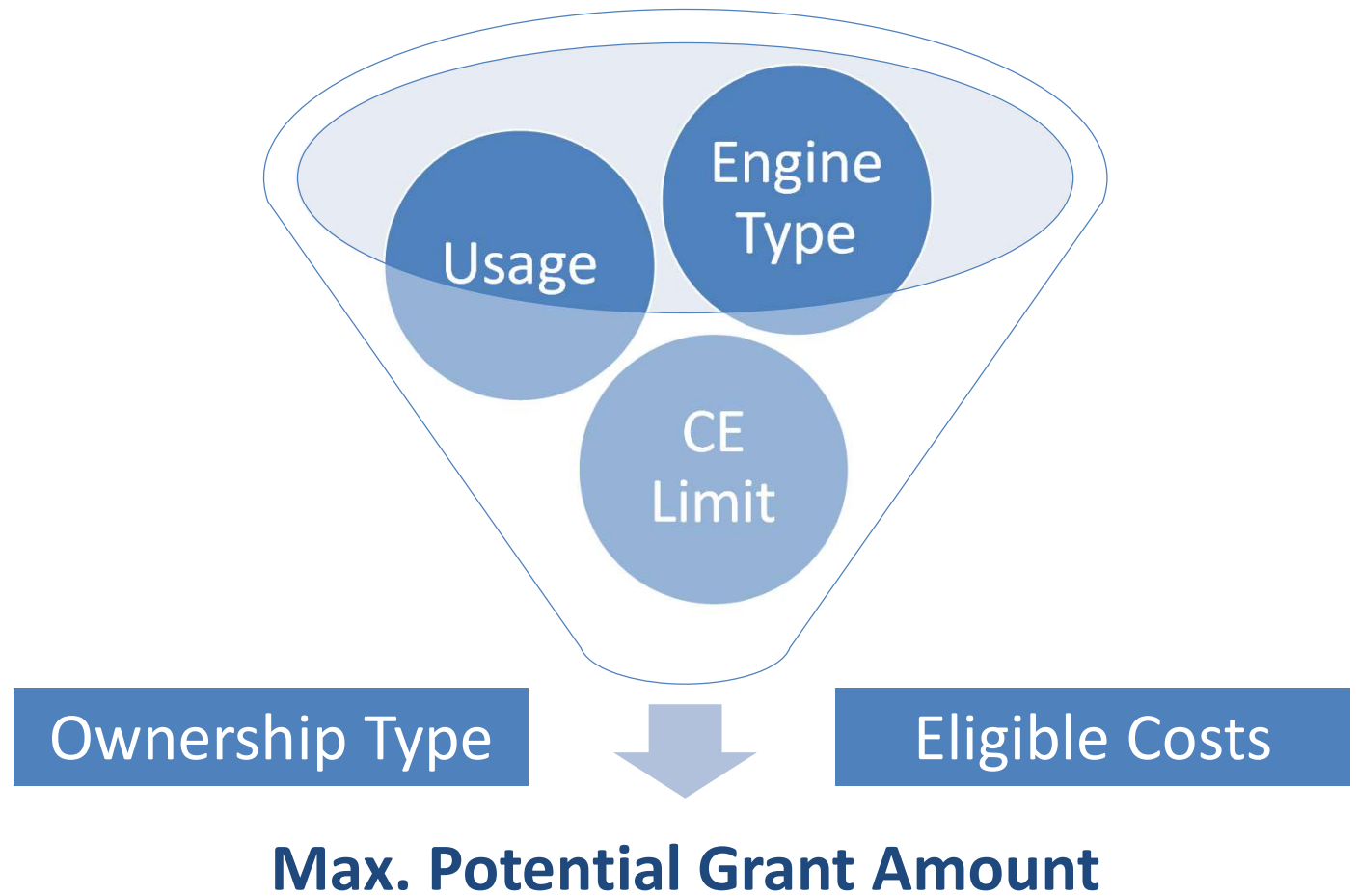


[Source: Priority Populations 2023 \(ca.gov\)](https://www.ca.gov)

Fiebeling



Determining Grant \$



HEAVY-LIFT FORKLIFTS



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

- lift capacity > **8,000 lbs**
 - Forklifts must meet this requirement
- e.g., reach stackers, side loaders, and top loaders
- must have Tier 4 or earlier ICE engine
- 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
- infrastructure is eligible for funding



**AIRPORT
GROUND
SUPPORT
EQUIPMENT**

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

- provide service to aircraft between flights
- provide support services around aircraft
- existing equipment must be diesel Tier 2 or earlier or spark ignition engine certified to 3.0 g/bhp-hr or higher emissions
- must be used at an airport
- infrastructure is eligible for funding



MARINE VESSELS

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

- ferries, tugboats and towboats
- existing equipment must have Tier 2 or earlier ICE engine(s)
- must be vessel repower; vessel replacement not eligible
- infrastructure is eligible for funding



SHORE POWER

Awards up to **75-100% of eligible costs**

- example of eligible costs: cabling, cable management systems, coupler systems, distribution controls
- must meet international design standards
- only usage by oceangoing vessels that are not already required by regulation will be considered



Funding Example



Forklift Replacement

Baseline Equipment: 1988, Tier 0, 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?	Max Grant
1988, Tier 0, 117 hp forklift	256 hrs/year	0.0666 tpy	\$357,047	YES (qualifies for 75%)	\$267,700.00
1988, Tier 0, 117 hp forklift	50 hrs/year	0.01099 tpy	\$357,047	NO (CE more than \$466k/T)	\$48,300.00

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	GSE Flyer	CHE Flyer	Marine Flyer	Shore Power Flyer
Heavy-lift Forklifts	Airport Ground Support Equipment	Port Cargo Handling Equipment	Marine Vessel Repower	Shore Power at Berths for Oceangoing Vessels

Equipment-specific Information

Getting Started

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

APPLICATION

To Apply!

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

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.

Application Checklist

- Read [Guidance](#) closely
- Attend a webinar
- Act earlier to maximize funding
- Complete Application
 - ✓ proof of ownership
 - ✓ usage records
 - ✓ insurance documentation
 - ✓ equipment price quote(s)
 - ✓ information about baseline and new equipment
 - ✓ compliance documentation(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, if applicable
- 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

Q and A