

California



Mitigation  
Trust

Zero-Emission  
Freight and  
Marine Program

# Welcome to the webinar

We will begin in



minutes

# California VW Mitigation Trust

## Today's Presenters



Chad



Poornima



John



Itsel

## Zero-Emission Freight and Marine Program



Mitigation  
Trust

Zero-Emission  
Freight and  
Marine Program

# Structure of Webinar

(5 min)

## Overview of Solicitation

[Audience Poll]

(5 min)

## Why Apply?

[Q&A]

(22 min)

## What and How Much?

[Audience Poll] [Q&A] [Audience Poll] [Q&A]

(8 min)

## How to Apply?

(5 min)

## Keys to Success

[Q&A]

# California VW Mitigation Trust

Zero-Emission  
Freight and  
Marine Program

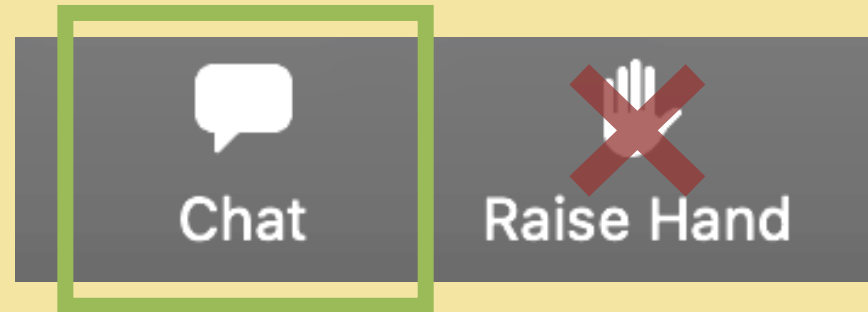
## Polling 1: Polling Questions

[Edit](#)

1. Do you anticipate doing a project in an impacted community?
2. What kind of project(s) do you have in mind?
3. How much money do you anticipate applying for?



Zero-Emission  
Freight and  
Marine Program



**Application Q&A Webinar**  
June 3 (Thu) 1:30-2:30pm PDT

# Overview

(5 min)

**Zero-Emission Freight  
and Marine Program**

Funding  
Available

up to  
**\$34 million**

starting May 25, 2021

# Eligible Project Categories



HEAVY  
LIFT  
FORKLIFTS

ANYWHERE



PORT CARGO  
HANDLING  
EQUIPMENT

PORTS



AIRPORT  
GROUND SUPPORT  
EQUIPMENT

AIRPORTS



FERRIES,  
TUGBOATS, AND  
TOWBOATS

CA WATERS



OCEANGOING  
VESSEL  
SHORE POWER

BERTHS





up to  
**\$10 million**  
per awardee



# first come, first served

rolling applications • May 25 – Sep 22 (120 days)



# cost-effectiveness

$$= \frac{\text{award amount}}{\text{NOx reduction}}$$

(measured over 10-year project life)

## $\leq$ \$280,000 per ton of NOx

(evaluated for each project component individually)

Self-  
Financing

# reimbursement-based

grantees must be able to cover all  
project costs upfront

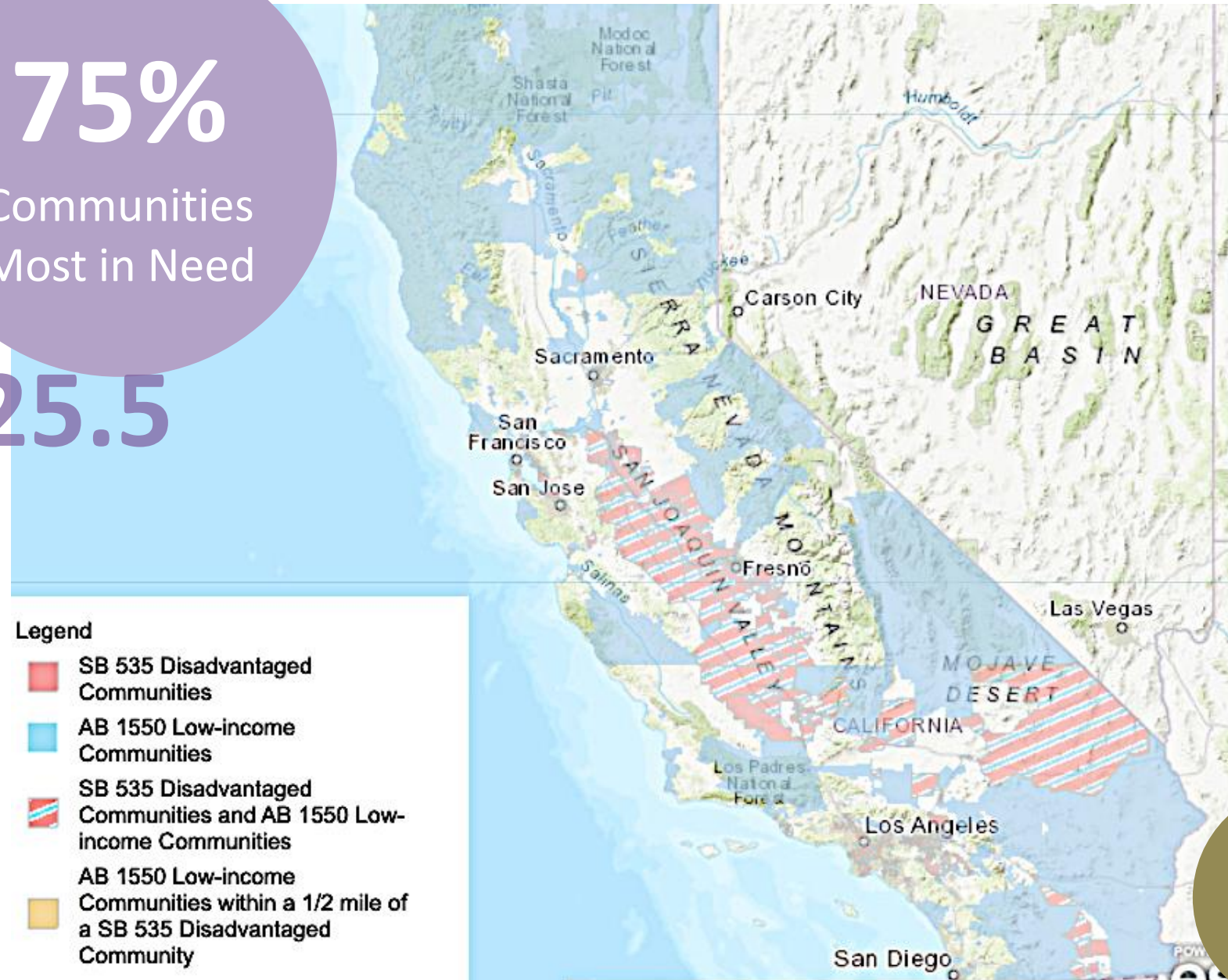
# 75%

Communities  
Most in Need

# \$25.5

## Legend

- SB 535 Disadvantaged Communities
- AB 1550 Low-income Communities
- SB 535 Disadvantaged Communities and AB 1550 Low-income Communities
- AB 1550 Low-income Communities within a 1/2 mile of a SB 535 Disadvantaged Community



# \$8.5

# 25%

unrestricted

Geographically  
Focused

## Summary

- **\$34 million**
  - multiple project categories
  - first-come, first-served
  - cost-effectiveness-based funding
  - reimbursement-based
- **\$10M award limit per applicant**  
(combined for all project components)

# Why Apply?

(5 min)

**Zero-Emission Freight  
and Marine Program**

## Significant Funding

# \$70 million

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- 2020: \$1 million awarded
  - **2021: \$34 million open for awards** (May 25-Sep 22, 2021)
- 
- 202x: \$35 million in future awards



# Strategic Momentum



# Available Guidance

## Volkswagen Environmental Mitigation Trust Fund Zero-Emission Freight and Marine Program Solicitation

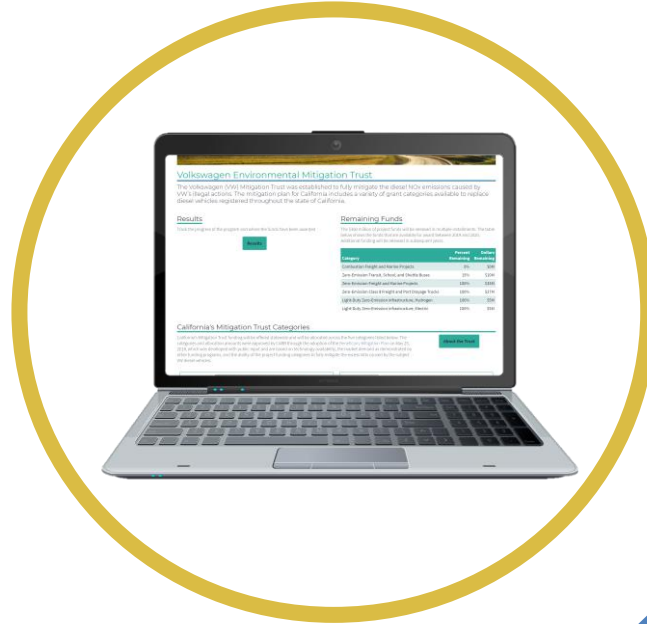
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# Ongoing Support



For more information, please visit <https://www.californiavwtrust.org/zero-freight-marine/>

# Make a Difference



view from UC Berkeley campus

## Why to Apply

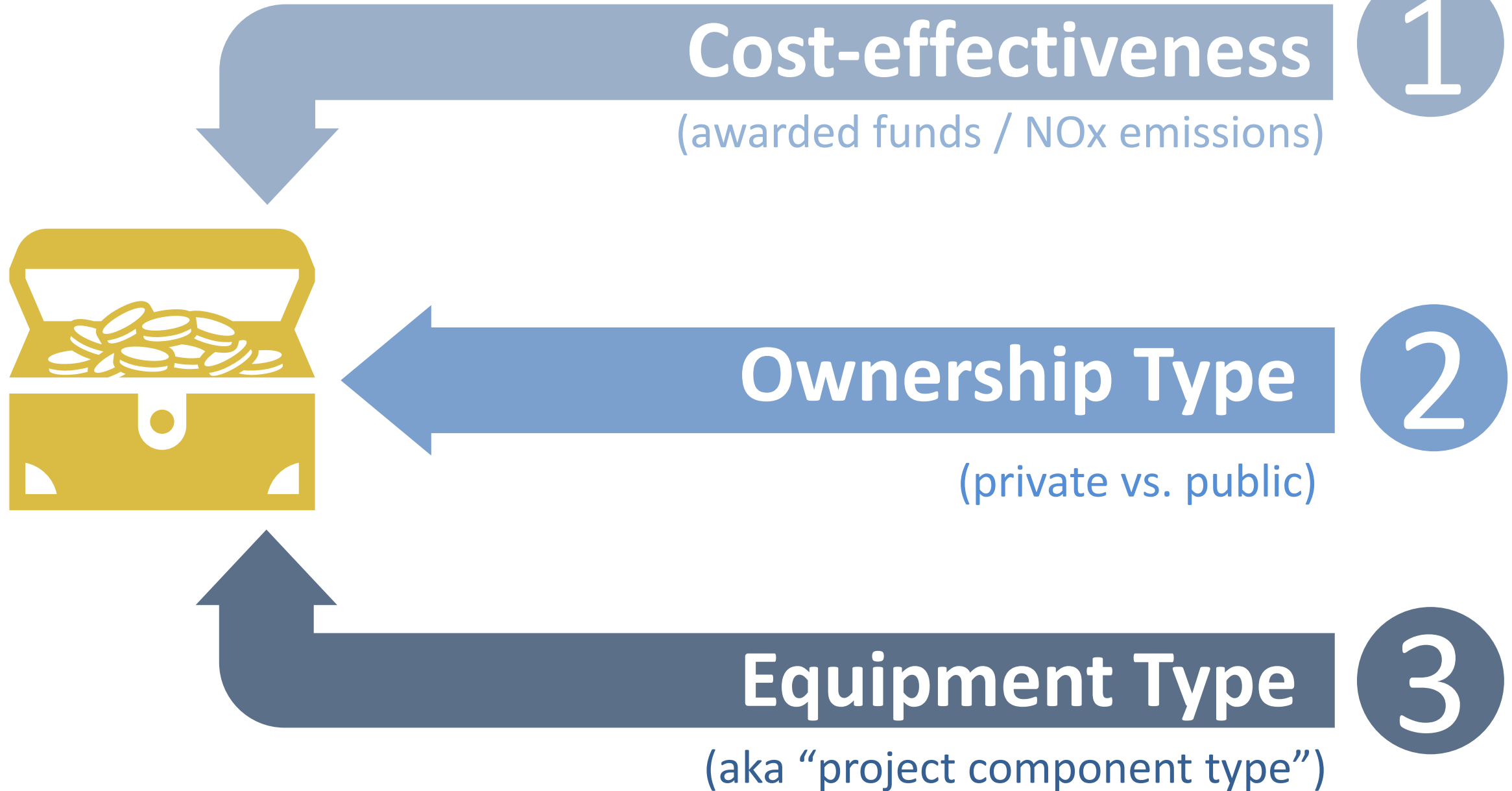
- Significant funding
- Gain Momentum
- Available guidance
- Flexibility and support
- Make a difference

# What and How Much?

(25 min)

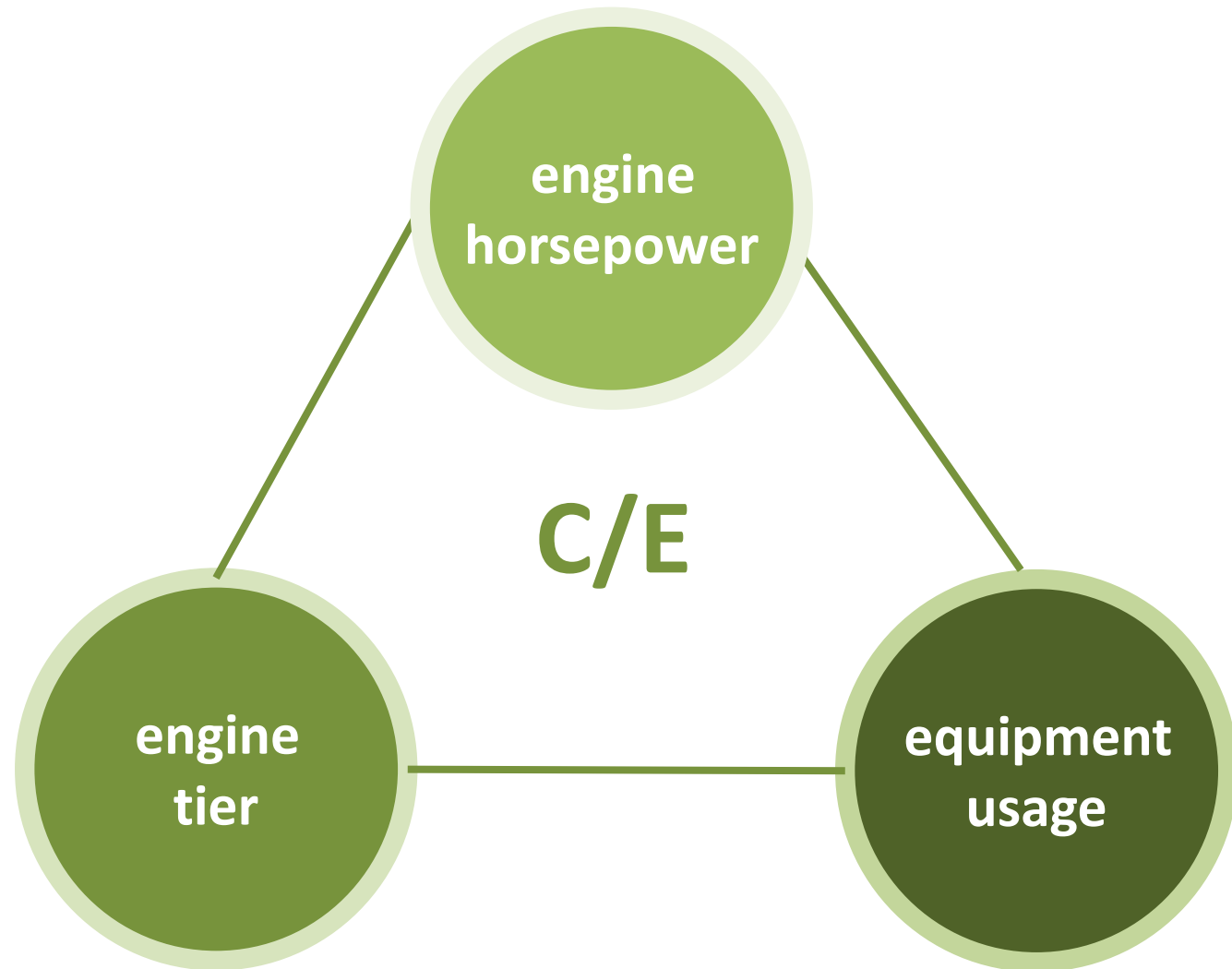
**Eligibility and  
Available Funding**





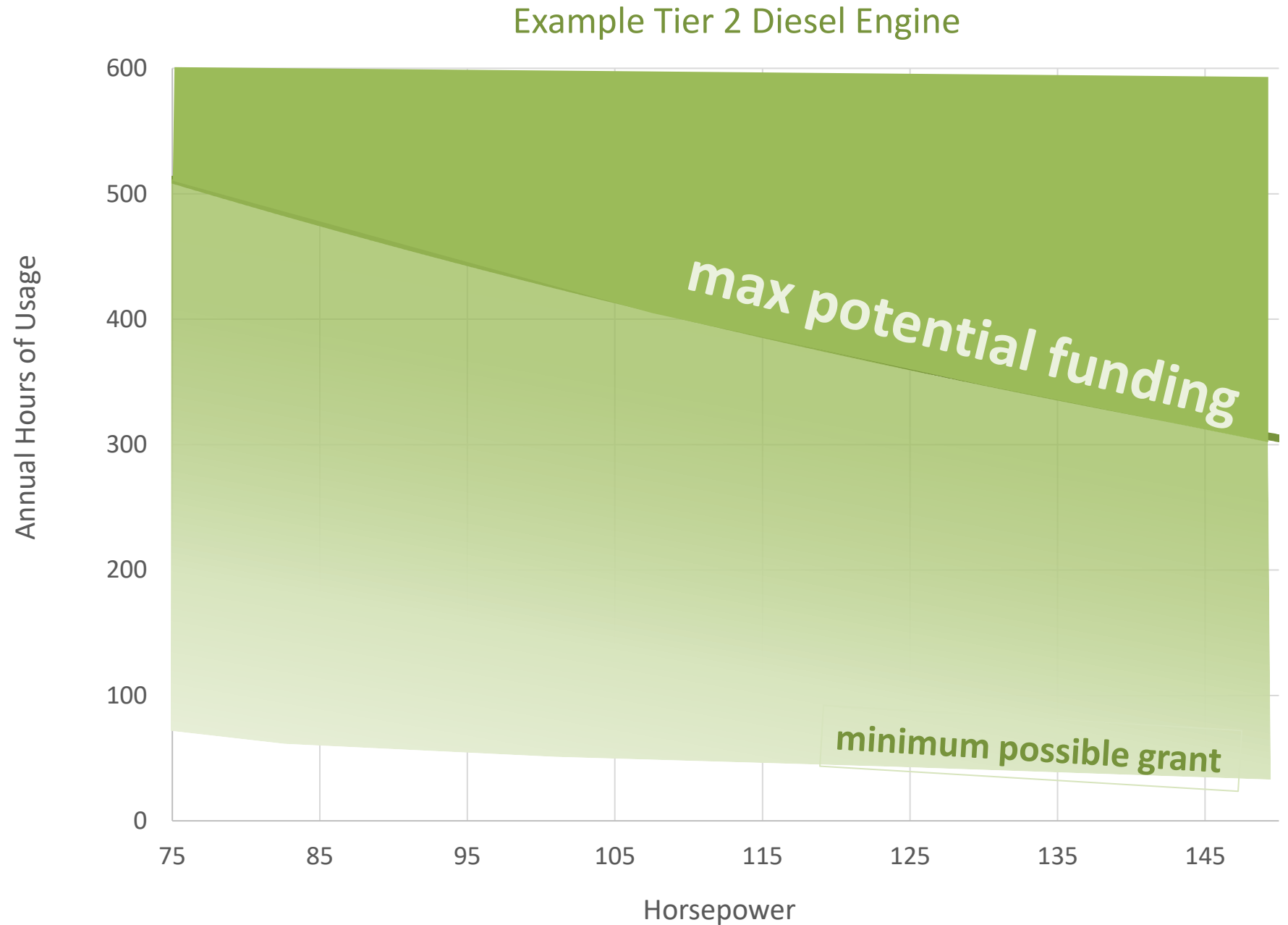
How “cost-effective” is your project component?

**Cost-  
Effectiveness**  
(aka C/E)

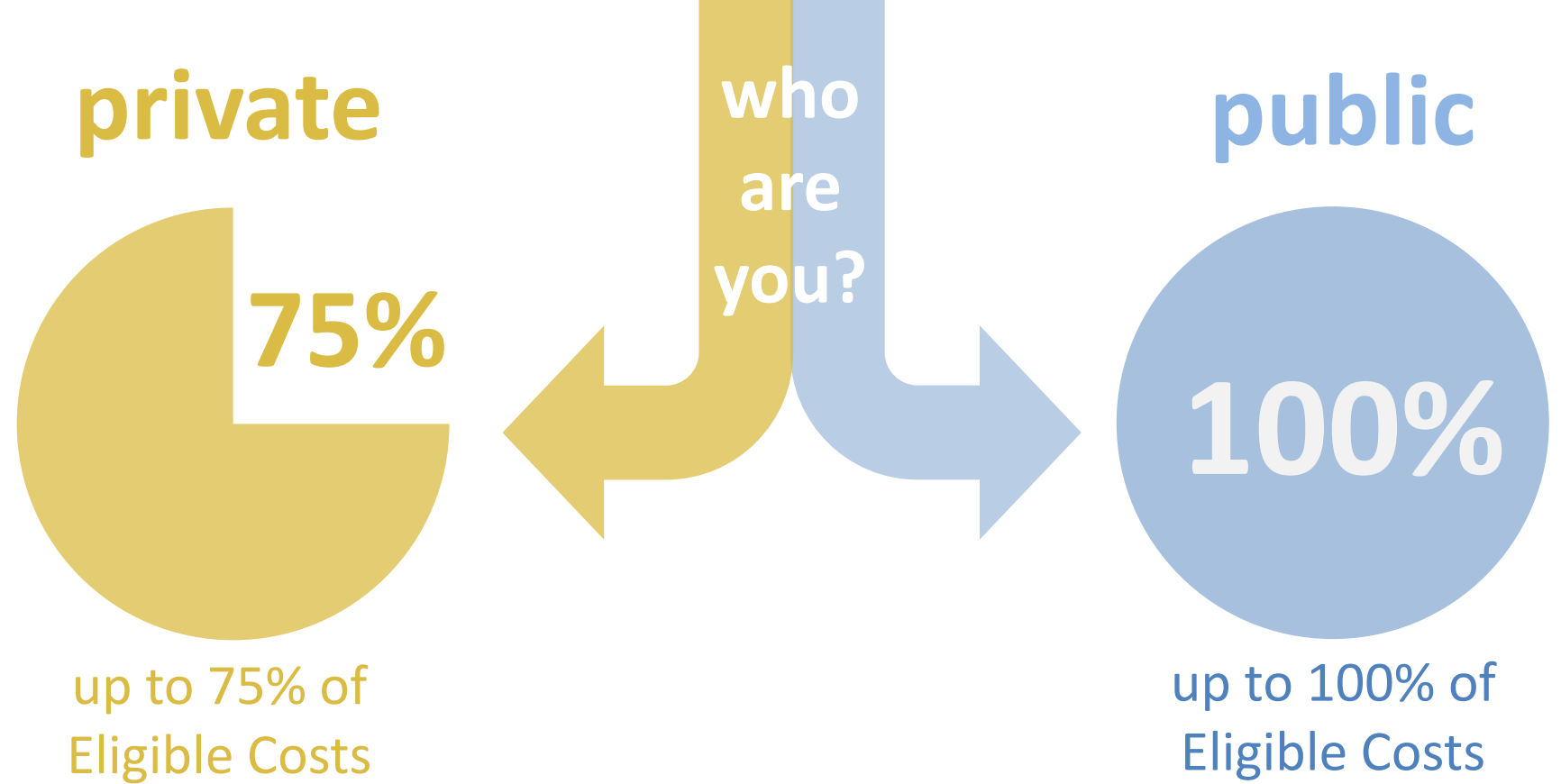




Cost-  
Effectiveness  
(aka C/E)

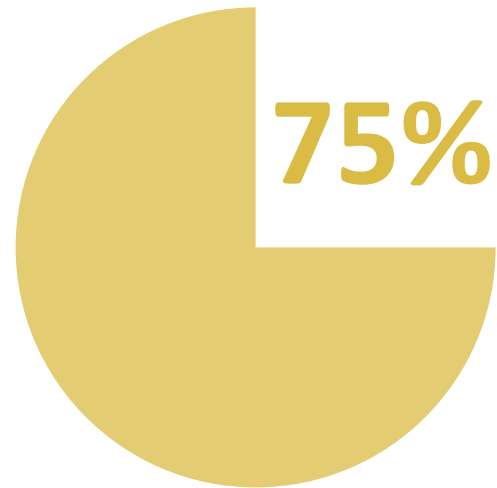


## Ownership Type



## Ownership Type

private



up to 75% of  
Eligible Costs

who  
are  
you?

public



up to 100% of  
Eligible Costs

shore power

up to 25% of  
Eligible Costs

25%

# Project Components



HEAVY  
LIFT  
FORKLIFTS

ANYWHERE



PORT CARGO  
HANDLING  
EQUIPMENT

PORTS



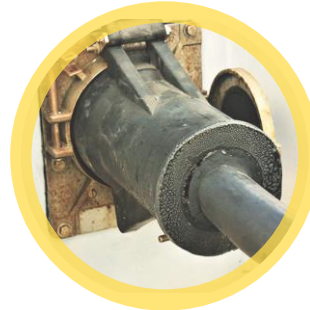
AIRPORT  
GROUND SUPPORT  
EQUIPMENT

AIRPORTS



FERRIES,  
TUGBOATS, AND  
TOWBOATS

CA WATERS



OCEANGOING  
VESSEL  
SHORE POWER

BERTHS

## HEAVY-LIFT FORKLIFTS

Awards up to **\$175k per piece of equipment**



- lift capacity > 8,000 lbs
- e.g., reach stackers, side loaders, and top loaders
- must have Tier 4 or earlier ICE engine
- can be anywhere (i.e., seaport /airport not required)
- infrastructure is eligible for funding

PORT  
CARGO  
HANDLING  
EQUIPMENT

## Awards up to \$175k per piece of equipment



- 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 a seaport
- infrastructure is eligible for funding

AIRPORT  
GROUND  
SUPPORT  
EQUIPMENT

## Awards up to **full incremental cost\*** (\*vehicle only)

- 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 g/bhp-hr or higher emissions
- must be used at an airport



## MARINE VESSELS

# Awards up to \$2.5 million per vessel

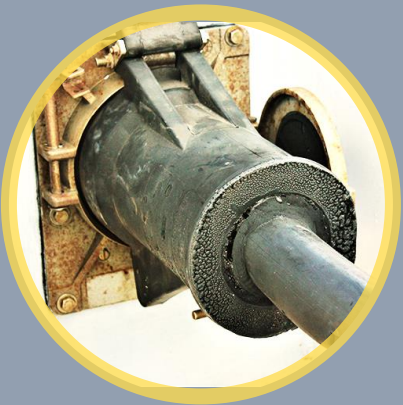
- ferries, tugboats and towboats
- existing equipment must have Tier 2 or earlier ICE engine(s)
- can retain Tier 3 and Tier 4 engine(s)
- vessel replacement not eligible
- infrastructure is eligible for funding





## SHORE POWER

# Awards up to **\$2.5 million per installation**



- must not be required by regulation
- example of eligible costs: cabling, cable management systems, coupler systems, distribution controls
- must meet international design standards

# Poll



HEAVY  
LIFT  
FORKLIFTS

ANYWHERE



PORT CARGO  
HANDLING  
EQUIPMENT

PORTS



AIRPORT  
GROUND SUPPORT  
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BERTHS

# Funding Examples



# Forklift Replacement

Private owner

*invoiced costs*

Costs of zero-emission forklift

\$200,000

Costs of supporting infrastructure

\$50,000

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Sum of Costs

\$250,000

Example



# Forklift Replacement

Private owner —————→ reimbursement @75%

Cost of zero-emission forklift	\$200,000	\$150,000
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Cost of supporting infrastructure	\$50,000	\$37,500
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---

Sum of Costs	\$250,000	\$187,500
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**Max Potential Award\***

(C/E = \$280,000/ton or less)

↕ lower of two

**\$175,000**



# Tugboat Repower

Public owner

*invoiced costs*

Two Tier 2 diesel main engines (cost for both)

\$3,500,000

Tier 3 diesel auxiliary engine

\$500,000

---

Sum of Costs

\$4,000,000

**Example**



# Tugboat Repower

Public owner —————→ reimbursement @100%

Tier 2 diesel main engines (2x) (qualifying / “eligible”)	\$3,500,000	\$3,500,000
--	-------------	-------------

Tier 3 diesel auxiliary engine (not qualifying; engine must be Tier 0-2)	\$500,000	\$0
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Sum of Costs	\$4,000,000	\$3,500,000
--------------	-------------	-------------

**Max Potential Award\***

(C/E = \$280,000/ton or less)

**\$2,500,000**

lower of two



# Airport GSE

Private owner (but doesn't matter)

*quoted cost*

Quote for new zero-emission pushback

\$160,000

**Example**





# Airport GSE

Private owner —————→ reimbursable @100%

Quote for new zero-emission pushback \$160,000

Quote for conventional ICE pushback \$130,000

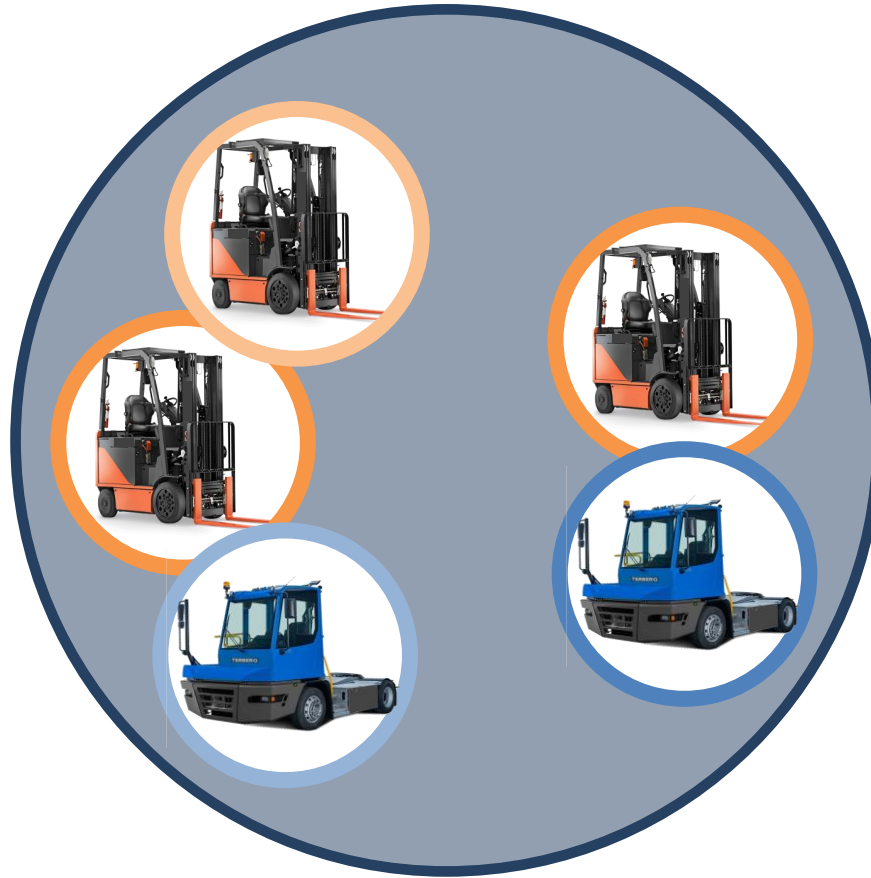
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Incremental Cost \$30,000 —————→ \$30,000

**Max Potential Award\* \$30,000**

**Maximum  
Potential  
Award**  
(up to \$10 million)

≥



Example Combo  
Project / Application

=

+

sum of awards for  
three forklift project  
components

sum of awards for  
two cargo handling  
equipment project  
components

# Poll



up to  
\$175k



up to  
\$175k



incremental  
cost



up to \$2.5  
million



up to \$2.5  
million

# How to Apply

(10 min)

**Our Electronic  
Application System**



Welcome to the Grants Portal!

Login Now:

Sign in

[Reset or create password](#)

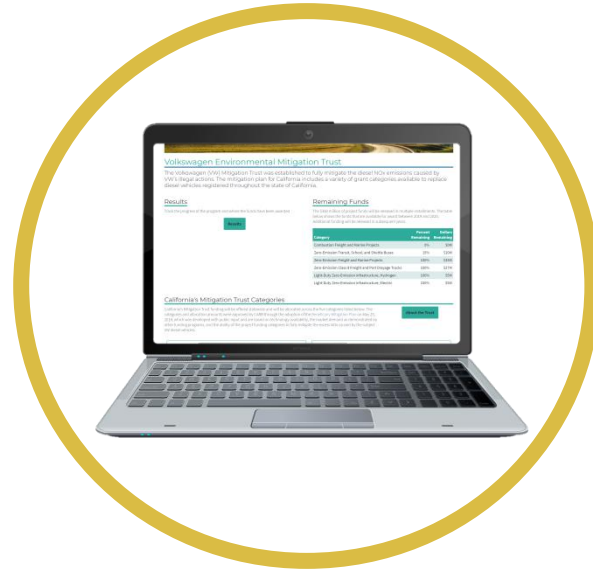
### New to the Grants Portal?

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

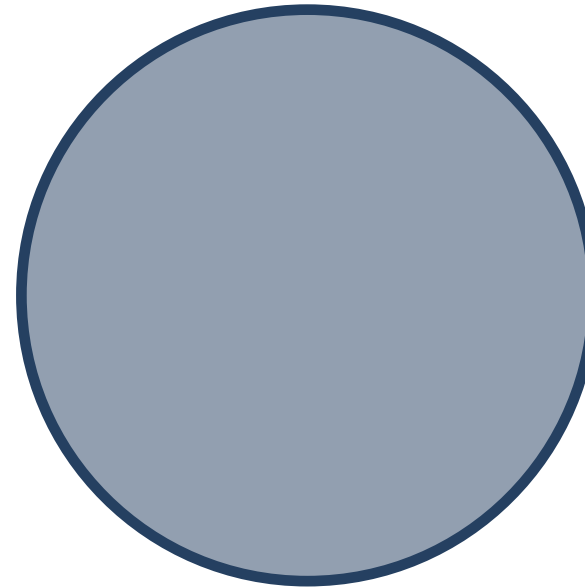
(all funding requests)



10

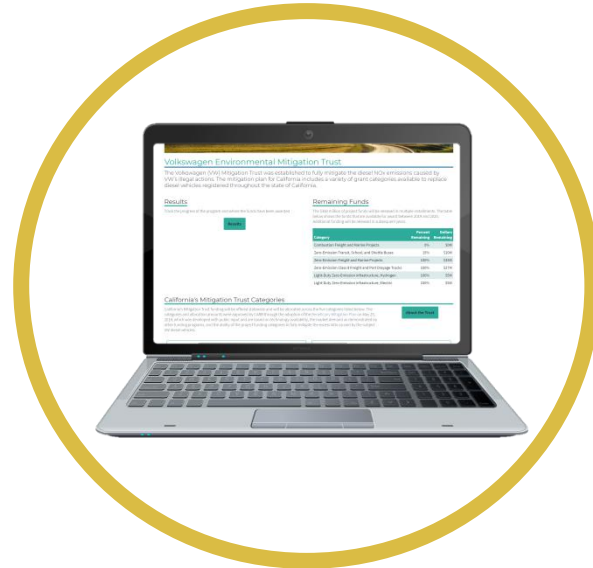
## Project

(all project components)



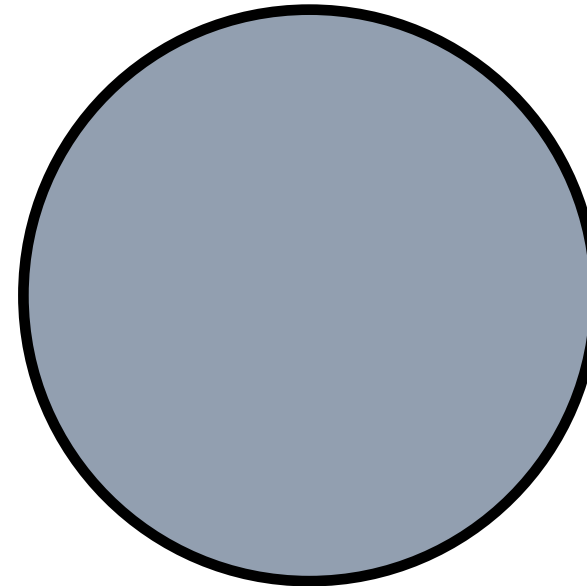
<https://www.californiavwtrust.org/zero-freight-marine/>

# Application



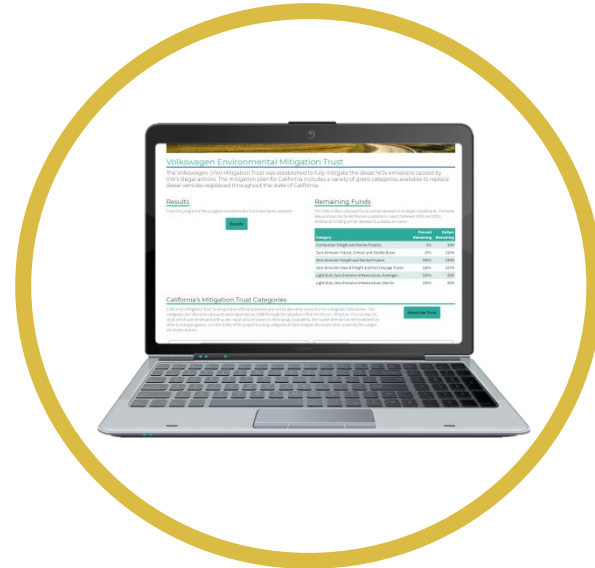
=

# Project

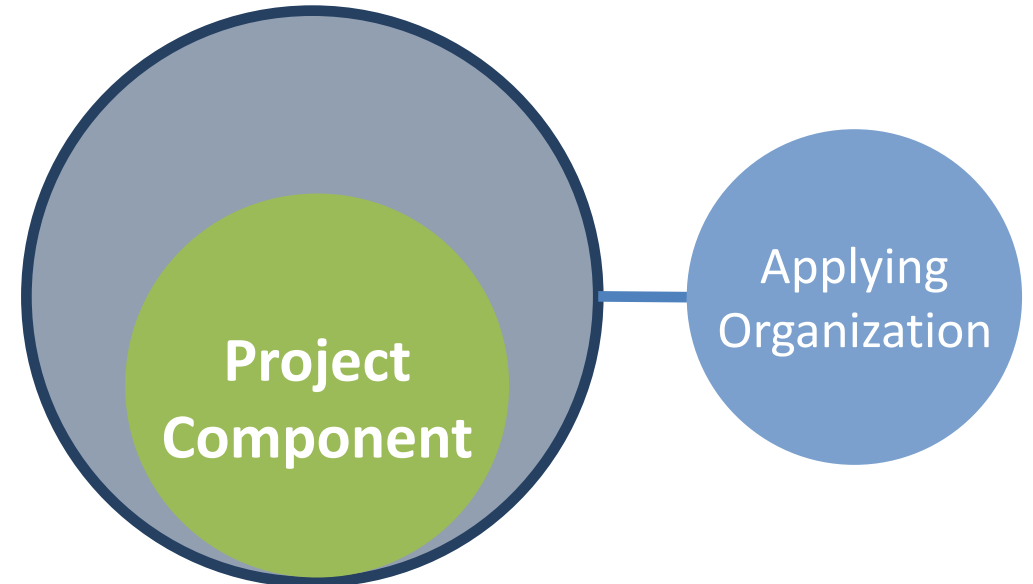


Applying  
Organization

# Application



# Project

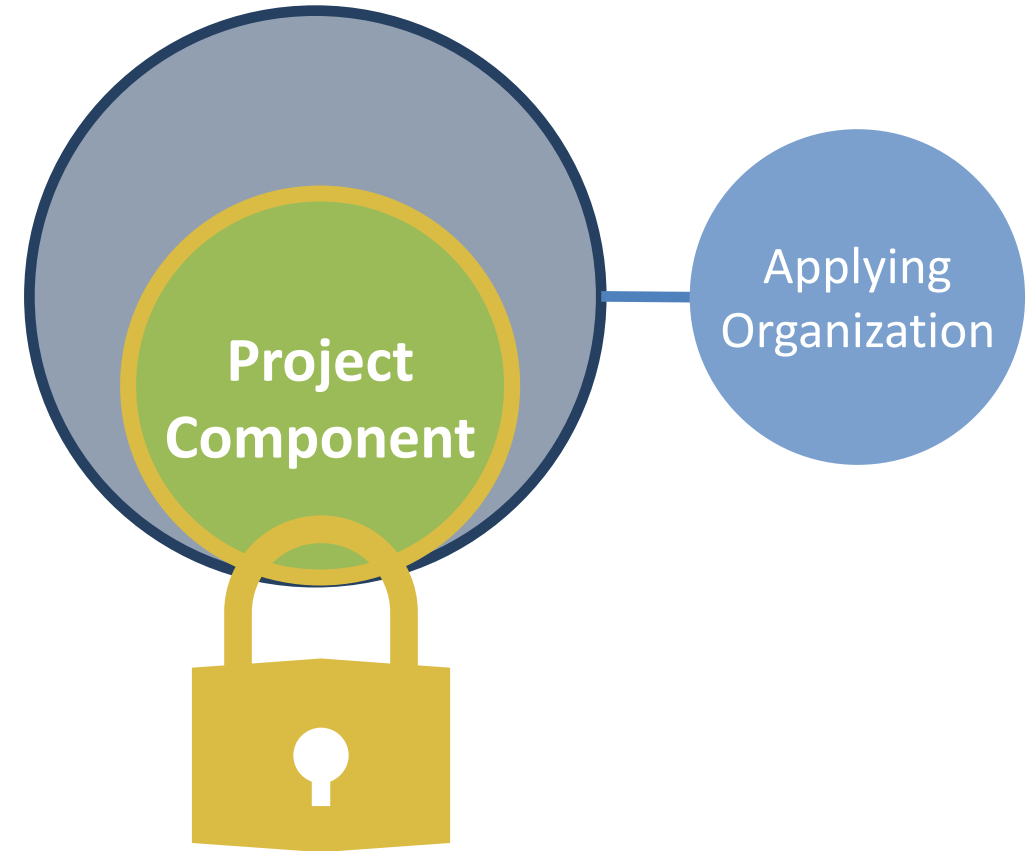




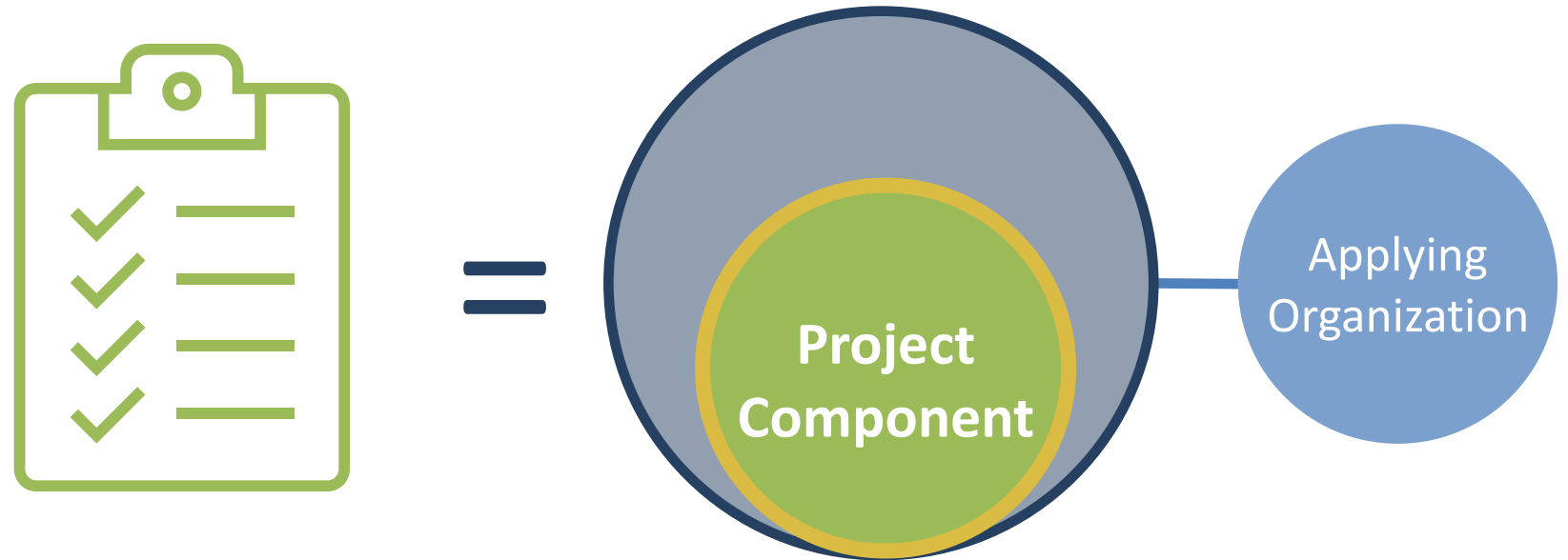
# Initial Submission



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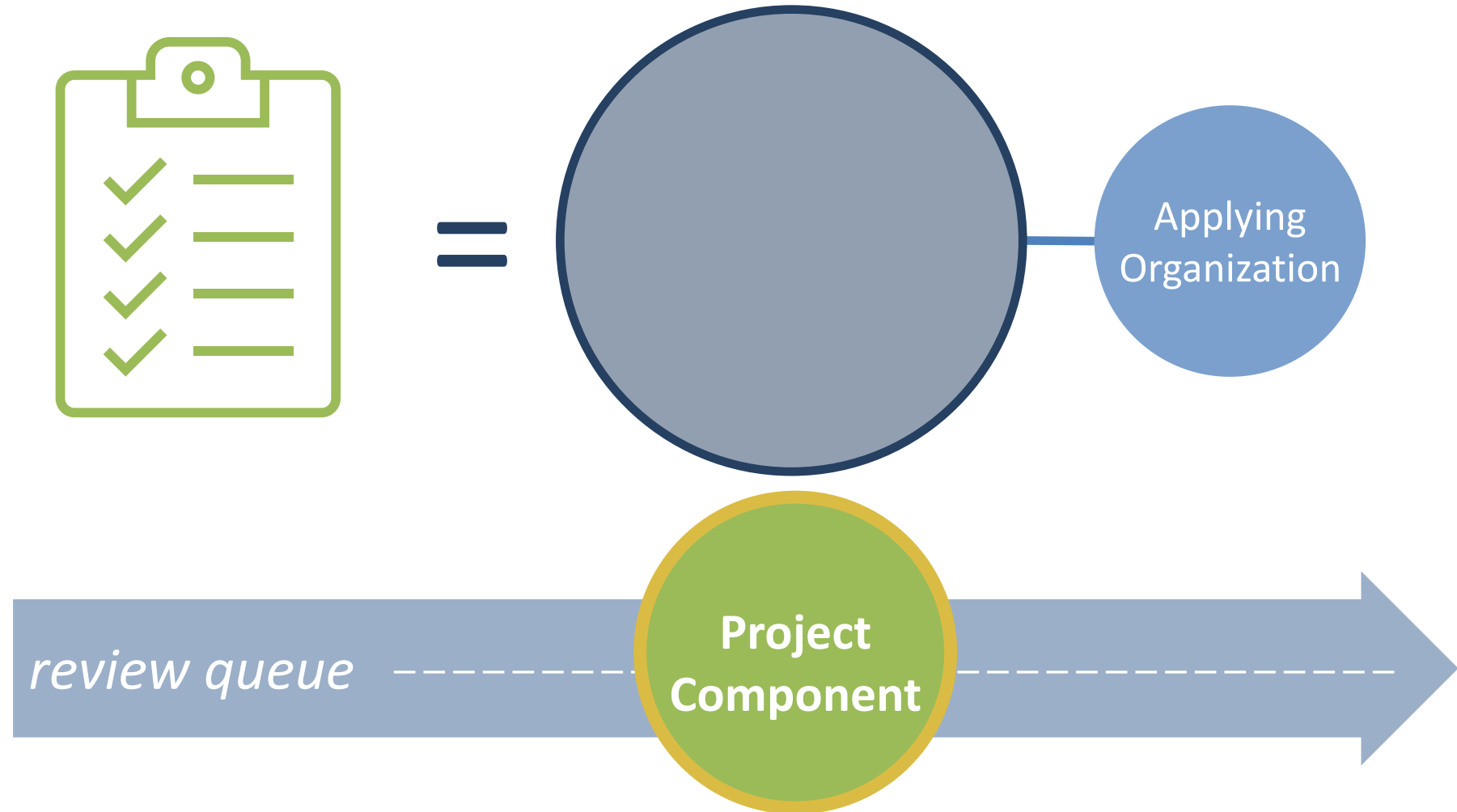
## Review Queue



*review queue*



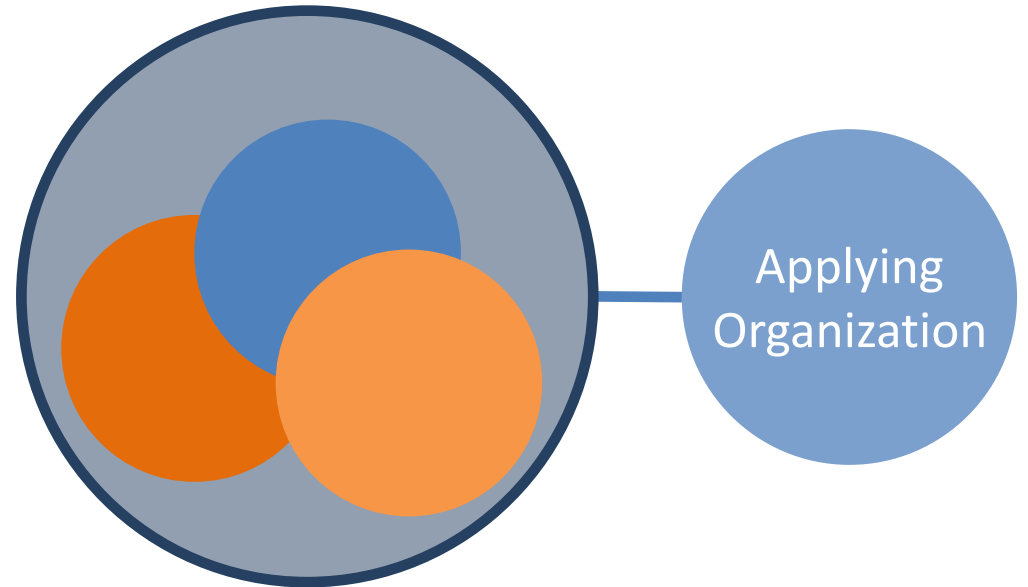
## Review Queue



Add As  
You Go



=



*review queue*



# Key to Success (5 min)

**How to Submit a  
Complete Application**

Advice

read guidance closely

## Volkswagen Environmental Mitigation Trust Fund Zero-Emission Freight and Marine Program Solicitation

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## Application Checklist

# documentation

- ✓ proof of ownership
- ✓ usage records
- ✓ insurance documentation
- ✓ equipment price quote(s) **(note: ZE + ICE for GSE)**
- ✓ information about baseline and new equipment
- ✓ compliance documentation

(see Appendix A for a complete list)

## Recap

- **\$34 million in 1<sup>st</sup> installment funding**
- **\$10 million limit per awardee**  
(combined for all project components)
- **Rolling application: May-Sep 2021**
- **First-come, first-served review**
- **Reimbursement-based funding**
- **Read application guidance closely**



# Support for Your Application



**Application Q&A Webinar on June 3 (1:30-2:30pm PDT)**



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



[CaliforniaVWTrust@baaqmd.gov](mailto:CaliforniaVWTrust@baaqmd.gov)



**1-844-9VW-FUND**

# Q and A

from the chat