

**DOCKETED**

<b>Docket Number:</b>	19-TRAN-02
<b>Project Title:</b>	Medium- and Heavy-Duty Zero-Emission Vehicles and Infrastructure
<b>TN #:</b>	232714
<b>Document Title:</b>	ZE Transit Fleet Infrastructure Deployment - Workshop Presentation
<b>Description:</b>	N/A
<b>Filer:</b>	Christina Cordero
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
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<b>Docketed Date:</b>	4/10/2020



# Clean Transportation Program



# **Draft Solicitation Concept for Medium-and Heavy-Duty Zero-Emission Transit Fleet Infrastructure Deployment**

Esther Odufuwa  
Freight and Transit Unit  
April 10, 2020



# Housekeeping

- "Raise hand" feature to ask a question or provide comment
- Chat box is available for questions and comments (for those online)
- Diversity Survey
  - More information will be provided in the "chat box" section and the next few slides.
  - Survey will be emailed to all participants after the workshop.



# Agenda

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- Welcome and Introductions
- Overview of Draft Solicitation Concept
- Discussion Question(s) and Public Comments
- Adjourn





# Commitment to Diversity

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The CEC adopted a resolution on April 8, 2015 to firmly commit to:

- Increase participation of women, minority, disabled veteran and LGBT business enterprises in program funding opportunities.
- Increase outreach and participation by disadvantaged communities.
- Increase diversity in participation at CEC proceedings.
- Increase diversity in employment and promotional opportunities.



# Commitment to Diversity (cont.)

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- Fairness – Increase funding accessibility to all Californians.
- Inclusion – Small businesses make up a significant portion of the U.S. economy.
- Job Creation – Projects can create jobs for residents of the under-served communities.
- Diversity of Ideas – Great ideas occur in a variety of areas.
- Diversity in Communities' Needs – Needs vary widely from one area to the next (air quality, socioeconomic, etc.).



# Diversity Survey

- The CEC is committed to ensuring that the Clean Transportation Program reflects the rich and diverse characteristics of California and its people.
- Please tell us the following:
  - Your name
  - Your company
  - How you heard about this workshop
  - Whether your company is in Northern, Central, or Southern CA
- Please email this information to [Esther.Odufuwa@energy.ca.gov](mailto:Esther.Odufuwa@energy.ca.gov).





# Diversity Survey (cont.)

- Additionally, please let us know in your email if you are representing a business that is:
  - A small business,
  - A disabled veteran business,
  - A woman-owned business,
  - A Lesbian-, Gay-, Bisexual-, Transgender-owned business, or
  - A minority-owned business.
- Please list this webinar title in the subject or body of your email:  
*Zero-Emission Transit Fleet Infrastructure Deployment*
- The information supplied will be used for public reporting purposes to display anonymous overall attendance of diverse groups.



# Clean Transportation Program

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- Formerly known as the Alternative and Renewable Fuel and Vehicle Technology Program
- Established by Assembly Bill 118 (Nunez, 2007)
- Provides up to \$100 million per year in funds
- Extended to January 1, 2024 by Assembly Bill 8 (Perea 2013)



# Clean Transportation Program

*“...to develop and deploy innovative technologies that transform California’s fuel and vehicle types to help attain the state’s climate change policies.”*

- California Health and Safety Code 44272(a)

Complementary goals:

- Improve air quality
- Investments in low-income and disadvantaged communities
- Promote economic development
- Increase alternative fuel use
- Reduce petroleum dependence



# MD/HD ZEV Infrastructure Funding

Funding Source	Available Funds
FY 18/19 - Advanced Freight & Fleet Technologies category	\$17.5 million
FY 19/20 - Advanced Freight & Fleet Technologies category	\$30 million
FY 18/19 - EV Charging Infrastructure category	\$6 million
<b>Total Funding Currently Available</b>	<b>\$53.5 million</b>



# MD/HD ZEV Infrastructure Funding (cont.)

Concept	Title	Funding Amount	Concept Workshop
1	Zero-Emission Vehicle (ZEV) Infrastructure Deployment for Advanced Freight Vehicle Demonstrations	\$20 million	TBD
2	ZEV Infrastructure Deployment for Transit Fleets	\$20 million	April 10, 2020
3	Zero-Emission Blueprint for MD/HD Vehicles and Infrastructure	\$3 million	April 2, 2020
4	Hydrogen Fuel Cell Demonstrations in Rail and Marine Applications at Ports	\$6 million	October 2019
5	Innovative Charging Solutions	\$4.5 million*	May 2020
6	Block Grant for MD/HD ZEV Refueling Infrastructure Incentive Projects	\$50 million**	April 2, 2020
	<b>Total Funding Currently Available</b>	<b>\$53.5 million</b>	

\*\$6M will be added to this concept for light-duty applications.

\*\*Funding is contingent upon future appropriations and Clean Transportation Program Investment Plan funding allocations.



# Solicitation Information

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- Solicitation purpose and funding
- Eligible applicants, project requirements, and project costs
- Match funds
- Evaluation criteria and process





# Purpose

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- To develop or expand zero-emission electric vehicle (EV) charging and/or hydrogen refueling infrastructure to support the roll-out of MD/HD zero-emission transit bus fleets.
- The goal is to fund the infrastructure for 1-2 large-scale transit projects, for transit fleets converting at least 50 buses.



# Available Funding

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- \$20 million is available for this solicitation to fund the zero-emission fueling infrastructure for transit bus fleets.
- Projects are eligible for up to 50% of the total project costs.



# Funding Categories

Category	Maximum Award Amount
Conversion of a fleet with a fixed route or a full fleet of at least 50 buses	Up to \$10 million
Conversion of full fleet of at least 100 buses	Up to \$20 million
Conversion of more than one fleet of at least 100 buses with shared major corridor/shared use of infrastructure	Up to \$20 million



# Eligible Applicants

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- All California public transit agencies.



# Project Requirements

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- New or upgrades to existing EV charging and/or hydrogen refueling infrastructure for battery electric and/or hydrogen fuel cell transit vehicles.
- All infrastructure must be utilized by transit vehicles.
- 12 months of data collection on deployed infrastructure.
- Hydrogen infrastructure is limited to private-access stations only.



# Project Requirements (cont.)

- Projects covered by this solicitation will support air quality improvements in disadvantages communities (DACs), low-income communities, priority populations, and/or tribal lands to the maximum extent possible.
- DACs are defined as communities scoring in the top 25<sup>th</sup> percentile according to the most recent California Communities Environmental Health Screening Tool 3.0 (CalEnviroScreen).

<http://www.calepa.ca.gov/EnvJustice/GHGInvest/>





# Match Funds

- Minimum of 50% match share of the total eligible project costs.
- Applicants that do not meet the minimum match share requirement will be disqualified.
- Match can be cash or in-kind.
- Funding from other non-state government agencies may be used as match share.



# Eligible Project Costs

- Electric vehicle supply equipment (EVSE)
- Transformers
- Electric panels
- Energy storage equipment
- Photovoltaic solar panels separately metered for electric charging
- Installation costs
- Utility service upgrades (costs covered by utility are excluded)
- Planning and engineering design costs (costs covered by utility are excluded)
- Network agreement with network provider
- Extended warranties
- Stub-outs
- Demand management equipment
- Overhead catenary or gantry system



# Eligible Project Costs (cont.)

For Hydrogen Refueling Infrastructure:

- Compressors
- Dispenser with H35 or H70 hose and nozzles
- High pressure hydrogen storage tubes
- Facility upgrades
- Onsite hydrogen production
- Shipping
- Installation
- Commissioning



# Evaluation Criteria

Scoring Criteria	Points
Team Experience and Qualifications	10
Project Implementation	25
Project Budget	15
Environmental and Economic Benefits	30
Innovation	20
<b>Total Possible Points</b>	<b>100</b>
<b>Minimum Points Required To Be Eligible For Funding</b>	<b>70</b>



# Tie-breakers

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Ties, if any, will be broken in the following order:

- Proposal with highest Environmental and Economic Benefits score will be ranked higher.
- If still tied, proposal with highest Project Implementation score will be ranked higher.
- If still tied, an objective tie-breaker will be utilized.



# Project Selection and Award

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- Competitive grant application process.
- Must pass administrative and technical screening.
- Must achieve a minimum score of at least 70% (70 of 100 points).
- Applications will be ranked according to final overall score.
- Results will be released through a published Notice of Proposed Award (NOPA).
- CEC will finalize agreement documents.
- Agreement(s) will be presented at a CEC Business Meeting for approval.





# Proposed Schedule

Activity	Action Date (Tentative)
Pre-Solicitation Workshop	April 10, 2020
Solicitation Release	June 2020
Deadline to Submit Applications	August 2020
Anticipated Notice of Proposed Awards Posting	October 2020
Anticipated CEC Business Meeting Approval	December 2020
Agreement Execution	January 2021

**Applications are not being accepted at this time.**



# Discussion Questions

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- What is missing from this concept that should be included?



# Public Comments

## Docket #:19-TRAN-02

- Submit comments via the CEC E-Commenting System:

<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=19-TRAN-02>

- Email Docket Unit: [DOCKET@energy.ca.gov](mailto:DOCKET@energy.ca.gov)

Reference "*Zero-Emission Transit Fleet Infrastructure Deployment*" in the subject line.

**All comments due by 5:00 p.m. on Friday, April 24, 2020.**



# List Serv Notifications

Subscribe to Transportation Energy List Servers to receive updates on the Clean Transportation Program and upcoming solicitations:

[https://ww2.energy.ca.gov/listservers/index\\_cms.html](https://ww2.energy.ca.gov/listservers/index_cms.html)

## TRANSPORTATION ENERGY LISTS

- transportation** - General Transportation and Petroleum Issues
- altfuels** - Clean Transportation Program
- bioenergy** - Bioenergy Action Plan
- calevip** - California Electric Vehicle Infrastructure Project (CALeVIP)
- lowcarbonfuels** - Low Carbon Fuels Production Program
- schoolbusprogram** - School Bus Replacement Program
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- vgi\_communications** - California Vehicle-Grid Integration Roadmap Update
- fuelswatch** - Weekly Fuels Watch Report
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- petroleum\_watch** - Monthly California Petroleum Watch (Analysis) Newsletter



# Staff Contact Information

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Esther Odufuwa

[Esther.Odufuwa@energy.ca.gov](mailto:Esther.Odufuwa@energy.ca.gov)

(916) 654-3915



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# Q&A / Public Comments

- Q&A box questions
- Chat box questions
- Raise hand feature for those online

Email or call the Public Advisor's Office @:

[PublicAdvisor@energy.ca.gov](mailto:PublicAdvisor@energy.ca.gov)

Or call (916) 654-4489

Toll free at (800) 822-6228.



**Thank you for participating remotely!**