

DOCKETED

Docket Number:	20-TRAN-04
Project Title:	Electric Vehicle Infrastructure Project Funding
TN #:	240736
Document Title:	Clean Transportation Program Funding 101 Workshop Presentation
Description:	N/A
Filer:	Spencer Kelley
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	11/30/2021 9:53:31 AM
Docketed Date:	11/30/2021



Clean Transportation Program Funding 101 Workshop

Fuels and Transportation Division
December 2, 2021 | 10:00 am



Workshop Agenda

- 10:00 am Welcome and Introductions
- Housekeeping
 - Commitment to Diversity
 - Clean Transportation Program Background
 - CEC Investment Plan Background/Process
 - How to Apply/Participate
 - Resources
 - Q&A and Public Comment



Housekeeping

- Workshop is being recorded and will also be available on YouTube
- Workshop Event Webpage:
<https://www.energy.ca.gov/events>
- Virtual Participation through Zoom
 - Q&A period after the main presentation
 - Raise Hand or Q&A feature
- Written Comments to Docket # 20-TRAN-04:
<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-TRAN-04>

Deadline: Tuesday, December 21, 2021 by 5:00 PM



Commitment to Diversity

The CEC adopted a resolution strengthening its commitment to diversity in our funding programs. The CEC continues to encourage disadvantaged and underrepresented businesses and communities to engage in and benefit from our many programs.

To meet this commitment, CEC staff conducts outreach efforts and activities to:

- Engage with disadvantaged and underrepresented groups throughout the state;
- Notify potential new applicants about the CEC's funding opportunities;
- Assist applicants to understand how to apply for funding from CEC's programs;
- Survey participants to measure progress in diversity outreach efforts.



Diversity Survey



Scan the code on a phone or tablet with a QR reader to access the survey.

One Minute Survey

The information supplied will be used for public reporting purposes to display anonymous overall attendance of diverse groups.

Zoom Participants, please use the link in the chat to access the survey or scan the QR code on the left of the screen with a phone or tablet to access the survey.

Survey will be closed at the end of the day.

Survey Link: <https://forms.office.com/Pages/ResponsePage.aspx?id=RBI6rPQT9k6NG7qicUgZTiK5n71Bj-xKonSFbzOHxQpURDdSMTNRRjdVTkxLVFlwVkwYnJAxUlc5MS4u>



Background





Clean Transportation Program Origins in Statute



- Established by Assembly Bill 118 (Nunez, 2007)
- Provides up to \$100 million per year
- Extended to January 1, 2024 by Assembly Bill 8 (Perea, 2013)



Purpose of the Clean Transportation Program

Provides approximately \$95 M of funding per year through the end of 2023

"...to develop and deploy innovative technologies that transform California's fuel and vehicle types to help attain the state's climate change policies."

Complementary goals:

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



Purpose of the Investment Plan

- Guides the Clean Transportation Program's investments toward meeting the state's clean transportation goals
- Takes into consideration state regulations and other funding programs to promote coordination across agencies
- Allocates funding for multiple fuel and vehicle technologies, transportation sectors, and supporting activities (e.g. workforce development)
- Since 2020, sets multi-year funding allocations to improve consistency and transparency for potential funding partners



Investment Plan Process



2009-2021

Investments Highlights

51%

Funding located in disadvantaged or low-income communities

\$734M

Matched Funding

20,000

Trainees

15,154

EV Chargers

3,152

Natural Gas Trucks

70

Natural Gas Fueling Stations

83

Hydrogen Fueling Stations

27

Manufacturing Facilities

Context Setting: Climate & Air Quality

Legislation & Executive Orders are steering the state toward zero-emission transportation

Target	Description
Climate	2030: 40% GHG reduction in economy 2030: 20% GHG reduction in transportation fuels 2045: Net zero carbon economy
Air Quality	2031: 80% reduction in smog-forming NOx

Zero Emission Vehicles (ZEVs) are essential to achieving goals!

Context Setting: ZEV Goals

Category	Description
Light Duty Vehicles	<ul style="list-style-type: none">- 2025: 1.5M ZEVs- 2030: 5M ZEVs- 2035: 100% of New Sales are ZEVs (E.O. N-79-20)
Charging and Refueling Infrastructure	<ul style="list-style-type: none">- 2025: 250,000 Chargers (inc. 10,000 DC Fast Chargers)- 2025: 200 Hydrogen Refueling Stations
Medium- and Heavy-Duty Vehicles	<ul style="list-style-type: none">- 2029: 100% of New Transit Bus Purchases are ZEVs- 2035: 100% of All Off-Road Vehicles and Equipment are ZEVs (E.O. N-79-20)- 2035: 100% of All Drayage Trucks are ZEVs (E.O. N-79-20)- 2045: 100% of All Trucks and Buses are ZEVs (E.O. N-79-20)



Informing the Investment Plan

- *AB 2127 Electric Vehicle Charging Infrastructure Assessment-Analyzing Charging Needs to Support Zero-Emission Vehicles in 2030*
 - Commission Report published on July 14, 2021
- *SB 1000 Electric Vehicle Charging Infrastructure Deployment Assessment*
 - First report published in December 2020
 - Second report expected in January 2022
- Consulting with the Disadvantaged Communities Advisory Group
- **Adjusting for General Fund augmentations from Budget Act of 2021**
 - \$3.9 billion for ZEV-related investments across agencies
 - \$1.165 billion to be administered by CEC
 - Some allocations are targeted, others allow more discretion

General Funds from ZEV Package

to be Administered by the CEC



\$250 million - for zero-emission drayage trucks

\$25 million - for drayage truck and infrastructure pilot



\$90 million - for transit buses

\$50 million - for school buses



\$250 million - for ZEV manufacturing grants

\$500 million - for ZEV infrastructure

\$785 million appropriated in Budget Act of 2021;

\$380 million anticipated in FY 2022-23 and 2023-24

The budget prioritizes diesel emission reduction by earmarking funding to replace

↓ **1,125 Drayage Trucks**

↓ **1,000 School Buses**

↓ **1,000 Transit Buses**

with zero-emission alternatives and refueling infrastructure

And to accelerate **charging** and **hydrogen refueling** stations and promote ZEV-related **manufacturing**

2021-2023 Zero-Emission Investments Funding Prioritizes



\$314M

Light-Duty Electric Vehicle
Charging Infrastructure
and eMobility



\$690M

Medium and Heavy-Duty
Zero-Emission Vehicles
and Infrastructure

(battery-electric and hydrogen fuel cell)



\$77M

Hydrogen Refueling
Infrastructure



\$25M

Zero and Near Zero Carbon
Fuel Production and Supply



\$243.8M

ZEV Manufacturing



\$15M

Workforce
Development

Total Clean Transportation
Program (CTP) funding:

\$238M



Total General Funding
(administered through CTP):

\$1.127B

Total Funding

\$1.365B

Combined Clean Transportation Program and General Fund Allocations in the Lead Commissioner Report

Clean Transportation Program + General Fund

Category	Funded Activity	2021-2022	2022-2023*	2023-2024*
Zero-Emission Vehicles and Infrastructure	Light-Duty Electric Vehicle Charging Infrastructure and eMobility	\$270.1	\$30.1	\$13.8
Zero-Emission Vehicles and Infrastructure	Medium- and Heavy-Duty Zero-Emission Vehicles and Infrastructure (battery-electric and hydrogen fuel cells)	\$391.35	\$160.1	\$138.8
Zero-Emission Vehicles and Infrastructure	Hydrogen Fueling Infrastructure	\$47	\$20	\$10
Alternative Fuel Production and Supply	Zero- and Near Zero-Carbon Fuel Production and Supply	\$10	\$10	\$5
Related Needs and Opportunities	Manufacturing	\$118.75	\$125	-
Related Needs and Opportunities	Workforce Training and Development	\$5	\$5	\$5
	Total	\$842.2	\$350.2	\$172.6

*Subject to appropriation by the Legislature



2020 Natural Gas Research & Development Program

ANNUAL REPORT

July 1, 2019 – June 30, 2020

*Promoting decarbonization, lower costs,
and increased safety for California*

Research and Programs Administered by CEC

Electricity R&D Program (~\$130M/yr)

Advancing technologies to benefit electricity ratepayers

Transportation one of many technology focus areas

Authorized by CPUC through 2030

Natural Gas R&D Program (\$24M/yr)

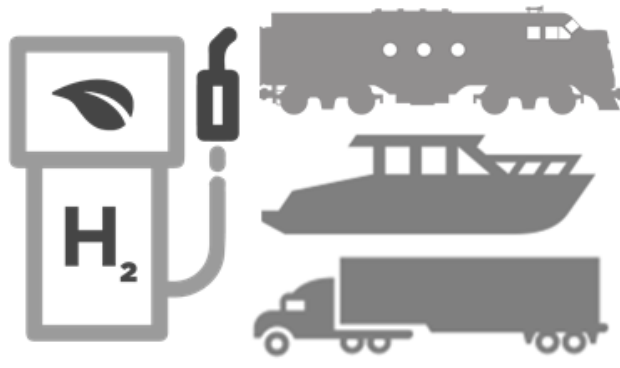
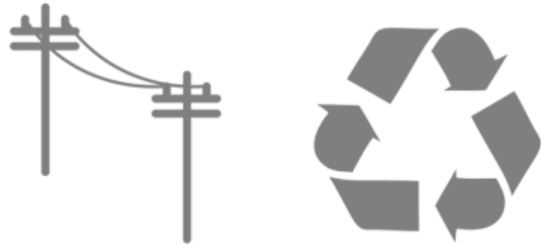
Advancing technologies to benefit natural gas ratepayers

Transportation one of many technology focus areas

Approved annually by CPUC



Recent Transportation Priorities in EPIC and NG Programs



EPIC Program

- Using plug-in electric vehicles as distributed energy resources (DERs)
- Integrating other DERs for grid-friendly charging
- Enabling efficient transportation electrification
- Re-using and recycling lithium-ion batteries

Natural Gas R&D Program

- Decarbonizing challenging heavy transport (e.g., trucks, rail, marine) with hydrogen fuel cells
- Advancing novel hydrogen production and infrastructure technologies



Public Participation





Public Participation

- [Opportunities for Public Participation](#)
- (<https://www.energy.ca.gov/about/opportunities-public-participation>)

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Opportunities for Public Participation

In accordance with the [Government Modernization, Efficiency, Accountability, and Transparency Act of 2005](#) (Figueroa, Chapter 686, Statutes of 2005), the California Energy Commission provides the customer service links for frequently asked questions, forms, and applications, and instructions for filling out complaints.

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 - [List Servers \(https://ww2.energy.ca.gov/listservers/index cms.html\)](https://ww2.energy.ca.gov/listservers/index cms.html)



Public Participation: Workshops

Notices of All Public Meetings and Agendas



All public meeting notices and associated agendas are posted on the website. Please [check the calendar](#) for more information. The Energy Commission takes formal actions at its business meetings. Agendas for each meeting are on the [Business Meetings page](#).

- Calendar link takes you to [CEC Events Page](#)
- [Business Meetings Page \(https://www.energy.ca.gov/proceedings/business-meetings\)](https://www.energy.ca.gov/proceedings/business-meetings)



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Docket Log

Docket: 20-TRAN-04

Project Title: Electric Vehicle Infrastructure Project Funding

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Docket Log

Include: Documents Comments Transcripts

↓ TN #	Docketed Date	Document Title	Exhibit #	To	From
239927	10/1/2021	Nissan North America Comments - Nissan Response 3 page(s)		CEC/Docket Unit	Nissan North America
238953	7/21/2021	CalETC's Comments on Draft Concepts for EV Charging in MUD and Rural Areas 4 page(s)		CEC/Docket Unit	CalETC
238947	7/21/2021	EVSE LLC Comments on Draft Concepts EV Charging for Multi-unit Dwelling Residents 1 page(s)		CEC/Docket Unit	EVSE LLC
238856	7/13/2021	Acterra Comments - Acterra Public Comment 2 page(s)		CEC/Docket Unit	Acterra



Add Comment

Docket #: 20-TRAN-04 Project Title: Electric Vehicle Infrastructure Project Funding

Fields denoted by an asterisk (*) are required.

Docket Entry

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The Energy Commission uses the list serves to announce and distribute information on topics including programs, projects, and workshops. The Energy Commission also hosts general topic area discussions. The items below are linked to the respective program areas.

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- [ocae](#) - Compliance Assistance and Enforcement, Office of
- [diversity](#) - Diversity Outreach Program
- [diversitytaskforce](#) - Diversity Task Force
- [education](#) - Energy Education / Energy Quest Website
- [emergency](#) - Energy Emergencies in California & Contingency Planning
- [energypolicy](#) - Integrated Energy Policy Report
- [epic](#) - Electric Program Investment Charge (EPIC) Program
- [ghgimpacts](#) - Greenhouse Gas Emission Impacts of Power Plants
- [newsreleases](#) - Commission News Releases
- [opportunity](#) - RFPs, solicitations, contracts, funding announcements (these items only)



Funding Opportunities





Funding Opportunities- Block Grants

➤ CALeVIP

- California Electric Vehicle Infrastructure Project (<https://calevip.org/>)



➤ EnergIZE

- Energy Infrastructure Incentives for Zero-Emission Commercial Vehicles



Funding Opportunities-Competitive Solicitations

Funding opportunities are available on the [CEC Solicitations Page](https://www.energy.ca.gov/funding-opportunities/solicitations) (<https://www.energy.ca.gov/funding-opportunities/solicitations>)

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California Energy Commission > Funding > **Solicitations**

Solicitations









Information about funding opportunities that the California Energy Commission offers that advance the state's transition to clean energy and transportation through innovation, efficiency, and the development and deployment of advanced technologies.

- FUNDING**
- Solicitations**
- Awards



Solicitation Attachments

SOLICITATION FILES

-  [00_GFO-21-601_CARTS_Solicitation_Manual_Addendum_03_ADA.docx](#)
-  [01_GFO-21-601_Application_Form_ADA.docx](#)
-  [02_Scope_of_Work_ADA.docx](#)
-  [03_GFO-21-601_Scope_of_Work_Instructions_ADA.docx](#)
-  [04_GFO-21-601_Schedule_of_Products_and_Due_Dates.xlsx](#)
-  [05_GFO-21-601_Budget_Form_ADA.xlsx](#)
-  [06_GFO-21-601_Contact_List_ADA.docx](#)
-  [07_GFO-21-601_CEQA_Worksheet_ADA.docx](#)



Funding Opportunities- Competitive Solicitations

Key solicitation manual areas

- Purpose of Solicitation
- Eligibility
- Site Types
- Equipment Requirements
- Project Requirements Section
- **Project Narrative**
- Technical Screening Criteria
- Evaluation Criteria

A pre-application workshop specific to the solicitation will review these items in depth



Funding Opportunities- Competitive Solicitations

Key solicitation manual areas

- Key Dates
- Pre-Application Workshop
- Questions and Answers
- Communication through Contracts, Grants, and Loans



Scoring Process

- Each proposal is evaluated based on the Evaluation Criteria listed in a solicitation's specific manual
- Each Evaluation Criteria has a point number associated which will coincide with a percentage
 - Rubric available in the solicitation manual
- Scoring teams evaluate each proposal independent of one another
- CEC staff cannot discuss proposals outside of team meetings with staff or with applicants



Match Funding (Solicitations Released before Dec. 31, 2021)

Total Project Costs (Including CEC Award)	Maximum Request for CEC Funding	Minimum Match Share
\$1,000,000	\$750,000	\$250,000

EXAMPLE

An Applicant requests \$750,000 for a project

Minimum Match Share: 25% of total allowable project costs

Total project costs = \$750k + \$250k = \$1 million

Match share contribution = \$250k / \$1M = 25%



Match Funding (Solicitations Released after Jan. 1, 2022)

Total Project Costs (Including CEC Award)	Maximum Request for CEC Funding	Minimum Match Share
\$1,000,000	\$800,000	\$200,000

EXAMPLE

An Applicant requests \$800,000 for a project

Minimum Match Share: 25% of CEC Reimbursable

Match share contribution = \$800k * 0.25 = \$200,000



Grant Solicitation System

- GSS Tutorial at [Grant Solicitation System- How to Apply](https://www.energy.ca.gov/media/1654) (<https://www.energy.ca.gov/media/1654>)
- Register as a new user as soon as possible
- Refer to the solicitation manual for required application documents and submission deadline time and date
- Three Step Application Process
 1. Select Solicitation
 2. Upload Files
 - File Size Maximum Limit is 50MB
 - File Name Maximum Limit is 64 characters
 3. Review and Submit
 - Must be complete **BEFORE** the submission deadline and time



Notice of Proposed Awards (NOPA)

- The results of a proposal evaluation will be posted in a NOPA and will include the recommended funding level and the rank order of applicants
- CEC Staff will contact proposed awardees to develop grant agreements and subsequently bring before Commissioners at a CEC Business Meeting



Resources





Resources

- [Grants Ombudsman](https://www.energy.ca.gov/funding-opportunities/grants-ombudsman) (<https://www.energy.ca.gov/funding-opportunities/grants-ombudsman>)
- [ECAMS Resource Page](https://www.energy.ca.gov/funding-opportunities/funding-resources/ecams-resources) (<https://www.energy.ca.gov/funding-opportunities/funding-resources/ecams-resources>)
- [Solicitations](https://www.energy.ca.gov/funding-opportunities/solicitations) (<https://www.energy.ca.gov/funding-opportunities/solicitations>)
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(<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-TRAN-04>)
- [Grant Solicitation System- How to Apply](https://www.energy.ca.gov/media/1654) (<https://www.energy.ca.gov/media/1654>)
- [Energy Commission's Energy Research and Development](https://www.energy.ca.gov/about/divisions-and-offices/energy-research-and-development-division) (<https://www.energy.ca.gov/about/divisions-and-offices/energy-research-and-development-division>)
- [Empower Innovation](https://www.empowerinnovation.net/) (<https://www.empowerinnovation.net/>)



Find a Partner on EmpowerInnovation.net

Empower Innovation strives to accelerate your clean tech journey with easy access to funding opportunities from the CEC and other funding providers, curated resources and events, and connections to people and organizations.

FIND A PARTNER

Announce your interest in this funding opportunity and message other interested parties to find potential partners.

RESOURCES & TOOLS

Browse the collection of resources for clean tech innovators including Resource Libraries, Funding Sources, Tools, and Databases.

Please direct questions for the Empower Innovation platform to:
https://www.empowerinnovation.net/en/contact_us

Public Comment/Discussion Period

Zoom Participants

- Use the “raise hand” feature to make verbal comments
- Use the Q&A feature to type in your question

Telephone Participants:

- Dial *9 to raise your hand
- Dial *6 to mute/unmute your phone line.

Written Comments

<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-TRAN-04>

Deadline for comment: Tuesday, December 21, 2021 by 5:00 pm.

Submit Comments to Docket 20-TRAN-04

Electronic Commenting System

Visit the comment page for this docket at:

<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-TRAN-04>

Comment by E-mail

E-mail: docket@energy.ca.gov

Subject Line: "20-TRAN-04 CTP Funding 101"

All comments due by 5:00 pm on December 21, 2021



Thank you for participating remotely.