

**DOCKETED**

<b>Docket Number:</b>	20-TRAN-04
<b>Project Title:</b>	Electric Vehicle Infrastructure Project Funding
<b>TN #:</b>	240748
<b>Document Title:</b>	Presentation - Clean Transportation Program Funding 101 Workshop
<b>Description:</b>	*** This Document Supersedes TN 240736 ***
<b>Filer:</b>	Spencer Kelley
<b>Organization:</b>	California Energy Commission
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<b>Submission Date:</b>	12/1/2021 1:56:54 PM
<b>Docketed Date:</b>	12/1/2021



# Clean Transportation Program Funding 101 Workshop

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



# Workshop Agenda

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- 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

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- 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

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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>

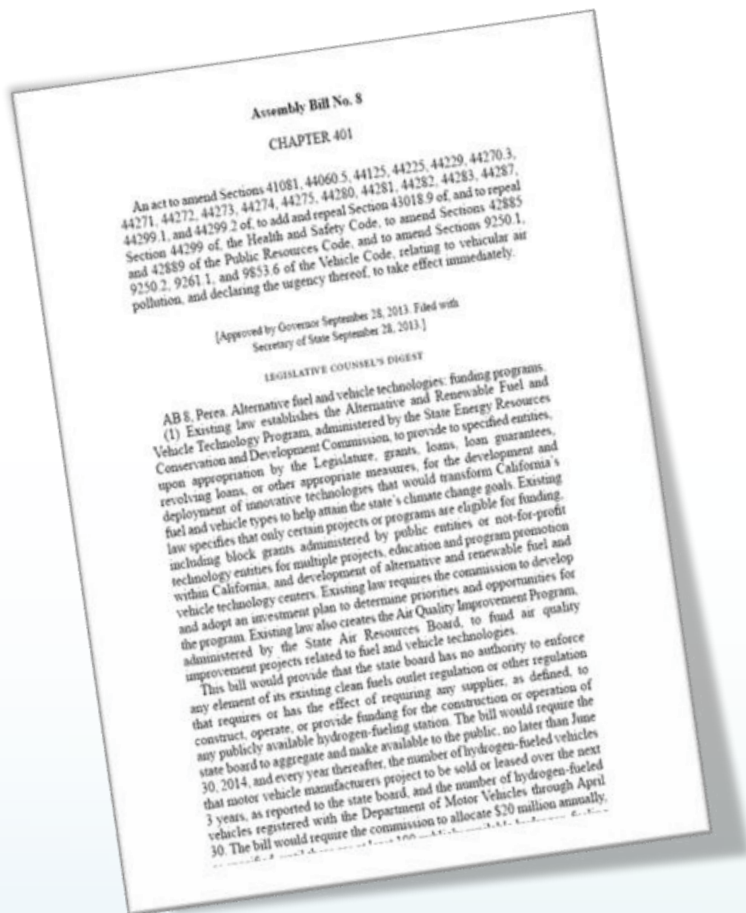


# Background





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



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

\*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 Research and Development 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)

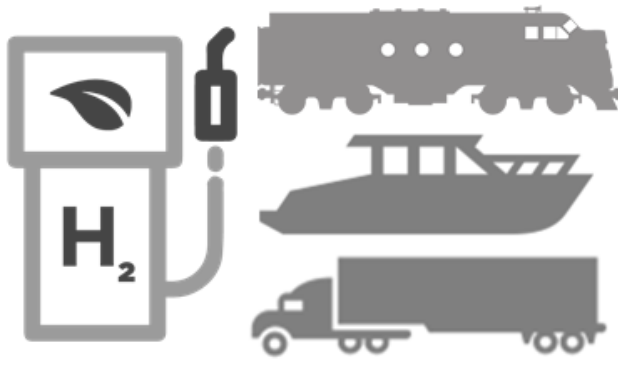
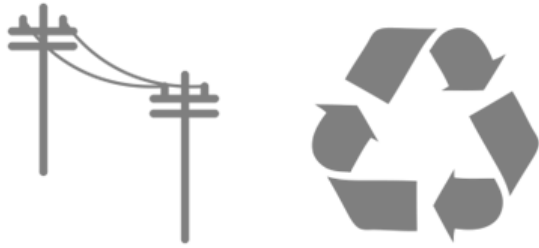
Advancing technologies to benefit natural gas ratepayers

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>)

The screenshot shows the California Energy Commission website. At the top, there is a navigation bar with social media icons and a search bar. Below the navigation bar, the main content area features a large banner image of a man speaking at a microphone, with the text "Opportunities for Public Participation" overlaid in a blue box. Below the banner, there is a paragraph of text explaining the commission's commitment to public participation. To the right of the main content, there is a green sidebar menu with the following items: "PROCEEDINGS", "Active Proceedings", "Business Meetings", "Dockets", "E-Filing and E-Commenting", "Opportunities for Public Participation" (highlighted), and "Siting Cases". At the bottom of the main content area, there are two expandable sections: "Notices of All Public Meetings and Agendas" and "Email List serves for Proceedings", both with plus signs to their right.

CA.GOV Share: f t in e

STATE OF CALIFORNIA ENERGY COMMISSION

Enter keywords, e.g. Tracking Progress

HOME PROCEEDINGS RULES AND REGULATIONS PROGRAMS AND TOPICS FUNDING DATA AND REPORTS SHOWCA

California Energy Commission > Proceedings > Opportunities for Public Participation

## 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.

Expand All

Notices of All Public Meetings and Agendas	+
Email List serves for Proceedings	+

**PROCEEDINGS**

- Active Proceedings
- Business Meetings
- Dockets
- E-Filing and E-Commenting
- Opportunities for Public Participation**
- Siting Cases



# Public Participation

- Workshops
  - [Events \(https://www.energy.ca.gov/events\)](https://www.energy.ca.gov/events)
- Dockets
  - [Dockets \(https://www.energy.ca.gov/proceedings/dockets\)](https://www.energy.ca.gov/proceedings/dockets)
- List Serves
  - [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)





# California Energy Commission Dockets

Energy Commission Dockets | [Energy Commission Power Plant Dockets](#)

Sign up for the project email lists to receive updated information via the project page or our [main List Servers sign-up page](#).

**Ordered alphabetically by Title. Filter results with search field by entering a portion of Title or Docket Number.**

Show  entries

Search:

Title ▲	Docket Number ▲	List Serve Name ▲
000-155-1751 - 000-155-1752 - 000-155-1753 - 000-155-1754 - 000-155-1755	00-155-001	Activate Win



# Docket Log

Docket: 20-TRAN-04

Project Title: Electric Vehicle Infrastructure Project Funding

Generated On: 11/18/2021 5:37:56 PM

# Docket Log

Include:  Documents  Comments  Transcripts

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

## Contact Information

Full Name \* Business or Entity Name or Your Name (if filing for yourself)

Contact Address

Email Address \*

Address 2

Role in this Proceeding

Public

City

State

CA

Zip

## Comment

Comment Title \*

Invalid characters: ./:\*\<>|

128 Character left out of 128

Subject(s) [select one or more](#)

Choose subject(s)

Comment Text not required if you include a document attachment



# List Servers (Automated Email Groups) Hosted by the California Energy Commission

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.

## Subscribe or Unsubscribe

Subscribe or unsubscribe below:

### TRANSPORTATION ENERGY LISTS

- transportation - General Transportation and Petroleum Issues
- ab2127 - Implementation of AB 2127 Electric Vehicle Charging Infrastructure Assessments (AB 2127)
- altfuels - Clean Transportation Program
- bioenergy - Bioenergy Action Plan
- calevip - California Electric Vehicle Infrastructure Project (CALeVIP)
- energyinfrastructureincentivesforzeroemissioncommercialvehicles/energyinfrastructureincentivesforzeroemissioncommercialvehicles

- newsreleases - Commission News Releases
- opportunity - RFPs, solicitations, contracts, funding announcements (these items only)
- proposition39 - California Clean Energy Jobs Act (Proposition 39)



# List Servers

## COMMISSION GENERAL LISTS

- [agendas](#) - Commission Business Meeting Agendas
- [activeagreements](#) - Active Agreements
- [bioenergy](#) - Bioenergy Action Plan
- [careers](#) - Energy Commission open exams and job opportunities
- [climatechange](#) - Climate Change Issues
- [contingency](#) - Energy Emergency Planning
- [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>)

CA.GOV Share: f t in e About Careers Contact Events Newsroom Resources

CALIFORNIA ENERGY COMMISSION Enter keywords, e.g. Tracking Progress

HOME PROCEEDINGS RULES AND REGULATIONS PROGRAMS AND TOPICS **FUNDING** DATA AND REPORTS SHOWCASE

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

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## SOLICITATION FILES

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-  [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>)
- [Events](https://www.energy.ca.gov/events) (<https://www.energy.ca.gov/events>)
- [CTP Funding 101 Docket for Comment Submission](https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-TRAN-04) (<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/>)
- [Guide to California Regulations for Electric Vehicle Charging Stations](https://calevip.org/sites/default/files/docs/calevip/California_EVCS_Regulations_Guide.pdf) ([calevip.org](https://calevip.org))  
[https://calevip.org/sites/default/files/docs/calevip/California\\_EVCS\\_Regulations\\_Guide.pdf](https://calevip.org/sites/default/files/docs/calevip/California_EVCS_Regulations_Guide.pdf)



# 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](https://www.empowerinnovation.net/en/contact_us)

# Public Comment/Discussion Period

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## 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

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## Electronic Commenting System

Visit the comment page for this docket at:

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

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## Comment by E-mail

E-mail: [docket@energy.ca.gov](mailto: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.**