

DOCKETED

Docket Number:	20-ALT-01
Project Title:	Clean Transportation Workforce and Equity
TN #:	248718
Document Title:	Presentation - Clean Transportation Program Workforce Workshop
Description:	Slide presentation for remote-access workshop to discuss workforce training and development topics, potential funding concepts, and proposed program activities for the CEC's Clean Transportation Program.
Filer:	Jana McKinny
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	2/9/2023 4:12:41 PM
Docketed Date:	2/9/2023



Clean Transportation Program Workforce Workshop

Proposed Funding Ideas, Concepts, and Activities

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Fuels and Transportation Division

February 10, 2023 | 9:00 am



Agenda

Part 1: ZEV and ZEV Infrastructure

1. Welcome and Introductions
2. Clean Transportation Program and Workforce Portfolio
3. Proposed Funding Concepts, Ideas, and Activities
4. Presentations and Panel Discussion
5. Q&A/Public Comment

Part 2: EVITP Assessment and Update

1. Presentations and Panel Discussion
2. Q&A/Public Comment
3. Adjourn



Housekeeping

- Workshop is being recorded
- 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
 - Telephone participants:
 - Dial *9 to raise your hand
 - Dial *6 to mute/unmute your phone line
- Written Comments to Docket # 20-ALT-01:
<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-ALT-01>
Deadline: Friday, February 24, 2023

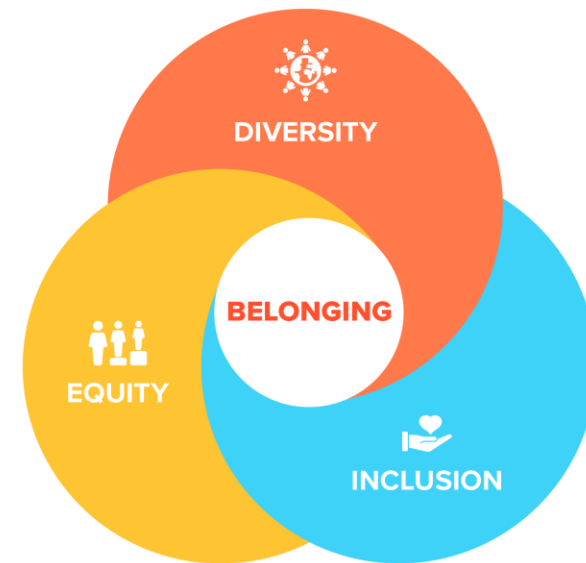


Commitment to Diversity

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/g/TeJZYZe9Jk>



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.

To search for funding opportunities, please go to this link:

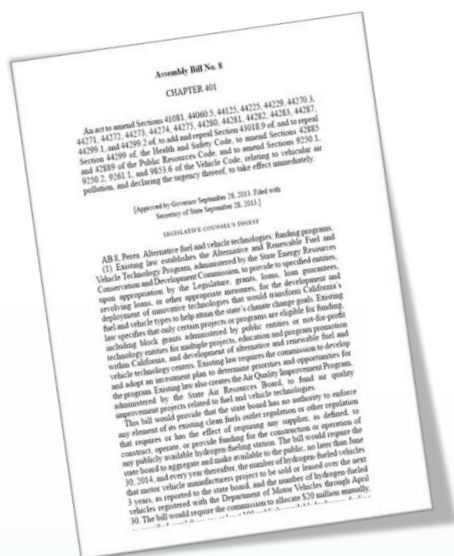
<https://www.empowerinnovation.net/en/custom/funding/directory>

Please direct questions for the Empower Innovation platform to:

https://www.empowerinnovation.net/en/contact_us



Clean Transportation Program

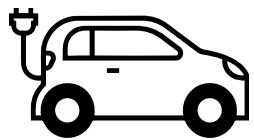


- Transportation sector responsible for significant greenhouse gas emissions and public health impacts.
- Pollution burdens fall disproportionately on vulnerable and disadvantaged communities.
- Clean Transportation Program created to invest in a cleaner, healthier transportation system.
- Provides up to \$100 million per year. Set to expire at end of 2023.
- CEC is seeking program reauthorization and extension to 2035 through the legislative process this year.



2022 – 2026 Total Investments

Total: \$2.9 Billion*

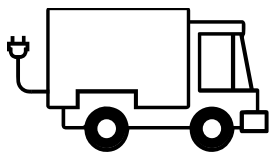


\$900 M

Light-Duty
EV Charging
Infrastructure

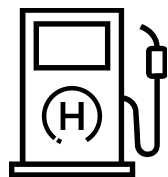
+

\$384 M
NEVI



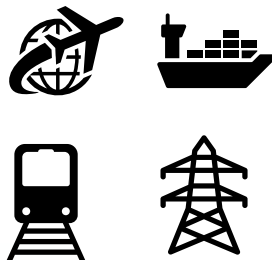
\$1.7 B

Medium- and
Heavy-Duty
ZEV
Infrastructure



\$ 90 M

Hydrogen
Refueling
Infrastructure



\$97 M

Emerging
Opportunities



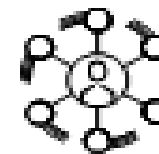
\$15 M

Low Carbon
Fuels



\$118 M

ZEV-Related
Manufacturing



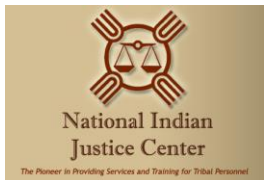
\$10 M

ZEV
Workforce
Development

*Subject to future Budget Act appropriations. Does not reflect reductions for CEC administrative expenses.



Workforce Portfolio



- California Community Colleges
- California Employment Training Panel
- California Public School Districts
- Employment Development Department
- California Workforce Development Board
- California Seaports
- Industry
- Original Equipment Manufacturers
- ZEV Employers





Proposed Funding Ideas, Concepts, and Activities

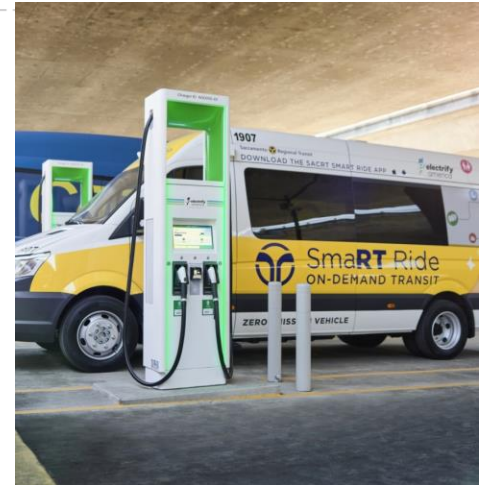


Concept 1: National Electric Vehicle Infrastructure (NEVI) Training

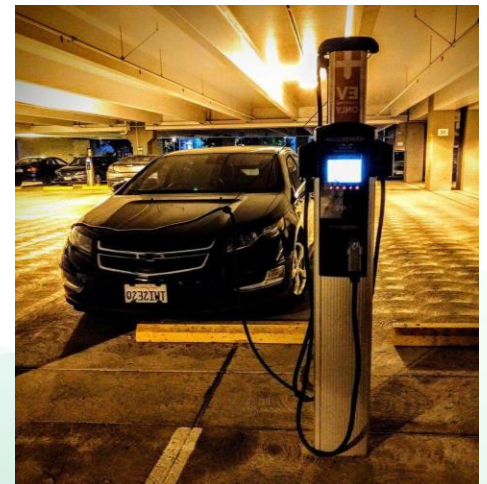
- A trained and available workforce is a consideration in a successful NEVI project delivery and EVSE deployment.

Guiding Questions:

1. What types of training and workforce development activities should be eligible?
2. How can CTP investments leverage existing public, private, and local resources?



Source: Sacramento Area Council of Governments



Source: Newsdata, LLC



Concept 2: Expand the Electric School Bus (ESB) Training Project

- Training for public school fleet technicians and bus operators
- CEC initial investment of \$1 million; 45 schools trained to date

Guiding Questions:

1. How can the ESB training project support state and federal investments in school bus deployments?
2. Is there a need for an online, introductory ESB Training Project for all school bus stakeholders?
3. What partnerships should the CEC cultivate in supporting bus deployments and training?
4. Should funding for the ESB Training Project include train-the-trainers, instructors, and faculty as eligible?



Source: CA Energy Commission



Concept 3: IDEAL Community Workforce Development to Support Reliable Infrastructure

- Maintain high up time and reliability for EV chargers in communities.
- Train local workforces to operate, maintain, and service EV chargers.
- Support priority populations and communities in this work.



Source: AFDC

Guiding Questions:

1. How can local communities' partner with charger OEMs, EV charger developers, site hosts, and others to maintain high reliability?
2. How should funding be distributed to local communities for this training and for workforce development?



Concept 4: Open Workforce Training and Development Concepts

- Open to concepts and ideas not identified in the four (4) concepts proposed by staff.
- All ideas will be considered by staff.



Concept 5: EVITP Partnership Projects

To be addressed in Panel 2.



Panel 1: ZEV Workforce Assessments and Perspectives



Presentations

- Advanced Transportation and Logistics Training Projects (Jannet Malig)
- Evergreen Economics (Jesse Emge)
- ABB e-Mobility Service and Training (Bobby Pillot)



Panel Discussion

Concept 1: National Electric Vehicle Infrastructure (NEVI) Training

1. What types of training and workforce development activities should be eligible?
2. How can CTP investments leverage existing public, private, and local resources?

Concept 2: Expand the Electric School Bus (ESB) Training Project

1. How can the ESB training project support state and federal investments in school bus deployments?
2. Is there a need for an online, introductory, and regular webinar?
3. What partnerships should the CEC cultivate in supporting bus deployments and training?
4. Should funding for the ESB Training Project include train-the-trainers, instructors, and faculty?

Concept 3: IDEAL Community Workforce Development to Support Reliable Infrastructure

1. How can local communities' partner with charger OEMs, EV charger developers, site hosts, and others to maintain high reliability?
2. How should funding be distributed to local communities for this training and for workforce development?

Concept 4: Open to Ideas and Concepts



Q&A and Public Comment

Zoom Participants

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

Telephone Participants:

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Written Comments

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Panel 2: EV Infrastructure Training Program Assessment and Update



Presentations

- South Coast Air Quality Management District (Patricia Kwon)
- Project Development Platform (Ramsay Stevens)
- EVITP (Bernie Kotlier)



EVITP Comments from Stakeholders

- Does EVITP training include ultra-fast charging?
- Does curriculum include EVSE service and maintenance?
- Examination locations are limited and inaccessible.
- We can't find EVITP electricians in rural areas.
- Is EVITP curriculum accessible to non-EVITP examinees?
- An applicant for a state funding incentive program claims that they are exempt from the EVITP requirement because they are a licensed C-10 contractor. True or false?
- Is EVITP training available in Spanish?



Concept 4: EVITP Partnership Projects (Discussion)

Concept 4A: EVITP Training and Certification

- Support electricians for EVITP training and certification with the Employment Training Panel (ETP) and the Workforce Development Board (CWDB).

Concept 4B: Contractor State Licensing Board (CSLB) Surveys of General/Electrical Contractors

- Partner with CSLB in their survey, feedback, and engagement processes to gather feedback and support growth of EVITP certified electricians.

Concept 4C: CEC Survey of Funding Recipients

- Survey recipients of CEC's EVSE solicitations and incentive projects to inform future policies and investments related to EVITP.

Concept 4D: CEC Workforce and EVITP Web Portal

- Present clean transportation workforce information, data, and resources, including EVITP-specific information, EVITP weblinks for training and certification, and EVITP FAQ links on the CTP website.



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Submit Comments to Docket 20-ALT-01

Electronic Commenting System

Visit the comment page for this docket at:

<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-ALT-01>

Comment by E-mail

E-mail: docket@energy.ca.gov

Subject Line: "CTP Workforce"

All comments due by February 24th, 2023



Thank you!