

DOCKETED

Docket Number:	20-TRAN-04
Project Title:	Electric Vehicle Infrastructure Project Funding
TN #:	255063
Document Title:	Presentation of Pre-Solicitation Workshop Rural Electric Vehicle Charging 2
Description:	March 12, 2024 at 10:00 AM
Filer:	Spencer Kelley
Organization:	California Energy Commission
Submitter Role:	Commission Staff
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Docketed Date:	3/14/2024



Pre-Solicitation Workshop

Rural Electric Vehicle Charging 2.0 (REV 2.0)

Fuels and Transportation Division

March 12, 2024 | 10:00 am



Workshop Purpose

Public feedback on a draft grant funding opportunity concept for EV charging infrastructure for rural areas.



Housekeeping

- Workshop is being recorded
- Slides and recording will be posted on the Event page:
<https://www.energy.ca.gov/event/workshop/2024-03/pre-solicitation-workshop-rural-electric-vehicle-charging-20-rev-20>
- Virtual Participation through Zoom
 - Raise Hand or Q&A feature
 - Telephone participants dial *9 to raise your hand
- Written Comments to Docket # 20-TRAN-04:
<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-TRAN-04>
Deadline: April 9, 2024, at 5:00 p.m.



Workshop Agenda

- Welcome and Introductions
 - Diversity Survey
 - Empower Innovation
 - Clean Transportation Program
- Overview of REV 2.0 Concepts
 - Purpose
 - Rural and Applicant Eligibility
 - Project Requirements
 - Data Collection and Reliability
 - Project Evaluation
 - Discussion Questions and Commenting Period
- Public Comments
- Next Steps
- Adjourn





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 in understanding how to apply for funding from the 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/kEUAsSsYGW): <https://forms.office.com/g/kEUAsSsYGW>



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

- Established in 2007 by Assembly Bill 118 (2007)
- Extended to July 1, 2035, by Assembly Bill 126 (2023)
- Provides approximately \$100 million of funding per year through 2035
- Investment Plan determines funding allocations across various categories
- Supports workforce training and development



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Light-Duty EV Charging Projects

- Commitment to equity across all project areas
- 2023 - 2024 Allocations
 - CALeVIP/CALeVIP 2.0
 - Government Fleets
 - National Electric Vehicle Infrastructure (NEVI)
 - Community Charging in Urban Area
 - *Reliable, Equitable, and Accessible Charging for multi-family Housing (REACH 3.0)**
 - *Fast and Available Charging for All Californians (FAST 2.0)**
 - **Rural Electric Vehicle Charging 2.0 (REV 2.0)**

**tentative*



Purpose of Proposed Solicitation

Goals:

- Provide convenient, reliable charging for rural residents and people traveling through rural communities
- Increase EV adoption in rural areas, especially those from low-income or disadvantaged communities
- Demonstrate replicable and scalable business and technology models that can drive EV charging stations to serve rural EV drivers

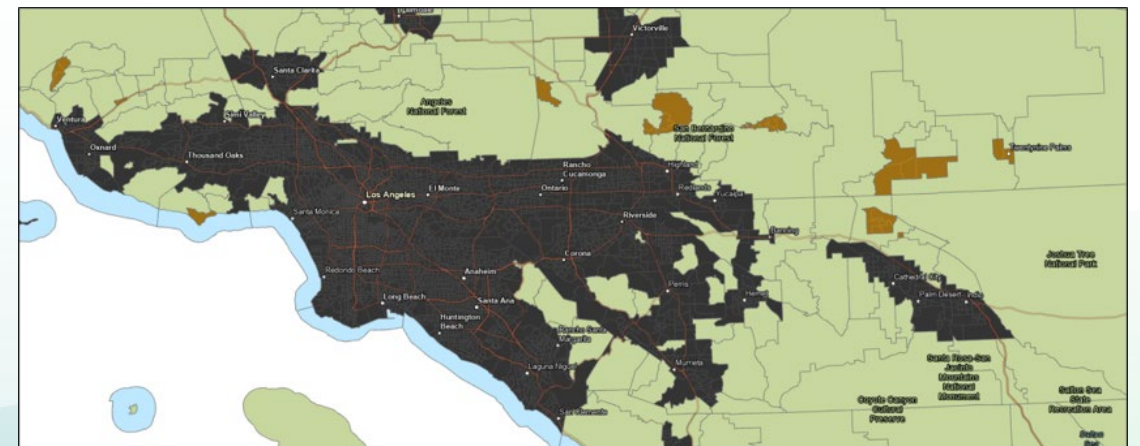
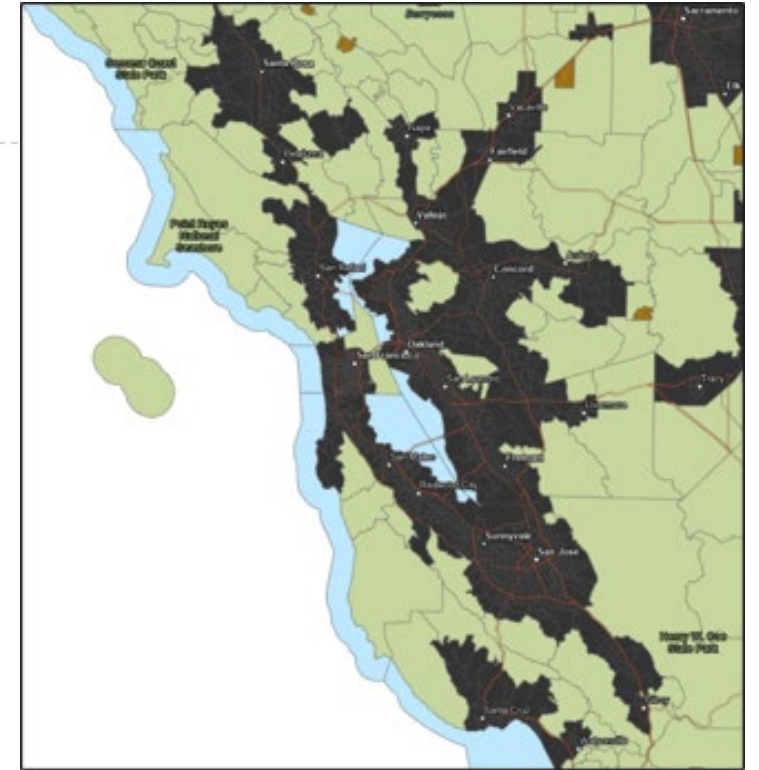
Scope:

Seek projects that install light-duty charging infrastructure in rural communities



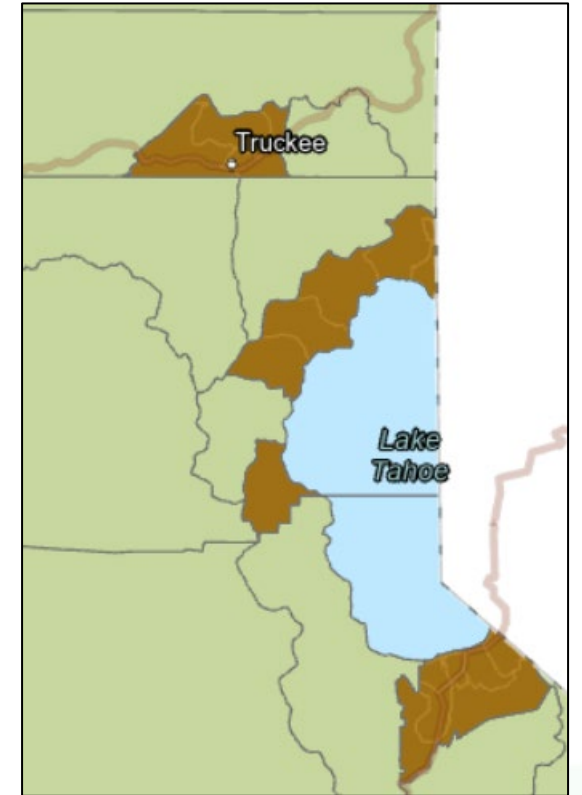
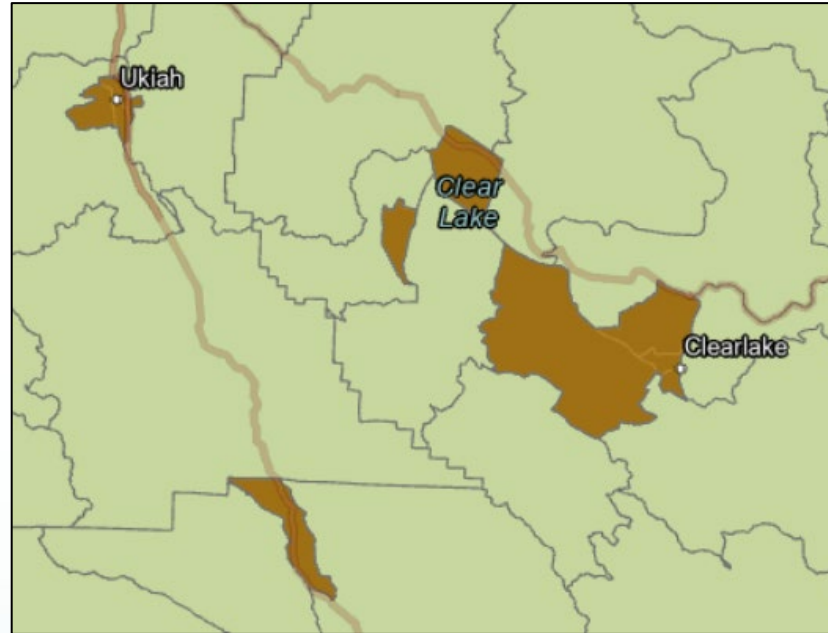
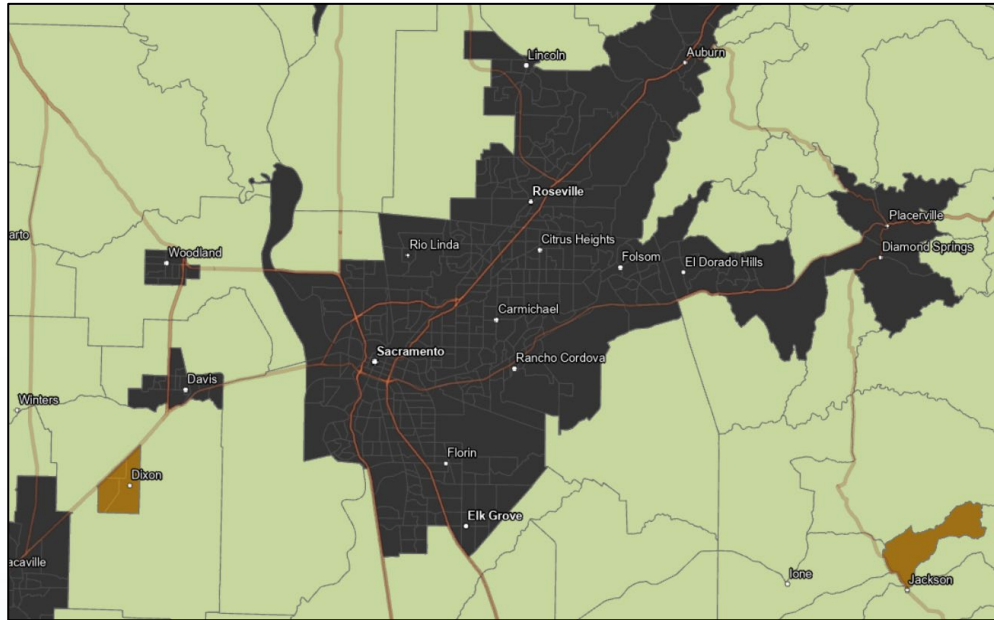
Proposed Rural Eligibility

- Utilizing Census Bureau classification and work CEC has done with SB 1000 and UC Davis
- Ineligible:
 - Urban - contiguous urban tracts with a population of 50,000 or more
- Eligible
 - Rural center - contiguous urban tracts with a population of less than 50,000
 - Rural - all other tracts
- CEC will publish a mapping tool





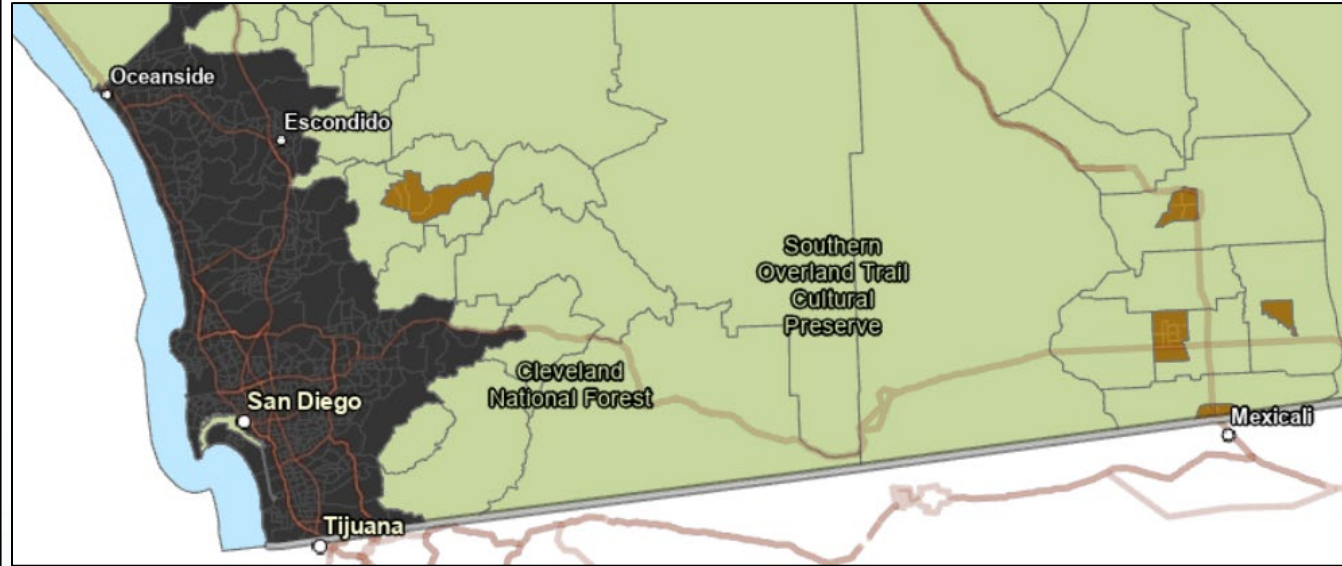
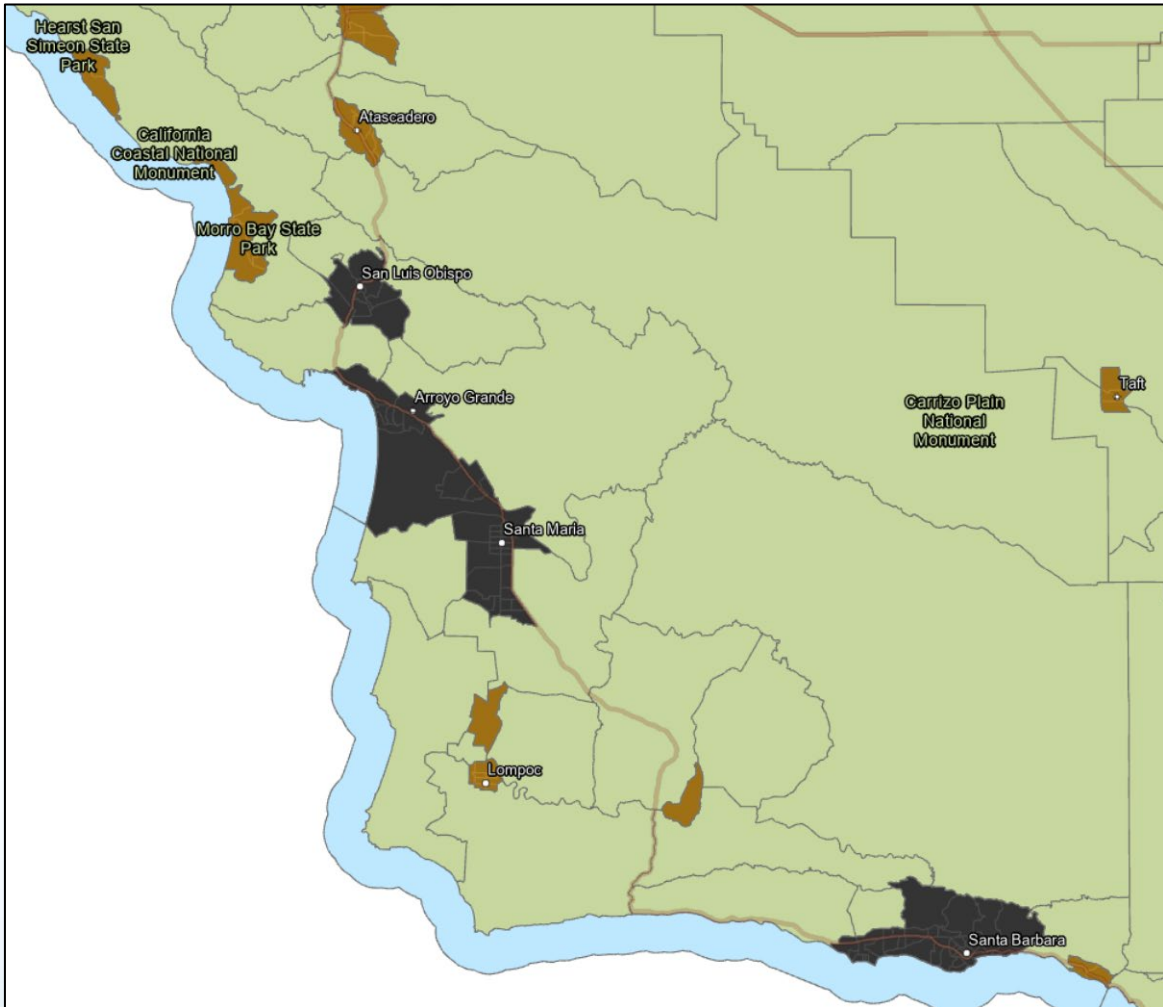
Northern CA



- Urban
- Rural Center
- Rural



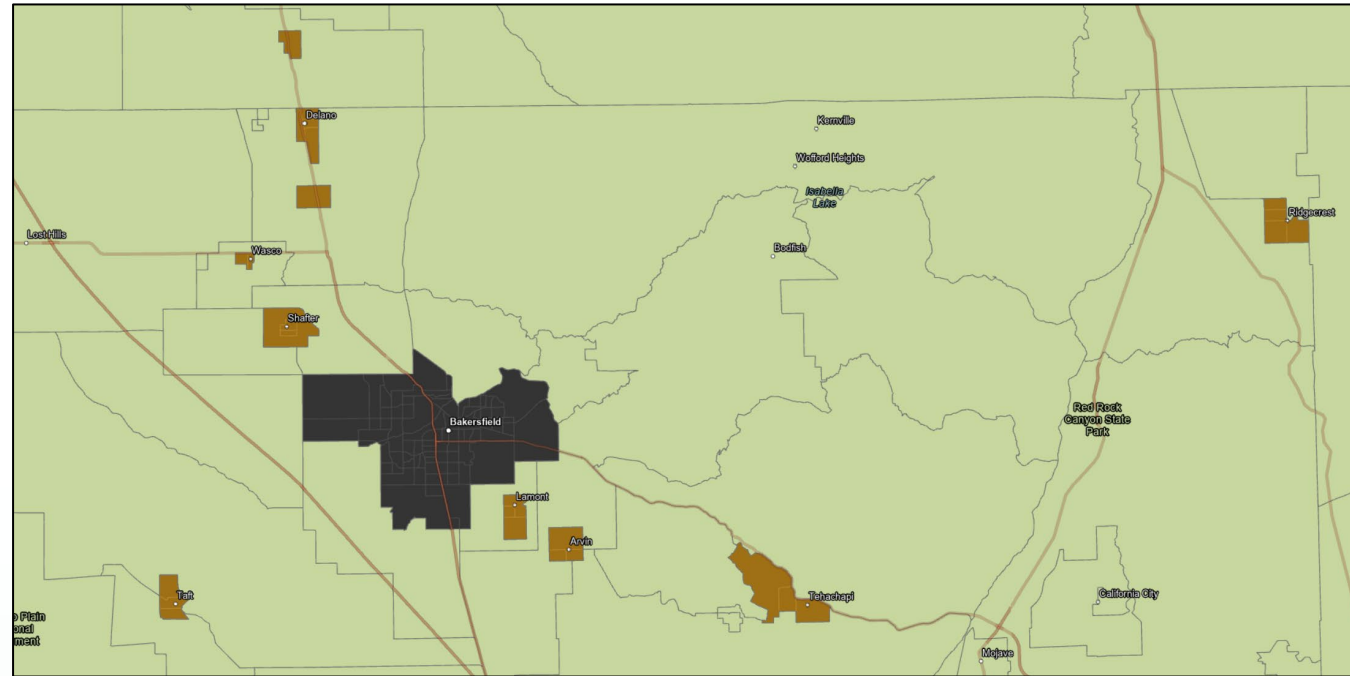
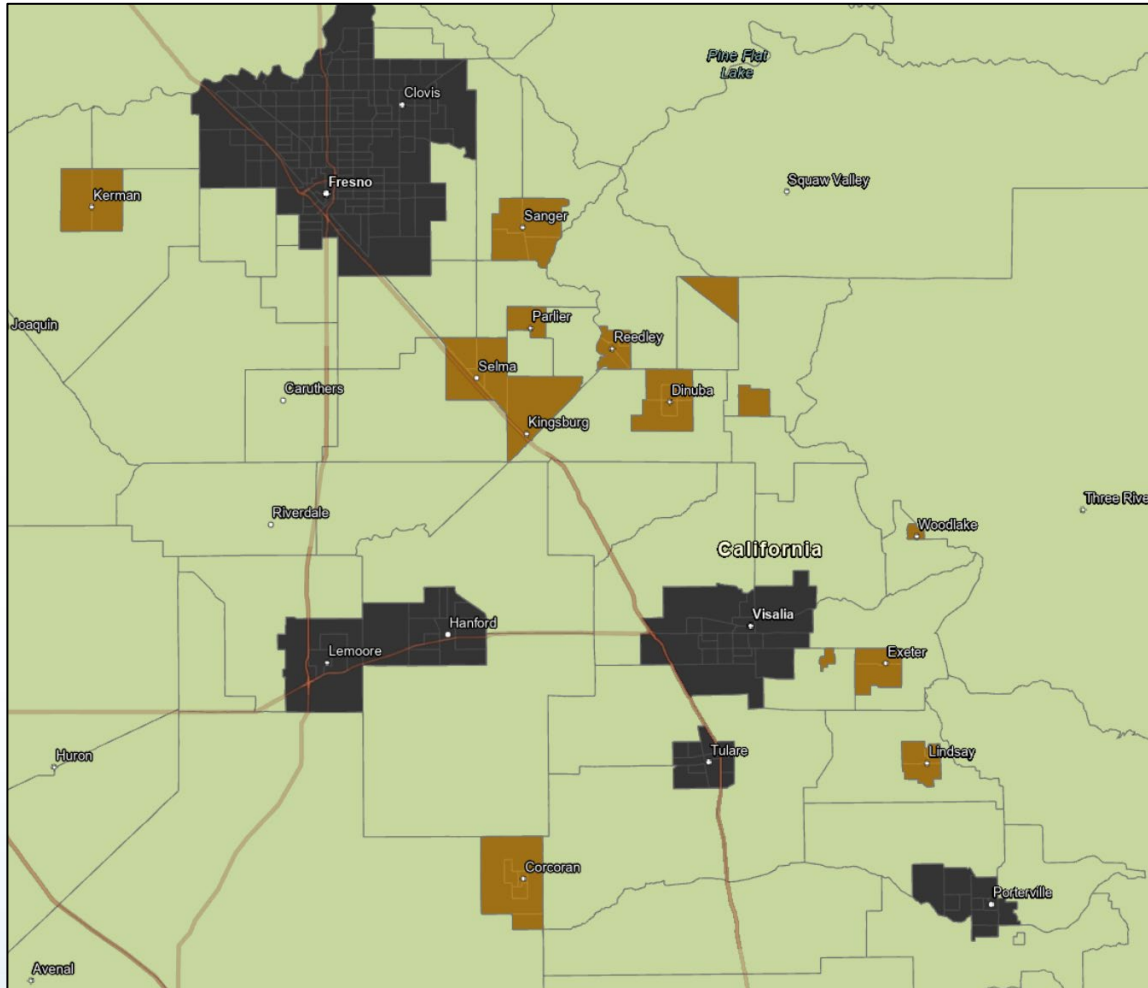
Southern CA



- Urban
- Rural Center
- Rural



Central Valley



- Urban
- Rural Center
- Rural



Proposed Eligible Applicants

- Open to all public and private entities
- Project teams are encouraged (not required) to include:
 - Community-based organizations
 - Local government partners
 - California Native American Tribes, and California Tribal Organizations serving California Native American Tribes
- Non-government partners are required to be registered and be in good standing with the [California Secretary of State](https://www.sos.ca.gov), <https://www.sos.ca.gov>, to enter into an agreement with the CEC



Discussion #1: Rural and Applicant Eligibility

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

1. How else can we ensure funding reaches rural areas that need the most assistance with EV infrastructure?
2. How do we ensure that local organizations are involved with the planning and design of the project?



Proposed Funding

- \$20 million
- No single applicant can receive more than \$8 million of the total funding
- 20% applicant cost share



Proposed Eligible Projects

- Install Level 2 and DCFC EV chargers in rural areas
- Chargers must be available and accessible at least 18 hours per day
- Must be at existing structures or facilities and involve negligible or no expansion of existing or former use
- Projects must output at least 1,200 kW of power or 65 ports, whichever is less
 - Power/ports can be distributed among different sites and charger types
- Minimum charger output
 - 150 kW for DCFC
 - 6.2 kW for Level 2
- Projects may not average more than
 - \$12,500 of CEC funds for each Level 2 charging port
 - \$100,000 of CEC funds for each DCFC port



Source: Sopotnicki/Shutterstock



Project Examples

Using 1200 kW minimum

Charger Level	Minimum kW	# Ports	Total kW	CEC Cost Cap
DCFC	150	7	1050	\$700,000
Level 2	6.2	25	155	\$312,500
	Total	32	1205	\$1,012,500

Using 65 port minimum

Charger Level	Minimum kW	# Ports	Total kW	CEC Cost Cap
DCFC	150	4	600	\$400,000
Level 2	6.2	61	378.2	\$762,500
	Total	65	978.2	\$1,162,500



Proposed Technical Requirements

- Connectors must be SAE standardized
 - Level 2 chargers = J1772.
 - J3400 (NACS/Tesla) are eligible once standardized by SAE.
 - DCFC = CCS1 or CHAdeMO
 - J3400 (NACS/Tesla) are eligible once standardized by SAE.
- All chargers installed must be OCPP compliant and certified by the Open Charge Alliance (version 1.6 or newer; core/subset and security certificates).
- All chargers installed must be ISO 15118 ready (indicated on the datasheet).
 - Details can be found in docket 19-AB-2127 ([TN#241955](https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-AB-2127)) <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-AB-2127>
- Installers must be certified through the Electric Vehicle Infrastructure Training Program (EVITP)
- If installed outside, chargers must be able to withstand extreme weather associated with the deployment area.



Discussion #2: Proposed Project Requirements

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

1. Is the requirement that all DCFC chargers must provide a minimum of 150kW too high?
 - a. Keep the 150kW minimum per DCFC port
 - b. Lower the minimum to 50kW per DCFC port
 - c. Rural centers should have 150kW minimum, rural areas should have 50kW minimum
2. Is the project size minimum of 1,200 kW output or 65 charging ports too high or too low?
 - a. Too high
 - b. About right
 - c. Too low



Proposed Data Collection and Reliability Requirements

- Applicants must have a plan for data collection, including, but not limited to, data on usage, payment, emissions savings, and job creation.
- Applicants must collect a minimum of 12 months of data for each site type separately and provide data electronically to the CEC on a regularly scheduled basis.
- Data collection includes, but is not limited to:
 - Charge and session duration and cost
 - Energy delivered (kWh)
 - Power delivered (kW)
 - Payment method
 - Type of vehicle charged
 - Number of unique vehicles and frequency of "repeat vehicles"
 - Reliability metrics
- Ensure that the uptime for each charging port installed in the project is at least 97% each year for six years after the beginning of operation.



Proposed Evaluation Criteria

Scoring Criteria	Points
Project Location	25
Project Benefits	20
Project Budget	20
Project Implementation and Readiness	15
Team Qualifications	10
Operation and Maintenance Plan	10
TOTAL POSSIBLE POINTS	100
MINIMUM PASSING SCORE (70%)	70



Discussion #3: Data Collection, Reliability, and Proposed Evaluation Criteria

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

1. Is the proposed evaluation point allocation appropriate?
2. Should there be bonus points for larger projects?



Discussion Summary

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

- Rural and Applicant Eligibility
- Project Requirements
- Data Collection and Reliability
- Project Evaluation



Proposed Schedule

Activity	Action Date (Tentative)
Solicitation Release	Q2 2024
Pre-Application Workshop	Q2 2024
Deadline to Submit Applications	Q3 2024
Anticipated Notice of Proposed Awards Posting	Q4 2024
Anticipated CEC Business Meeting Approval	Q2 2025



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 Electric Vehicle Infrastructure Project Funding"

All comments due by 5:00 pm on April 9, 2024



Thank You!

