DOCKETED	
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Organization:	CALeVIP
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Planning for the 2021 CALeVIP Incentive Project Regions

October 23, 2019

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Agenda

- Introductions
- CALeVIP Track Record of Success
- 2021 CALeVIP Potential Project Regions
- 2021 Partnership Engagement Process
- Timeline for 2021 Project Selection
- Self-Funded CALeVIP Project
- Questions, Public Comments Discussion

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Center for Sustainable Energy™

A mission-driven 501(c)(3) nonprofit organization

Offering scalable clean energy program administration and technical advisory services for over 20 years

A national footprint, headquartered in San Diego, CA

Regional offices: Boston, Brooklyn, Stony Brook, Oakland, Sacramento and Los Angeles

185+ dedicated, mission-driven employees

Managing ~50 projects and programs

National programs | Statewide incentive projects | Region-specific solutions

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California Energy Commission

Leading the state to a 100% clean energy future

Block Grant ARV-16-017

Goal: Rapid deployment of public L2 and DCFC stations across California

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The Challenge

Regional EV Adoption Is Outpacing Infrastructure

How can we measure projected gap to meet the Governor's 2025 EV Goals?

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CALeVIP Background

Goal: Implement targeted incentive projects based on region's needs

Mechanism that speeds up installation, reporting and funding processes

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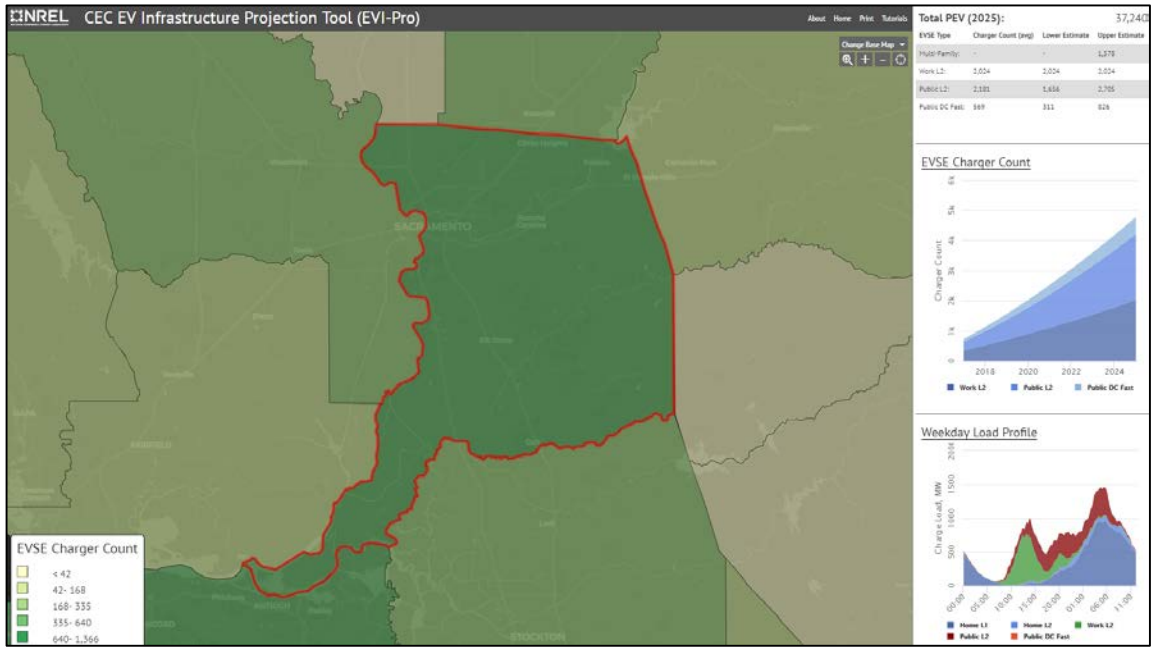
Electric Vehicle Infrastructure Projection Tool (EVI-Pro)

Developed by NREL and the California Energy Commission (CEC) to estimate quantity and type of EV infrastructure



Data: personal vehicle travel patterns, EV attributes, charging station characteristics

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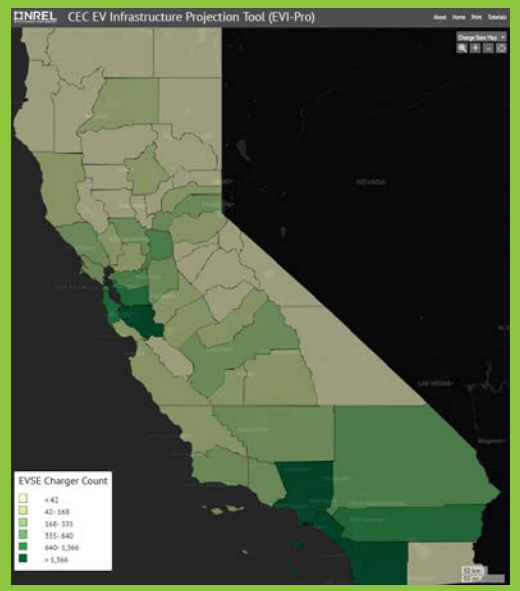
EVI-Pro Tool



maps.nrel.gov/cec

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

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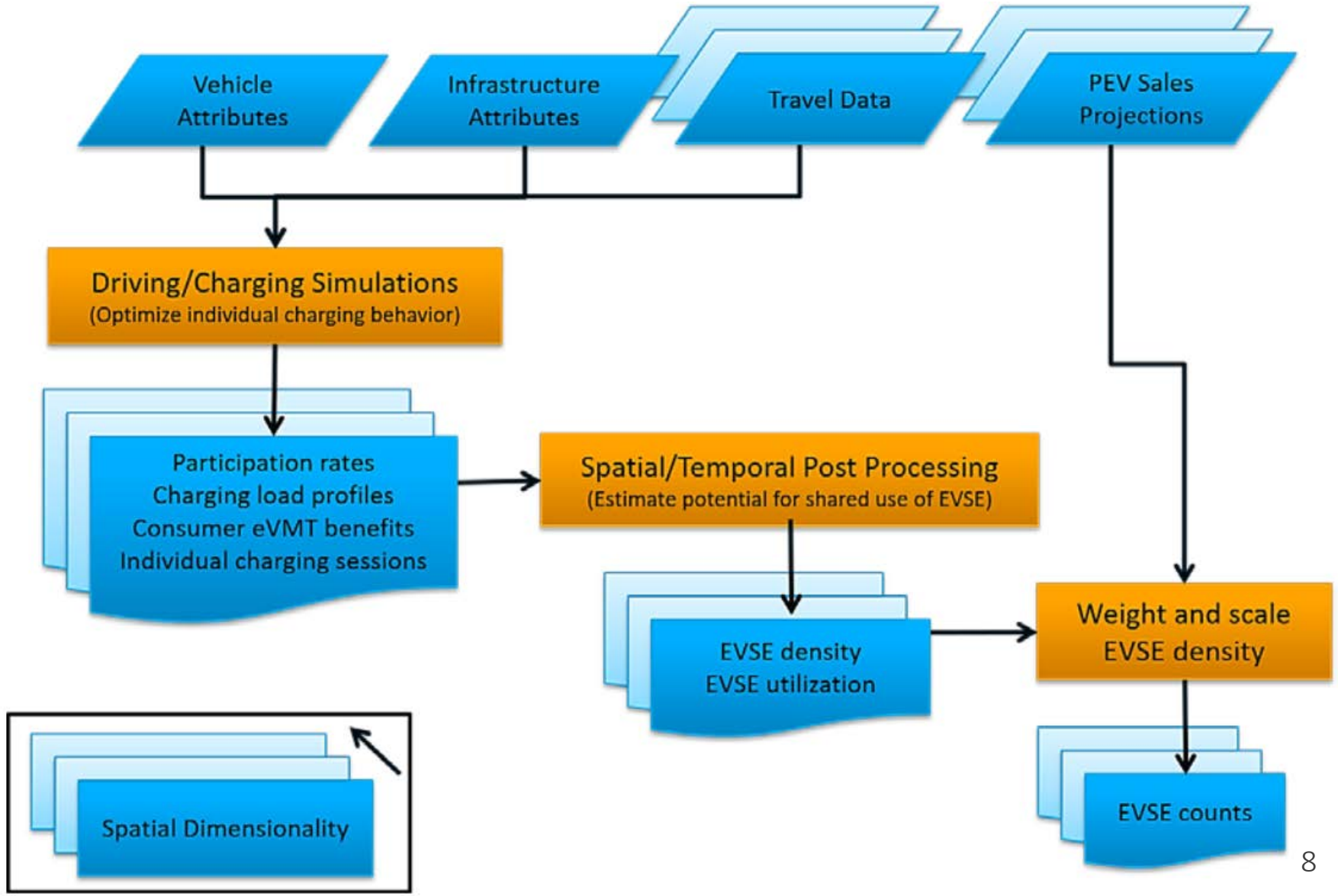
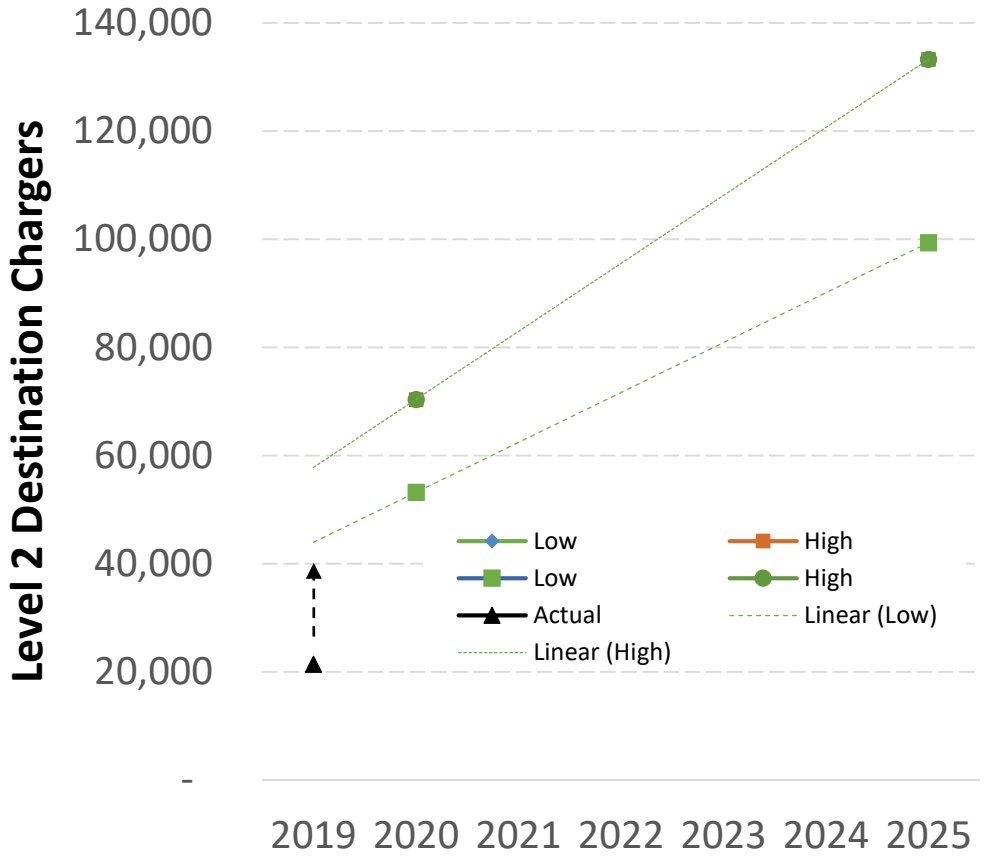
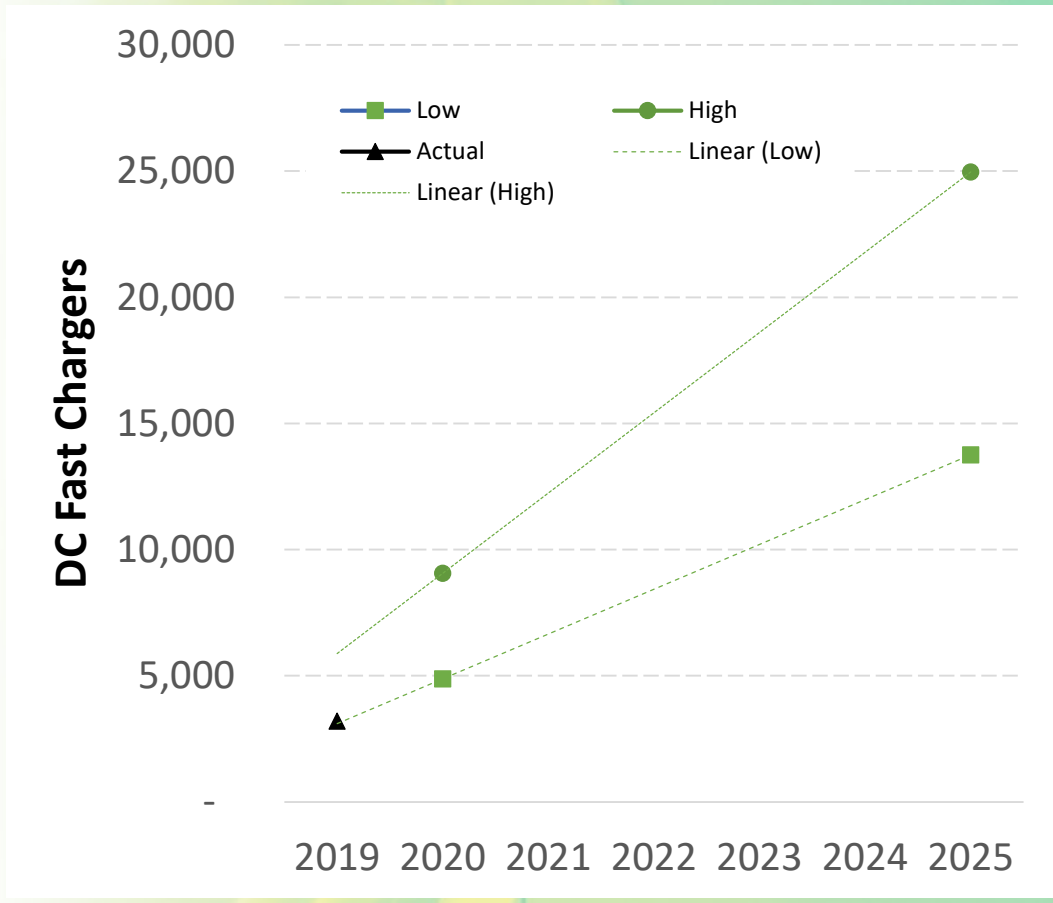


More Infrastructure Needed to Meet CA's Goals: 250,000 Chargers





Public L2 & DC and Private L2 Installations *reported* to the DOE Alternative Fuels Data Center as of 10/2019, compared to CEC's 2018 EVI-Pro Demand for Charging (Connectors)

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Current CALeVIP Projects

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CAL eVIP | Implemented by CSE for the California Energy Commission | Get Started | Resources | Available Funding | Help | English | Log In

San Joaquin Valley Incentive Project

Apply to receive a rebate for your next Level 2 or DC fast charger project!

- LEVEL 2 CHARGERS & DC FAST CHARGERS (DCFC)
- FRESNO, KERN, AND SAN JOAQUIN COUNTIES
- LEVEL 2 UP TO $5,000 PER CONNECTOR, DC FAST CHARGER UP TO $80,000 PER CHARGER

Learn more

Central Coast Incentive Project

Presented in partnership with Monterey Bay Community Power (MBCP)

- LEVEL 2 CHARGERS & DC FAST CHARGERS (DCFC)
- MONTEREY, SAN BENITO, AND SANTA CRUZ COUNTIES
- LEVEL 2 UP TO $6,500 PER CONNECTOR, DC FAST CHARGER UP TO $80,000 PER CHARGER

Learn more

Northern California Incentive Project

Apply to receive a rebate for your next Level 2 or DC fast charger project!

- LEVEL 2 CHARGERS & DC FAST CHARGERS (DCFC)
- HUMBOLDT, SHASTA, AND TEHAMA COUNTIES
- LEVEL 2 UP TO $7,500 PER CONNECTOR, DC FAST CHARGER UP TO $80,000 PER CHARGER

Learn more

Sacramento County Incentive Project

Presented in partnership with Sacramento Municipal Utility District (SMUD)

- LEVEL 2 CHARGERS & DC FAST CHARGERS (DCFC)
- SACRAMENTO COUNTY
- LEVEL 2 UP TO $6,500 PER CONNECTOR, DC FAST CHARGER UP TO $80,000 PER CHARGER

Learn more

Southern California Incentive Project (SCIP)

Apply to receive a rebate for your next DC fast charger purchase and installation project!

- DC FAST CHARGERS (DCFC)
- LOS ANGELES, ORANGE, RIVERSIDE, AND SAN BERNARDINO COUNTIES
- UP TO $80,000

Learn more

Fresno County Incentive Project (FCIP)

Apply to receive a rebate for your next Level 2 EV charger purchase and installation project!

- LEVEL 2 CHARGERS
- FRESNO COUNTY
- UP TO $7,000

Learn more

CALeVIP Addresses Regional Needs

- Outreach and Education
  - Potential Target Audiences for EVI
- Technical Assistance
  - Consultation on siting and technical specs
- Stackable incentive project structure
  - Intended to maximize EVI incentives

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Case Study

2018: Southern CA Incentive Project

- Four Counties containing over 20M people, representing 277,000 plug-in EV drivers (2018)
- Energy Commission provided a total of $29M across four counties for DCFC
  - 25% minimum for projects in DACs
- **Results**
  - Los Angeles county: over 99 percent of original $13M in DCFC incentive funds reserved in just 12 weeks
  - 53% of funds reserved in DACs

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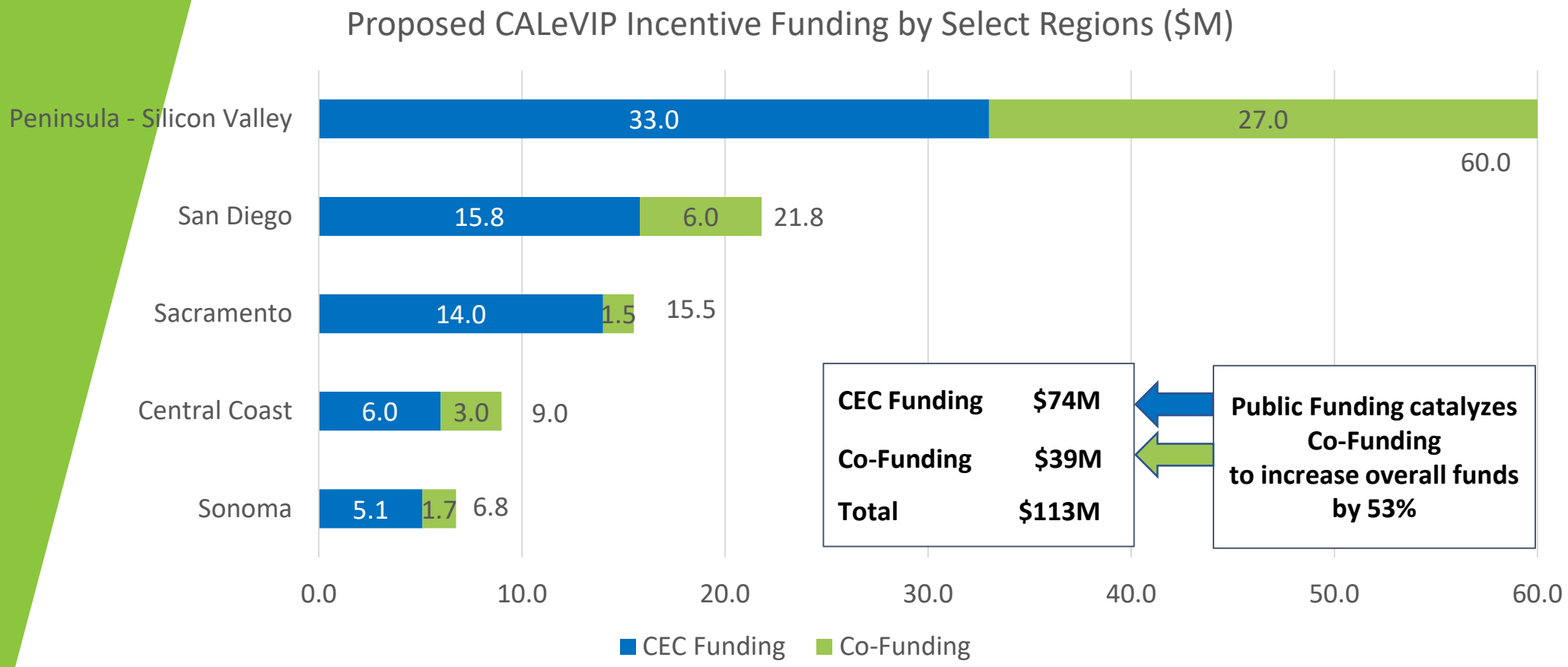
Project Partnerships to Date



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CALeVIP: Track Record of Success

Partner Testimonials

- J.R. Killigrew – Monterey Bay Community Power
- Kathy Keehan – San Diego County Air Pollution Control District
- Nelson Lomeli – Sonoma Clean Power

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2019 Central Coast CALeVIP Project

J.R. Killigrew

Director of Communications & Energy Programs

Monterey Bay Community Power

2019 Central Coast CALeVIP Project Partner

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Monterey Bay Community Power
Local Choice • Clean Energy • Economic Vitality

2020 San Diego County CALeVIP Project

Kathy Keehan

Supervising Air Resources Specialist

Planning and Incentives

San Diego County Air Pollution Control District

2020 San Diego County CALeVIP Project Partner

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APCD
AIR POLLUTION CONTROL DISTRICT
COUNTY OF SAN DIEGO

2020 Sonoma & Mendocino County CALeVIP Project

Nelson Lomeli

Program Manager

Sonoma Clean Power

2020 Sonoma & Mendocino County CALeVIP Project Partner

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How are Incentive Project Regions Selected?

- EVI-Pro Analysis
- Partnerships
- Streamlined Permit Process
- Available Energy Commission Funding

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EVI-Pro Analysis

- EVI-Pro 2025 county level projections
- Percentage of low projections
- AFDC database download
- Gap analysis to low projects

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Project Partnerships

- Direct funding partnerships
- Align with CALeVIP structure and goals
- Additional resources

- Indirect funding partnerships

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Streamlined Permit Process

- AB-1236: EVCS Streamlined Permitting Process Law (2015)
- Go-Biz's EVCS Permitting Guidebook
  - Streamlining Map
  - Scorecard

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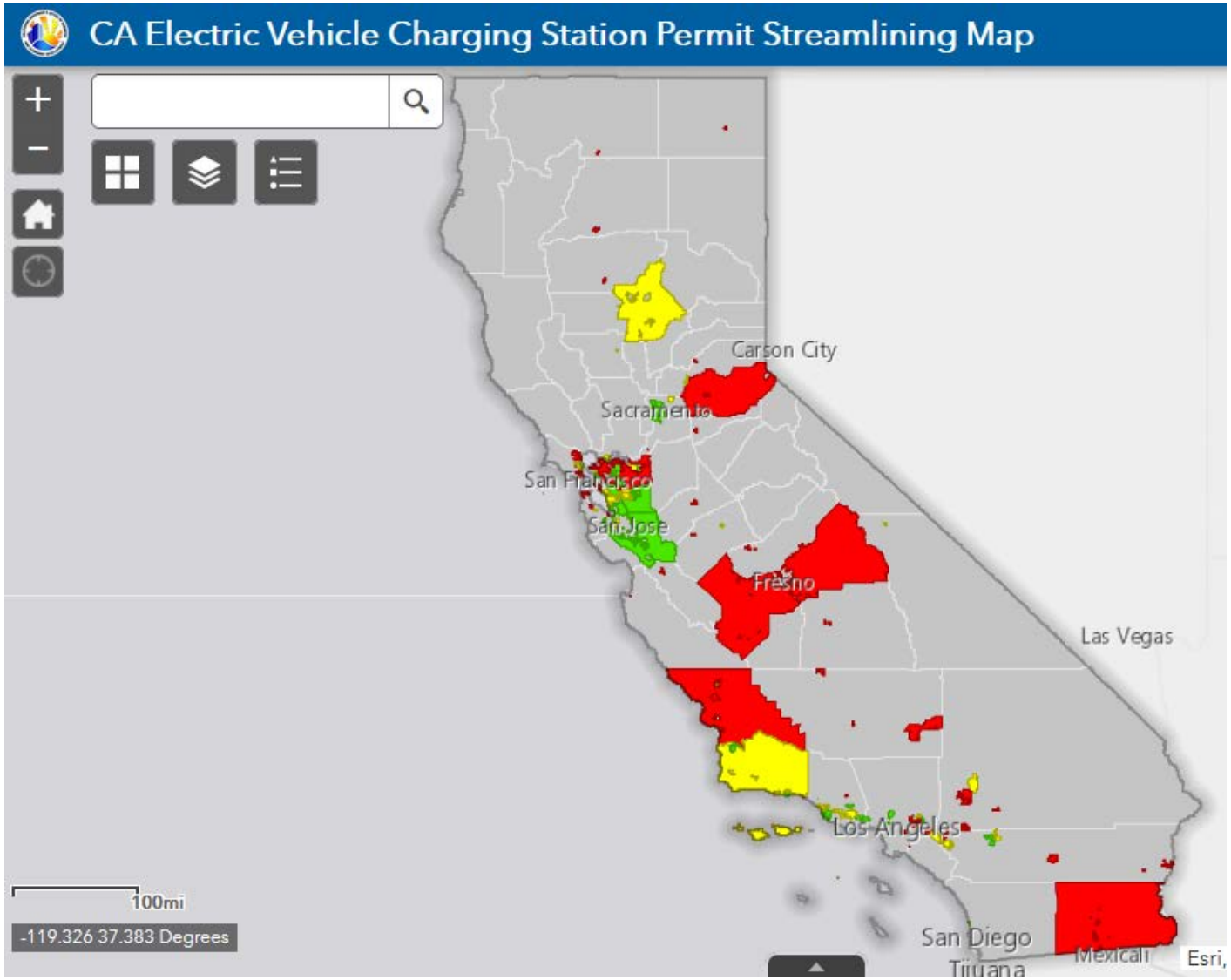
EVCS Permit Streamlining Map



http://www.business.ca.gov/zevreadiness

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EVCS Permit Streamlining Scorecard

Permitting Electric Vehicle Charging Stations Scorecard: ***Updated 10/2/2019***

	Scoring Criteria:	Complete if:
☐	**1. Streamlining Ordinance** Ordinance creating an expedited, streamlined permitting process for electric vehicle charging stations (EVCS) including level 2 and direct current fast chargers (DCFC) has been adopted.	– Streamlining ordinance has been adopted
☐	**2. Permitting checklists covering L2 and DCFC** Checklist of all requirements needed for expedited review posted on city or county website.	– Permitting checklist is available and easily found on city or county website
☐	**3. Administrative approval of EVCS** EVCS projects that meet expedited checklist are administratively approved through building or similar non-discretionary permit.	– The streamlining ordinance states that permit applications that meet checklist requirements will be approved through non-discretionary permit (or similar)
☐	**4. Approval limited to health and safety review** EVCS project review limited to health and safety requirements found under local, state, and federal law.	– The streamlining ordinance states that no discretionary use permit is required and permit approval will be limited to health and safety review
☐	**5. Electric signatures accepted** AHJ accepts electronic signatures on permit applications.*	– Electronic signatures accepted on City or County website (usually specified in the ordinance)
☐	**6. EVCS not subject to association approval** EVCS permit approval not subject to approval of an association (as defined in Section 4080 of the Civil Code).	– The streamlining ordinance states that EVCS permits do not require association approval
☐	**7. One complete deficiency notice** AHJ commits to issuing one complete written correction notice detailing all deficiencies in an incomplete application and any additional information needed to be eligible for expedited permit issuance.	– The streamlining ordinance dictates that a written correction notices must detail all deficiencies
☐	**8. *Bonus*: Expedited timeline for approval** Consistent with the intent of AB 1236, AHJ establishes expedited timelines for EVSE permit approval compared to standard project approval procedures.	– The streamlining ordinance (or other policy mechanism) outlines expedited approval timelines for EVSE permits

http://www.business.ca.gov/Portals/0/Files/Permitting%20Electric%20Vehicle%20Charging%20Stations%20Scorecard_Updated_10.2.19.pdf

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Energy Commission Funding

- Clean Transportation Program Investment Plan
  - Electric Vehicle Infrastructure
    - Light-duty (Electric Vehicle Charging Infrastructure Unit)
      - CALeVIP & Grant Funding Opportunities
        - Historically about $20-30 million per fiscal year
- 3-4 CALeVIP Incentive Projects per year

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Potential 2021 Incentive Projects

Project	County	Technology
A	Los Angeles Orange Riverside San Bernardino	Level 2 Only
B	Alameda	Level 2 & DCFC
C	Contra Costa	Level 2 & DCFC
D	San Francisco	Level 2 & DCFC
E	Marin	Level 2 & DCFC
F	San Luis Obispo Santa Barbara Ventura	Level 2 & DCFC
G	Solano Yolo	Level 2 & DCFC
H	El Dorado Placer	Level 2 & DCFC

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Potential 2021 Incentive Projects

Project	County	EVI-Pro Level 2 Low Gap	EVI-Pro DCFC Low Gap
A	Los Angeles Orange Riverside San Bernardino	20,173 8,534 3,204 2,754	N/A
B	Alameda	5,432	450
C	Contra Costa	2,876	243
D	San Francisco	2,060	556
E	Marin	1,235	264
F	San Luis Obispo Santa Barbara Ventura	272 752 1,291	37 124 48*
G	Solano Yolo	727 727	1 149
H	El Dorado Placer	302 935	22 44

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Potential 2021 Incentive Projects

Assumes:
$5,200 per Level 2 Connector

$55,000 per DC Fast Charger

Project	County	Fund 50% of EVI-Pro Level 2 Low Gap	Fund 30% of EVI-Pro DCFC Low Gap	Total County Cost	Total Project Cost
A	Los Angeles Orange Riverside San Bernardino	$52,449,800 $22,188,400 $8,330,400 $7,160,400	N/A	$90,129,000	**$90,129,000**
B	Alameda	$14,123,200	$7,425,000	$21,548,200	**$21,548,200**
C	Contra Costa	$7,477,600	$4,009,500	$11,487,100	**$11,487,100**
D	San Francisco	$5,356,000	$9,174,000	$14,530,000	**$14,530,000**
E	Marin	$3,211,000	$4,356,000	$7,567,000	**$7,567,000**
F	San Luis Obispo Santa Barbara Ventura	$707,200 $1,955,200 $3,356,600	$610,500 $2,046,000 $792,000	$1,317,700 $4,001,200 $4,148,600	**$9,467,500**
G	Solano Yolo	$1,890,200 $1,890,200	N/A $2,458,500	$1,890,200 $4,348,700	**$6,238,900**
H	El Dorado Placer	$785,200 $2,431,000	$363,000 $726,000	$1,148,200 $3,157,000	**$4,305,200**

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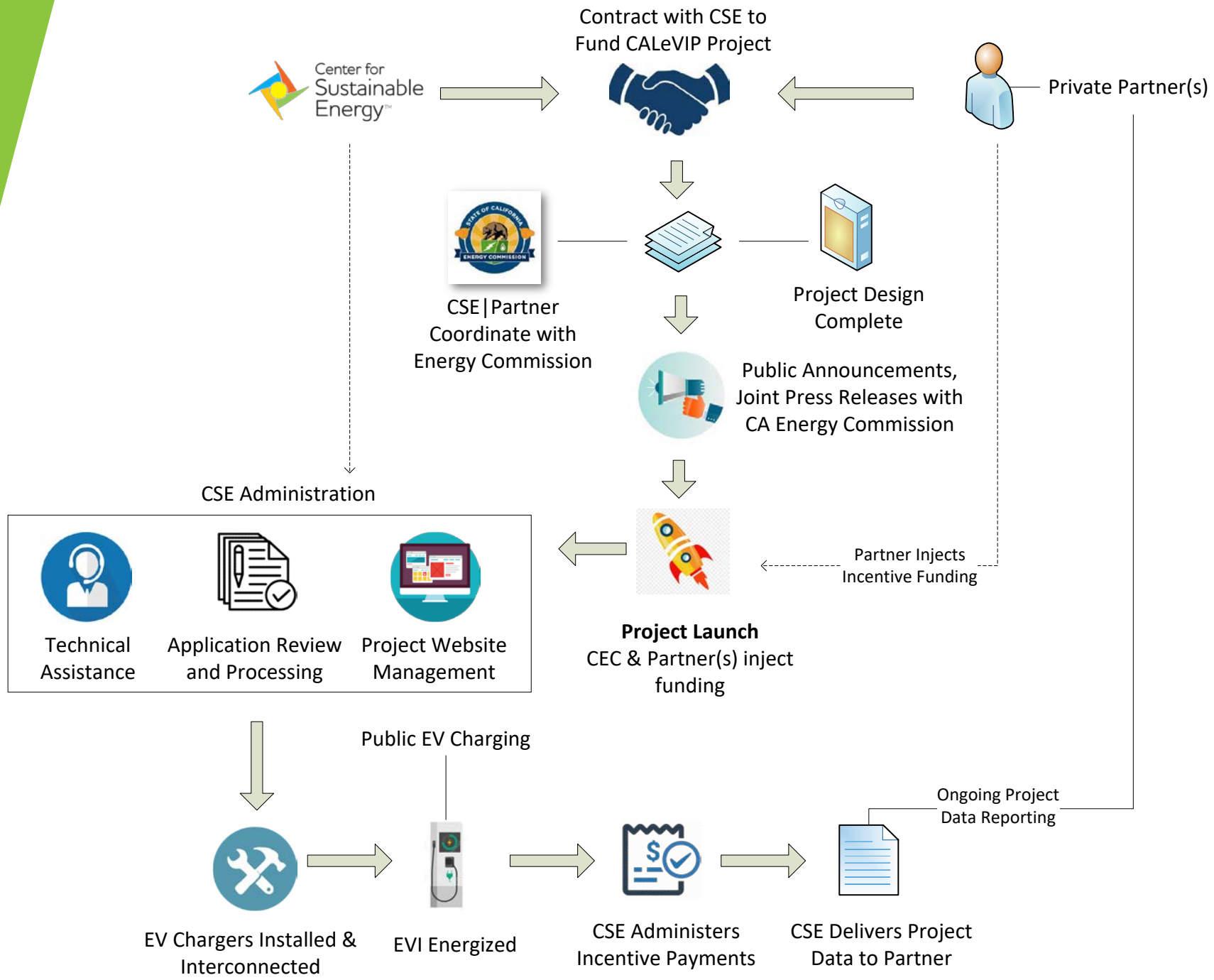

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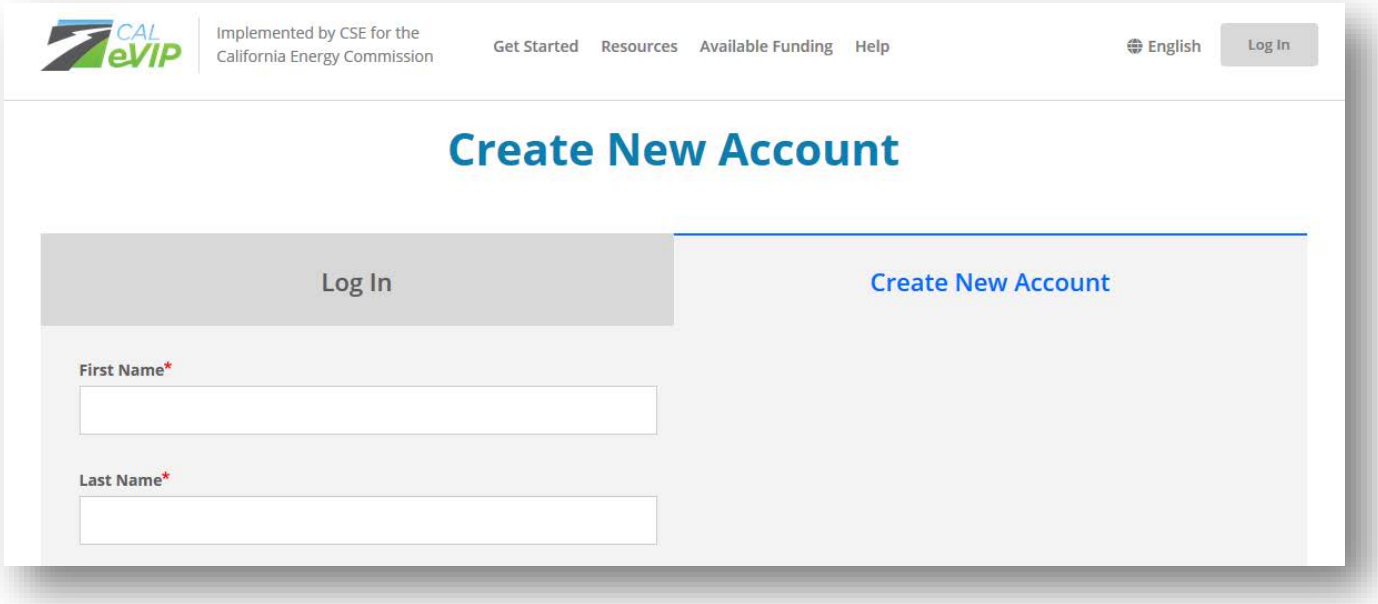
CALeVIP Pillar Requirements

Process Requirements

- Online application process
- First-come first-served
- Applications **not** competitively scored



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CALeVIP Pillar Requirements

- **Technology: Level 2 Chargers**
  - J-1772 connector
  - Energy Star Certified
  - 6.2 kW+ power rating
  - Networked
  - Minimum 2-year networking agreement
  - New (not refurbished, not previously installed and removed)
  - Ability to accept an open standard protocol
  - Listed by a Nationally Recognized Testing Laboratory (NRTL)
  - Accept at least two payment methods (if payment is required)
    - *Ex.: Mobile app-based payment, a toll-free phone number, near-field communications (NFC) or onsite card reader*

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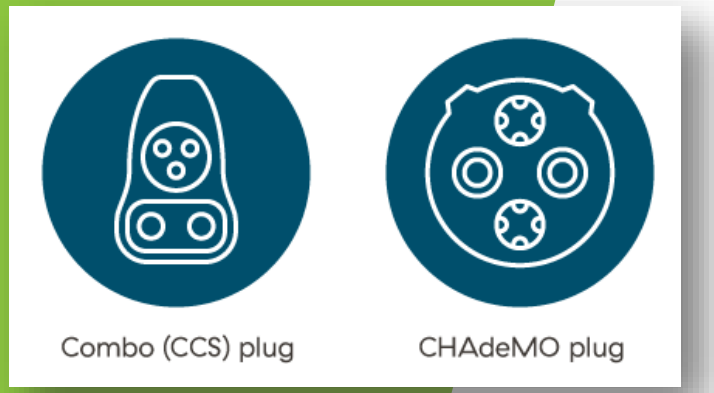
CALeVIP Pillar Requirements



- **Technology: Direct-Current Fast Charger (DCFC)**
  - Both CHAdeMO and Combined Charging System (CCS) connector
  - 50 kW+ power rating
  - Networked
  - Minimum 5-year networking agreement
  - New (not refurbished, not previously installed and removed)
  - Ability to accept an open standard protocol
  - Listed by a Nationally Recognized Testing Laboratory (NRTL)
  - Accept at least two payment methods (if payment is required)
    - Ex.: Mobile app-based payment, a toll-free phone number, near-field communications (NFC) or onsite card reader
    - Stations installed on and after January 1, 2022 must comply with SB 454 updated payment requirements

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CALeVIP Pillar Requirements

- **Rebates: Level 2 Chargers**
  - An “up-to” incentive amount per connector or percentage of project costs, whichever is less
    - DAC and/or low-income sites are allotted an incentive adder, increasing the “up-to” dollar amount per connector
    - Multi-unit dwelling sites are allotted an incentive adder.
  - One site per application
  - New or replacement chargers eligible
  - Designated site connector limit for incentives
    - Additional chargers may be installed but ineligible for CALeVIP rebate funding

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CALeVIP Pillar Requirements

- **Rebates: DCFC**
  - An “up-to” dollar amount or percentage of total project cost, whichever is less
  - New or replacement chargers are eligible
    - Sites deemed in a designated DAC or low-income community are allotted an incentive adder, increasing the “up-to” dollar amount per connector
  - Designated site connector limit for incentives
    - Additional chargers may be installed but ineligible for CALeVIP rebate funding

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CALeVIP Pillar Requirements

- **Site Eligibility: Level 2 Chargers**
  - County-wide eligibility
  - Public or private
  - May serve light-duty fleets
  - Car-sharing/e-mobility service installations eligible
  - All chargers must be shared use
    - *Sites serving single-family residences or dedicated parking spaces are ineligible*

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CALeVIP Pillar Requirements

- **Site Eligibility: DCFC**
  - Publicly available 24-hours per day year round
    - May not be located behind a gate or have restrictions for public use or access
  - Site type eligible for DCFC or L2/DCFC Combo installations

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Partnership Modifications

- Site maximum connector limits
- Incentive amounts
- DAC/Low-Income adder amount, $
- DAC/Low-Income threshold, 25% minimum
- “Area of Focus”

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2021 Partnership Engagement Process

Partnership Engagement Milestones

- Phase I – Introduction to Commission
- Phase II – Preliminary Design
- Phase III – Project Selection
- Phase IV – Project Design and Launch

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Phase I - Introduction

- 10/23/2019
  - Energy Commission hosts 2021 CALeVIP Projects Workshop
- 10/30/2019
  - Follow-Up: CSE provides Partnership Engagement Package to prospective partners, including:
    1. Letter of Intent template
    2. CSE Agreement templates
       - Scope of Work
       - CSE Contract
    3. Project Partnership Questionnaire
    4. Pillar Requirements

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Partnership Engagement Package

CSE will provide interested parties:

- Letter of Intent template
- CSE Agreement Templates
  - Scope of Work
  - CSE Contract Template
- Project Partnership Questionnaire
- Milestone Timeline
- Pillar Requirements

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Phase I - Introduction

- 11/4 through 11/15/2019
  - CSE schedule calls Partner(s) to discuss Letter of Intent and Design Questionnaire
- 2/14/2020
  - Partner completes and returns Partnership Engagement Package to CSE for review, including:
    - Completed Letter of Intent
      - *Groups: Single letter preferred but willing to accept individual letters of intent, if needed*
    - Completed Project Partnership Questionnaire
      - Includes acknowledgment of and agreement with defined Pillar Requirements

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Phase I - Introduction

- Feb 2020
  - Energy Commission reviews Partnership Engagement Package submittals
  - Commission directs CSE to continue to Phase II with partner

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Phase II – Preliminary Design

- Late Feb 2020 – March 2020
  - Project customizations meetings and workshops between CSE and prospective Partner(s)
  - CSE schedule calls with Partner(s) to finalize Project design and discuss Scope of Work, Budget and Contract

- 3/27/2020
  - Prospective Project Customizations with Partner(s) and Energy Commission Due

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Phase II – Preliminary Design

- April 2020
  - CSE schedule calls with Partner(s) to **discuss** Scope of Work, Budget and Contract
- By 5/8/2020
  - CSE schedule calls with Partner(s) to **finalize** Scope of Work, Budget and Contract

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Phase II – Preliminary Design

- 5/15/2020
  - CSE & Partner reach mutual agreement on following:
    - High-level Project design elements
    - Tentatively agreed-upon Service Contract with partner and CSE, sans signature
    - Tentative agreed-upon Scope of Work agreement with CSE, sans signature
    - Budget

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Phase III – Project Selection

- June 2020
  - Energy Commission selects of 2021 project regions, CSE notifies partners of selection
- July 2020
  - CSE schedules public workshop with selected Partners
- August 2020
  - Public Workshops for selected projects occur

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Phase III – Project Selection

- 8/31 through 9/4/2020
  - CSE/Partner(s) to discuss public feedback from workshop
- 9/25/2020
  - Partners sign and execute SOW, Budget, and Contract with CSE

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Phase IV – Project Design and Launch

- 10/2020 – Project Design Phase
  - CSE creates Implementation Manual from agreed terms in Partnership Engagement Package and Scope of Work
  - CSE shares with Partner for approval
- 11/2020
  - Final Public Workshop for Regional Project with Commission and CSE, if needed

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Phase IV – Project Design and Launch

- 12/2020 through 2021
  - Partners and Commission consider public workshop comments for minor project adjustments, as needed
  - Finalize Project Implementation Manual with Commission
  - CSE launches Project landing page with Implementation Manual
  - Partners send incentive funding to CSE to route to project payment
  - **Project Launch**

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Partnership Timeline Summary

Oct. 23, 2019	→ CEC hosts public workshop for solicitation on 2021 projects
Feb. 14, 2020	→ Partners submits Partnership Engagement Package to CSE
Jan. – May 15, 2020	→ CEC and Partners finalize prospective 2021 project requirements
May 2020	→ CEC staff compiles project profiles and funding for 2021 CALeVIP projects
June 2020	→ CEC Commissioner selects 2021 projects. Partner(s) notified of CEC selection (not public)
Summer 2020	→ Partner boards approves funding for CALeVIP project
September 2020	→ Partners sign agreement with CSE
Fall 2020	→ CEC hosts public workshops to announce 2021 projects
October 2020	→ Partners finalize project design with CSE for workshops
Nov. 2020	→ Final public workshops (if needed)
2021	→ Project launch

Self-Funded Projects

- Launch regional project independent of Commission funding
- Increased influence in project design above pillar requirements
- Increased flexibility for project launch
- Talk with CSE for more information

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Moving Forward

- CSE to send Partnership Engagement Packet
- Partners decide to participate in CALeVIP
- Partners return completed Packet to CSE
- CSE & Partners discuss project requirements

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Q&A

Center for Sustainable Energy Contacts

Andy Hoskinson

Andy.Hoskinson@energycenter.org

Tyler Petersen

Tyler.Petersen@energycenter.org

Alex Kaufman

Alex.Kaufman@energycenter.org

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Comments Due 11/8/2019 by 5:00pm

California Energy Commission
Docket Unit, MS-4
Re: Docket No. 17-EVI-01
1516 Ninth Street
Sacramento, CA 95814 -5512
(916) 654-4423
https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=17-EVI-01

Recommend all comments be submitted online.