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<tr>
<td><strong>Docket Number:</strong></td>
<td>17-EVI-01</td>
</tr>
<tr>
<td><strong>Project Title:</strong></td>
<td>Block Grant for Electric Vehicle Charger Incentive Projects</td>
</tr>
<tr>
<td><strong>TN #:</strong></td>
<td>230327</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation - Planning for the 2021 CALeVIP Incentive Project Regions</td>
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<tr>
<td><strong>Description:</strong></td>
<td>N/A</td>
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<tr>
<td><strong>Filer:</strong></td>
<td>Christina Cordero</td>
</tr>
<tr>
<td><strong>Organization:</strong></td>
<td>CALeVIP</td>
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<tr>
<td><strong>Submitter Role:</strong></td>
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<td><strong>Submission Date:</strong></td>
<td>10/23/2019 3:19:33 PM</td>
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<td><strong>Docketed Date:</strong></td>
<td>10/23/2019</td>
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Planning for the 2021 CALeVIP Incentive Project Regions

October 23, 2019
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
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
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
The Challenge

Regional EV Adoption Is Outpacing Infrastructure

How can we measure projected gap to meet the Governor’s 2025 EV Goals?
Goal: Implement targeted incentive projects based on region’s needs

Mechanism that speeds up installation, reporting and funding processes
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
EVI-Pro Tool

Vehicle Attributes  Infrastructure Attributes  Travel Data  PEV Sales Projections

Driving/Charging Simulations (Optimize individual charging behavior)

Participation rates  Charging load profiles  Consumer eVMT benefits  Individual charging sessions

Spatial/Temporal Post Processing (Estimate potential for shared use of EVSE)

EVSE density  EVSE utilization

Weight and scale EVSE density

Spatial Dimensionality

EVSE counts
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)
Current CALeVIP Projects

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 (BCFC)
- FRESNO, KERN, AND SAN JOAQUIN COUNTIES
- LEVEL 2 UP TO $5,000 PER CONNECTOR, DC FAST CHARGER UP TO $50,000 PER CHARGER

Learn more

Central Coast Incentive Project
Presented in partnership with Monterey Bay Community Power (MBCP)

- LEVEL 2 CHARGERS & DC FAST CHARGERS (BCFC)
- MONTEREY, SAN BENITO, AND SANTA CRUZ COUNTIES
- LEVEL 2 UP TO $4,500 PER CONNECTOR, DC FAST CHARGER UP TO $50,000 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 (BCFC)
- HUMBOLDT, SISKIYOU, AND TOLVA counties
- LEVEL 2 UP TO $7,000 PER CONNECTOR, DC FAST CHARGER UP TO $50,000 PER CHARGER

Learn more

Sacramento County Incentive Project
Presented in partnership with Sacramento Municipal Utility District (SMUD)

- LEVEL 2 CHARGERS & DC FAST CHARGERS (BCFC)
- SACRAMENTO COUNTY
- LEVEL 2 UP TO $4,500 PER CONNECTOR, DC FAST CHARGER UP TO $50,000 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 (BCFC)
- LOS ANGELES, ORANGE, RIVERSIDE, AND SAN BERNARDINO COUNTIES
- UP TO $50,000

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
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
Project Partnerships to Date

Proposed CALeVIP Incentive Funding by Select Regions ($M)

- **Peninsula - Silicon Valley**: CEC Funding = 33.0, Co-Funding = 27.0
- **San Diego**: CEC Funding = 15.8, Co-Funding = 6.0
- **Sacramento**: CEC Funding = 14.0, Co-Funding = 1.5
- **Central Coast**: CEC Funding = 6.0, Co-Funding = 3.0
- **Sonoma**: CEC Funding = 5.1, Co-Funding = 1.7

**Total Funding**:
- CEC Funding = $74M
- Co-Funding = $39M
- Total = $113M

Public Funding catalyzes Co-Funding to increase overall funds by 53%.
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
2019 Central Coast CALeVIP Project

J.R. Killigrew
Director of Communications & Energy Programs
Monterey Bay Community Power

2019 Central Coast CALeVIP Project Partner
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
2020 Sonoma & Mendocino County CALeVIP Project

Nelson Lomeli
Program Manager
Sonoma Clean Power

2020 Sonoma & Mendocino County CALeVIP Project Partner
How are Incentive Project Regions Selected?

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

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

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

- Indirect funding partnerships
Streamlined Permit Process


- Go-Biz’s EVCS Permitting Guidebook
  - Streamlining Map
  - Scorecard
EVCS Permit Streamlining Map

http://www.business.ca.gov/zevreadiness
## EVCS Permit Streamlining Scorecard

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

<table>
<thead>
<tr>
<th>Scoring Criteria</th>
<th>Complete if</th>
</tr>
</thead>
</table>
| 1. **Streaming 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. | - Streaming 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 streaming 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 streaming 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 streaming ordinance states that EVCS permits do not require association approval |

### Notes
- The streaming ordinance dictates that a written correction notice must detail all deficiencies.
- The streaming ordinance (or other policy mechanism) outlines expedited approval timelines for EVSE permits.

---

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
## Potential 2021 Incentive Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>County</th>
<th>Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Los Angeles, Orange, Riverside, San Bernardino</td>
<td>Level 2 Only</td>
</tr>
<tr>
<td>B</td>
<td>Alameda</td>
<td>Level 2 &amp; DCFC</td>
</tr>
<tr>
<td>C</td>
<td>Contra Costa</td>
<td>Level 2 &amp; DCFC</td>
</tr>
<tr>
<td>D</td>
<td>San Francisco</td>
<td>Level 2 &amp; DCFC</td>
</tr>
<tr>
<td>E</td>
<td>Marin</td>
<td>Level 2 &amp; DCFC</td>
</tr>
<tr>
<td>F</td>
<td>San Luis Obispo, Santa Barbara, Ventura</td>
<td>Level 2 &amp; DCFC</td>
</tr>
<tr>
<td>G</td>
<td>Solano, Yolo</td>
<td>Level 2 &amp; DCFC</td>
</tr>
<tr>
<td>H</td>
<td>El Dorado, Placer</td>
<td>Level 2 &amp; DCFC</td>
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## Potential 2021 Incentive Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>County</th>
<th>EVI-Pro Level 2 Low Gap</th>
<th>EVI-Pro DCFC Low Gap</th>
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<tbody>
<tr>
<td>A</td>
<td>Los Angeles</td>
<td>20,173</td>
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<tr>
<td></td>
<td>Orange</td>
<td>8,534</td>
<td></td>
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<tr>
<td></td>
<td>Riverside</td>
<td>3,204</td>
<td></td>
</tr>
<tr>
<td></td>
<td>San Bernardino</td>
<td>2,754</td>
<td></td>
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<tr>
<td>B</td>
<td>Alameda</td>
<td>5,432</td>
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<tr>
<td>C</td>
<td>Contra Costa</td>
<td>2,876</td>
<td>243</td>
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<tr>
<td>D</td>
<td>San Francisco</td>
<td>2,060</td>
<td>556</td>
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<tr>
<td>E</td>
<td>Marin</td>
<td>1,235</td>
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<td>F</td>
<td>San Luis Obispo</td>
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<td>37</td>
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<td></td>
<td>Santa Barbara</td>
<td>752</td>
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<tr>
<td></td>
<td>Ventura</td>
<td>1,291</td>
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<tr>
<td>G</td>
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<td>727</td>
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<tr>
<td></td>
<td>Yolo</td>
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<td>H</td>
<td>El Dorado</td>
<td>302</td>
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<td></td>
<td>Placer</td>
<td>935</td>
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## Potential 2021 Incentive Projects

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

Assumes:
$5,200 per Level 2 Connector
$55,000 per DC Fast Charger
Private Partner(s)  
Application Review and Processing  
Technical Assistance  
Project Website Management  

Contract with CSE to Fund CALeVIP Project  
CSE|Partner Coordinate with Energy Commission  
Project Design Complete  
Public Announcements, Joint Press Releases with CA Energy Commission  
Partner Injects Incentive Funding  

CSE Administration  

Project Launch  
CEC & Partner(s) inject funding  

Public EV Charging  
EV Chargers Installed & Interconnected  
EVI Energized  
CSE Administers Incentive Payments  
CSE Delivers Project Data to Partner  
Ongoing Project Data Reporting
CALeVIP Pillar Requirements

Process Requirements
- Online application process
- First-come first-served
- Applications not competitively scored
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
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
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
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
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
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
Partnership Modifications

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

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

Latest 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
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
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
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
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
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
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
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
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
Q&A

Center for Sustainable Energy Contacts

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Tyler Petersen

Tyler.Petersen@energycenter.org

Alex Kaufman

Alex.Kaufman@energycenter.org
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?docket
number=17-EVI-01

Recommend all comments be submitted online.