

DOCKETED

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Presentation for the CALeVIP 2021 Implementation Workshop

Additional submitted attachment is included below.

CALeVIP 2021 Implementation Workshop

The webinar will begin at 9:05 a.m.



March 11, 2021

Introductions

Moderator

Peter Colwell, Center for Sustainable Energy

Speakers

Brian Fauble, California Energy Commission

Andy Hoskinson, Center for Sustainable Energy



Before We Get Started

- Participants can submit questions in the chat box any time during the presentation.
- Due to high traffic, you may experience technical difficulties during this presentation. We apologize for potential delays or compromised presentation quality.
- If you miss any part of this presentation or have questions, contact us at calevip@energycenter.org.



Agenda

- CAlLeVIP Background
- Changes to Sacramento County Incentive Project
- Next Four Incentive Projects
- Approved Design Changes
- Electric Vehicle Infrastructure Training Program Requirements Implementation
- DCFC Site Connector Implementation
- Question & Answer Session



Background

Incentive Project	Launch Date	Counties	Funding	Technologies
Fresno County	December 2017	Fresno	\$4 million	Level 2
Southern California	August 2018	Los Angeles Orange Riverside San Bernardino	\$29 million	DC Fast Chargers
Sacramento County	April 2019	Sacramento	\$15.5 million ¹	Level 2 & DC fast chargers
Northern California	May 2019	Shasta Humboldt Tehama	\$4 million	Level 2 & DC fast chargers
Central Coast	October 2019	Monterey Santa Cruz San Benito	\$9 million ²	Level 2 & DC fast chargers
San Joaquin Valley	December 2019	San Joaquin Kern Fresno	\$14 million	Level 2 & DC fast chargers
Sonoma Coast	July 8, 2020	Mendocino Sonoma	\$6.75 million ³	Level 2 & DC fast chargers
San Diego County	October 27, 2020	San Diego	\$21.7 million ⁴	Level 2 & DC fast chargers
Peninsula-Silicon Valley	December 16, 2020	San Mateo Santa Clara	\$55.23 million ⁵	Level 2 & DC fast chargers
			Total: \$159.18 million	

- 1: Including \$1.5M from partner
- 2: Including \$3M over 3 years from partners
- 3: Including \$1.65M over 3 years from partners
- 4: Including \$5.9M over 3 years from partners
- 5: Including \$22.23M over 4 years from partners



Background

As of February 28, 2021

Paid / Installed			
Total Rebates	Total Sites	Total Level 2 Connectors	Total DC Fast Chargers
\$14,563,641	191	534	206

Currently Reserved			
Total Rebates	Total Sites	Total Level 2 Connectors	Total DC Fast Chargers
\$84,406,500	638	4,017	1,024



Background – Incentive Project Oversubscriptions

As of February 28, 2021

Oversubscribed Amounts by Incentive Project (Millions)

Incentive Project	DCFC	Level 2
Southern California DCFC	\$49.5	N/A
Sacramento County	\$2.8	Not Oversubscribed
Northern California	\$6.5	Not Oversubscribed
Central Coast*	\$11.7	Not Oversubscribed
San Joaquin Valley	\$31.5	\$0.2
Sonoma Coast*	\$17.1	\$4.3
San Diego County*	\$59.7	\$14.7
Peninsula-Silicon Valley*	\$52.7	\$18.2
Total:	\$231.5	\$37.4

CALeVIP Find a Project: <https://calevip.org/find-project>

* This project has partner funding in future Fiscal Years



Background – County Level Available Funding

As of February 28, 2021

Counties with Incentive Funds Currently Available

Incentive Project	County	DCFC	Level 2
Sacramento County	Sacramento	\$0	\$3,765,522
Northern California	Humboldt	\$0	\$159,827
	Shasta	\$0	\$452,000
	Tehama	N/A	\$1,000
Central Coast*	Monterey	\$0	\$174,500
	San Benito	\$85,000	\$24,500
	Santa Cruz	\$0	\$255,000
San Joaquin Valley	Fresno	\$0	\$0
	Kern	\$0	\$447,500
	San Joaquin	\$0	\$1,240,000

* This project has partner funding for two additional Fiscal Years



Changes to Sacramento County Incentive Project

- Current status (as of February 28, 2021)
 - Level 2 funding available: \$3.7 million
 - SMUD has committed to \$1.5 million additional investment in Level 2
 - DCFC funding oversubscribed: \$2.8 million
- Proposal: Shift \$1.5 million of CEC funding from Level 2 to DCFC funding
- Project closeout
 - Establish a documented procedure for all Incentive Projects



Changes to Sacramento County Incentive Project

Discussion

- Proposed \$1.5M shift of CEC funds from L2 to DCFC
- CALeVIP Project Closeout Planning



Next Four Incentive Projects

Incentive Project	Counties	Tentative Launch Date	Total CEC Funding
Inland Counties	Butte, El Dorado, Imperial, Kings, Merced, Napa, Nevada, Placer, Solano, Stanislaus, Sutter, Tulare, Yolo	May 12, 2021	\$17.5 million
South Central Coast	San Luis Obispo, Santa Barbara, Ventura	Q3 2021	\$7.1 Million
Alameda County	Alameda	Q4 2021	\$14 million
Southern California Level 2	Los Angeles, Orange, Riverside, San Bernardino	Q1 2022	\$22 million
Total:			\$60.6 million



Inland Counties Incentive Project

Landing Page is
Live!



Funding Allocations

County	Level 2 Funding (% gap addressing ¹)	DCFC Funding (% gap addressing ¹)	Total Funding
Butte	\$420,000 (51%)	\$450,000 (30%)	\$870,000
El Dorado	\$360,000 (50%)	\$580,000 (30%)	\$940,000
Imperial*	\$450,000 (70%)	\$510,000 (50%)	\$960,000
Kings*	\$700,000 (69%)	\$440,000 (50%)	\$1,140,000
Merced*	\$200,000 (69%)	\$460,000 (50%)	\$660,000
Napa	\$700,000 (50%)	\$300,000 (30%)	\$1,000,000
Nevada	\$280,000 (51%)	\$220,000 (30%)	\$500,000
Placer	\$700,000 (50%)	\$1,860,000 (30%)	\$2,560,000
Solano	\$260,000 (50%)	\$1,440,000 (30%)	\$1,700,000
Stanislaus*	\$880,000 (69%)	\$1,090,000 (50%)	\$1,970,000
Sutter	\$150,000 (53%)	\$300,000 (60%)	\$450,000
Tulare*	\$430,000 (69%)	\$590,000 (51%)	\$1,020,000
Yolo	\$2,300,000 (50%)	\$1,430,000 (30%)	\$3,730,000
Total:	\$7,830,000	\$9,670,000	\$17,500,000

¹Uses EVI Pro 1 for gap analysis

South Central Coast Incentive Project

Funding Allocations

County	Level 2 Funding (% gap addressing ¹)	DCFC Funding (% gap addressing ¹)	Total Funding
San Luis Obispo	\$400,000 (50%)	\$500,000 (30%)	\$900,000
Santa Barbara	\$1,450,000 (50%)	\$2,000,000 (30%)	\$3,450,000
Ventura	\$2,350,000 (50%)	\$400,000 (30%)	\$2,750,000
Total:	\$4,200,000	\$2,900,000	\$7,100,000

¹Uses EVI Pro 1 for gap analysis

Alameda County Incentive Project

Funding Allocations

County	Level 2 Funding (% gap addressing ¹)	DCFC Funding (% gap addressing ¹)	Total Funding
Alameda	\$6,000,000 (30%)	\$8,500,000 (39%)	\$14,500,000

¹Uses EVI Pro 1 for gap analysis

Southern California Level 2

- Scheduled to launch in Q1 2022
- Project design will use EVI Pro 2 for gap analysis
 - Available Spring 2021
- Will provide an opportunity for stakeholder review and comments at a future date



Next Four Incentive Projects

Questions?



Design Changes - Rebates

	Base	DAC/LIC Rebate or Adder	MUD Adder
Level 2	\$3,500 per connector or up to 75% of project cost, whichever is less (\$1,000 decrease)	\$500 adder (No Change)	\$2,000 adder (\$1,000 increase)
50kW – 99.9kW DCFC	\$30,000 per charger or up to 75% of project cost, whichever is less (\$20,000 decrease)	\$40,000 per charger or up to 75% of project cost, whichever is less (\$20,000 decrease)	N/A
100kW + DCFC	\$60,000 per charger or up to 75% of project cost, whichever is less (\$10,000 decrease)	\$80,000 per charger or up to 75% of project cost, whichever is less (No Change)	N/A



Design Changes

- Voluntary Invoice Template
 - Beginning with the Inland Counties Incentive Project
- DAC investment – 35% minimum
- Eligible costs can be incurred starting at landing page launch
 - All costs can be incurred starting the date that the project landing page is launched but are incurred at applicant's own risk prior to the funds reserved date
- Level 2 Limits for Combo Applications
 - Applicants are eligible to receive incentives for a maximum of four connectors when applying for Level 2 charging equipment in a Combo application



Design Changes

- **EVITP**
 - Required for applications moved into reserved status on or after 9/1/2021
 - San Diego County Incentive Project and beyond (Peninsula-Silicon Valley, Inland Counties, etc.)
- **DCFC Connector Requirements**
 - Beginning with the Alameda County Incentive Project
 - Any site with DCFCs must:
 - Have at least 1 CHAdeMO connector and
 - At least 50% of the total DCFC connectors must be CCS



Design Changes

Questions?



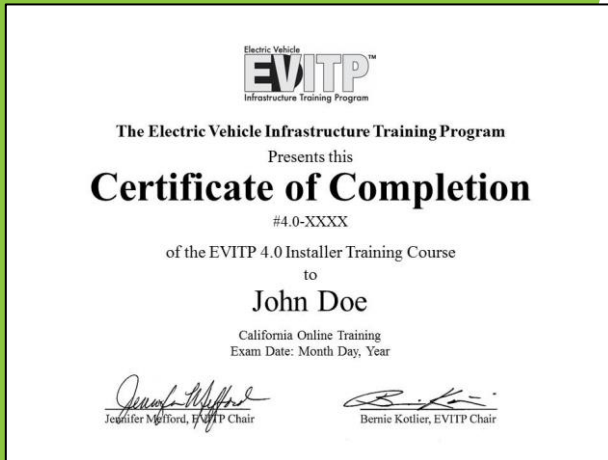
EVITP Implementation

Electric Vehicle Infrastructure Training Program (EVITP) requirements

- Consistent with AB 841 to be codified in CA Public Utilities Code 740.20
 - Electric vehicle charging infrastructure and equipment on customer side of meter to be installed by contractor with appropriate license classification and at least one electrician on each crew, at any given time, who holds EVITP certification.
 - If the electric vehicle charging supports a charging port supplying 25 kilowatts or more at least 25 percent of the total electricians working on the crew, at any given time, must hold EVITP certification.
- **Applications/projects not meeting the requirement will not receive a rebate**



EVITP Implementation



Required Documentation must be uploaded to the application for any payment (milestone or final)

- Job Site Installation Form
 - Total number of electricians on job, number of EVITP certified electricians, names and EVITP certification number for each EVITP certified electrician, completed and signed by electrical contractor
- For each EVITP certified electrician on the job
 - Copy of driver's license
 - Copy of EVITP Certificate of Completion

Verification with EVITP

- CSE will verify certification for each electrician via EVITP website lookup (tool is under construction by EVITP)



Registration Open for Next EVITP Training

- Next online EVITP training begins April 12, 2021
- 18-hour training completed over 5 days
- \$275 training cost includes exam fee
- Sign up by March 25 at <https://evitp.org/evitp-training-la/>



EVITP
Implementation

Questions?



DCFC Site Connector Implementation

Current CALeVIP projects through
South Central Coast Incentive Project

DCFC Definition:

*A dual standard charger, meaning
charger must have both CHAdeMO and
SAE CCS combo connectors, capable of
charging at 50kW-99.9kW or 100kW+
per pair of connectors.*

- Non-concurrent or concurrent charging at connector



Alameda County Incentive Project or
Later

DCFC Definition:

*A CHAdeMO or SAE CCS connector
that can serve a vehicle at or above
the minimum rebated power capacity
without any operational limitations.*

- Non-concurrent charging at connector may qualify for 50% CCS requirement and/or 1 CHAdeMO if non-current ratio does not exceed 2 connectors for every one that outputs power.



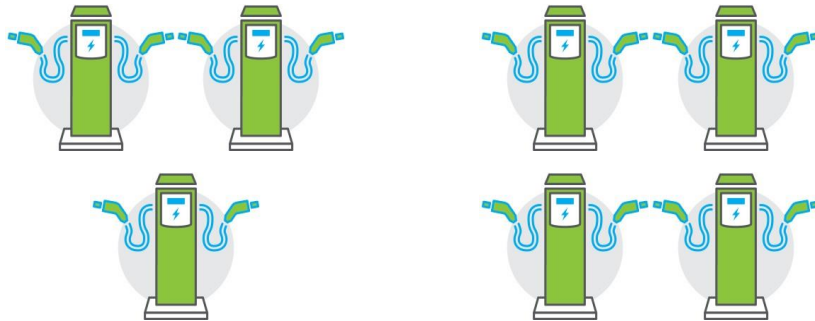
DCFC Site Connector Implementation

Current CALeVIP projects through South Central Coast Incentive Project

1 Rebate | **2 Rebates**



3 Rebates | **4 Rebates**



Alameda County Incentive Project or Later

No Rebates



1 Rebate | **2 Rebates**



Non-concurrent | Concurrent

3 Rebates | **4 Rebates**



DCFC Site Connector Implementation

Alameda County Incentive Project or Later

- New Eligible Equipment PDF created to capture DCFC equipment under new definition
- Equipment Selection portion of application modified to require selection and number of CHAdeMO or CCS connectors on DCFC dispenser capable of variable configuration
- Review of equipment invoices for matching selected and/or eligible equipment including ratio of non-concurrent DCFC, CHAdeMO and CCS counts/proportions



DCFC Site
Connector
Implementation

Questions?



Question and Answer Session

Questions?

Submit comments and questions now through chat, and please include your business or organization name.

Post-workshop:

- Workshop recording will be emailed to attendees by 3/31.
- Two ways to submit comments to [CEC Docket 17-EVI-01](#):

1) Electronic Commenting System: Visit the comment page for this docket:
<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=17-EVI-01>

2) Comment by E-mail:

E-mail: docket@energy.ca.gov

Subject Line: “17-EVI-01 CALeVIP 2021 Implementation Workshop”

All comments due by 5:00 pm on March 19, 2021



Thank You!

