**GRANT FUNDING OPPORTUNITY**

**Vehicle-to-Building Technologies for Resilient Backup Power**

**EPIC Program**



**GFO-21-303**

http://www.energy.ca.gov/contracts/index.html

**State of California**

**California Energy Commission**

October, 2021

**Updated December, 2021**

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| **Attachments**

| Attachment Number | Title of Section |
| --- | --- |
| 1 | Application Form ***(requires signature)*** |
| 2 | Executive Summary  |
| 3 | Project Narrative  |
| 4 | Project Team  |
| 5 | Scope of Work  |
| 6 | Project Schedule |
| 7 | Budget  |
| 8 | CEQA Compliance Form  |
| 9 | References and Work Product |
| 10 | Commitment and Support Letters ***(require signature)*** |
| 11 | Project Performance Metrics |
| 12 | Applicant Declaration ***(require signature)*** |
| 13 | References for Calculating Energy End-Use and GHG Emissions |
| 14 | **Special Terms and Conditions for California Native American Tribes** |

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# I. Introduction

**NOTE ABOUT SIGNATURES**

The CEC **may** have waived the requirement for a signature on application materials for this solicitation for electronic submissions. If a notice, regarding CEC’s waiver of the signature requirement appears here: https://www.energy.ca.gov/funding-opportunities/solicitations, the waiver applies to this solicitation. In the event of a conflict between the notice and any language in this solicitation regarding signatures, the notice will govern.

Even if the requirement for signatures has been waived, applicants are still expected to adhere to the requirements of this solicitation as if they had signed.

## Purpose of Solicitation

The purpose of this solicitation is to fund applied research and development and technology demonstration and deployment projects that support the 2021 Electric Program Investment Charge (EPIC) Interim Investment Plan initiative 7 titled “Vehicle to Building Technologies for Resilient Backup Power.”[[1]](#footnote-2)

California’s simultaneous transitions to zero emission transportation and decarbonized electricity systems will create opportunities to use growing deployments of plug-in electric vehicles (PEVs) for electric services. Systems that enable the use of energy stored in PEV batteries to power loads inside residential, commercial, **industrial,** or public [~~buildings~~] **facilities**—referred to as vehicle-to-building (V2B) technologies—can provide resilience and reliability benefits that help mitigate the impacts of power outages driven by extreme heat events, wildfires, and public safety power shutoffs. PEVs contain large batteries that could potentially provide the same backup power services as behind the meter stationary storage at a lower cost than purchasing a dedicated storage system and without the emissions associated with diesel backup generators.

This solicitation seeks to accelerate development of technologies and easy-to-implement products that allow individual or fleets of PEVs to power residential, commercial, **industrial,** or public ~~[buildings]~~**facilities** including but not limited to schools, community centers, or government facilities during electricity outages or intentional islanding events**. Proposals focused on discharging PEVs to power critical loads that are not physically located inside a building are eligible for this solicitation as long as the load is installed behind the customer meter and electrically interconnected to utility distribution systems through site wiring (i.e., demonstrations should not focus on supporting entirely off-grid loads).** Projects must fall within one of the following project groups, with Group 3 targeting demonstrations at public facilities located in disadvantaged communities (DACs)**/** [~~and/or~~] low-income communities (LICs) **and/or California Native American Tribes (Tribes)**:

* **Group 1**: Rule 21 Compliant or Exempt V2B Technologies
* **Group 2** Rule 21 Non-Compliant V2B Technologies and Enablers
* **Group 3**: Rule 21 Compliant or Exempt V2B Technologies Demonstrated at Public Buildings in DACs**/** [~~and/or~~] LICs **and/or Tribes**

These Groups reflect ongoing regulatory activity at the California Public Utilities Commission regarding interconnection requirements for distributed energy resources under Rule 21.[[2]](#footnote-3) A recent decision clarified and approved interconnection pathways for stationary, off-vehicle bidirectional chargers and instructed the state’s investor-owned utilities (IOUs) to develop safety requirements for limited pilot testing of mobile, on-vehicle bidirectional chargers that do not meet Rule 21 requirements.[[3]](#footnote-4) Groups 1 and 3 support technology demonstration and deployment projects that have higher levels of technology readiness and regulatory acceptance, whereas Group 2 supports applied research and development of earlier stage technologies for which interconnection requirements are not established.

See Part II of this solicitation for project eligibility requirements. Applications will be evaluated as follows: Stage One proposal screening and Stage Two proposal scoring. Applicants may submit multiple applications, though each application must address only one of the project groups identified above. If an applicant submits multiple applications that address the same project group, each application must be for a distinct project (i.e., no overlap with respect to the tasks described in the Scope of Work. An applicant is eligible to receive up to one award as a prime recipient.

Prospective applicants looking for partnering opportunities for this funding opportunity should register on the California Energy Commission’s Empower Innovation website at www.empowerinnovation.net.

## Key Words/Terms

| **Word/Term** | **Definition** |
| --- | --- |
| AC | Alternating current |
| Applicant | The entity that submits an application to this solicitation. |
| Application | An applicant’s written response to this solicitation. |
| Authorized Representative | *Authorized Representative*, the person signing the application form who has authority to enter into an agreement with the CEC.  |
| CAM | *Commission Agreement Manager,* the person designated by the CEC to oversee the performance of an agreement resulting from this solicitation and to serve as the main point of contact for the Recipient. |
| CAO | Commission Agreement Officer |
| CBO | Community Based Organization. A public or private nonprofit organization of demonstrated effectiveness that: 1. Has an office in the region (e.g., air basin or county) and meets the demographic profile of the communities they serve.
2. Has deployed projects and/or outreach efforts within the region (e.g., air basin or county) of the proposed disadvantaged or low-income community.
3. Has an official mission and vision statements that expressly identifies serving disadvantaged and/or low-income communities.
4. Currently employs staff member(s) who specialized in and are dedicated to – diversity, or equity, or inclusion, or is a 501(c)(3) non-profit.
 |
| CEC | State Energy Resources Conservation and Development Commission or [~~,~~ ]the California Energy Commission. |
| CEQA | California Environmental Quality Act, California Public Resources Code Section 21000 et seq. |
| Days | *Days refers to calendar days.* |
| DC | Direct current |
| Disadvantaged Community/DAC | These are communities designated pursuant to Health and Safety Code section 39711 as representing the top 25% scoring census tracts from CalEnviroScreen along with other areas with high amounts of pollution and low populations as identified by the California Environmental Protection Agency. (https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40) |
| Energy Equity | The fair distribution of benefits and burdens from energy production and consumption. |
| EPIC | *Electric Program Investment Charge,* the source of funding for the projects awarded under this solicitation. |
| EVITP | Electric Vehicle Infrastructure Training Program |
| Grid interactive | A system that is electrically interconnected with the distribution system. A grid interactive system may disconnect from the distribution system using switching hardware, such as a transfer switch. |
| IOU | *Investor-owned utility,* an electrical corporation as defined in in California Public Utilities Code section 218. For purposes of this EPIC solicitation, it includes Pacific Gas and Electric Co., San Diego Gas and Electric Co., and Southern California Edison Co. |
| Low Income Community/LIC | *Low-income Communities* are defined as communities within census tracts with median household incomes at or below 80 percent of the statewide median income or the applicable low-income threshold listed in the state income limits updated by the Department of Housing and Community Development. (https://www.hcd.ca.gov/grants-funding/income-limits/state-and-federal-income-limits.shtml)  |
| **California Tribal Organization** | **A corporation, association, or group controlled, sanctioned, or chartered by a California Native American tribe that is subject to its laws, the laws of the State of California, or the laws of the United States.** |
| **California** Native American Tribe/**Tribe** | [~~Native American tribe listed with the California Native American Heritage Commission (NAHC) for the purposes of Chapter 905 of the Statutes of 2004.9~~] **A Native American Tribe located in California that is on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004.** |
| NOPA | *Notice of Proposed Award,* a public notice by the CEC that identifies award recipients. |
| PEV | Plug-in electric vehicle |
| Pre-Commercial Technology | *Pre-commercial Technology* means a technology that has not reached commercial maturity or been deployed at scales sufficiently large and in conditions sufficiently reflective of anticipated actual operating environments to enable the appraisal of operational and performance characteristics, or of financial risks. |
| Pilot Test | *Pilot test* means small scale testing in the laboratory or testing on a small portion of the production line of the affected industry. Pilot tests help to verify the design and validity of an approach, and adjustments can be made at this stage before full-scale demonstrations |
| Principal Investigator | The technical lead for the applicant’s project, who is responsible for overseeing the project; in some instances, the Principal Investigator and Project Manager may be the same person.  |
| Project Manager | The person designated by the applicant to oversee the project and to serve as the main point of contact for the CEC. |
| Project Partner | An entity or individual that contributes financially or otherwise to the project (e.g., match funding, provision of a test, demonstration or deployment site), and does not receive CEC funds.  |
| Recipient |  An entity receiving an award under this solicitation. |
| Solicitation | This entire document, including all attachments, exhibits, any addendum and written notices, and questions and answers (“solicitation” may be used interchangeably with “Grant Funding Opportunity”).  |
| State | State of California |
| TRL | Technology readiness levels, are a method for estimating the maturity of technologies during the acquisition phase of a program.Source: U.S. Department of Energy, “Technology Readiness Assessment Guide”. <https://www2.lbl.gov/dir/assets/docs/TRL%20guide.pdf> |
| V2B | Vehicle-to-building |

## Project Focus

The solicitation supports development of V2B technologies at various stages of technology readiness and regulatory compliance. Groups 1 and 3 fund technology demonstration and deployment projects in real-world conditions with V2B technologies that have a higher technology readiness level (TRL, approximately 6-8). Group 2 funds applied research and development projects focused on laboratory testing or controlled demonstrations of earlier stage technologies (approximately TRL 3-5).

This solicitation is open to all [~~vehicle~~]**PEV** types and classes that have a primary function other than provision of backup power or other electric services. However, EPIC funds cannot be used to purchase **or lease** [~~vehicles~~]**PEVs** for the proposed project. Applicants may use match funds to purchase **or lease** [~~vehicles~~]**PEVs** (See section I.K for more information on Match Funds). **No EPIC funds or match funds may be used to purchase any diesel or fossil fueled generation systems.**

Proposals are encouraged to engage broad project partners including automotive and charging equipment manufacturers, charging service providers and aggregators, and electric utilities as relevant for the specific technology, demonstration, and target markets. Proposals are also encouraged to identify demonstration locations with high likelihood of experiencing public safety power shutoffs or other outages and to describe how the proposed V2B technology can increase resilience and reliability for California ratepayers. Projects requesting the maximum amount of funds are encouraged to propose larger demonstrations with multiple sites.

**Project requirements for all Groups**

Projects funded through this solicitation must advance the TRL of the proposed V2B technology and demonstrate and/or validate its ability power [~~building~~]**facility** loads using energy stored in on-board PEV batteries during outages or when intentionally islanded from utility distribution systems. Projects may, but are not required to, provide additional services beyond provision of backup power (for example, demand charge management or participation in demand response programs).

All proposals must describe a path to commercialization for the proposed V2B technology, including but not limited to: identification of beachhead and later markets; estimates of market size and number of interoperable PEVs; and technology or product development timeline(s).

As per AB 841 (Ting, 2020), which added Public Utilities Code section 740.20, all electrical vehicle charging infrastructure funded or authorized, in whole or in part, by the CEC must be installed by someone with an Electric Vehicle Infrastructure Training Program (EVITP) certification. While this requirement is not legislatively mandated for work performed before January 1, 2022, the CEC is applying this requirement to all project work resulting from this GFO, regardless of when it is installed. Therefore, all electric vehicle charging infrastructure and equipment located on the customer side of the electrical meter shall be installed by a contractor with the appropriate license classification, as determined by the Contractors’ State License Board, and at least one electrician on each crew, at any given time, who holds an EVITP certification. Projects that include installation of a charging port supplying 25 kilowatts or more to a vehicle must have at least 25 percent of the total electricians working on the crew for the project, at any given time, who hold EVITP certification. One member of each crew may be both the contractor and an EVITP certified electrician. The requirements stated above do not apply to any of the following:

1. Electric vehicle charging infrastructure installed by employees of an electrical corporation or local publicly owned electric utility.
2. Electric vehicle charging infrastructure funded by moneys derived from credits generated from the Low Carbon Fuel Standard Program (Subarticle 7 (commencing with Section 95480) of Article 4 of Subchapter 10 of Chapter 1 of Division 3 of Title 17 of the California Code of Regulations).
3. Single-family home residential electric vehicle chargers that can use an existing 208/240-volt outlet.
* **Group 1: Rule 21 Compliant or Exempt V2B Technologies**

Group 1 projects must demonstrate grid interactive V2B technologies that are compliant with Rule 21 as written (for example, off-board DC chargers with necessary certifications)**, bidirectional charging technologies that are exempt from certain Rule 21 requirements (for example, if participating in Emergency Load Reduction Program pilots),[[4]](#footnote-5)** or non-grid interactive V2B technologies for which Rule 21 is inapplicable. Group 1 projects are not required to be located in DACs**/** [~~and/or~~] LICs **and/or with Tribes**, however projects located in and benefiting DACs[~~,~~]**/** LICs[~~,~~] and/or [~~Native American~~] Tribes are eligible for additional points during scoring (see section IV.F for scoring criteria).

Projects must advance the technology readiness of a V2B system that enables safe disconnection from utility distribution systems and provision of backup power from the on-board PEV battery to [~~building~~]**site** loads through facility wiring. Projects must also evaluate the impact of V2B technologies on PEV battery degradation and any potential implications for battery warranty provisions.

Proposals to Group 1 must address the following requirements in the Project Narrative (Attachment 3):

* Describe the technical specifications of the proposed system, including but not limited to: inverter location, size, and capabilities; standards and communication protocols utilized; interoperability with different vehicle types and makes; and existing or planned certifications.
	+ Explain how these specifications align with the beachhead and target markets identified in technology commercialization plans.
* For projects demonstrating additional V2B applications beyond provision of backup power, describe the reasoning behind the additional functionality and implications for the technology and demonstration site design.
* Identify demonstration site(s) located in a California investor-owned utility (IOU) service territory.
	+ Describe how the site(s) were selected.
	+ Describe the extent to which the site(s) are subject to public safety power shutoffs or other outage events.
	+ Identify what bidirectional capable vehicles will access the site and any modifications required to enable bidirectional operations.
	+ Describe the customer segment(s) being represented, the critical loads that exist at the site and services they enable, and how the V2B system meets the targeted customer needs (e.g., peak and continuous rated power, minimum duration of backup power).
* Describe a measurement and verification plan detailing demonstration activities and steps to validate performance, including details on the number and duration of intentional grid disconnection events that will be used to validate provision of backup power.
	+ At the minimum, the measurement and verification plan must describe how the following data will be collected and reported: number, type/class, and make of vehicles used; power (kW) delivered over time; cumulative energy (kWh) delivered to site(s); PEV battery state of charge before and after charging and discharging events; qualitative and quantitative description of the critical service(s) enabled at site(s).
* Based on the power and energy requirements of the proposed site(s), develop specifications for a commercially available stationary behind-the-meter lithium-ion battery storage system. Use this equivalent stationary storage system as a baseline to compare the cost (e.g., total installed cost in $/kW and $/kWh backup available), performance (e.g., reliability, AC-AC round trip efficiency), and availability (e.g., maximum and average kWh backup available when needed, cumulative kWh available for discharge) of the proposed V2B system. Describe all assumptions and note that vehicle cost does not have to be included in the cost comparison to stationary storage.
	+ Explain how the proposed V2B system compares to the equivalent stationary storage baseline in terms of the cost and performance metrics above as well as any others considered important to the project. Include discussion of the cost and performance targets consistent with the Project Performance Metrics (Attachment 11).
* Describe how the impact of the V2B technology on PEV battery degradation will be evaluated. Examples include, but are not limited to: measuring cumulative Amp hour throughput for backup power and other electric services, quantifying cumulative capacity loss associated with provision of electric services, and developing any control strategies used to limit impacts to battery health.
* **Group 2: Rule 21 Non-Compliant V2B Technologies and Enablers**

Group 2 projects must conduct applied research and development [~~of~~]**on** grid interactive V2B technologies that are not compliant with Rule 21 as written[~~:~~] **(**for example, use of on-vehicle inverters to discharge AC electricity to [~~building~~]**facility** loads**), or other technology enablers for V2B products**. Group 2 projects can include laboratory testing and/or limited demonstrations in controlled environments such as those developed in support of the California IOU Vehicle-to-Grid (V2G) AC pilots created in CPUC Decision 20-09-035.[[5]](#footnote-6) **There are no location requirements for Group 2 projects, however projects located in and benefitting DACs/LICs and/or Tribes are eligible for additional points during scoring (see section IV.F for scoring criteria).**

Projects must advance the technology readiness of an innovative design(s) and/or prototype(s) of a V2B technology(ies) or enabling component(s) that reduces cost, increases performance, or eliminates other barriers to customer use or manufacturer integration. Examples of potential innovations include but are not limited to: development, testing, and/or limited demonstration of bidirectional on-board chargers; advancements that enable use of propulsion system components for bidirectional charging; software solutions for continuous battery health optimization through bidirectional charging.

Proposals to Group 2 must address the following requirements in the Project Narrative (Attachment 3):

* Describe the technical and competitive advantages of the proposed V2B technology compared to established configurations (for example, as currently allowed in Rule 21).
* Identify existing standards and those in development that are applicable to the proposed V2B technology or component and describe a plan for meeting all necessary safety and reliability requirements. Similarly, describe a plan for maximizing interoperability of the proposed V2B technology (for example, how a bidirectional on-board charger would function with bidirectional electric vehicle supply equipment from different manufacturers or across multiple premises).
* Describe a series of laboratory testing procedures and/or controlled demonstration activities that will be conducted during the project to validate the proposed V2B technology or enabling component.
	+ Describe how the proposed testing and/or demonstration activities will lead to specific improvements in cost competitiveness or performance of V2B technologies.
	+ If the project involves conducting limited field demonstrations as part of the California IOU V2G AC pilots, include a letter of support from the relevant IOU’s interconnection team and describe how the project will implement the safety and protection requirements set forth by IOUs.
* Explain how the project will support commercialization of the innovative V2B technology or enabling component and how it will contribute to broader market deployment of bidirectional charging capabilities.
* **Group 3: Rule 21 Compliant or Exempt V2B Technologies Demonstrated at Public Buildings in DACs/ [~~and/or~~] LICs and/or Native American Tribes**

Group 3 projects must demonstrate grid interactive V2B technologies that are compliant with Rule 21 as written**, bidirectional charging technologies that are exempt from certain Rule 21 requirements (for example, if participating in Emergency Load Reduction Program pilots),[[6]](#footnote-7)** or non-grid interactive V2B technologies for which Rule 21 is inapplicable at [~~buildings~~]**facilities** that are accessible to the public and located in disadvantaged**/** [~~and~~] low**-**income communities **and/or Tribes**.

Projects must advance the technology readiness of a V2B system that enables safe disconnection from utility distribution systems and provision of backup power from the on-board PEV battery to [~~building~~]**site** loads through facility wiring. Projects must also partner with community-based organizations (CBOs) in project design and execution to improve engagement, dissemination, and delivery of benefits **except for projects with Tribes**.

Proposals to Group 3 must address the following project requirements in the Project Narrative (Attachment 3):

* Identify one or more CBOs and describe their role in the project. **This is not required for projects with Tribes.**
* Describe the technical specifications of the proposed system, including but not limited to: inverter location, size, and capabilities; standards and communication protocols utilized; interoperability with different vehicle types and makes; and existing or planned certifications.
	+ Explain how these specifications align with the beachhead and target markets identified in technology commercialization plans.
* For projects demonstrating additional V2B applications beyond provision of backup power, describe the reasoning behind the additional functionality and implications for the technology and demonstration site design.
* Identify publicly accessible demonstration site(s) located both in a California IOU service territory and in a designated DAC**/** [~~or~~] LIC **and/or Tribe**.
	+ Describe how the site(s) was selected.
	+ Describe how community members will be informed of and granted access to the site(s).
	+ Describe the extent to which the site(s) are subject to public safety power shutoffs or other outage events.
	+ Identify what bidirectional capable vehicles will access the site and any modifications required to enable bidirectional operations.
	+ Describe the customer segment(s) being represented, the critical loads that exist at the site and services they enable, and how the V2B system meets the targeted customer needs (e.g., peak and continuous rated power, minimum duration of backup power).
* Describe a measurement and verification plan detailing demonstration activities and steps to validate performance, including details on the number and duration of intentional grid disconnection events that will be used to validate provision of backup power.
	+ At the minimum, the measurement and verification plan must describe how the following data will be collected and reported: number, type/class, and make of vehicles used; power (kW) delivered over time; cumulative energy (kWh) delivered to site(s); PEV battery state of charge before and after charging and discharging events; qualitative and quantitative description of the critical service(s) enabled at site(s).
* Based on the power and energy requirements of the proposed site(s), develop specifications for a commercially available stationary behind-the-meter lithium-ion battery storage system. Use this equivalent stationary storage system as a baseline to compare the cost (e.g., total installed cost in $/kW and $/kWh backup available), performance (e.g., reliability, AC-AC round trip efficiency), and availability (e.g., maximum and average kWh backup available when needed, cumulative kWh available for discharge) of the proposed V2B system. Describe all assumptions and note that vehicle cost does not have to be included in the cost comparison to stationary storage.
	+ Explain how the proposed V2B system compares to the equivalent stationary storage baseline in terms of the cost and performance metrics above as well as any others considered important to the project. Include discussion of the cost and performance targets consistent with the Project Performance Metrics (Attachment 11).

## Funding

1. **Amount Available and Minimum/ Maximum Funding Amounts**

There is **up to $19,500,000** available for grants awarded under this solicitation. The total, minimum, and maximum funding amounts for each project group are listed below.

| Project Group | Available funding | Minimum award amount | Maximum award amount | Minimum match funding(% of EPIC Funds Requested) |
| --- | --- | --- | --- | --- |
| Group 1: Rule 21 compliant or exempt V2B technologies | $6,000,000 | $3,000,000 | $4,000,000 | 30% |
| Group 2: Rule 21 non-compliant V2B technologies and enablers | $7,500,000 | $2,000,000 | $4,000,000 | 20% |
| Group 3: Rule 21 compliant or exempt V2B technologies demonstrated at public buildings in DACs, [~~and/or~~] LICs, and/or Tribes | $6,000,000 | $3,000,000 | $4,000,000 | 10% |

1. **Match Funding Requirement**

Match funding is required in the amount of at least 30 percent of the requested project funds for Group 1, 20 percent of requested project funds for Group 2, and 10 percent of the requested project funds for Group 3.

For the definition of match funding see Section I K.

1. **Change in Funding Amount**

Along with any other rights and remedies available to it, the California Energy Commission (CEC) reserves the right to:

* Increase or decrease the available funding and the minimum/maximum award amounts described in this section.
* Allocate any additional or unawarded funds to passing applications, in rank order.
* Reallocate funding between any of the groups
* Reduce funding to an amount deemed appropriate if the budgeted funds do not provide full funding for agreements. In this event, the Recipient and Commission Agreement Manager will reach agreement on a reduced Scope of Work commensurate with available funding.

## Key Activities Schedule

Key activities, dates, and times for this solicitation and for agreements resulting from this solicitation are presented below. An addendum will be released if the dates change for activities that appear in **bold.**

| ACTIVITY | DATE | TIME[[7]](#footnote-8)  |
| --- | --- | --- |
| Solicitation Release | 10/26/2021 |  |
| **Pre-Application Workshop** | **11/09/2021** | **10:00 a.m.** |
| **Deadline for Written Questions[[8]](#footnote-9)** | 11/15/2021 | **5:00 p.m.** |
| Anticipated Distribution of Questions and Answers  | week of 12/13/2021 |  |
| **Deadline to Submit Applications** | **01/28/2022** | **11:59 p.m.** |
| Anticipated Notice of Proposed Award Posting Date | 03/14/2022 |  |
| Anticipated Energy Commission Business Meeting Date | 07/13/2022 |  |
| Anticipated Agreement Start Date | 08/22/2022 |  |
| Anticipated Agreement End Date  | 01/30/2026 |  |

## Notice of Pre-Application Workshop

CEC staff will hold one Pre-Application Workshop to discuss the solicitation with potential applicants. Participation is optional but encouraged. The Pre-Application Workshop will be held remotely Applicants may attend the workshop via the internet (Zoom, see instructions below), or via conference call on the date and at the time and location listed below. Please call (916) 654-4381 or refer to the CEC's website at www.energy.ca.gov/contracts/index.html to confirm the date and time.

**Date and time:** 11/09/2021 10 a.m. – 12 p.m.

**Zoom Instructions:**

To join the Zoom meeting, go to https://zoom.us/joinand enter the Meeting ID below and select “join from your browser.” Participants will then enter the meeting password listed below and their name. Participants will select the “Join” button.:

**Meeting ID:** 928 6406 9949

https://energy.zoom.us/j/92864069949?pwd=QUVXclNWUlg2TGU5T3Zhcy82OXZWUT09

**Meeting Password:** v2b4rbp

**Topic:** Pre-bid workshop for Vehicle to Building for Resilient Backup Power

**Telephone Access Only:**

Call **1-888-475-4499** (Toll Free) or **1-877-853-5257** (Toll Free). When prompted, enter the meeting number above. International callers may select a number from the Zoom International Dial-in Number List at: https://energy.zoom.us/u/adjzKUXvoy. To comment, dial \*9 to “raise your hand” and \*6 to mute/unmute your phone line.

**Access by Mobile Device:**

Download the application from the Zoom Download Center, https://energy.zoom.us/download.

**Technical Support:**

* For assistance with problems or questions about joining or attending the meeting,

please call Zoom Technical Support at **1-888-799-9666 ext. 2.** You may also contact the CEC’s Public Advisor’s Office at publicadvisor@energy.ca.gov, or 800-822-6228.

* System Requirements: To determine whether your computer is compatible, visit:

 https://support.zoom.us/hc/en-us/articles/201362023-System-requirements-for-Windows-macOS-and-Linux.

* If you have a disability and require assistance to participate, please Erica Rodriguez by e-mail at Erica.Rodriguez@energy.ca.gov or (916) 764-5705 at least five days in advance.

## Questions

During the solicitation process, direct questions to the Commission Agreement Officer listed below:

Marissa Sutton, Commission Agreement Officer

California Energy Commission

715 P Street, MS-18

Sacramento, California, 95814

Telephone: (916) [~~896-1586~~] **237-2515**

E-mail: Marissa.Sutton@energy.ca.gov

Applicants may ask questions at the Pre-Application Workshop[~~,~~] and may submit written questions via e-mail. However, all **technical** questions must be received by the deadline listed in the “Key Activities Schedule” above. Questions received after the deadline may be answered at the CEC's discretion. **Non-technical** questions (e.g., questions concerning application format requirements or attachment instructions) may be submitted to the Commission Agreement Officer (CAO) at any time prior to 5:00 p.m. of the application deadline date.

The questions and answers will also be posted on the Commission’s website at: https://www.energy.ca.gov/funding-opportunities/solicitations

If an applicant discovers a **conflict, discrepancy, omission, or other error** in the solicitation at any time prior to 5:00 p.m. of the application deadline date, the applicant may notify the CEC in writing and request modification or clarification of the solicitation. The CEC, at its discretion will provide modifications or clarifications by either an addendum to the solicitation or by written notice to all entities that requested the solicitation. At its discretion, the CEC may, in addition to any other actions it may choose, re-open the question/answer period to provide all applicants the opportunity to seek any further clarification required.

**Any verbal communication with a Commission employee concerning this solicitation is not binding on the State and will in no way alter a specification, term, or condition of the solicitation. Therefore, all communication should be directed in writing to the assigned CAO.**

1. **Applicants’ Admonishment**

This solicitation contains application requirements and instructions. Applicants are responsible for **carefully reading** the solicitation, asking appropriate questions in a timely manner, ensuring that all solicitation requirements are met, submitting all required responses in a complete manner by the required date and time, and **carefully rereading** the solicitation before submitting an application. In particular, please carefully read the **Screening/Scoring Criteria and** **Grounds for Rejection** in Part IV, and the relevant EPIC Grant terms and conditions located at: http://www.energy.ca.gov/research/contractors.html.

Applicants are solely responsible for the cost of developing applications. This cost cannot be charged to the State. All submitted documents will become publicly available records upon the posting of the Notice of Proposed Award.

1. **additional requirements**
* Time is of the essence. Funds available under this solicitation have encumbrance deadlines as early as June 30, 2023. This means that the CEC must approve proposed awards at a business meeting (usually held monthly) prior to June 30, 2023 in order to avoid expiration of the funds. Prior to approval and encumbrance, the CEC must comply with the California Environmental Quality Act (CEQA). To comply with CEQA, the Commission must have CEQA-related information from applicants and sometimes other entities, such as local governments **or Tribes**, in a timely manner. Unfortunately, even with this information, the Commission may not be able to complete its CEQA review prior to the encumbrance deadline for every project. For example, if a project requires an Environmental Impact Report, the process to complete it can take many months. For these reasons, it is critical that applicants organize project proposals in a manner that minimizes the time required for the Commission to comply with CEQA and provide all CEQA-related information to the Commission in a timely manner such that the Commission is able to complete its review in time for it to meet its encumbrance deadline.
* Reservation of right to cancel proposed award. In addition to any other right reserved to it under this solicitation or that it otherwise has, if the CEC determines, in its sole and absolute discretion, that the CEQA review associated with a proposed project would not likely be completed prior to the encumbrance deadline referenced above, and that the Commission’s ability to meet its encumbrance deadline may thereby be jeopardized, the CEC may cancel a proposed award and award funds to the next highest scoring applicant, regardless of the originally proposed applicant’s diligence in submitting information and materials for CEQA review. Examples of situations that may arise related to CEQA review include but are not limited to:
* Example 1: If another state agency or local jurisdiction, such as a city or county, has taken the role of lead agency under CEQA, the CEC’s review may be delayed while waiting for a determination from the lead agency.
* Example 2: If the proposed work is part of a larger project for which a detailed environmental analysis has been or will be prepared by another state agency or local jurisdiction, the CEC’s review may be delayed as a result of waiting for a supplemental or initial analysis, respectively, from the other agency.
* Example 3: If the nature of the proposed work is such that a project is not categorically or otherwise exempt from the requirements of CEQA, and an initial study or other detailed environmental analysis appears to be necessary, the CEC’s review, or the lead agency’s review, may take longer than the time available to encumber the funds. If an initial study or environmental impact report has already been completed by another state agency or a local jurisdiction, serving as the lead agency, the applicant must ensure that such an analysis covers the work in the proposed project, or must obtain a revised analysis and determination from the lead agency reviewing the proposed project.
* Example 4: If the proposed project clearly falls under a statutory or categorical exemption, or is project for which another state agency or local jurisdiction has already adopted a CEQA finding that the project will cause no significant effect on the environment, the project will likely have greater success in attaining rapid completion of CEQA requirements.
* **Example 5: If the proposed project will be conducted on tribal land, the Tribe having jurisdiction over the project may conduct environmental review under their own ordinances. The Energy Commission’s review may be delayed while waiting for a determination from the Tribe.**

The above examples are not exhaustive of instances in which the CEC may or may not be able to comply with CEQA within the encumbrance deadline and are only provided as further clarification for potential applicants. Please plan project proposals accordingly.

1. **Background**
2. **Electric Program Investment Charge (EPIC) Program**

This solicitation will award projects funded by the EPIC, an electricity ratepayer surcharge established by the California Public Utilities Commission (CPUC) in December 2011.[[9]](#footnote-10) The purpose of the EPIC program is to benefit the ratepayers of three investor-owned utilities (IOUs), including Pacific Gas and Electric Co., San Diego Gas and Electric Co., and Southern California Edison Co. The EPIC funds clean energy technology projects that promote greater electricity reliability, lower costs, and increased safety.[[10]](#footnote-11) In addition to providing IOU ratepayer benefits, funded projects must lead to technological advancement and breakthroughs to overcome the barriers that prevent the achievement of the state’s statutory energy goals.[[11]](#footnote-12) The EPIC program is administered by the CEC and the IOUs.

* **Program Areas, Strategic Objectives, and Funding Initiatives**

EPIC projects must fall within the following **program areas** identified by the CPUC:

* Applied research and development;
* Technology demonstration and deployment; and
* Market facilitation.

In addition, projects must fall within one of the general focus areas (**“strategic objectives”**) identified in the CEC’s EPIC Investment Plans[[12]](#footnote-13) [[13]](#footnote-14) and within one or more specific focus areas (**“funding initiatives”**) identified in the plan. This solicitation targets the following program areas and funding initiative:

**2021 EPIC Interim Investment Plan**

* **Program Area**: Applied Research and Development &Technology Demonstration and Deployment]
	+ **Funding Initiative 7**: Vehicle-to-Building Technologies for Resilient Backup Power
* **Applicable Laws, Policies, and Background Documents**

This solicitation addresses the energy goals described in the following laws, policies, and background documents.

Laws/Regulations

* **Assembly Bill (AB) 32[[14]](#footnote-15) - Global Warming Solutions Act of 2006**

AB 32created a comprehensive program to reduce greenhouse gas (GHG) emissions in California. GHG reduction strategies include a reduction mandate of 1990 levels by 2020 and a cap-and-trade program. AB 32 also required the California Air Resources Board (ARB) to develop a Scoping Plan that describes the approach California will take to reduce GHGs. ARB must update the plan every five years.

Additional information: http://www.leginfo.ca.gov/pub/15-16/bill/sen/sb\_0001-0050/sb\_32\_bill\_20160908\_chaptered.htm

Applicable Law: California Health and Safety Code §§ 38500 et. seq.

* **Senate Bill (SB) 32 - California Global Warming Solutions Act of 2006: emissions limit**

AB 32 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of greenhouse gas (GHG) emissions. The state board is required to approve a statewide GHG emissions limit equivalent to the statewide GHG emissions level in 1990 to be achieved by 2020 and to adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective GHG emissions reductions. This requires the state board to ensure that statewide GHG emissions are reduced to 40% below the 1990 level by 2030.

Additional information: https://ww3.arb.ca.gov/cc/scopingplan/scopingplan.htm

* + **SB X1-2[[15]](#footnote-16) - Renewables Portfolio Standard,**

SB X1-2 expanded California’s Renewables Portfolio Standard (RPS) goals and requires retail sellers of electricity and local publicly owned electric utilities to increase their procurement of eligible renewable energy resources to 20 % by the end of 2013, 25 % by the end of 2016, and 33 % by the end of 2020.

Applicable Law: California Public Utilities Code § 399.11 et seq.

* **AB 2514[[16]](#footnote-17) - Energy Storage Systems,**

AB 2514 required the CPUC to determine targets for the procurement of viable, cost-effective energy storage systems by load-serving entities. The CPUC adopted the procurement targets in Decision 13-10-040, issued on October 17, 2013 (see the summary of Decision 13-10-040 in the “Policies/Plans” section below).

Additional information: http://www.cpuc.ca.gov/general.aspx?id=3462

Applicable Law: California Public Utilities Code §§ 2835 et. seq., and § 9620 (http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\_id=200920100AB2514)

* **SB 350[[17]](#footnote-18) Clean Energy and Pollution Reduction Act of 2015,**

SB 350 does the following: 1) expands California’s RPS goals and requires retail sellers of electricity and local publicly owned electricity to increase their procurement of eligible renewable energy resources; 2) requires the Energy Commission to establish annual targets for statewide energy efficiency savings in electricity and natural gas final end uses of retail customers by January 1, 2030; and 3) provide for transformation of the Independent System Operator into a regional organization.

Additional information: http://www.leginfo.ca.gov/pub/15-16/bill/sen/sb\_0301-0350/sb\_350\_bill\_20151007\_chaptered.htm

* **SB 100 - The 100 Percent Clean Energy Act of 2018**

SB 100 requires that 100 % of retail sales of electricity to California end-use customers and 100 % of electricity procured to serve all state agencies come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. The bill requires the CPUC and the Energy Commission, in consultation with the California Air Resources Board to ensure that California’s transition to a zero-carbon electric system does not cause or contribute to greenhouse gas emissions (GHG) increases elsewhere in the western grid.

Additional information: https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill\_id=201720180SB100

* **SB 676 – Electric Vehicles Grid Integration**

SB 676 requires that CPUC establish strategies and quantifiable metrics to maximize the use of feasible and cost-effective electric vehicle grid integration and to consider vehicle grid integration in relevant proceedings regarding its potential to mitigate electrical system costs and increase economic, social, and environmental benefits. The bill requires reporting by IOUs and community choice aggregators of information related to vehicle grid integration strategies and programs implemented.

* **California Energy Code**

The Energy Code is a component of the California Building Standards Code, and is published every three years through the collaborative efforts of state agencies including the California Building Standards Commission and the Energy Commission. The Code ensures that new and existing buildings achieve energy efficiency and preserve outdoor and indoor environmental quality through use of the most energy ef­ficient technologies and construction.

Additional information: http://www.energy.ca.gov/title24/

Applicable Law: California Code of Regulations, Title 24, Part 6 and associated administrative regulations in Part 1

Policies/Plans

* **Integrated Energy Policy Report (Biennial)**

California Public Resources Code Section 25302 requires the Energy Commission to release a biennial report that provides an overview of major energy trends and issues facing the state. The IEPR assesses and forecasts all aspects of energy industry supply, production, transportation, delivery, distribution, demand, and pricing. The Energy Commission uses these assessments and forecasts to develop energy policies and provide recommendations for future research and analysis areas.

Additional information: http://www.energy.ca.gov/energypolicy

Applicable Law: California Public Resources Code § 25300 et seq.

* **New Residential Zero Net Energy Action Plan 2015-2020**

The Residential New Construction Zero Net Energy Action Plan supports the California Energy Efficiency Strategic Plan’s goal to have 100 % of new homes achieve zero net energy beginning in 2020. The action plan provides a foundation for the development of a robust and self-sustaining zero net energy market for new homes.

Additional information: <http://www.californiaznehomes.com/>

* **Executive Order N-79-20**

Governor Newsom’s Executive Order N-79-20 ordered several actions to combat the climate crisis including the establishment of new statewide targets to reach 100 percent sales of new passenger vehicles being zero emission by 2030, transition to 100 percent zero-emission drayage trucks by 2035, and 100 percent zero-emission medium- and heavy-duty vehicles by 2045 where feasible.

Additional information: https://www.gov.ca.gov/wp-content/uploads/2020/09/9.23.20-EO-N-79-20-text.pdf

Reference Documents

Refer to the link below for information about past CEC research projects and activities:

* http://www.energy.ca.gov/research/
1. **Match Funding**
* **“Match funds”** includes cash or in-kind (non-cash) contributions provided by the applicant, subcontractors, or other parties including pilot testing, demonstration, and/or deployment sites (e.g., test site staff services) that will be used in performance of the proposed project.

“Match funds” do not include: CEC awards, EPIC funds received from other sources, future/contingent awards from other entities (public or private), the cost or value of the project work site, or the cost or value of structures or other improvements affixed to the project work site permanently or for an indefinite period of time (e.g., photovoltaic systems).

Definitions of “match funding” categories are listed below:

* + - **“Cash”** **match** means funds that are in the recipient’s possession or proposed by match partner and clearly identified in a support letter, and are reserved for the proposed project, meaning that they have not been committed for use or pledged as match for any other project. Cash match can include funding awards earned or received from other agencies for the proposed technologies or study (but not for the identical work). Proof that the funds exist as cash is required. Cash match will be considered more favorably than in-kind contributions during the scoring phase.
		- **“In-Kind”** **match** is typically in the form of the value of personnel, goods, and services, including direct and indirect costs. This can include equipment, facilities, and other property as long as the value of the contribution is based on documented market values or book values, prorated for its use in the project, and depreciated or amortized over the term of the project using generally accepted accounting principles (GAAP).
* Match funds must be spent only during the agreement term, either before or concurrently with EPIC funds. Match funds also must be reported in invoices submitted to the CEC.
* All applicants providing match funds must submit commitment letters, **including prime and subcontractors**, that: (1) identify the source(s) of the funds; (2) justify the dollar value claimed; (3) provide an unqualified (i.e., without reservation or limitation) commitment that guarantees the availability of the funds for the project; and (4) provide a strategy for replacing the funds if they are significantly reduced or lost. Please see Attachment 11, Commitment and Support Letter Form. Commitment and support letters must be submitted with the application to be considered.
* Any match pledged in Attachment 1 must be consistent with the amount or dollar value described in the commitment letter(s) (e.g., if $5,000 “cash in hand” funds are pledged in a commitment letter, Attachment 1 must match this amount). Only the total amount pledged in the commitment letter(s) will be considered for match funding points.

Examples of preferred match share:

* + - **“Travel”** refers to all travel required to complete the tasks identified in the Scope of Work. Travel includes in-state and out-of-state, and travel to conferences. EPIC funds are limited to lodging and any form of transportation (e.g., airfare, rental car, public transit, parking, mileage). Use of match funds for out-of-state travel is encouraged, as the CEC discourages and may not approve the use of its funds for such travel. If an applicant plans to travel to conferences, including registration fees, they must use match funds. Applicants shall adhere to travel restrictions of using state funds to travel to certain other states pursuant to AB 1887 (2016) and codified at California Government Code Section 11139.8. All applicants are encouraged to consider the Attorney General’s website https://oag.ca.gov/ab1887 for a current list of states subject to travel restrictions. Awarded Grants under this solicitation shall not contain travel paid for with Commission funds (applicants can instead use match funds) to the listed states unless the Commission approves in writing that the trip falls within one of the exceptions under the law.
		- **“Equipment” is** an item with a unit cost of at least $5,000 and a useful life of at least one year. **Purchasing equipment with match funding is encouraged** as there are no disposition requirements at the end of the agreement for such equipment. Typically, grant recipients may continue to use equipment purchased with CEC funds if the use is consistent with the intent of the original agreement.
		- **“Materials”** under Materials and Miscellaneous are items under the agreement that do not meet the definition of Equipment (unit cost of at least $5,000 and a useful life of at least one year). **Using match funds for purchasing items such as laptops, notebooks and/or personal tablets is encouraged, as Energy Commission funds for these purchases is not allowed.**
1. **Funds Spent in California**
* Only CEC reimbursable funds counts towards funds spent in California total.
* "Spent in California" means that:
	+ (1) Funds in the "Direct Labor category and all categories calculated based on direct labor (e.g., fringe benefits, indirect costs and profit) are paid to individuals that pay California state income taxes on wages received for work performed under the agreement. Payments made to out-of-state workers do not count as “funds spent in California.” However, funds spent by out-of-state workers in California (e.g., hotel and food) can count as “funds spent in California.”; AND
	+ (2) Business transactions (e.g., material and equipment purchases, leases, and rentals) are entered into with a business located in California.
	+ (3) Total should include any applicable subcontractors.
* Airline ticket purchases for out-of-state travel and payments made to out-of-state workers are not considered funds “spent in California.” However, funds spent by out-of-state workers in California (e.g. lodging) and airline travel originating and ending in California are considered funds “spent in California.” A business located in California means: 1) businesses registered with Secretary of State AND 2) transaction is with a location in California that is directly related to the grant project (e.g., direct purchase of material and equipment to be used in the grant) and results in the support of California business and jobs.
	+ Example 1: Grant funds will be spent on temperature sensors.  The temperature sensors are manufactured in Washington. The recipient orders the temperature sensors directly from a CA based supply house.  The invoice shows that the transaction occurred with the CA based supply house. This transaction is eligible and can be counted as funds spent in CA.
	+ Example 2: Grant funds will be spent on temperature sensors. The temperature sensors are manufactured in Washington. The recipient orders the temperature sensors directly from Washington.  The manufacturer has training centers in CA that instructs purchasers on how to use the sensors. The invoice shows that the transaction occurred in Washington. This transaction is not eligible and cannot be counted as funds spent in CA.

# II. Eligibility Requirements

## Applicant Requirements

1. **Eligibility**

This solicitation is open to all [~~public and private~~] entities with the exception of local publicly owned electric utilities.[[18]](#footnote-19) In accordance with CPUC Decision 12-05-037, funds administered by the CEC may not be used for any purposes associated with local publicly owned electric utility activities.

1. **Terms and Conditions**

Each grant agreement resulting from this solicitation will include terms and conditions that set forth the recipient’s rights and responsibilities. By signing the Application Form (Attachment 1), each applicant agrees to enter into an agreement with the CEC to conduct the proposed project according to the terms and conditions that correspond to its organization, without negotiation: (1) University of California and California State University terms and conditions; (2) U.S. Department of Energy terms and conditions; [~~or~~] (3) **special terms and conditions for Tribes and tribal corporations; and (4)** standard terms and conditions. All terms and conditions are located at http://www.energy.ca.gov/research/contractors.html**, with the exception of special terms and conditions for California Native American Tribe (Tribe) or a California Tribal Organization (Tribal Organization), which will be posted on this GFO website**. Please refer to the applicable EPIC Grant terms and conditions. Failure to agree to the terms and conditions by taking actions such as failing to sign the Application Form or indicating that acceptance is based on modification of the terms will result in **rejection** of the application. Applicants **must** **read** the terms and conditions carefully.The CEC reserves the right to modify the terms and conditionsprior to executing grant agreements.

**If a Tribe or Tribal Organization with sovereign immunity is listed as a proposed awardee in the Notice of Proposed Awards (NOPA), CEC staff must receive the following before bringing the proposed award to Business Meeting:**

**1.** **A resolution or other authorizing document by the governing body of the Tribe or Tribal Organization authorizing the Tribe or Tribal Organization to enter into the proposed agreement, including accepting the Special Terms and Conditions for California Native American Tribes and California Tribal Organizations with Sovereign Immunity (see Attachment 14).**

**2.** **A limited waiver of sovereign immunity in the form and manner required by tribal law; and**

**3.** **A resolution or other authorizing document delegating authority to execute the agreement to an appropriate individual.**

**The above requirements may be provided in one or more documents. The document(s) will be included as an exhibit to the resulting grant agreement.**

**Delay in award. Any delay in the Tribe or Tribal Organization’s ability to provide such documentation may result in delayed award of the grant agreement.**

**Reservation of right to cancel proposed award. Funds available under this solicitation have encumbrance deadlines which the CEC must meet in order to avoid expiration of the funds. In addition to any other rights reserved to it under this solicitation or that it otherwise has, the CEC reserves the right to cancel a proposed award if it determines, in its sole and absolute discretion, that the documentation described above would likely not be provided prior to an encumbrance deadline, and that the CEC’s ability to meet its encumbrance deadline may thereby be jeopardized. In this instance, the CEC may cancel the proposed award and award funds to the next highest scoring applicant.**

1. **California Secretary of State Registration**

All corporations, limited liability companies (LLCs), limited partnerships (LPs) and limited liability partnerships (LLPs) that conduct intrastate business in California are required to be registered and in good standing with the California Secretary of State prior to its project being recommended for approval at an CEC Business Meeting.  If not currently registered with the California Secretary of State, applicants are encouraged to contact the Secretary of State’s Office as soon as possible to avoid potential delays in beginning the proposed project(s) (should the application be successful).  For more information, contact the Secretary of State’s Office via its website at www.sos.ca.gov.  Sole proprietors using a fictitious business name must be registered with the appropriate county and provide evidence of registration to the CEC prior to their project being recommended for approval at an CEC Business Meeting.

1. **Disadvantaged/ [~~&~~] Low-income Communities and/or Tribes**

At least 25% of available Electric Program Investment Charge (EPIC) technology demonstration and deployment funding must be allocated to project sites located in, and benefiting, disadvantaged communities; and an additional minimum 10% of funds must be allocated to projects sites located in and benefiting low-income communities.[[19]](#footnote-20) The Energy Commission in administering EPIC must also take into account adverse localized health impacts of proposed projects to the greatest extent possible,[[20]](#footnote-21) and give preference for funding to clean energy projects that benefit residents of low-income or disadvantaged communities.[[21]](#footnote-22)

The California Energy Commission is committed to ensuring all Californians have an opportunity to participate in and benefit from programs and services. While it is not required that Group 1 and Group 2 projects complete the demonstration within a [~~disadvantaged community~~] **DAC/LIC and/or Tribe**, demonstration projects located and benefiting [~~disadvantaged and/or low-income communities~~] **DACs/LICs and/or Tribes** will be [~~considered~~] **eligible for preference points** under the scoring criteria for this GFO.

Disadvantaged Communities are those designated pursuant to Health and Safety Code section 39711 as representing the 25% highest scoring census tracts in CalEnviroScreen or other areas with high amounts of pollution and low populations as identified by CalEPA. Please see https://calepa.ca.gov/envjustice/ghginvest/ for the most current CalEPA designations.

“Low-income communities” are defined as communities within census tracts with median household incomes at or below either of the following levels:

1. Eighty percent of the statewide median income.
2. The applicable low-income threshold listed in the state income limits updated by the Department of Housing and Community Development and filed with the Office of Administrative Law pursuant to subdivision (c) of Section 50093 of the Health and Safety Code.

Visit the California Department of Housing & Community Development site for the current HCD State Income Limits at: http://www.hcd.ca.gov/grants-funding/income-limits/index.shtml. Disadvantaged communities are defined as areas representing census tracts scoring in the top 25% in CalEnviroScreen. For more information on disadvantaged communities and to determine if your project is in a disadvantaged community, use the California Communities Environmental Health Screening tool (CalEnviroScreen) at:

https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40

Another resource is the Healthy Places Index Tool for California, located at: https://healthyplacesindex.org/

## Project Requirements

1. **Applied Research and Development & Technology Demonstration and Deployment Stages**

Group 2 projects must fall within the “applied research and development” stage, which includes activities that support pre-commercial technologies and approaches that are designed to solve specific problems in the electricity sector. Applied research and development activities include early, pilot-scale testing activities that are necessary to demonstrate the feasibility of pre-commercial technologies.

Group 1 and Group 3 projects must fall within the “technology demonstration and deployment” stage, which involves the installation and operation of pre-commercial technologies or strategies at a scale sufficiently large and in conditions sufficiently reflective of anticipated actual operating environments to enable appraisal of operational and performance characteristics, and of financial risks.**[[22]](#footnote-23)**

1. **Ratepayer Benefits, Technological Advancements, and Breakthroughs**

California Public Resources Code Section 25711.5(a) requires EPIC-funded projects to:

* Benefit electricity ratepayers; and
* Lead to technological advancement and breakthroughs to overcome the barriers that prevent the achievement of the state’s statutory energy goals.

The CPUC defines “ratepayer benefits” as greater reliability, lower costs, and increased safety.**[[23]](#footnote-24)** The CPUC has also adopted the following guiding principles as complements to the key principle of electricity ratepayer benefits: societal benefits; GHG emissions mitigation and adaptation in the electricity sector at the lowest possible cost; the loading order; low-emission vehicles/transportation; economic development; and efficient use of ratepayer monies.**[[24]](#footnote-25)**

Accordingly, the Project Narrative Form (Attachment and the “Goals and Objectives” section of the Scope of Work Template (Attachment) must describe how the project will: (1) benefit California IOU ratepayers by increasing reliability, lowering costs, and/or increasing safety; and (2) lead to technological advancement and breakthroughs to overcome barriers to achieving the state’s statutory energy goals. Any estimates of energy and water savings or GHG impacts must be calculated using the References for Calculating Electricity End-Use, Electricity Demand, and GHG Emissions (Attachment.

1. **Technology Transfer Expenditures**

To maximize the impact of EPIC projects and to promote the further development and deployment of EPIC-funded technologies, a minimum of 5 percent of CEC funds requested should go towards technology transfer activities. Appropriate technology transfer activities for this solicitation are listed in the Scope of Work Template (Attachment). The Budget Forms (Attachment) should clearly distinguish funds dedicated for technology transfer.

To maximize the impact of EPIC projects and to promote the further development and deployment of EPIC-funded technologies, a minimum of 5 percent of CEC funds requested should go towards technology transfer activities. Appropriate technology transfer activities for this solicitation are listed in the Scope of Work Template (Attachment). The Budget Forms (Attachment) should clearly distinguish funds dedicated for technology transfer.

1. **Community Based Organizations and/or Tribal Engagement**

Group 3 projects must allocate appropriate funding for CBO and/or tribal engagement for relevant tasks under the scope of work. For projects located in and benefitting DACs and/or LICs, a CBO must be included on the project team and within the project budget. The CBO should meet, and will be evaluated on the following criteria for this solicitation:

1. Has an office in the region (e.g., air basin or county) and meets the demographic profile of the communities they serve.
2. Has deployed projects and/or outreach efforts within the region (e.g., air basin or county) of the proposed disadvantaged or low-income community.
3. Have official mission and vision statements that expressly identifies serving disadvantaged and/or low-income communities.
4. Currently employs staff member(s) who specialized in and are dedicated to – diversity, or equity, or inclusion, or is a 501(c)(3) non-profit.

**For projects located in and benefitting Tribes, the Tribe must be included on the project team and within the project budget.**

# III. Application Organization and Submission Instructions

## Application Format and Page Limits

The following table summarizes the application formatting and page limit recommendations:

|  |  |
| --- | --- |
| **Format** | * **Font:** 11-point, Arial (excluding Excel spreadsheets, original template headers and footers, and commitment or support letters)
* **Margins:** No less than one inch on all sides (excluding headers and footers)
* **Spacing:** Single spaced, with a blank line between each paragraph
* **Signatures**: Electronic or wet signatures
* **File Format:** MS Word version 2007 or later (.doc or .docx format), excluding Excel spreadsheets and commitment or support letters (PDF files are acceptable for the letters)
 |
| **Maximum Page Limit Recommendations** | * **Executive Summary** (Attachment): **two** pages
* **Project Narrative Form** (Attachment): **twenty** pages excluding documentation for CEQA
* **Project Team Form** (Attachment): **two** pages for each resume
* **Reference and Work Product Form** (Attachment): **one** page for each reference, **two** pages for each project description
* **Commitment and Support Letter Form** (Attachment): **two** pages, excluding the cover page
* **Scope of Work** (Attachment): **thirty** pages
* **Project Schedule** (Attachment): **four** pages
* There are no page limits for the following:
	+ **Application Form** (Attachment)
	+ **Budget Forms** (Attachment)
	+ **CEQA Compliance Form** (Attachment)
	+ **Project Performance Metrics** (Attachment)
 |

## Method For Delivery

The only method of submitting applications to this solicitation is the Energy Commission Grant Solicitation System, available at: https://gss.energy.ca.gov/. This online tool allows applicants to submit their electronic documents to the CEC prior to the date and time specified in this solicitation. Electronic files must be in Microsoft Word XP (.doc format) or newer and Excel Office Suite formats unless originally provided in the solicitation in another format.  Attachments requiring signatures may be electronically signed or scanned and submitted in PDF format with a wet signature.  Completed Budget Forms, (Attachment), must be in Excel format.

[~~Applicants are strongly encouraged to upload and submit all applications by 5:00 p.m. Energy Commission staff will not be available after 5:00 p.m. to assist you with the upload process. The GSS system will automatically close at 11:59 p.m., which is the deadline to submit applications. If the upload and submittal process has not been fully completed before 11:59 p.m., your application will not be considered. NO EXCEPTIONS will be entertained. Do not wait until right before midnight to upload and submit your documents. Due to factors outside the CEC’s control and unrelated to the GSS, upload times may be much longer than expected. For example, some past applicants have had unexpected issues on their end, causing long delays that prevented them from timely submitting applications. They ended up spending significant time and resources on applications the CEC cannot even consider. Please plan accordingly.~~]

**The deadline to submit grant applications through the CEC’s GSS is 11:59 p.m. The GSS system automatically closes at 11:59 pm. If the full submittal process has not been completed before 11:59 p.m., your application will not be considered. NO EXCEPTIONS will be entertained.**

**The CEC strongly encourages Applicants to upload and submit all applications by 5:00 p.m., because CEC staff will not be available after 5:00 p.m. or on weekends to assist with the upload process. And please note that while we endeavor to assist all would-be applicants, we can’t guarantee staff will be available for in-person consultation on the due date, so please plan accordingly.**

**Please give yourself ample time to complete all steps of the submission process: do not wait until right before the deadline to begin the process. Due to factors outside the CEC’s control and unrelated to the GSS system, upload times may be much longer than expected. For example, some past applicants experienced unexpected issues on their end, causing long delays that prevented timely submission. They spent significant time and resources on applications the CEC will not consider. Please plan accordingly. For instructions on how to apply using the GSS system, please see the How to Apply document available on the CEC website at: https://www.energy.ca.gov/media/1654.**

First time users must register as a new user to access the system. Applicants will receive a confirmation e-mail after all required documents have been successfully uploaded. A tutorial of the system will be provided at the pre-application workshops and you may contact the Commission Agreement Officer identified in the Questions section of the solicitation for more assistance.

## Application Content

Below is a description of each required section of the application. Completeness in submitting all the required information requested in each attachment will be factored into the scoring:

1. Application Form (Attachment 1)

This form requests basic information about the applicant and the project. The application includes an original form that includes all requested information. The application must be signed by an authorized representative of the applicant’s organization or will be failed as indicated in Section IV.E.

The CEC may have waived the requirement for a signature on application materials for this solicitation. If a notice regarding CEC’s waiver of the signature requirement appears here: https://www.energy.ca.gov/funding-opportunities/solicitations, the waiver applies to this solicitation. In the event of a conflict between the notice and any language in this solicitation regarding signatures, the notice will govern.

1. Executive Summary Form (Attachment 2)

The Executive Summary includes: a project description; the project goals and objectives to be achieved; an explanation of how the goals and objectives will be achieved, quantified, and measured; and a description of the project tasks and overall management of the agreement.

1. Project Narrative Form (Attachment 3)

This form will include the majority of the applicant’s responses to the Scoring Criteria in Section IV, including the following which must be addressed for both Applied Research & Technology Demonstration projects:

* 1. **Group Specific Questions**
		+ Include required group specific information (see Section I.C.) in the specified sections.
	2. **Project Readiness**
		+ Include information about the permitting required for the project and whether or not the permitting has been completed. If complete, provide appropriate documentation. If local jurisdiction CEQA review and project approval is not complete, applications must include information documenting progress towards and a schedule for achieving compliance under CEQA within the timeframes specified in this solicitation (see Section I.E). All supporting documentation must be included in Attachment 8.
1. Project Team Form (Attachment 4)

Identify by name all key personnel[[25]](#footnote-26) assigned to the project, including the project manager and principal investigator (if applicable), and individuals employed by any major subcontractor (a major subcontractor is a subcontractor receiving at least 25% of Commission funds or $100,000, whichever is less). Clearly describe their individual areas of responsibility. Include the information required for each individual, including a resume (maximum two pages, printed double-sided).

1. Scope of Work Template (Attachments 5)

Applicants must include a completed Scope of Work for each project, as instructed in the template. The Scope of Work identifies the tasks required to complete the project. See requirements in section III.A.

Electronicfiles for the Scope of Work must be in **MS Word** file format**.**

1. Project Schedule (Attachment 6)

The Project Schedule includes a list of all product, meetings, and due dates. All work must be scheduled for completion by the “Key Dates” section of this solicitation manual.

Electronic files for the Project schedule must be in MS Excel file format.

1. Budget Forms (Attachment 7)

The budget forms are in MS Excel format. Detailed instructions for completing them are included at the beginning of Attachment 7.  **Read the instructions before completing the worksheets**. Complete and submit information on **all** budget worksheets. The salaries, rates, and other costs entered on the worksheets will become a part of the final agreement.

1. All project expenditures (match share and reimbursable) must be made within the approved agreement term. Match share requirements are discussed in Part I of this solicitation. The entire term of the agreement and projected rate increases must be considered when preparing the budget.
2. The budget must reflect estimates for **actual** costs to be incurred during the agreement term. The CEC may only approve and reimburse for actual costs that are properly documented in accordance with the grant terms and conditions. Rates and personnel shown must reflect the rates and personnel the applicant would include if selected as a Recipient.
3. The proposed rates are considered capped and may not change during the agreement term. The Recipient will only be reimbursed for **actual** rates up to the rate caps.
4. The budget must NOT include any Recipient profit from the proposed project, either as a reimbursed item, match share, or as part of overhead or general and administrative expenses (subcontractor profit is allowable, though the maximum percentage allowed is 10 % of the total subcontractor rates for labor, and other direct and indirect costs as indicated in the Category Budget form). Please review the terms and conditions and budget forms for additional restrictions and requirements.
5. The budget must allow for the expenses of all meetings and products described in the Scope of Work. Meetings may be conducted at the CEC or by conference call, as determined by the Commission Agreement Manager.
6. Applicants must budget for permits and insurance. Permitting costs may be accounted for in match share. Permit costs and the expenses associated with obtaining permits are not reimbursable under this Agreement with CEC funds, with the exception of costs incurred by University of California recipients.
7. The budget must NOT identify that EPIC funds will be spent outside of the United States or for out-of-country travel.  However, match funds may cover these costs if there are no legal restrictions.
8. All applicants should go to the Attorney General’s website https://oag.ca.gov/ab1887 for a current list of states subject to travel restrictions. Grants awarded under this solicitation shall not contain travel paid for with Commission funds (applicants can instead use match funds) to the listed states unless the Commission approves in writing that the trip falls within one of the exceptions under the law.
9. **Prevailing wage requirement:** Projects that receive an award of public funds from the CEC often involve construction, alteration, demolition, installation, repair or maintenance work over $1,000. For this reason, projects that receive an award of public funds from the CEC are likely to be considered public works under the California Labor Code. See Chapter 1 of Part 7 of Division 2 of the California Labor Code, commencing with Section 1720 and Title 8, California Code of Regulations, Chapter 8, Subchapter 3, commencing with Section 16000.

Projects deemed to be public works require among other things the payment of prevailing wages, which can be significantly higher than non-prevailing wages.

By accepting this grant, Recipient as a material term of this agreement shall be fully responsible for complying with all California public works requirements including but not limited to payment of prevailing wage. Therefore, as a material term of this grant, Recipient must either:

(a) Proceed on the assumption that the project is a public work and ensure that:

1. prevailing wages are paid; and
2. the project budget for labor reflects these prevailing wage requirements; and
3. the project complies with all other requirements of prevailing wage law including but not limited to keeping accurate payroll records, and complying with all working hour requirements and apprenticeship obligations;

or,

 (b) Timely obtain a legally binding determination from the Department of Industrial Relations or a court of competent jurisdiction before work begins on the project that the proposed project is not a public work.

1. California Environmental Quality Act (CEQA) Compliance Form (Attachment 8)

The CEC requires the information on this form to facilitate its evaluation of proposed activities under CEQA (California Public Resources Code Section 21000 et. seq.), a law that requires state and local agencies in California to assess the potential environmental impacts of their proposed actions. The form will also help applicants to determine CEQA compliance obligations by identifying which proposed activities may be exempt from CEQA and which activities may require additional environmental review. If proposed activities are exempt from CEQA (such as paper studies), the worksheet will help to identify and document this. This form must be completed regardless of whether the proposed activities are considered a “project” under CEQA.

Failure to complete the CEQA process in a timely manner after the CEC’s Notice of Proposed Award may result in the cancellation of a proposed award and allocation of funding elsewhere, such as to the next highest-scoring project.

1. Reference and Work Product Form (Attachment 9)
	* 1. Section 1: Provide applicant and subcontractor references as instructed.
		2. Section 2: Provide a list of past projects detailing technical and business experience

of the applicant (or any member of the project team) that is related to the proposed work. Identify past projects that resulted in market-ready technology, advancement of codes and standards, and/or advancement of state energy policy. Include copies of up to three of the applicant or team member’s recent publications in scientific or technical journals related to the proposed project, as applicable.

1. Commitment and Support Letter Form (Attachment 10)

A commitment letter commits an entity or individual to providing the service or funding described in the letter. A support letter details an entity or individual’s support for the project. Commitment and Support Letters must be submitted with the application. Letters that are not submitted by the application deadline will not be reviewed and counted towards meeting the requirement specified in the solicitation.

* + 1. Commitment Letters

Applicants must submit a **match funding** commitment letter signedby eachrepresentative of the entity or individual that is committing to providing match funding. The letter must: (1) identify the source(s) of the funds; and (2) guarantee the availability of the funds for the project.

* If the project involves **pilot testing, demonstration, and/or deployment** activities, the applicant should include a site commitment letter signed by an authorized representative of the proposed test, demonstration, and/or deployment site. The letter must: (1) identify the location of the site (street address, parcel number, tract map, plot map, etc.) which must be consistent with Attachments 1 and 8. and (2) commit to providing the site for the proposed activities.
* **Project partners** that are making contributions other than match funding or a test, demonstration, and/or deployment site, and are not receiving CEC funds, must submit a commitment letter signed by an authorized representative that: (1) identifies how the partner will contribute to the project; and (2) commits to making the contribution.
	+ 1. Support Letters

All applicants must include at least one support letter from a project stakeholder (i.e., an entity or individual that will benefit from or be involved in the project) that: (1) describes the stakeholder’s interest or involvement in the project; (2) indicates the extent to which the project has the support of the relevant industry and/or organizations; and (3) describes any support it intends (but does not necessarily commit) to provide for the project, such as funding or the provision of a test, demonstration, and/or deployment site.

1. Project Performance Metrics (Attachment 11)

The purpose of this questionnaire is to identify and document 5-7 performance targets for the project. The performance targets should be a combination of scientific, engineering and techno-economic metrics that provide the most significant indicator of the research or technology’s potential success.

1. Applicant Declaration (Attachment 12)

This form requests the applicant declare that they: are not delinquent on taxes nor suspended by the California Franchise Tax Board; are not being sued by any public agency or entity; are in compliance with the terms of all settlement agreements, if any, entered into with the Energy Commission or another public agency or entity; are in compliance with all judgments, if any, issued against the Applicant in any matter to which the Energy Commission or another public agency or entity is a party; are complying with any demand letter made on the Applicant by the Energy Commission or another public agency or entity; and are not in active litigation with the Energy Commission regarding the Applicant’s actions under a current or past contract, grant, or loan with the Energy Commission. The declaration must be signed under penalty of perjury by an authorized representative of the applicant’s organization.

# IV. Evaluation and Award Process

## Application Evaluation

Applications will be evaluated and scored based on responses to the information requested in this solicitation and on any other information available, such as on past performance of CEC agreements. To evaluate applications, the CEC will organize an Evaluation Committee that consists primarily of CEC staff. The Evaluation Committee may use technical expert reviewers to provide an analysis of applications. Applications will be evaluated in two stages:

1. **Stage One: Application Screening**

The Contracts, Grants, and Loans Office and/or the Evaluation Committee will screen applications for compliance with the Screening Criteria in **Section E** of this Part. **Applications that fail any of the screening criteria will be rejected.**The Evaluation Committee may conduct optional telephone **Clarification Interviews** with applicants during the screening process to clarify and/or verify information submitted in the application. However, these interviews may not be used to change or add to the content of the original application. Applicants will not be reimbursed for time spent answering clarifying questions.

1. **Stage Two: Application Scoring**

Applications that pass Stage One will be submitted to the Evaluation Committee for review and scoring based on the Scoring Criteria in **Section F** of this Part.

* The scores for each application will be the average of the combined scores of all Evaluation Committee members.
* Clarification Interviews: The Evaluation Committee may conduct optional telephone interviews with applicants during the evaluation process to clarify and/or verify information submitted in the application. However, these interviews may not be used to change or add to the content of the original application. Applicants will not be reimbursed for time spent answering clarifying questions.

***For Group 1 and 2 projects***

* **A minimum score of 70.0 points** is required for criteria 1-7 to be eligible for funding. In addition, the application must receive a minimum score of **52.50 points for criteria 1−4** to be eligible for funding.

***For Group 3 projects***

* **A minimum score of 105.0 points** is required for criteria 1-8 to be eligible for funding. In addition, the application must receive a minimum score of **52.50 points for criteria 1−4, and 70.00 points for criteria 1-7** to be eligible for funding.

## Ranking, Notice of Proposed Award, and Agreement Development

1. **Ranking and Notice of Proposed Award**

Applications that receive at least the minimum required score for all criteria will be ranked according to their score.

* CEC staff will post a **Notice of Proposed Award (NOPA)** that includes: (1) the total proposed funding amount; (2) the rank order of applicants; and (3) the amount of each proposed award. The CEC will post the NOPA at its headquarters in Sacramento and on its website, and will e-mail it to all entities that submitted an application. Proposed awards must be approved by the CEC at a business meeting.
* **Debriefings:** Unsuccessful applicants may request a debriefing after the release of the

NOPA by contacting the Commission Agreement Officer listed in Part I. A request for debriefing must be received **no later than 30 calendar days** after the NOPA is released.

* In addition to any of its other rights, the CEC reserves the right to:
	+ Allocate any additional funds to passing applications, in rank order; and
	+ Negotiate with successful applicantstomodify the project scope, schedule, project team entity that will receive the award, location and/or level of funding.
1. **Agreements**

Applications recommended for funding will be developed into a proposed grant agreement to be considered at a CEC Business Meeting. Recipients may begin the project only after full execution of the grant agreement (i.e., approval at a CEC business meeting and signature by the Recipient and the CEC).

* **Agreement Development:** The Contracts, Grants, and Loans Office will send the Recipient a grant agreement for approval and signature. The agreement will include the applicable terms and conditions and will incorporate this solicitation and the application by reference. The CEC reserves the right to modify the award documents (including the terms and conditions) prior to executing any agreement.
* **Failure to Execute an Agreement:** If the CEC is unable to successfully execute an agreement with an applicant in a timely manner, it reserves the right to cancel the pending award and use the funds elsewhere, such as to fund the next highest-ranked, eligible application.

## Grounds to Reject an Application or Cancel an Award

Applications that do not pass the screening stage will be rejected. In addition, the CEC reserves the right to reject an application and/or to cancel an award for any reason, including any of the following:

* The application contains false or intentionally misleading statements or references that do not support an attribute or condition contended by the applicant.
* The application is intended to erroneously and fallaciously mislead the State in any way.
* The application does not comply or contains caveats that conflict with the solicitation, and the variation or deviation is material.
* The applicant has previously received funding through an EPIC or Public Interest Energy Research (PIER) agreement, has received the royalty review letter (which the CEC annually sends out to remind past recipients of their obligations to pay royalties), and has not responded to the letter or is otherwise not in compliance with repaying royalties.
* The applicant has received unsatisfactory agreement evaluations from the CEC or another California state agency.
* The applicant is a business entity required to be registered with the California Secretary of State and is not in good standing.
* The applicant has not demonstrated that it has the financial capability to complete the project.
* The applicant fails to meet CEQA compliance within sufficient time for the CEC to meet its encumbrance deadline or any other deadlines, as the CEC in its sole and absolute discretion may determine.
* The applicant has included a statement or otherwise indicated that it will not accept the terms and conditions, or that acceptance is based on modifications to the terms and conditions.
* The application contains confidential information or identifies any portion of the application as confidential.

## Miscellaneous

1. **Solicitation Cancellation and Amendment**

It is the policy of the CEC not to solicit applications unless there is a bona fide intention to award an agreement. However, if it is in the State’s best interest, the CEC reserves the right, in addition to any other rights it has, to do any of the following:

* Cancel this solicitation;
* Revise the amount of funds available under this solicitation;
* Amend this solicitation as needed; and/or
* Reject any or all applications received in response to this solicitation.

If the solicitation is amended, the CEC will send an addendum to all entities that requested the solicitation, and will also post it on the CEC’s website at: www.energy.ca.gov/contracts. The CEC will not reimburse applicants for application development expenses under any circumstances, including cancellation of the solicitation.

1. **Modification or Withdrawal of Application**

Applicants may withdraw or modify a submitted application before the deadline to submit applications by sending a letter to the Commission Agreement Officer listed in Part I. Applications cannot be changed after that date and time. An Application cannot be “timed” to expire on a specific date. For example, a statement such as the following is non-responsive to the solicitation: “This application and the cost estimate are valid for 60 days.”

1. **Confidentiality**

Though the entire evaluation process from receipt of applications up to the posting of the NOPA is confidential, **all submitted documents will become publicly available records** after the CEC posts the NOPA or the solicitation is cancelled. **The CEC will not accept or retain applications that identify any portion as confidential.**

1. **Solicitation Errors**

If an applicant discovers any ambiguity, conflict, discrepancy, omission, or other error in the solicitation, the applicant should immediately notify the CEC of the error in writing and request modification or clarification of the solicitation. The CEC will provide modifications or clarifications by written notice to all entities that requested the solicitation. The CEC will not be responsible for failure to correct errors.

1. **Immaterial Defect**

The CEC may waive any immaterial defect or deviation contained in an application. The CEC’s waiver will not modify the application or excuse the successful applicant from full compliance with solicitation requirements.

1. **Disposition of Applicant’s Documents**

Upon the posting of the NOPA, all applications and related materials submitted in response to this solicitation will become property of the State and publicly available records. Unsuccessful applicants who seek the return of any materials must make this request to the Agreement Officer listed in Part I, and provide sufficient postage to fund the cost of returning the materials.

## Stage One: Application Screening

| **Screening Criteria** *The Application must pass ALL criteria to progress to Stage Two.* | **Pass/Fail** |
| --- | --- |
| 1. The application is received by the CEC’s Contracts, Grants, and Loans Office by the due date and time specified in the “Key Activities Schedule” in Part I of this solicitation and is received in the required manner (e.g., no e-mails or faxes).
 | [ ]  Pass [ ]  Fail |
| 1. The application Form (Attachment 1) is signed where indicated.
 | [ ]  Pass [ ]  Fail |
| 1. The Applicant Declaration Form (Attachment 12) is signed where indicated.
 | [ ]  Pass [ ]  Fail |
| 1. The application addresses only one of the eligible project groups, as indicated on the Application Form.
 | [ ]  Pass [ ]  Fail |
| 1. If the applicant has submitted more than one application for the same project group, each application is for a distinct project (i.e., no overlap with respect to the tasks described in the Scope of Work, Attachment).

*If the projects are not distinct and the applications were submitted at the same time, only the first application screened by the CEC will be eligible for funding. If the applications were submitted separately, only the first application received by the CEC will be eligible for funding.* | [ ]  Pass [ ]  Fail |
| 1. The Application includes Commitment Letters that total the minimum of 30*%* in match share of the total requested CEC funds for Group 1, 20% of the total requested CEC funds for Group 2, and 10% in match share of the total requested CEC funds for Group 3.
 | [ ]  Pass [ ]  Fail |
| 1. *Group 1 and Group 3 projects that involve technology demonstration and/or deployment activities*
* The Application identifies one or more demonstration/ deployment site locations.
* All demonstration/ deployment sites are located in a California electric IOU service territory (PG&E, SDG&E, or SCE).
* The proposal includes a site commitment letter (Section III.D.11) for each demonstration/ deployment site.
 | [ ]  Pass [ ]  Fail |

## Stage Two: Application Scoring

Proposals that pass ALL Stage One Screening Criteria and are not rejected as described in Section IV.C. will be evaluated based on the Scoring Criteria on the next page and the Scoring Scale below (with the exception of criteria 6−7, which will be evaluated as described in each criterion). Each criterion has an assigned number of possible points, and is divided into multiple sub-criteria. The sub-criteria are not equally weighted. The Project Narrative (Attachment) must respond to each sub-criterion, unless otherwise indicated.

**Scoring Scale**

|  |  |  |
| --- | --- | --- |
| **% of Possible Points** | **Interpretation** | **Explanation for Percentage Points**  |
| 0% | Not Responsive | Response does not include or fails to address the requirements being scored. The omission(s), flaw(s), or defect(s) are significant and unacceptable. |
| 10-30% | Minimally Responsive | Response minimally addresses the requirements being scored. The omission(s), flaw(s), or defect(s) are significant and unacceptable. |
| 40-60% | Inadequate | Response addresses the requirements being scored, but there are one or more omissions, flaws, or defects or the requirements are addressed in such a limited way that it results in a low degree of confidence in the proposed solution. |
| 70% | Adequate | Response adequately addresses the requirements being scored. Any omission(s), flaw(s), or defect(s) are inconsequential and acceptable. |
| 75% | Between Adequate and Good | Response better than adequately addresses the requirements being scored. Any omission(s), flaw(s), or defect(s) are inconsequential and acceptable. |
| 80% | Good | Response fully addresses the requirements being scored with a good degree of confidence in the applicant’s response or proposed solution. No identified omission(s), flaw(s), or defect(s). Any identified weaknesses are minimal, inconsequential, and acceptable. |
| 85% | Between Good and Excellent | Response fully addresses the requirements being scored with a better than good degree of confidence in the applicant’s response or proposed solution. No identified omission(s), flaw(s), or defect(s). Any identified weaknesses are minimal, inconsequential, and acceptable. |
| 90% | Excellent | Response fully addresses the requirements being scored with a high degree of confidence in the applicant’s response or proposed solution. Applicant offers one or more enhancing features, methods or approaches exceeding basic expectations. |
| 95% | Between Excellent and Exceptional | Response fully addresses the requirements being scored with a better than excellent degree of confidence in the applicant’s response or proposed solution. Applicant offers one or more enhancing features, methods or approaches exceeding basic expectations. |
| 100% | Exceptional | All requirements are addressed with the highest degree of confidence in the applicant’s response or proposed solution. The response exceeds the requirements in providing multiple enhancing features, a creative approach, or an exceptional solution. |

**Additional Screening Criteria for Past Performance**

| **Screening Criteria** |  |
| --- | --- |
| **Applicant Past Performance with Energy Commission**The applicant—defined as at least one of the following: the business, principal investigator, or lead individual acting on behalf of themselves—received funds from the Energy Commission (e.g., contract, grant, or loan) and entered into an agreement(s) with the Commission and demonstrated **severe performance issues** characterized by significant negative outcomes including:* Significant deviation from agreement requirements;
* Termination with cause;
* Demonstrated poor communication, project management, and/or inability, due to circumstances within its control, from materially completing the project;
* Quality issues with deliverables including poorly written final report that prevents publishing; and
* Severe unresolved negative audit findings.
 |  |
| **Must pass to continue with Scoring Criteria** | **Pass/Fail** |
| **Scoring CRITERIA for group 1****The Project Narrative (Attachment)** must respond to each criterion below. The responses must directly relate to the solicitation requirements and focus as stated in the solicitation. Any estimates of energy savings or GHG impacts should be calculated as specified in the References for Calculating Energy End-Use and GHG Emissions (Attachment), to the extent that the references apply to the proposed project. |

| **Scoring Criteria** | **Maximum Points** |
| --- | --- |
| 1. **Technical Merit**
 | **15** |
| * The proposed project provides a clear and concise description of the technological, scientific knowledge advancement, and/or innovation that will overcome barriers to achieving the State’s statutory energy goals.
 |  |
| * Describes the competitive advantages of the proposed technology over state-of-the-art (e.g., efficiency, emissions, durability, cost).
 |  |
| * Provides the proposed technical specifications and describe how the project will meet or exceed the technical specifications by the end of the project.
 |  |
| * Describes the technology readiness level (TRL) the proposed technology has achieved and the expected TRL by the end of the project.
* Provides information described in Section I.C.
 |  |
| * Describes at what scale the technology has been successfully demonstrated, including size or capacity, number of previous installations, location and duration, results, etc.
 |  |
| * Describes how the proposed demonstration will lead to increased adoption of the technology in California.
 |  |
| 1. **Technical Approach**
 | **25** |
| * Proposal describes the technique, approach, and methods to be used in performing the work described in the Scope of Work.
 |  |
| * The Scope of Work identifies goals, objectives, and deliverables, details the work to be performed, and aligns with the information presented in Project Narrative.
 |  |
| * Proposal identifies the reliability that the project and site recommendations as described will be carried out if funds are awarded.
 |  |
| * Identifies and discusses factors critical for success, in addition to risks, barriers, and limitations (e.g. loss of demonstration site, key subcontractor). Provides a plan to address them.
 |  |
| * Discusses the degree to which the proposed work is technically feasible and achievable within the proposed Project Schedule and the key activities schedule in Section I.E.
 |  |
| * Describes the technology transfer plan to assess and advance the commercial viability of the technology.
 |  |
| * Provides information described in Section I.C.
 |  |
| * Provides a clear and plausible measurement and verification plan that describes how energy savings and other benefits specified in the application will be determined and measured.
 |  |
| * Provides information documenting progress towards achieving compliance with the California Environmental Quality Act (CEQA) by addressing the areas in Section I.I and Section III.D.3., and Section III.D.8.
 |  |
| 1. **Impacts and Benefits for California IOU Ratepayers**
 | **20** |
| * Explains how the proposed project will benefit California Investor-Owned Utility (IOU) ratepayers and provides clear, plausible, and justifiable (quantitative preferred) potential benefits. Estimates the energy benefits including:
	+ Avoided fossil fuel use from backup generators, increased site or community resilience to electric outages, and annual electricity cost reductions, peak load reduction and/or shifting as applicable.

**In addition, estimates the non-energy benefits including:** * + Greenhouse gas emission reductions, criteria pollutant emission reductions (e.g. NOx), and/or increased safety.
 |  |
| * States the timeframe, assumptions with sources, and calculations for the estimated benefits, and explains their reasonableness. Include baseline or “business as usual” over timeframe.
 |  |
| * Explains the path-to-market strategy including near-term (i.e. initial target markets), mid-term, and long-term markets for the technology, size and penetration or deployment rates, and underlying assumptions.
 |  |
| * Identifies the expected financial performance (e.g. payback period, ROI) of the demonstration at scale.
* Identifies the specific programs which the technology intends to leverage *(e.g. feed-in tariffs, IOU rebates, demand response, storage procurement) and extent to which technology meets program requirements*.
 |  |
| 1. **Team Qualifications, Capabilities, and Resources**

Evaluations of ongoing or previous projects including project performance by applicant and team members will be used in scoring for this criterion. This can include contacting references. | **15** |
| * Identifies credentials of prime and any subcontractor key personnel, including the project manager, principal investigator and technology and knowledge transfer lead *(include this information in the Project Team Form).*
 |  |
| * Demonstrates that the project team has appropriate qualifications, experience, financial stability and capability to complete the project.
 |  |
| * Explains the team structure and how various tasks will be managed and coordinated.
 |  |
| * Describes the facilities, infrastructure, and resources available that directly support the project.
 |  |
| * Describes the team’s history of successfully completing projects in the past 10 years including subsequent deployments and commercialization.
 |  |
| **Total Possible Points for criteria 1− 4****(Minimum Passing Score for criteria 1− 4 is 70% or 52.50)** | **75** |
| 1. **Budget and Cost-Effectiveness**
* Budget forms are complete for the applicant and all subcontractors, as described in the Budget instructions.
* Justifies the reasonableness of the requested funds relative to the project goals, objectives, and tasks.
* Justifies the reasonableness of direct costs (e.g., labor, fringe benefits, equipment, materials & misc. travel, and subcontractors).
* Justifies the reasonableness of indirect costs (e.g., overhead, facility charges (e.g., rent, utilities), burdens, subcontractor profit, and other like costs).
 | **10** |
| 1. **CEC Funds Spent in California**

Projects that maximize the spending of CEC funds in California will receive points as indicated in the table below (see CEC Funds Spent in California section for more details).

|  |  |
| --- | --- |
| **Percentage of CEC funds spent in CA vs Total CEC funds requested**(derived from budget Attachment ) | **Percentage of Possible Points** |
| >60%  | 20% |
| >65%  | 30% |
| >70% | 40% |
| >75%  | 50% |
| >80% | 60% |
| >85%  | 70% |
| >90% | 80% |
| >95%  | 90% |
| >98% | 100% |

 | **10** |
| 1. **Ratio of Direct Labor to Indirect Costs**

The score for this criterion will be calculated by the following formula:This ratio will then be multiplied by the maximum possible points for this criterion and rounded to two decimal places.NOTE: For the purposes of this criterion, the CEC will include the facility charges (e.g., rent, utilities, etc.), burdens and other like costs that are budgeted as direct costs into the indirect costs in the formula. | **5** |
| **Total Possible Points****(Minimum Passing Score for Criteria 1 – 7 is 70% or 70.00)** | **100** |

| **Preference Points:** For applications proposing projects located in and benefiting [~~low-income and/or disadvantaged communities~~] **DACs/LICs and/or Tribes** within IOU service territories. Applications must meet all minimum passing scores (Scoring Criteria 1-4, and 1-7) to be eligible for the additional points. |
| --- |
| **Scoring Criteria** | **Maximum Points** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. **Match Funds**
2. Cash match share is preferred; however, in-kind cost share is permitted and will be considered for solicitation match requirements. Points for this criterion will be evaluated based on the proposed cash match relative to the total match (cash + in-kind) contributions using the Cash Match Scoring Table:

**Cash Match Scoring Table**

| Percentage of Proposed Cash Match Funds | Score |
| --- | --- |
| 80 to 100% | 5 |
| 60 to <80% | 4 |
| 40 to <60% | 3 |
| 20 to <40% | 2 |
| 10 to <20% | 1 |

 | **5** |
| 1. Additional points will be awarded to applications that exceed the minimum match requirements based on the percentage amount above minimum using the Exceeds Minimum Match Scoring table:

**Exceeds Minimum Match Scoring Table**

| Percentage above Minimum Match (cash and in-kind) | Score |
| --- | --- |
|  80% | 5 |
| 60 to <80% | 4 |
| 40 to <60% | 3 |
| 20 to <40% | 2 |
| 10 to <20 % | 1 |

  | **5** |
| 1. **Disadvantaged/Low-Income Communities and/or [~~Native American~~] Tribes**

In order to receive or qualify for additional points, the proposed project must demonstrate benefits to the disadvantaged/low-income communit**y(**ies**)** and/or [~~Native American~~] Tribe**(s)**. * Proposal identifies how the target market(s) will benefit disadvantaged/low-income communities and/or [~~Native American~~] Tribes.
* Identifies economic impact on disadvantaged/low-income communities and/or [~~Native American~~] Tribes including customer bill savings, job creation, partnering and contracting with micro- and small-businesses, and economic development.
* Describes how the project will increase access to clean energy or sustainability technologies within disadvantaged/low-income communities and/or [~~Native American~~] Tribes and how the development will benefit the communities.
* Applicants have letters of support from technology partners, community based organizations, environmental justice organizations, or other partners that demonstrate their belief that the proposed project will lead to increased equity, and is both feasible, and commercially viable in the identified disadvantaged/low**-**income communit**y(**ies**)** and/or [~~Native American~~] Tribe**(**s**)**.
 | **5** |

|  |
| --- |
| **Scoring CRITERIA for group 2****The Project Narrative (Attachment)** must respond to each criterion below. The responses must directly relate to the solicitation requirements and focus as stated in the solicitation. Any estimates of energy savings or GHG impacts should be calculated as specified in the References for Calculating Energy End-Use and GHG Emissions (Attachment), to the extent that the references apply to the proposed project. |

| **Scoring Criteria** | **Maximum Points** |
| --- | --- |
| 1. **Technical Merit**
 | **15** |
| * The proposed project provides a clear and concise description of the technological, scientific knowledge advancement, and/or innovation that will overcome barriers to achieving the State’s statutory energy goals.
 |  |
| * Describes the competitive advantages of the proposed technology over state-of-the-art (e.g., efficiency, emissions, durability, cost).
 |  |
| * Provides the proposed technical specifications and describe how the project will meet or exceed the technical specifications by the end of the project.
 |  |
| * Describes the technology readiness level (TRL) the proposed technology has achieved and the expected TRL by the end of the project.
* Provides information described in Section I.C.
 |  |
| 1. **Technical Approach**
 | **25** |
| * Proposal describes the technique, approach, and methods to be used in performing the work described in the Scope of Work.
 |  |
| * The Scope of Work identifies goals, objectives, and deliverables, details the work to be performed, and aligns with the information presented in Project Narrative.
 |  |
| * Proposal identifies the reliability that the project and site recommendations as described will be carried out if funds are awarded.
 |  |
| * Identifies and discusses factors critical for success, in addition to risks, barriers, and limitations (e.g. loss of demonstration site, key subcontractor). Provides a plan to address them.
 |  |
| * Discusses the degree to which the proposed work is technically feasible and achievable within the proposed Project Schedule and the key activities schedule in Section I.E.
 |  |
| * Describes the technology transfer plan to assess and advance the commercial viability of the technology.
 |  |
| * Provides information described in Section I.C.
 |  |
| 1. **Impacts and Benefits for California IOU Ratepayers**
 | **20** |
| * Explains how the proposed project will benefit California Investor-Owned Utility (IOU) ratepayers and provides clear, plausible, and justifiable (quantitative preferred) potential benefits. Estimates the energy benefits including:
	+ Avoided fossil fuel use from backup generators, increased site or community resilience to electric outages, and annual electricity cost reductions, peak load reduction and/or shifting as applicable.

**In addition, estimates the non-energy benefits including:** * + Greenhouse gas emission reductions, criteria pollutant emission reductions (e.g. NOx), and/or increased safety.
 |  |
| * States the timeframe, assumptions with sources, and calculations for the estimated benefits, and explains their reasonableness. Include baseline or “business as usual” over timeframe.
 |  |
| * Explains the path-to-market strategy including near-term (i.e. initial target markets), mid-term, and long-term markets for the technology, size and penetration or deployment rates, and underlying assumptions.
 |  |
| 1. **Team Qualifications, Capabilities, and Resources**

Evaluations of ongoing or previous projects including project performance by applicant and team members will be used in scoring for this criterion. This can include contacting references. | **15** |
| * Identifies credentials of prime and any subcontractor key personnel, including the project manager, principal investigator and technology and knowledge transfer lead *(include this information in the Project Team Form).*
 |  |
| * Demonstrates that the project team has appropriate qualifications, experience, financial stability and capability to complete the project.
 |  |
| * Explains the team structure and how various tasks will be managed and coordinated.
 |  |
| * Describes the facilities, infrastructure, and resources available that directly support the project.
 |  |
| * Describes the team’s history of successfully completing projects in the past 10 years including subsequent deployments and commercialization.
 |  |
| **Total Possible Points for criteria 1− 4****(Minimum Passing Score for criteria 1− 4 is 70% or 52.50)** | **75** |
| 1. **Budget and Cost-Effectiveness**
* Budget forms are complete for the applicant and all subcontractors, as described in the Budget instructions.
* Justifies the reasonableness of the requested funds relative to the project goals, objectives, and tasks.
* Justifies the reasonableness of direct costs (e.g., labor, fringe benefits, equipment, materials & misc. travel, and subcontractors).
* Justifies the reasonableness of indirect costs (e.g., overhead, facility charges (e.g., rent, utilities), burdens, subcontractor profit, and other like costs).
 | **10** |
| 1. **CEC Funds Spent in California**

Projects that maximize the spending of CEC funds in California will receive points as indicated in the table below (see CEC Funds Spent in California section for more details).

|  |  |
| --- | --- |
| **Percentage of CEC funds spent in CA vs Total CEC funds requested**(derived from budget Attachment ) | **Percentage of Possible Points** |
| >60%  | 20% |
| >65%  | 30% |
| >70% | 40% |
| >75%  | 50% |
| >80% | 60% |
| >85%  | 70% |
| >90% | 80% |
| >95%  | 90% |
| >98% | 100% |

 | **10** |
| 1. **Ratio of Direct Labor to Indirect Costs**

The score for this criterion will be calculated by the following formula:This ratio will then be multiplied by the maximum possible points for this criterion and rounded to two decimal places.NOTE: For the purposes of this criterion, the CEC will include the facility charges (e.g., rent, utilities, etc.), burdens and other like costs that are budgeted as direct costs into the indirect costs in the formula. | **5** |
| **Total Possible Points****(Minimum Passing Score for Criteria 1 – 7 is 70% or 70.00)** | **100** |
| **Preference Points** Applications must meet all minimum passing scores (Scoring Criteria 1-4, 1-7) to be eligible for the additional points. |

| **Scoring Criteria** | **Maximum Points** |
| --- | --- |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. **Match Funds**
2. Cash match share is preferred; however, in-kind cost share is permitted and will be considered for solicitation match requirements. Points for this criterion will be evaluated based on the proposed cash match relative to the total match (cash + in-kind) contributions using the Cash Match Scoring Table:

**Cash Match Scoring Table**

| Percentage of Proposed Cash Match Funds | Score |
| --- | --- |
| 80 to 100% | 5 |
| 60 to <80% | 4 |
| 40 to <60% | 3 |
| 20 to <40% | 2 |
| 10 to <20% | 1 |

 | **5** |
| 1. Additional points will be awarded to applications that exceed the minimum match requirements based on the percentage amount above minimum using the Exceeds Minimum Match Scoring table:

**Exceeds Minimum Match Scoring Table**

| Percentage above Minimum Match (cash and in-kind) | Score |
| --- | --- |
|  80% | 5 |
| 60 to <80% | 4 |
| 40 to <60% | 3 |
| 20 to <40% | 2 |
| 10 to <20 % | 1 |

  | **5** |
| **Preference Points:** For applications proposing projects located in and benefiting [~~low-income and/or disadvantaged communities~~] **DACs/LICs and/or Tribes** within IOU service territories. Applications must meet all minimum passing scores (Scoring Criteria 1-4, and 1-7) to be eligible for the additional points. |
| 1. **Disadvantaged [~~&~~ ]/Low-Income Communities and/or Tribes**

In order to receive or qualify for additional points, the proposed project must demonstrate benefits to the disadvantaged [~~and/or~~ ]**/**low-income community**(ies) and/or Tribe(s)** [ ~~in order to receive additional points~~]. * Proposal identifies how the target market(s) will benefit disadvantaged [~~and/or~~]**/**low-income communities **and/or Tribes**.
* Identifies economic impact on [~~low-income and~~] disadvantaged**/low-income communities and/or Tribes** including customer bill savings, job creation, partnering and contracting with micro- and small-businesses, and economic development.
* Describes how the project will increase access to clean energy or sustainability technologies within disadvantaged [~~and/or~~]**/**low-income communities **and/or Tribes** and how the development will benefit the communities.
* Applicants have letters of support from technology partners, community based organizations, environmental justice organizations, or other partners that demonstrate their belief that the proposed project will lead to increased equity, and is both feasible, and commercially viable in the identified [~~low-income and/or~~] disadvantaged**/low-income** communit**y(**ies**)** **and/or Tribe(s)**.
 | **5** |

|  |
| --- |
| **Scoring CRITERIA for group 3****The Project Narrative (Attachment)** must respond to each criterion below. The responses must directly relate to the solicitation requirements and focus as stated in the solicitation. Any estimates of energy savings or GHG impacts should be calculated as specified in the References for Calculating Energy End-Use and GHG Emissions (Attachment), to the extent that the references apply to the proposed project. |

| **Scoring Criteria** | **Maximum Points** |
| --- | --- |
| 1. **Technical Merit**
 | **15** |
| * The proposed project provides a clear and concise description of the technological, scientific knowledge advancement, and/or innovation that will overcome barriers to achieving the State’s statutory energy goals.
 |  |
| * Describes the competitive advantages of the proposed technology over state-of-the-art (e.g., efficiency, emissions, durability, cost).
 |  |
| * Provides the proposed technical specifications and describe how the project will meet or exceed the technical specifications by the end of the project.
 |  |
| * Describes the technology readiness level (TRL) the proposed technology has achieved and the expected TRL by the end of the project.
* Provides information described in Section I.C.
 |  |
| * Describes at what scale the technology has been successfully demonstrated, including size or capacity, number of previous installations, location and duration, results, etc.
 |  |
| * Describes how the proposed demonstration will lead to increased adoption of the technology in California.
 |  |
| 1. **Technical Approach**
 | **25** |
| * Proposal describes the technique, approach, and methods to be used in performing the work described in the Scope of Work.
 |  |
| * The Scope of Work identifies goals, objectives, and deliverables, details the work to be performed, and aligns with the information presented in Project Narrative.
 |  |
| * Proposal identifies the reliability that the project and site recommendations as described will be carried out if funds are awarded.
 |  |
| * Identifies and discusses factors critical for success, in addition to risks, barriers, and limitations (e.g. loss of demonstration site, key subcontractor). Provides a plan to address them.
 |  |
| * Discusses the degree to which the proposed work is technically feasible and achievable within the proposed Project Schedule and the key activities schedule in Section I.E.
 |  |
| * Describes the technology transfer plan to assess and advance the commercial viability of the technology.
 |  |
| * Provides information described in Section I.C.
 |  |
| * Provides a clear and plausible measurement and verification plan that describes how energy savings and other benefits specified in the application will be determined and measured.
 |  |
| * Provides information documenting progress towards achieving compliance with the California Environmental Quality Act (CEQA) by addressing the areas in Section I.I and Section III.D.3., and Section III.D.8.
 |  |
| 1. **Impacts and Benefits for California IOU Ratepayers**
 | **20** |
| * Explains how the proposed project will benefit California Investor-Owned Utility (IOU) ratepayers and provides clear, plausible, and justifiable (quantitative preferred) potential benefits. Estimates the energy benefits including:
	+ Avoided fossil fuel use from backup generators, increased site or community resilience to electric outages, and annual electricity cost reductions, peak load reduction and/or shifting as applicable.

**In addition, estimates the non-energy benefits including:** * + Greenhouse gas emission reductions, criteria pollutant emission reductions (e.g. NOx), and/or increased safety.
 |  |
| * States the timeframe, assumptions with sources, and calculations for the estimated benefits, and explains their reasonableness. Include baseline or “business as usual” over timeframe.
 |  |
| * Explains the path-to-market strategy including near-term (i.e. initial target markets), mid-term, and long-term markets for the technology, size and penetration or deployment rates, and underlying assumptions.
 |  |
| * Identifies the expected financial performance (e.g. payback period, ROI) of the demonstration at scale.
* Identifies the specific programs which the technology intends to leverage *(e.g. feed-in tariffs, IOU rebates, demand response, storage procurement) and extent to which technology meets program requirements*.
 |  |
| 1. **Team Qualifications, Capabilities, and Resources**

Evaluations of ongoing or previous projects including project performance by applicant and team members will be used in scoring for this criterion. This can include contacting references. | **15** |
| * Identifies credentials of prime and any subcontractor key personnel, including the project manager, principal investigator and technology and knowledge transfer lead *(include this information in the Project Team Form).*
 |  |
| * Demonstrates that the project team, *including Community Based Organizations,* has appropriate qualifications, experience, financial stability and capability to complete the project.
 |  |
| * Explains the team structure and how various tasks will be managed and coordinated.
 |  |
| * Describes the facilities, infrastructure, and resources available that directly support the project.
 |  |
| * Describes the team’s history of successfully completing projects in the past 10 years including subsequent deployments and commercialization.
 |  |
| **Total Possible Points for criteria 1− 4****(Minimum Passing Score for criteria 1− 4 is 70% or 52.50)** | **75** |
| 1. **Budget and Cost-Effectiveness**
* Budget forms are complete for the applicant and all subcontractors, as described in the Budget instructions.
* Justifies the reasonableness of the requested funds relative to the project goals, objectives, and tasks.
* Justifies the reasonableness of direct costs (e.g., labor, fringe benefits, equipment, materials & misc. travel, and subcontractors).
* Justifies the reasonableness of indirect costs (e.g., overhead, facility charges (e.g., rent, utilities), burdens, subcontractor profit, and other like costs).
 | **10** |
| 1. **CEC Funds Spent in California**

Projects that maximize the spending of CEC funds in California will receive points as indicated in the table below (see CEC Funds Spent in California section for more details).

|  |  |
| --- | --- |
| **Percentage of CEC funds spent in CA vs Total CEC funds requested**(derived from budget Attachment ) | **Percentage of Possible Points** |
| >60%  | 20% |
| >65%  | 30% |
| >70% | 40% |
| >75%  | 50% |
| >80% | 60% |
| >85%  | 70% |
| >90% | 80% |
| >95%  | 90% |
| >98% | 100% |

 | **10** |
| 1. **Ratio of Direct Labor to Indirect Costs**

The score for this criterion will be calculated by the following formula:This ratio will then be multiplied by the maximum possible points for this criterion and rounded to two decimal places.NOTE: For the purposes of this criterion, the CEC will include the facility charges (e.g., rent, utilities, etc.), burdens and other like costs that are budgeted as direct costs into the indirect costs in the formula. | **5** |
| **Total Possible Points****(Minimum Passing Score for Criteria 1 – 7 is 70% or 70.00)** | **100** |
| **8. Benefits to Disadvantaged/Low-Income Communities and/or Tribes and Localized Health Impacts****8.1** Benefits to Disadvantaged/Low-Income Communities **and/or Tribes** | **15** |
| * Identifies and describes the energy and economic needs of the community based on project location, and what steps the applicant has taken to identify those needs.
 |
| * Identifies and describes how the project will increase access to clean energy or sustainability technologies for the local community.
 |
| * Identifies and describes how the proposed project will improve opportunities for economic impact including customer bill savings, job creation, collaborating and contracting with micro-, local, and small-businesses, economic development, and expanding community investment.
 |
| * Identifies how the projects’ primary beneficiaries are residents of the identified disadvantaged/low**-**income community(ies) **and/or Tribes and** describes how they will directly benefit from the project outcomes.
 |
| **8.2** Community Engagement Efforts | **10** |
| * Identifies how community input was solicited and considered in the design of the project.
 |  |
| * Identifies and describes how the impacted community will be engaged in project implementation.
 |  |
| * Identifies and describes how the applicant will disseminate educational materials and career information that is appropriate for the culture, and in the language(s) that are primarily represented in the community. This includes whether any translating services will be used.
 |  |
| Identifies how the project, if successful, will build community capacity. |  |
| **8.3**  Localized Health Impacts | **15** |
| * Summarizes the potential localized health benefits and impacts of the proposed project and provides reasonable analysis and assumptions to support the findings.
 |  |
| * Identifies how the proposed project will reduce or not otherwise impact the community’s exposure to pollutants and the adverse environmental conditions caused by pollution and/or climate change. If projects have no impacts in this criterion, provide justification for why impacts are neutral.
 |  |
| * Identifies health-related Energy Equity indicators and/or health-related factors **in the latest approved** CalEnviro[~~s~~]**S**creen **tool**[~~4.0~~][[26]](#footnote-27) that most impact the community and describes how the project will reduce or not otherwise impact the indicators or factors.
 |  |
| **8.4** Technology Replicability* Identifies how the project, if successful, will lead to increased deployment of the technology or strategy in other disadvantaged [~~or~~ ]**/**low-income communities **and/or Tribes**.
 | **5** |
| **8.5** Project Support Letters* Includes letters of support from technology partners, community based organizations, environmental justice organizations, or other partners that demonstrate their belief that the proposed project will lead to increased equity, and is both feasible, and commercially viable in the identified [~~low-income and/or~~] disadvantaged**/low-income** community**(ies)** **and/or Tribe(s)**.
 | **5** |
| **Total Possible Points for criteria 8****(Minimum Passing Score for Criteria 8 is 70% or 35.00 points)** | **50** |
| **Total Possible Points** | **150** |
| **Preference Points** Applications must meet all minimum passing scores (Scoring Criteria 1-4, 1-7, and 8 for Group 3) to be eligible for the additional points. |

| **Scoring Criteria** | **Maximum Points** |
| --- | --- |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. **Match Funds**
2. Cash match share is preferred; however, in-kind cost share is permitted and will be considered for solicitation match requirements. Points for this criterion will be evaluated based on the proposed cash match relative to the total match (cash + in-kind) contributions using the Cash Match Scoring Table:

**Cash Match Scoring Table**

| Percentage of Proposed Cash Match Funds | Score |
| --- | --- |
| 80 to 100% | 5 |
| 60 to <80% | 4 |
| 40 to <60% | 3 |
| 20 to <40% | 2 |
| 10 to <20% | 1 |

 | **5** |
| 1. Additional points will be awarded to applications that exceed the minimum match requirements based on the percentage amount above minimum using the Exceeds Minimum Match Scoring table:

**Exceeds Minimum Match Scoring Table**

| Percentage above Minimum Match (cash and in-kind) | Score |
| --- | --- |
|  80% | 5 |
| 60 to <80% | 4 |
| 40 to <60% | 3 |
| 20 to <40% | 2 |
| 10 to <20 % | 1 |

  | **5** |

1. California Energy Commission Proposed EPIC Interim Investment Plan 2021, https://efiling.energy.ca.gov/GetDocument.aspx?tn=236882 and approved by CPUC decision 21-07-006, July 15, 2021, https://docs.cpuc.ca.gov/SearchRes.aspx?docformat=ALL&docid=394265545. [↑](#footnote-ref-2)
2. California Public Utilities Commission (CPUC) Electric Rule 21. https://www.cpuc.ca.gov/Rule21/ [↑](#footnote-ref-3)
3. CPUC. 2020. Decision 20-09-035. https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M347/K953/347953769.PDF [↑](#footnote-ref-4)
4. **Decision 21-12-015, Attachment 2, p. 6, adopted December 2, 2021 in R.20-11-003.** <https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M428/K821/428821475.PDF> [↑](#footnote-ref-5)
5. California Public Utilities Commission (CPUC). 2020. Decision 20-09-035. <https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M347/K953/347953769.PDF> [↑](#footnote-ref-6)
6. **Decision 21-12-015, Attachment 2, p. 6, adopted December 2, 2021 in R.20-11-003.** [**https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M428/K821/428821475.PDF**](https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M428/K821/428821475.PDF) [↑](#footnote-ref-7)
7. Pacific Standard Time or Pacific Daylight Time, whichever is being observed. [↑](#footnote-ref-8)
8. This deadline does not apply to non-technical questions (e.g., questions concerning application format requirements or attachment instructions) or to questions that address an ambiguity, conflict, discrepancy, omission, or other error in the solicitation. Such questions may be submitted to the Commission Agreement Officer listed in Section G at any time prior to the application deadline. Please see Section G for additional information. [↑](#footnote-ref-9)
9. See CPUC “Phase 1” Decision 11-12-035, December 15, 2011, http://docs.cpuc.ca.gov/PublishedDocs/WORD\_PDF/FINAL\_DECISION/156050.PDF. [↑](#footnote-ref-10)
10. See CPUC Decision 18-01-008, July 11, 2018,

<http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M206/K319/206319491.PDF> [↑](#footnote-ref-11)
11. California Public Resources Code, Section 25711.5(a), http://www.leginfo.ca.gov/cgi-bin/displaycode?section=prc&group=25001-26000&file=25710-25712. [↑](#footnote-ref-12)
12. 2018-20 EPIC Triennial Investment Plan, https://www.energy.ca.gov/publications/2017/electric-program-investment-charge-proposed-2018-2020-triennial-investment-plan as modified and approved by CPUC decision 18-01-008, July 11, 2018, http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M206/K319/206319491.PDF. [↑](#footnote-ref-13)
13. California Energy Commission Proposed EPIC Interim Investment Plan 2021, https://efiling.energy.ca.gov/GetDocument.aspx?tn=236882 and approved by CPUC decision 21-07-006, July 15, 2021, https://docs.cpuc.ca.gov/SearchRes.aspx?docformat=ALL&docid=394265545. [↑](#footnote-ref-14)
14. AB 32 (Statutes of 2006, chapter 488) [↑](#footnote-ref-15)
15. SBX 1-2 (Statutes of 2011, first extraordinary session, chapter 1) [↑](#footnote-ref-16)
16. AB 2514 (Statutes of 2010, chapter 469) [↑](#footnote-ref-17)
17. SB 350 (Statutes of 2015, chapter 547 [↑](#footnote-ref-18)
18. A local publicly owned electric utility is an entity as defined in California Public Utilities Code section 224.3. [↑](#footnote-ref-19)
19. Public Resources Code § 25711.6. [↑](#footnote-ref-20)
20. Public Resources Code § 25711.5. [↑](#footnote-ref-21)
21. Public Resources Code § 25711.6. [↑](#footnote-ref-22)
22. See CPUC “Phase 2” Decision 12-05-037 at pp. 39-40 and 90, http://docs.cpuc.ca.gov/PublishedDocs/WORD\_PDF/FINAL\_DECISION/167664.PDF. [↑](#footnote-ref-23)
23. *Id.* at p. 19. [↑](#footnote-ref-24)
24. *Id.* at pp. 19-20. [↑](#footnote-ref-25)
25. “Key personnel” are individuals that are critical to the project due to their experience, knowledge, and/or capabilities. [↑](#footnote-ref-26)
26. https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40 [↑](#footnote-ref-27)