



STATE OF CALIFORNIA

GRANT REQUEST FORM (GRF)

CEC-270 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) New Agreement # ZVI-21-002 (to be completed by CGL office)

B) Division	Agreement Manager:	MS-	Phone
600 Fuels and Transportation Division	Kyle Corrigan	6	916-776-7195

C) Recipient's Legal Name	Federal ID #
Eneridge, Inc.	81-1499613

D) Title of Project
120 kW Ultrafast Charger with Integrated-Battery Packs

E) Term and Amount

Start Date	End Date	Amount
11 / 10 / 2021	09 / 30 / 2024	\$ 1,000,000

F) Business Meeting Information

☐ ARFVTP agreements \$75K and under delegated to Executive Director

Proposed Business Meeting Date 11 / 15 / 2021 ☐ Consent ☒ Discussion

Business Meeting Presenter Kyle Corrigan Time Needed: 5 minutes

Please select one list serve. Altfuels (AB118- ARFVTP)

Agenda Item Subject and Description:

ENERIDGE, INC. Proposed resolution approving Agreement ZVI-21-002 with Eneridge, Inc. for a \$1,000,000 grant to install, maintain, and collect data from six 120 kW ultrafast chargers with integrated battery packs, and adopting staff's determination that this project is exempt under CEQA. (Clean Transportation Program funding) Contact: Kyle Corrigan (Staff Presentation: 5 minutes)

G) California Environmental Quality Act (CEQA) Compliance

1. Is Agreement considered a "Project" under CEQA?

☒ Yes (skip to question 2) ☐ No (complete the following (PRC 21065 and 14 CCR 15378)):

2. If Agreement is considered a "Project" under CEQA:

a) ☒ Agreement **IS** exempt.

☐ Statutory Exemption. List PRC and/or CCR section number:

☒ Categorical Exemption. List CCR section number:

Cal. Code Regs., tit. 14, Section 15301 Existing Facilities provides that the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing structures, facilities, mechanical equipment or topographical features involving negligible or no expansion of use beyond that existing are categorically exempt from the provisions of CEQA. This project involves installation of electric vehicle (EV) charging stations in existing paid and private parking spaces. Specifically, this project will install chargers and battery packs at 4 sites; 2 of which are hospitals, and 2 of which are community centers. At each site, the equipment will be installed at existing, paved parking facilities. Therefore, this project is exempt under California Code of Regulations, title 14, section 15301, Existing Facilities.



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Cal. Code Regs., tit. 14, sec. 15303 provides that projects which consist of construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures; and the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure, are categorically exempt from the provisions of CEQA. This project involves installation of 6 small electric vehicle (EV) charging stations and battery packs at 4 existing parking locations (2 chargers at 2 sites, and 1 charger each at the other 2 sites). The chargers are approximately the size of a gas pump, and the battery packs are less than 100 square feet. Therefore, the project falls within section 15303 and will not have a significant effect on the environment.

☐ Common Sense Exemption. 14 CCR 15061 (b) (3) Explain reason why Agreement is exempt under the above section:

- b) ☐ Agreement **IS NOT** exempt. (consult with the legal office to determine next steps)

Check all that apply

- ☐ Initial Study
☐ Negative Declaration
☐ Mitigated Negative Declaration
☐ Environmental Impact Report
☐ Statement of Overriding Considerations

H) List all subcontractors (major and minor) and equipment vendors: (attach additional sheets as necessary)

Legal Company Name:	Budget
Conti Corporation	\$ 98,500.00
Smart Whale Control	\$ 37,500.00
Freewire Technologies (Match funds)	\$ 108,000.00

I) List all key partners: (attach additional sheets as necessary)

Legal Company Name:

J) Budget Information

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
Other	21-22	601.129ZEV	\$1,000,000
Funding Source			\$
Funding Source			\$
Funding Source			\$
Funding Source			\$

R&D Program Area: N/A TOTAL: \$

Explanation for "Other" selection



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Reimbursement Contract #:

Federal Agreement #:

K) Recipient's Contact Information

1. Recipient's Administrator/Officer

Name: Chris Cho

Address: 11947 Florence Ave, Unit 6

City, State, Zip: Santa Fe Springs,
CA, 90670

Phone: (714) 809-4292

E-Mail: chris.cho@eneridge.com

2. Recipient's Project Manager

Name: Damon Kim

Address: 11947 Florence Ave, Unit 6

City, State, Zip: Santa Fe Springs,
CA, 90670

Phone: (714) 299-7317

E-Mail: damon.kim@eneridgeg.com

L) Selection Process Used

☒ Competitive Solicitation Solicitation #: GFO-20-605

☐ First Come First Served Solicitation Solicitation #: - -

M) The following items should be attached to this GRF

1. Exhibit A, Scope of Work

2. Exhibit B, Budget Detail

3. CEC 105, Questionnaire for Identifying Conflicts

4. Recipient Resolution

5. CEQA Documentation

☒ Attached

☒ Attached

☒ Attached

☒ N/A

☐ Attached

☒ N/A

☐ Attached

Agreement Manager

Date

Office Manager

Date

Deputy Director

Date

Exhibit A SCOPE OF WORK

TECHNICAL TASK LIST

Task #	CPR	Task Name
1		Administration
2		Prepare Design, Costs, and Site Host Agreements
3	X	Install Charging Stations
4		System Test, Startup, and Register Charger Online
5		Monitor Status of Chargers Deployed and Provide Technical Support
6		Project Fact Sheet
7		Data Collection and Analysis

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	Damon Kim Chris Cho Seonae Min Joseph Kim	SWC Conti Corporation	
2	Damon Kim Chris Cho	SWC Conti Corporation	IRE Development Emanate Hospital City of San Jose
3	Damon Kim Chris Cho	SWC Conti Corporation Freewire	
4	Damon Kim Chris Cho	SWC Conti Corporation Freewire	EVgateway
5	Damon Kim Chris Cho		EVgateway
6	Damon Kim Chris Cho		EVgateway
7	Damon Kim Chris Cho		EVgateway

GLOSSARY

Specific terms and acronyms used throughout this scope of work are defined as follows:

Term/ Acronym	Definition
Clean Transportation Program	Formerly known as the Alternative and Renewable Fuel and Vehicle Technology Program
CAM	Commission Agreement Manager
CPR	Critical Project Review

Term/ Acronym	Definition
FTD	Fuels and Transportation Division
Recipient	Eneridge
EV	Electric Vehicle
LCFS	Low Carbon Fuel Standard
DC	Direct Current

Background

The Budget Act of 2021 (AB 128, Ting, Chapter 21, Statutes of 2021, as amended by Senate Bill (SB) 129, Skinner, Chapter 69, Statutes of 2021 and SB 170, Skinner, Chapter 240, Statutes of 2021) appropriated \$785,000,000 from the General Fund to support infrastructure deployments and manufacturing projects for zero-emission light-duty and medium- and heavy-duty vehicles.

On August 7, 2020, the CEC released Grant Funding Opportunity, GFO-20-605 entitled “BESTFIT Innovative Charging Solutions.” This competitive grant solicitation was an offer to fund projects that demonstrate transformative technology solutions and work to accelerate the successful commercial deployment of electric vehicle (EV) charging for both light-duty (LD) and medium- and heavy-duty (MD/HD) applications. In response to GFO-20-605, the Recipient submitted application #10 which was proposed for funding in the CEC’s Notice of Proposed Awards on September 8, 2021. GFO-20-605 and Recipient’s application are hereby incorporated by reference into this Agreement in their entirety.

In the event of any conflict or inconsistency between the terms of the Solicitation and the terms of the Recipient’s Application, the Solicitation shall control. In the event of any conflict or inconsistency between the Recipient’s Application and the terms of CEC’s Award, CEC’s Award shall control. Similarly, in the event of any conflict or inconsistency between the terms of this Agreement and the Recipient’s Application, the terms of this Agreement shall control.

Problem Statement:

High power DC fast chargers are expensive and can produce significant grid impacts. DC fast charging can also be expensive because utility rates include “demand charges” for the highest power used. DC fast chargers with internal battery storage can reduce costs to consumers by avoiding expensive demand charges. This demonstration will provide important field data needed to exemplify the DC fast charger’s two benefits: lower installation costs and operating costs by using the Boost Charger for ultrafast charging. The results of this project will aid in recruiting new site hosts.

The project will use a 120 kW charger with an internal 160 kWh battery pack, serving as a prime example of the ultrafast charger innovation while minimizing grid impacts, installation costs, and operation costs. The technology used in the DC fast charger design is from Freewire Technologies. With successful completion, the proposed project will be able to provide case studies to potential customers.

Goals of the Agreement:

The goal of this Agreement is to demonstrate that the Boost Charger is a technically and economically viable solution for mass deployment of public ultrafast charging stations without significant grid impact or changes to existing electrical infrastructure.

Objectives of the Agreement:

The objectives of this Agreement are to:

- Demonstrate technical and economic effectiveness and the social benefits of the Boost Charger.
- Demonstrate of the ability to install the Boost Charger without significant infrastructure modification.
- Demonstrate efficient retrofit of existing chargers (including Level 1 or Level 2 chargers) to 120 kW ultrafast charger and the conditions required to conduct successful retrofit.
- Compare installation cost with conventional fast charging stations.
- Compare any demand charges with conventional fast charging stations.

TASK 1 ADMINISTRATION

Task 1.1 Attend Kick-off Meeting

The goal of this task is to establish the lines of communication and procedures for implementing this Agreement. The Commission Agreement Manager (CAM) shall designate the date and location of this meeting and provide an agenda to the Recipient prior to the meeting.

The Recipient shall:

- Attend a “Kick-Off” meeting with the CAM, the Commission Agreement Officer (CAO), and a representative of the Energy Commission Accounting Office. The Recipient shall bring their Project Manager, Agreement Administrator, Accounting Officer, and any others determined necessary by the Recipient or specifically requested by the CAM to this meeting.
- Discuss the following administrative and technical aspects of this Agreement:
 - Agreement Terms and Conditions
 - Critical Project Review (Task 1.2)
 - Match fund documentation (Task 1.6) No reimbursable work may be done until this documentation is in place.
 - Permit documentation (Task 1.7)
 - Subcontracts needed to carry out project (Task 1.8)
 - The CAM's expectations for accomplishing tasks described in the Scope of Work
 - An updated Schedule of Products and Due Dates
 - Monthly Progress Reports (Task 1.4)
 - Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)
 - Final Report (Task 1.5)

Recipient Products:

- Updated Schedule of Products
- Updated List of Match Funds
- Updated List of Permits

Commission Agreement Manager Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

CPRs provide the opportunity for frank discussions between the Energy Commission and the Recipient. The goal of this task is to determine if the project should continue to receive Energy Commission funding to complete this Agreement and to identify any needed modifications to the tasks, products, schedule or budget.

The CAM may schedule CPR meetings as necessary, and meeting costs will be borne by the Recipient.

Meeting participants include the CAM and the Recipient and may include the Commission Agreement Officer, the Fuels and Transportation Division (FTD) program lead, other Energy Commission staff and Management as well as other individuals selected by the CAM to provide support to the Energy Commission.

The CAM shall:

- Determine the location, date, and time of each CPR meeting with the Recipient. These meetings generally take place at the Energy Commission, but they may take place at another location.
- Send the Recipient the agenda and a list of expected participants in advance of each CPR. If applicable, the agenda shall include a discussion on both match funding and permits.
- Conduct and make a record of each CPR meeting. Prepare a schedule for providing the written determination described below.
- Determine whether to continue the project, and if continuing, whether or not modifications are needed to the tasks, schedule, products, and/or budget for the remainder of the Agreement. Modifications to the Agreement may require a formal amendment (please see section 8 of the Terms and Conditions). If the CAM concludes that satisfactory progress is not being made, this conclusion will be referred to the Lead Commissioner for Transportation for his or her concurrence.
- Provide the Recipient with a written determination in accordance with the schedule. The written response may include a requirement for the Recipient to revise one or more product(s) that were included in the CPR.

The Recipient shall:

- Prepare a CPR Report for each CPR that discusses the progress of the Agreement toward achieving its goals and objectives. This report shall include recommendations and conclusions regarding continued work of the projects. This report shall be submitted along with any other products identified in this scope of work. The Recipient shall submit these documents to the CAM and any

other designated reviewers at least 15 working days in advance of each CPR meeting.

- Present the required information at each CPR meeting and participate in a discussion about the Agreement.

CAM Products:

- Agenda and a list of expected participants
- Schedule for written determination
- Written determination

Recipient Product:

- CPR Report(s)

Task 1.3 Final Meeting

The goal of this task is to closeout this Agreement.

The Recipient shall:

- Meet with Energy Commission staff to present the findings, conclusions, and recommendations. The final meeting must be completed during the closeout of this Agreement.

This meeting will be attended by, at a minimum, the Recipient, the Commission Grants Office Officer, and the Commission Agreement Manager. The technical and administrative aspects of Agreement closeout will be discussed at the meeting, which may be two separate meetings at the discretion of the Commission Agreement Manager.

The technical portion of the meeting shall present an assessment of the degree to which project and task goals and objectives were achieved, findings, conclusions, recommended next steps (if any) for the Agreement, and recommendations for improvements. The Commission Agreement Manager will determine the appropriate meeting participants.

The administrative portion of the meeting shall be a discussion with the Commission Agreement Manager and the Grants Officer about the following Agreement closeout items:

- What to do with any equipment purchased with Energy Commission funds (Options)
- Energy Commission's request for specific "generated" data (not already provided in Agreement products)
- Need to document Recipient's disclosure of "subject inventions" developed under the Agreement
- "Surviving" Agreement provisions
- Final invoicing and release of retention
- Prepare a schedule for completing the closeout activities for this Agreement.

Products:

- Written documentation of meeting agreements
- Schedule for completing closeout activities

Task 1.4 Quarterly Progress Reports

The goal of this task is to periodically verify that satisfactory and continued progress is made towards achieving the objectives of this Agreement on time and within budget.

The objectives of this task are to summarize activities performed during the reporting period, to identify activities planned for the next reporting period, to identify issues that may affect performance and expenditures, and to form the basis for determining whether invoices are consistent with work performed.

The Recipient shall:

- Prepare a Quarterly Progress Report which summarizes all Agreement activities conducted by the Recipient for the reporting period, including an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. Each progress report is due to the Commission Agreement Manager within 10 days of the end of the reporting period. The recommended specifications for each progress report are contained in Section 6 of the Terms and Conditions of this Agreement.
- In the first Quarterly Progress Report and first invoice, document and verify match expenditures and provide a synopsis of project progress, if match funds have been expended or if work funded with match share has occurred after the notice of proposed award but before execution of the grant agreement. If no match funds have been expended or if no work funded with match share has occurred before execution, then state this in the report. All pre-execution match expenditures must conform to the requirements in the Terms and Conditions of this Agreement.

Product:

- Quarterly Progress Reports

Task 1.5 Final Report

The goal of the Final Report is to assess the project's success in achieving the Agreement's goals and objectives, advancing science and technology, and providing energy-related and other benefits to California.

The objectives of the Final Report are to clearly and completely describe the project's purpose, approach, activities performed, results, and advancements in science and technology; to present a public assessment of the success of the project as measured by the degree to which goals and objectives were achieved; to make insightful observations based on results obtained; to draw conclusions; and to make recommendations for further projects and improvements to the FTD project management processes.

The Final Report shall be a public document. If the Recipient has obtained confidential status from the Energy Commission and will be preparing a confidential version of the Final Report as well, the Recipient shall perform the following activities for both the public and confidential versions of the Final Report.

The Recipient shall:

- Prepare an Outline of the Final Report, if requested by the CAM.
- Prepare a Final Report following the latest version of the Final Report guidelines which will be provided by the CAM. The CAM shall provide written comments on the Draft Final Report within fifteen (15) working days of receipt. The Final Report must be completed at least 60 days before the end of the Agreement Term.
- Submit one bound copy of the Final Report with the final invoice.

Products:

- Outline of the Final Report, if requested
- Draft Final Report
- Final Report

Task 1.6 Identify and Obtain Matching Funds

The goal of this task is to ensure that the match funds planned for this Agreement are obtained for and applied to this Agreement during the term of this Agreement.

The costs to obtain and document match fund commitments are not reimbursable through this Agreement. Although the Energy Commission budget for this task will be zero dollars, the Recipient may utilize match funds for this task. Match funds shall be spent concurrently or in advance of Energy Commission funds for each task during the term of this Agreement. Match funds must be identified in writing and the associated commitments obtained before the Recipient can incur any costs for which the Recipient will request reimbursement.

The Recipient shall:

- Prepare a letter documenting the match funding committed to this Agreement and submit it to the Commission Agreement Manager at least 2 working days prior to the kick-off meeting. If no match funds were part of the proposal that led to the Energy Commission awarding this Agreement and none have been identified at the time this Agreement starts, then state such in the letter. If match funds were a part of the proposal that led to the Energy Commission awarding this Agreement, then provide in the letter a list of the match funds that identifies the:
 - Amount of each cash match fund, its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied.
 - Amount of each in-kind contribution, a description, documented market or book value, and its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied. If the in-kind contribution is equipment or other tangible or real property, the Recipient shall identify its owner and provide a contact name, address and telephone number, and the address where the property is located.

- Provide a copy of the letter of commitment from an authorized representative of each source of cash match funding or in-kind contributions that these funds or contributions have been secured. For match funds provided by a grant a copy of the executed grant shall be submitted in place of a letter of commitment.
- Discuss match funds and the implications to the Agreement if they are reduced or not obtained as committed, at the kick-off meeting. If applicable, match funds will be included as a line item in the progress reports and will be a topic at CPR meetings.
- Provide the appropriate information to the Commission Agreement Manager if during the course of the Agreement additional match funds are received.
- Notify the Commission Agreement Manager within 10 days if during the course of the Agreement existing match funds are reduced. Reduction in match funds must be approved through a formal amendment to the Agreement and may trigger an additional CPR meeting.

Products:

- A letter regarding match funds or stating that no match funds are provided
- Copy(ies) of each match fund commitment letter(s) (if applicable)
- Letter(s) for new match funds (if applicable)
- Letter that match funds were reduced (if applicable)

Task 1.7 Identify and Obtain Required Permits

The goal of this task is to obtain all permits required for work completed under this Agreement in advance of the date they are needed to keep the Agreement schedule on track.

Permit costs and the expenses associated with obtaining permits are not reimbursable under this Agreement. Although the Energy Commission budget for this task will be zero dollars, the Recipient shall budget match funds for any expected expenditures associated with obtaining permits. Permits must be identified in writing and obtained before the Recipient can make any expenditure for which a permit is required.

The Recipient shall:

- Prepare a letter documenting the permits required to conduct this Agreement and submit it to the Commission Agreement Manager at least 2 working days prior to the kick-off meeting. If there are no permits required at the start of this Agreement, then state such in the letter. If it is known at the beginning of the Agreement that permits will be required during the course of the Agreement, provide in the letter:
 - A list of the permits that identifies the:
 - Type of permit
 - Name, address and telephone number of the permitting jurisdictions or lead agencies
 - The schedule the Recipient will follow in applying for and obtaining these permits.
- Discuss the list of permits and the schedule for obtaining them at the kick-off meeting and develop a timetable for submitting the updated list, schedule and the

copies of the permits. The implications to the Agreement if the permits are not obtained in a timely fashion or are denied will also be discussed. If applicable, permits will be included as a line item in the Progress Reports and will be a topic at CPR meetings.

- If during the course of the Agreement additional permits become necessary, provide the appropriate information on each permit and an updated schedule to the Commission Agreement Manager.
- As permits are obtained, send a copy of each approved permit to the Commission Agreement Manager.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the Commission Agreement Manager within 5 working days. Either of these events may trigger an additional CPR.

Products:

- Letter documenting the permits or stating that no permits are required
- A copy of each approved permit (if applicable)
- Updated list of permits as they change during the term of the Agreement (if applicable)
- Updated schedule for acquiring permits as changes occur during the term of the Agreement (if applicable)
- A copy of each final approved permit (if applicable)

Task 1.8 Obtain and Execute Subcontracts

The goal of this task is to ensure quality products and to procure subcontractors required to carry out the tasks under this Agreement consistent with the Agreement Terms and Conditions and the Recipient's own procurement policies and procedures. It will also provide the Energy Commission an opportunity to review the subcontracts to ensure that the tasks are consistent with this Agreement, and that the budgeted expenditures are reasonable and consistent with applicable cost principles.

The Recipient shall:

- Manage and coordinate subcontractor activities.
- Submit a draft of each subcontract required to conduct the work under this Agreement to the Commission Agreement Manager for review.
- Submit a final copy of the executed subcontract.
- If Recipient decides to add new subcontractors, then the Recipient shall notify the CAM.

Products:

- Letter describing the subcontracts needed, or stating that no subcontracts are required
- Draft subcontracts
- Final subcontracts

TECHNICAL TASKS

TASK 2 Prepare Design, Costs, and Site Host Agreements

The goal of this task is to prepare the project design and engineering, and reach agreements with site hosts.

The Recipient shall:

- Obtain as-built drawings for the parking structure, parking lot or building, panel schedule, and other diagrams and drawings required.
- Determine prospective locations to install chargers at the project site and paths and distances to the electric panel from each prospective location.
- Ensure adequate electrical capacity and delivery.
 - Determine if electrical panel can be expanded for a new breaker.
 - If electric panel is not adequate, develop plan and costs to replace panel or determine if alternate location will be required.
 - Perform load calculation to ensure that the capacity is available to provide up to 27kW to Boost Charger
 - If applicable, assess condition of any existing infrastructure, such as conduit, that may be used.
- Measure the size of the parking stall and determine ADA accessible route
- Develop schematic, design drawings, equipment lists, and specifications for the charging station installation at each project site. The designs could include:
 - Site plan with the location of the chargers and the location of the panel
 - Charging station layout
 - Product specification
 - Single line diagram
 - Calculations
 - Panel Schedule
- Prepare and submit Detailed Design Summary Report to the CAM.
- Prepare and submit Finalized Installation Scope of Work for each project site to the CAM.
- Finalize site host agreements including the following:
 - Charging station location
 - License fee or revenue sharing for the charging station installed
 - Preliminary project schedule
 - Legal Terms and Conditions
- Prepare and submit Site Host Agreement Summary Report to the CAM.

Products:

- Detailed Design Summary Report

- Finalized Installation Scope of Work for each project site
- Site Host Agreement Summary Report

TASK 3 Install Charging Stations

The goal of this task is to conduct site preparations and install the Boost Chargers and other necessary equipment.

The Recipient shall:

- Conduct site preparations including:
 - Site grading
 - Pouring concrete pads and structural supports
 - Establishing interconnections to the local utility and new meter placement
 - Constructing fences and gates
 - Performing trenching and placing new conduits as needed
 - Wiring
 - Panel upgrade as needed
 - Constructing parking bollards
- Procure and install six 120kW Ultrafast Chargers with Integrated Battery Systems
- Prepare and submit Make-ready Site Preparation Summary Report to CAM. Report shall include, but is not limited to:
 - A narrative on construction highlights and issues
 - A narrative on any changes to the scope during the construction and explain the change
 - Photographs of the activities such as grading, trenching, and electrical wiring
- Prepare and submit Final Inspection Summary Report to the CAM.

Submit an AB 841 Certification that certifies the project has complied with all AB 841 (Ting, Chapter 372, Statutes of 2020) requirements specified in Exhibit C or describes why the AB 841 requirements do not apply to the project. The certification shall be signed by Recipient's authorized representative.
- Submit Electric Vehicle Infrastructure Training Program (EVITP) Certification Numbers of each EVITP-certified electrician that installed electric vehicle charging infrastructure or equipment. EVITP Certification Numbers are not required to be submitted if AB 841 requirements do not apply to the project.

Products:

- Make-ready Site Preparation Summary Report
- Final Inspection Summary Report
- AB 841 Certification
- EVITP Certification Numbers

[CPR WILL BE HELD IN THIS TASK. See Task 1.2 for details]

Task 4 System Test, and Startup

The goal of this task is to test, commission, and register chargers; check and validate the system installation; perform system commissioning; and set up the charger for commercial operation.

The Recipient shall:

- Run tests to ensure safe operation, including checks on:
 - Electrical component safety
 - Lighting and display
 - Battery charging system
 - Component operation
 - Cellular connectivity
- Commission per manufacturer's installation manual
- Register chargers, providing required information to network engineers:
 - OCPP supported version
 - Serial number
 - Model number
 - Integrate OCPP functions into charger and provide list of all OCPP functions supported by charger
 - Setup a station in test environment
 - Share OCPP URL to be configured on the charger and connect to internet
- Prepare and submit System Test Summary Report including information on system tests, start-up, information on installations and start date of commercial operation, and any modifications required. Submit System Test Summary Report to the CAM.

Products:

- System Test Summary Report

Task 5 Monitor Status of Chargers and Provide Technical Support

The goal of this task to monitor the operation and the status of the installed chargers and to dispatch maintenance engineers if needed.

The Recipient shall:

- Monitor the status of the chargers deployed in real time.
- Provide 24/7 technical support via telephone, e-mail, or ticketing system
- Dispatch onsite engineers if maintenance is necessary
- Create summary on charger operation and record of any system malfunctioning
- Prepare and submit Summary on Operation of Chargers to CAM.
- Operate the chargers to achieve 95% uptime for the duration of the agreement

Products:

- Summary on Operation of Chargers

TASK 6 Project Fact Sheet

The goal of this task is to develop an initial and final project fact sheet that describes the CEC-funded project and the benefits resulting from the project for the public and key decision makers.

The Recipient shall:

- Prepare an Initial Project Fact Sheet at project initiation that describes the project and the expected benefits. Use the format provided by the CAM.
- Prepare a Final Project Fact Sheet at project completion that describes the project, the actual benefits that have resulted from the project, and lessons learned from implementing the project. Use the format provided by the CAM.
- Provide at least (6) six High Quality Digital Photographs (minimum resolution of 1300x500 pixels in landscape ratio) from the project.

Products:

- Initial Project Fact Sheet
- Final Project Fact Sheet
- High Quality Digital Photographs

Task 7 Data Collection and Analysis

The goal of this task is to collect operational data from the project, to analyze that data for economic and environmental impacts, and to include the data and analysis regular progress reports and the Final Report.

The Recipient shall:

- Develop data collection test plan for deployed charging equipment.

Troubleshoot any issues identified.

- Collect and provide the following data:
 - Number, type, date and location of chargers or hydrogen refueling stations installed.
 - Nameplate capacity of the installed equipment, in kW for chargers and kg/day for hydrogen.
 - Number and type of outlets per charger.
 - Location type, such as street, parking lot, hotel, restaurant or multi-unit housing.
 - Total cost per charger or refueling station, the subsidy from the CEC per charger or refueling station, federal subsidy per charger or refueling station, utility subsidy per charger or refueling station, and privately funded share per charger or refueling station.

- Collect a minimum of 12 months of data on charging events for the deployed infrastructure including, but not limited to:
 - Number of charging or refueling sessions
 - Average charger or refueling station downtime
 - Charge and session duration
 - Energy delivered (kWh)
 - Peak power delivered (kW)
 - Average session duration
 - Average kWh or kg dispensed
 - Applicable price for charging, including but not limited to: electric utility tariff, EVSP service contract, or public charger price
 - Payment method
 - Types of vehicles using the charging equipment
 - Number of unique vehicles and frequency of “repeat vehicles”
 - Energy delivered back to grid or facility if a bidirectional charging use case (kWh)
- Submit the data described above electronically in a monthly progress report throughout the duration of the data collection period.
- Develop a plan to provide other relevant data and information throughout the duration of the funding agreement including, but not limited to:
 - Lessons learned
 - Best practices (e.g., permitting and installation processes)
 - Job creation
 - Economic development
 - Increased state revenue
- Submit the data described above electronically in a quarterly progress report throughout the duration of the agreement.
- Identify any planned use of renewable energy in the project.
- Compare any project performance and expectations provided in the proposal to Energy Commission with actual project performance and accomplishments.
- Collect data, information, and analysis described above and include in the Final Report.

Products:

- Data collection on charging events will be submitted electronically in a monthly progress report.
- Data collection on other relevant data and information described above will be submitted electronically in a quarterly progress report.
- Data collection information and analysis will be included in the Final Report.

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: ENERIDGE, INC.

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement ZVI-21-002 with Eneridge, Inc. for a \$1,000,000 grant to install, maintain, and collect data from six 120 kW ultrafast chargers with integrated battery packs; and

FURTHER BE IT RESOLVED, that the Executive Director or their designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on November 15, 2021.

AYE:

NAY:

ABSENT:

ABSTAIN:

Liza Lopez
Secretariat