California Energy Commission
August 14, 2024 Business Meeting
Backup Materials for Office of Exposition Park Management

The following backup materials for the above-referenced agenda item are available in this PDF packet as listed below:

1. Proposed Resolution
2. Contract Request Form
3. Scope of Work

[PROPOSED]

RESOLUTION NO: 24-0814-XX

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Office of Exposition Park Management

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 600-23-010 with the Office of Exposition Park Management for a $5,000,000 contract. This contract will install Level 2 and direct current fast charging electric vehicle (EV) chargers, bus charging ports, solar PV equipment, and battery storage at a destination multi-use park and future Olympic venue in a disadvantaged and low-income community in Los Angeles; 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 August 14, 2024.

AYE:
NAY:
ABSENT:
ABSTAIN:

Dated:

_____
Kristine Banaag
Secretariat

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION

CEC-94 (Revised 01/2024)

CONTRACT REQUEST FORM (CRF)

A. New Agreement Number

IMPORTANT: New Agreement # to be completed by Contracts, Grants, and Loans Office.

New Agreement Number: 600-23-010

B. Division Information

1. Division Name: Fuels and Transportation
2. Agreement Manager: Myoung-Ae Jones
3. MS-Not Applicable
4. Phone Number: (916) 477-0246

C. Contractor's Information

1. Contractor's Legal Name: Office of Exposition Park Management
2. Federal ID Number: 94-6001347

D. Title of Project

Title of project: Exposition Park Interagency Agreement

E. Term and Amount

1. Start Date: 8/14/2024
2. End Date: 5/31/2029
3. Amount: $5,000,000

F. Business Meeting Information

1. Operational agreement to be approved by Executive Director? No
2. Are the ARFVTP agreements $75K and under delegated to Executive Director? No
3. The Proposed Business Meeting Date: 08/14/2024
4. Consent or Discussion? Discussion
5. Business Meeting Presenter Name: Myoung-Ae Jones
6. Time Needed for Business Meeting: 5 minutes.
7. The email subscription topic is: Clean Transportation Program, General Transportation

Agenda Item Subject and Description:

Office of Exposition Park Management. Proposed resolution approving agreement 600-23-010 with the Office of Exposition Park Management for a $5,000,000 contract, and adopting staff's determination that this action is exempt from CEQA. This contract will install Level 2 and direct current fast charging electric vehicle (EV) chargers, bus charging ports, solar PV equipment, and battery storage at a destination multi-use park and future Olympic venue in a disadvantaged and low-income community in Los Angeles. (Clean Transportation Program Funding) Contact: Myoung-Ae Jones (Staff Presentation: 5 minutes)

G. California Environmental Quality Act (CEQA) Compliance

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

If yes, skip to question 2.

If no, complete the following (PRC 21065 and 14 CCR 15378) and explain why Agreement is not considered a "Project":

Agreement will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because: If Agreement is considered a "Project" under CEQA skip to question 2. Otherwise, provide explanation.

2. **If Agreement is considered a "Project" under CEQA answer the following questions.**

a) Agreement **IS** exempt?

Yes

Statutory Exemption?

No

If yes, list PRC and/or CCR section number(s) and separate each with a comma. If no, enter "None" and go to the next question.

PRC section number: None

CCR section number: None

Categorical Exemption?

Yes

If yes, list CCR section number(s) and separate each with a comma. If no, enter "None" and go to the next question.

CCR section number: Cal. Code Regs., tit. 14, sec. 15301, 15303
The proposed project will be installing electric vehicle supply equipment, solar, and battery storage. Section 15301 provides that projects which consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, and which involve negligible or no expansion of use beyond that existing at the time of the lead agency's determination, are categorically exempt from the provisions of the California Environmental Quality Act (CEQA). This project will involve the installation of charging stations at existing parking lots. This installation will be a minor altercation to an existing facility with no expansion beyond the existing use of the facility and will not have a significant effect on the environment. This project therefore falls under categorical exemption listed in CEQA Guidelines Section 15301. Further, none of the exceptions listed in CEQA Guidelines Section 15300.2 apply to this project.

Section 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 consists of installation of new charging stations to existing sites. The equipment will be installed in existing, paved parking lots. Therefore, the project falls within section 15303 and will not have a significant effect on the environment.

This project does not involve impacts on any particularly sensitive environment; does not involve any cumulative impacts of successive projects of the same type in the same place that might be considered significant; does not involve unusual circumstances that might have a significant effect on the environment; will not result in damage to scenic resources within a highway officially designated as a state scenic highway; the project site is not included on any list compiled pursuant to Government Code section 65962.5; and the project will not cause a substantial adverse change in the significance of a historical resource. Therefore, none of the

exceptions to categorical exemptions listed in CEQA Guidelines section 15300.2 apply to this project, and this project will not have a significant effect on the environment.

Common Sense Exemption? 14 CCR 15061 (b) (3)

No

If yes, explain reason why Agreement is exempt under the above section. If no, enter "Not applicable" and go to the next section.

b) Agreement **IS NOT** exempt.
IMPORTANT: consult with the legal office to determine next steps.

Enter Yes or No

If yes, answer yes or no to all that applies. If no, list all as "no" and "None" as "yes".

Additional Documents	Applies
Initial Study	No
Negative Declaration	No
Mitigated Negative Declaration	No
Environmental Impact Report	No
Statement of Overriding Considerations	No
None	Yes

H. Is this project considered "Infrastructure"?

Yes

I. Subcontractors

List all Subcontractors listed in the Budget (s). Insert additional rows if needed. If no subcontractors to report, enter "No subcontractors to report" and "0" to funds. **Delete** any unused rows from the table.

Subcontractor Legal Company Name	Budget
California Department of General Services	$ 5,000,000

J. Key Partners

List all key partner(s). Insert additional rows if needed. If no key partners to report, enter "No key partners to report." **Delete** any unused rows from the table.

Key Partner Legal Company Name
No Key Partner Legal Company to report.

K. Budget Information

Include all budget information. Insert additional rows if needed. If no budget information to report, enter "N/A" for "Not Applicable" and "0" to Amount. **Delete** any unused rows from the table.

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
ARFVTF	2021-22	601.118N	$2,100,000
ARFVTF	2022-23	601.118O	$2,900,000

TOTAL Amount: $5,000,000.00

R&D Program Area: Enter R&D Program Area. Example: EDMFO: EDMF: N/A

Explanation for “Other” selection Enter explanation for "Other": N/A

Reimbursement Contract #: Enter Reimbursement Contract Number: N/A

Federal Agreement #: Enter Federal Agreement Number: N/A

L. Contractor’s Contact Information

1. Contractor’s Administrator/Officer

Name: Andrea Ambriz

Address: 700 Exposition Park Drive

City, State, Zip: Los Angeles, CA 90037

Phone: (213) 952-0295

E-Mail: andrea.ambriz@expositionpark.ca.gov

2. Contractor’s Project Manager

Name: Elliott Walker

Address: 700 Exposition Park Drive

City, State, Zip: Los Angeles, CA, 90037

Phone: (213) 321-4793

E-Mail: Elliott.Walker@expositionpark.ca.gov

M. Selection Process Used

There are three types of selection process. List the one used for this CRF.

Selection Process	Additional Information
Competitive Solicitation #	Not Applicable
Non Competitive Bid *(Attach DGS-GSPD-09-007 https://www.dgs.ca.gov/PD/Forms)*	Not Applicable
Exempt, Interagency Agreement	Exemption

N. Contractor Entity Type

Contractor Entity Type	Yes or No?
Private Company *(including non-profits)*	No
CA State Agency *(including UC and CSU)*	Yes
Government Entity *(i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)*	No

O. Is Contractor a certified Small Business (SB), Micro Business (MB) or Disabled Veterans Business Enterprise (DVBE)?

The contractor is a certified: Not Applicable.

P. Civil Service Considerations

a. Not Applicable (Agreement is with a CA State Entity or a membership/co-sponsorship)? Yes

b. Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER) No

c. The Services Contracted: No.

If no, go to the next question. If yes, which of the following applies to the contract? More than one can apply, list each answer choice, and separate them with a comma:

- are not available within civil service
- cannot be performed satisfactorily by civil service employee
- are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system

The following applies to the contract: Enter option(s) from above. Example: "are not available within civil service".

d. The Services are of such an urgent, temporary, or occasional nature that the delay to implement under civil service would frustrate their very purpose?

Urgent.

Justification:

N/A. Interagency Agreement

Q. Payment Method

1. Is the payment method Reimbursement, Advanced Payment, or Other?
   Reimbursement.
   If Other, explain: Not Applicable.
2. If Reimbursement, is it in arrears based on Itemized Monthly, Itemized Quarterly, Flat Rate, or One-time?

   Itemized Quarterly.

R. Retention

Is Agreement subject to retention? No.

If Yes, Will retention be released prior to Agreement termination? Not Applicable.

S. Justification of Rates

The rates here are approximate. DGS will select through a competitive bid a contractor to install the passenger EV and bus charger infrastructure, and solar photovoltaic energy system with battery storage.

Installation of approximately 310 L2 chargers and DCFC chargers: $2 million

Installation of approximately 19 L2 and DCFC bus chargers: $1.5 million

Installation of approximately 1 MW of solar energy system with battery storage: $1.5 million

T. Disabled Veteran Business Enterprise Program (DVBE)

Provide requested additional information.

1. Exempt (Interagency/Other Government Entity) Yes.
2. Meets DVBE Requirements DVBE Enter Yes or No.
   Amount: $ 0 DVBE %:
3. Is the Contractor Certified DVBE or Subcontracting with a DVBE? If subcontracting with a DVBE, provide the name of the DVBE company. If none applies, enter “Not Applicable”.

   Not Applicable

4. Contractor selected through CMAS or MSA with no DVBE participation Enter Yes or No.
5. Requesting DVBE Exemption (attach CEC 95) Enter Yes or No.

U. Miscellaneous Agreement Information

1. Will there be Work Authorizations? No.
2. Is the contractor providing confidential information? No.
3. Is the contractor going to purchase equipment? Yes.
4. What is the check frequency of the progress reports? Monthly, Quarterly, or Other? If Other, please provide explanation.

   Quarterly

5. Will a final report be required? Yes.
6. Is the Agreement, with amendments, longer than three years? If yes, why?

   Yes. The CEC is requesting an exemption for a multi-year contract of approximately 4 years to give the Office of Exposition Park Management enough time to install approximately 310 light-duty vehicle charging ports and 19 bus charging ports, 1 MW of solar, and 1 MWh of battery storage.

V. The following items should be attached to this CRF (as applicable)

List all items that should be attached to this CRF by entering “Yes” or “No”.

Item Number	Item Name	Attached
1	Exhibit A, Scope of Work/Schedule	Yes
2	Exhibit B, Budget Detail	Yes

Item Number	Item Name	Attached
3	DGS-GSPD-09-007, NCB Request	No
4	CEC 95, DVBE Exemption Request	No
5	Awardee CEQA Documentation	No
6	Resumes	No
7	CEC 105, Questionnaire for Identifying Conflicts	Yes

Approved By

Individuals who approve this form must enter their full name and approval date in the MS Word version.

Agreement Manager: Myoung-Ae Jones

Approval Date: 3/14/2024

Office Manager: Elizabeth John

Approval Date: 3/14/2024

Deputy Director: Jen Kalafut

Approval Date: 3/21/2024

Exhibit A
SCOPE OF WORK

TECHNICAL TASK LIST

Task #	CPR	Task Name
1		Administration
2	X	Plan Charger Installations
3		Install Light-Duty Electric Vehicle Supply Equipment
4		Install Bus Chargers
5		Install Solar and Battery Storage
6		Operations and Reliability
7		Semi-Annual Electric Vehicle Charger Inventory Reports
8		Data Collection and Analysis
9		Project Fact Sheet

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	Andrea Ambriz, Elliott Walker		
2		DGS	
3		DGS	
4		DGS	
5	Andrea Ambriz, Elliott Walker	DGS	
6	Andrea Ambriz, Elliott Walker		
7	Andrea Ambriz, Elliott Walker		
8	Andrea Ambriz, Elliott Walker		

GLOSSARY

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

Term/ Acronym	Definition
AB	Assembly Bill
AC Level 2	Alternating current. A charger that operates on a circuit from 208 volts to 240 volts and transfers AC electricity to a device in an electric vehicle (EV) that converts AC to direct current to charge an EV battery.
ADA	Americans with Disabilities Act
API	Application programming interface. A type of software interface that offers service to other pieces of software. An API allows two or more computer programs to communicate with each other.
CAM	Commission Agreement Manager
CAO	Commission Agreement Officer
CEC	California Energy Commission
Charge attempt	Any instance of an EV driver taking action to initiate a charging session by taking one or all of the following steps in any order: 1) attaching the connector to the EV appropriately or 2) attempting to authorize a charging session by use of radio frequency identification (RFID) technology, credit card, charging network provider smartphone application (app), screen input, or calling the charging network provider's customer service number.
Charger	A device with one or more charging ports and connectors for charging EVs. Also referred to as electric vehicle supply equipment (EVSE). This definition excludes any charger used solely for private use at a single-family residence or a multifamily dwelling with four or fewer dwelling units.
Charging network	A collection of chargers located on one or more property(ies) that are connected via digital communications to manage the facilitation of payment, the facilitation of electrical charging, and any related data requests.
Charging network provider	The entity that provides the digital communication network that remotely manages the chargers. Charging network providers may also serve as charging station operators and/or manufacture chargers.
Charging port	The system within a charger that charges one EV. A charging port may have multiple connectors, but it can provide power to charge only one EV through one connector at a time.
Charging session	The period after a charge attempt during which the EV is allowed to request energy. Charging sessions can be terminated by the customer, the EV, the charger, the charging station operator, or the charging network provider.

Term/ Acronym	Definition
Charging station	The area in the immediate vicinity of one or more chargers and includes the chargers, supporting equipment, parking areas adjacent to the chargers, and lanes for vehicle ingress and egress. A charging station could comprise only part of the property on which it is located.
Charging station management system	A system that may be used to operate a charger, to authorize use of the charger, or to record or report charger data, such as by using OCPP.
Charging station operator	The entity that owns the chargers and supporting equipment and facilities at one or more charging stations. Although this entity may delegate responsibility for certain aspects of charging station operation and maintenance to subcontractors, this entity retains responsibility for operation and maintenance of chargers and supporting equipment and facilities. In some cases, the charging station operator and the charging network provider are the same entity.
Connector	The device that attaches an EV to a charging port in order to transfer electricity.
Corrective maintenance	Maintenance that is carried out after failure detection and is aimed at restoring an asset to a condition in which it can perform its intended function.
CPR	Critical Project Review
CTP	Clean Transportation Program
Depot	Type of “home base” behind-the-fence location where a vehicle is typically kept when not in use (usually parked on a nightly basis).
DCFC	Direct current fast charger. A charger that enables rapid charging by delivering direct-current (DC) electricity directly to an EV's battery.
Downtime	A period of time that a charger is not capable of successfully dispensing electricity or otherwise not functioning as designed. Downtime is calculated pursuant to Task 6.
EV	Electric vehicle. A vehicle that is either partially or fully powered on electric power received from an external power source. For the purposes of this Agreement, this definition does not include golf carts, electric bicycles, or other micromobility devices
EVSE	Electric vehicle supply equipment. A charger as defined.
Excluded downtime	Downtime that is caused by events pursuant to Task 65.

Term/ Acronym	Definition
Failed charging session	Following a charge attempt, the criteria for a successful charging session were not met.
FTD	Fuels and Transportation Division
GFO	Grant Funding Opportunity
Hardware	The machines, wiring, and other physical components of an electronic system including onboard computers and controllers.
Inoperative state	The charger or charging port is not operational.
Installed	Attached or placed at a location and available for use for a charging session. The date a charger is installed is the date it is first available for use for a charging session.
Interoperability	Electric vehicle. A vehicle that is either partially or fully powered on electric power received from an external power source. For the purposes of this Agreement, this definition does not include golf carts, electric bicycles, or other micromobility devices.
Maintenance	Any instance in which preventive or corrective maintenance is carried out on equipment.
Networked	A charger can receive or send commands or messages remotely from or to a charging network provider or is otherwise connected to a central management system, such as by using OCPP 2.0.1, for the purposes of charger management and data reporting.
Nonnetworked charger	A charger that is not networked.
OCPP	Open Charge Point Protocol. An open-source communication protocol that specifies communication between chargers and the charging networks that remotely manage the chargers.
Operational	Or “up.” A charging port’s hardware and software are both online and available for use, or in use, and the charging port is capable of successfully dispensing electricity.
Operative state	The charger is operational.
Preventative maintenance	Maintenance that is performed on physical assets to reduce the chances of equipment failure and unplanned machine downtime.

Term/ Acronym	Definition
Private	Charging ports located at parking space(s) that are privately owned and operated, often dedicated to a specific driver or vehicle (for example, a charging port installed in a garage of a single-family home).
Public	Charging ports located at parking space(s) designated by the property owner or lessee to be available to and accessible by the public.
Contractor	An applicant awarded a grant under a CEC solicitation.
Shared Private	Charging ports located at parking space(s) designated by a property owner or lessee to be available to, and accessible by, employees, tenants, visitors, and residents. Examples include workplaces and shared parking at multifamily residences.
Software	A set of instructions, data, or programs used to operate computers and execute specific tasks.
Successful charging session	Following a charge attempt, a customer's EV battery is charged to the state of charge the customer desires and is disconnected manually by the customer or by the EV's onboard software system terminating the charging session, without an additional charge attempt.
Uptime	The time that a charger is installed during a reporting period excluding downtime pursuant to Task 6.4.

Background and Problem Statement

The Budget Act of 2021 (Assembly Bill (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.

The Budget Act of 2022 (SB 154, Skinner, Chapter 43, Statutes of 2022, as amended by AB 178, Ting, Chapter 45, Statutes of 2022 and AB 179, Ting, Chapter 249, Statutes of 2022) and AB 211 (Committee on Budget, Chapter 574, Statutes of 2022) appropriated an additional $754,000,000 from the General Fund to support infrastructure deployments, emerging opportunities, and manufacturing projects for zero-emission light-duty and medium- and heavy-duty vehicles.

Exposition Park (the Park) is a 160-acre state property and home to world-class museums, leading edge sporting venues and community assets that educate and entertain local residents and visitors. The Park is one of California's most visited destinations, with millions of additional patrons expected beginning this year. Exposition Park is anticipating the 2024 opening of the expanded Los Angeles County Natural History Museum, the 2025 opening of the new Lucas Museum of Narrative Art and the

future opening of the Oschin Air and Space Center with space shuttle Endeavor; it is also home to the Bank of Montreal-Los Angeles Football Club (BMO-LAFC) soccer stadium, the Los Angeles (LA) Memorial Coliseum, the California African American Museum, and the historic LA City Rose Garden and pool center.

In 2020, the Board of Directors for Exposition Park and the California Science Center approved a bold and visionary Master Plan, charting a course for greater access, equity, and environmental sustainability. Funding from the California Energy Commission would enable Exposition Park to bring innovative technologies to the public visiting the Park. The Park has limited energy efficiencies and renewable technology and serves as one of the few community sites with electric vehicle supply equipment (EVSE) and charging infrastructure. However, Exposition Park must build to meet community needs and advance towards its longer-term vision.

Identified as a Justice 40 disadvantaged community, Exposition Park's neighboring area ranks in the 91st percentile for low-income households, 96th percentile for level of PM2.5, and 90th for diesel particulate matter exposure in the air. Sixty-eight (68%) percent of residents are Hispanic or Latino, and twenty-two (22%) are Black or African American. The neighborhood experiences some of the hottest temperatures and the least green, park space per capita in all of Los Angeles, at 0.2 acres per 1,000 residents, compared to the national average of 9.9 acres.

Exposition Park has a long history of serving this surrounding community with a variety of services as well as by providing STEM educational opportunities through its museum and public programming. Further, the Park was a site for the 1932 and 1984 Summer Olympic Games and will be the only site in the world to host three Olympiads when it hosts the LA 2028 Olympic and Paralympic Games. As such, this project will contribute to creating more resilient electric vehicle charging options for local underserved community members, provide an opportunity to demonstrate innovative energy-transportation nexus technologies to local and global patrons, and serve as an example of sustainable infrastructure opportunities for Park visitors and community members. In addition, the project will benefit and provide an educational opportunity for the millions of visitors to the park each year. With the Olympic Games only three years away, this project will be highly visible, providing a platform for inspiration for visitors from across the country and globe.

Goals and Objectives of the Agreement:

The project team will deploy a combination of cutting-edge electric vehicle supply equipment (EVSE) technologies with the goal of demonstrating the grid resilience benefits of a coordinated approach to pairing transportation electrification and clean energy technologies. Identified technologies and activities include:

- To install Level 2 and direct current fast charger (DCFC) light-duty chargers at parking structures.
- To install electric bus chargers at parking structures.

- To install solar and battery storage to supply power to parking structures and EVSE.

The project will also serve to educate members of the surrounding community as well as visitors to the park about the combined value of these technologies, including reduced greenhouse gas emissions, more reliable charging infrastructure, and a more resilient grid.

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 Contractor prior to the meeting.

The Contractor shall:

- Attend a "Kick-Off" meeting that includes the CAM and may include the Commission Agreement Officer (CAO) and a representative of the CEC Accounting Office. The Contractor shall bring their Project Manager, Agreement Administrator, Accounting Officer, and any others determined necessary by the Contractor or specifically requested by the CAM to this meeting.
- Provide a written statement of project activities that have occurred after the notice of proposed awards but prior to the execution of the agreement using match funds. If none, provide a statement that no work has been completed using match funds prior to the execution of the agreement. All pre-execution match expenditures must conform to the requirements in the Terms and Conditions of this Agreement.
- Discuss the following administrative and technical aspects of this Agreement:
    - Agreement Terms and Conditions
    - Critical Project Review (Task 1.2)
    - Match fund documentation (Task 1.7) No reimbursable work may be done until this documentation is in place.
    - Permit documentation (Task 1.8)
    - Subawards needed to carry out project (Task 1.9)
    - The CAM's expectations for accomplishing tasks described in the Scope of Work
    - An updated Schedule of Deliverables and Due Dates
    - Monthly Calls (Task 1.4)
    - Quarterly Progress Reports (Task 1.5)

- Technical Deliverables (Deliverable Guidelines located in Section 5 of the Terms and Conditions)
- Final Report (Task 1.6)

Contractor Deliverables:

- Updated Schedule of Deliverables
- Updated List of Match Funds
- Updated List of Permits
- Written Statement of Match Share Activities

CAM Deliverable:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

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

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

Meeting participants include the CAM and the Contractor and may include the CAO, the Fuels and Transportation Division (FTD) program lead, other CEC staff and Management as well as other individuals selected by the CAM to provide support to the CEC.

The CAM shall:

- Determine the location, date, and time of each CPR meeting with the Contractor. These meetings generally take place at the CEC, but they may take place at another location or remotely.
- Send the Contractor 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, deliverables, 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 Contractor with a written determination in accordance with the schedule. The written response may include a requirement for the Contractor to revise one or more deliverable(s) that were included in the CPR.

The Contractor 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 deliverables identified in this scope of work. The Contractor 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 Deliverables:

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

Contractor Deliverable:

- CPR Report(s)

Task 1.3 Final Meeting

The goal of this task is to closeout this Agreement.

The Contractor shall:

- Meet with CEC 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 Contractor and the CAM. 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 CAM.

  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 CAM will determine the appropriate meeting participants.

  The administrative portion of the meeting shall be a discussion with the CAM about the following Agreement closeout items:

- What to do with any equipment purchased with CEC funds (Options)
- CEC request for specific “generated” data (not already provided in Agreement deliverables)
- Need to document Contractor’s disclosure of “subject inventions” developed under the Agreement, if applicable
- “Surviving” Agreement provisions
- Final invoicing and release of retention

- Prepare a schedule for completing the closeout activities for this Agreement.

Deliverables:

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

Task 1.4 Monthly Calls

The goal of this task is to have calls at least monthly between CAM and Contractor to 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 verbally 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, to verify match funds are being proportionally spent concurrently or in advance of CEC funds or are being spent in accordance with an approved Match Funding Spending Plan, to form the basis for determining whether invoices are consistent with work performed, and to answer any other questions from the CAM. Monthly calls might not be held on those months when a quarterly progress report is submitted, or the CAM determines that a monthly call is unnecessary.

The CAM shall:

- Schedule monthly calls.
- Provide questions to the Contractor prior to the monthly call.
- Provide call summary notes to Contractor of items discussed during call.

The Contractor shall:

- Review the questions provided by CAM prior to the monthly call
- Provide verbal answers to the CAM during the call.

Deliverable:

- Email to CAM concurring with call summary notes.

Task 1.5 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 Contractor shall:

- Prepare a *Quarterly Progress Report* which summarizes all Agreement activities conducted by the Contractor for the reporting period, including an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. Progress reports are due to the CAM the 10th day of each January, April, July, and October. The Quarterly Progress Report template can be found on the ECAMS Resources webpage available at https://www.energy.ca.gov/media/4691.

Deliverable:

- Quarterly Progress Reports

Task 1.6 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 and is limited to 25-pages. If the Contractor has obtained confidential status from the CEC and will be preparing a confidential version of the Final Report as well, the Contractor shall perform the following activities for both the public and confidential versions of the Final Report.

In addition to any other applicable requirements, the Final Report must comply with the Americans with Disabilities Act (ADA) of 1990 (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability; all applicable regulations and guidelines issued pursuant to the ADA; Cal. Gov. Code sects. 7405 and 11135; and Web Content Accessibility Guidelines 2.0, or a subsequent version, as published by the Web Accessibility Initiative of the World Wide Web Consortium at a minimum Level AA success criteria.

The Contractor shall:

- Prepare an *Outline of the Final Report*, if requested by the CAM.
- Prepare a *Draft Final Report* complying with ADA requirements and 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 *Final Report* in Microsoft Word format or similar electronic format as approved by the CAM.

Deliverables:

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

Task 1.7 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 CEC budget for this task will be zero dollars, the Contractor may utilize match funds for this task. Match funds must be identified in writing and the associated commitments obtained before the Contractor can incur any costs for which the Contractor will request reimbursement.

The Contractor shall:

- Prepare a letter documenting the match funding committed to this Agreement and submit it to the CAM at least 2 working days prior to the kick-off meeting. If no match funds were part of the proposal that led to the CEC 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 CEC 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 Contractor 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 CAM if during the course of the Agreement additional match funds are received.
- Notify the CAM 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.

Deliverables**:**

- 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 1.8 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 CEC budget for this task will be zero dollars, the Contractor may budget match funds for any expected expenditures associated with obtaining permits. Permits must be identified in writing and obtained before the Contractor can make any expenditure for which a permit is required.

The Contractor shall:

- Prepare a letter documenting the permits required to conduct this Agreement and submit it to the CAM 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 Contractor 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 CAM.
- As permits are obtained, send a copy of each approved permit to the CAM.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the CAM within 5 working days. Either of these events may trigger an additional CPR.

Deliverables**:**

- 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 1.9 Obtain and Execute Subawards

The goal of this task is to ensure quality deliverables and to procure subcontractors required to carry out the tasks under this Agreement consistent with the Agreement Terms and Conditions and the Contractor's own procurement policies and procedures.

The Contractor shall:

- Manage and coordinate subcontractor activities.
- Submit a *letter* to the CAM describing the subawards needed or stating that no subawards are required.
- If requested by the CAM, submit a *draft of each subaward* required to conduct the work under this Agreement to the CAM for review.
- If requested by the CAM, submit a *final copy of each executed subaward*.

- If Contractor intends to add new subcontractors or change subcontractors, then the Contractor shall notify the CAM.

Deliverables:

- Letter describing the subawards needed, or stating that no subawards are required
- Draft subaward (if requested)
- Final subaward (if requested)

TECHNICAL TASKS

TASK 2 PLAN CHARGER INSTALLATIONS

The goal of this task is to plan the charger installations, including number, power, and location of EV charging ports, at Exposition Park.

The Contractor shall:

- Develop and submit to the CAM a *Site Plan* for charger installations. The Site Plan shall include, but not be limited to:
  - The number, power, and location of light-duty charging ports
  - The number, power, and location of bus charging ports
  - The location and specifications of solar power and battery storage to be installed
  - A narrative description of how the charging installations will exceed the minimums required by law and regulation
  - A narrative description of the proposed operation and benefits of the solar power and battery storage installation
  - A statement from the relevant electric utility that it will provide adequate power to operate the charging ports as planned, along with other loads at the site

Deliverables:

- Site Plan

<A Critical Project Review will occur during this task.>

TASK 3 INSTALL LIGHT-DUTY ELECTRIC VEHICLE SUPPLY EQUIPMENT

The goal of this task is to install light-duty EVSE at Exposition Park.

The Contractor shall:

- Purchase and install EVSE providing approximately 310 Level 2 or DCFC electric vehicle charging ports at Exposition Park. Each charging port shall be in addition to charging ports that are required by law and regulation, including building codes and permit requirements.

- Submit an *AB 841 Certification* that certifies the project has complied with all AB 841 (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 Contractor's authorized representative.
- Submit *EVITP Certification Numbers* of each Electric Vehicle Infrastructure Training Program 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.

Deliverables:

- Written notification after the EVSE is installed
- AB 841 Certification signed by Contractor's authorized representative
- EVITP Certification Numbers of each Electric Vehicle Infrastructure Training Program certified electrician

TASK 4 INSTALL BUS CHARGERS

The goal of this task is to install EVSE for buses at Exposition Park.

The Contractor shall:

- Purchase and install EVSE providing approximately 19 L2 or DCFC bus charging ports at Exposition Park. Each charging port shall be in addition to that are required by law and regulation, including building codes and permit requirements.
- Provide written notification after the bus EVSE is installed.
- Submit an *AB 841 Certification* that certifies the project has complied with all AB 841 (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 Contractor's authorized representative.
- Submit *EVITP Certification Numbers* of each Electric Vehicle Infrastructure Training Program 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.

Deliverables:

- Written notification after the bus EVSE is installed
- AB 841 Certification signed by Contractor's authorized representative
- EVITP Certification Numbers of each Electric Vehicle Infrastructure Training Program certified electrician

TASK 5 INSTALL SOLAR AND BATTERY STORAGE

The goal of this task is to install solar power and battery storage to supply EVSE.

The Contractor shall:

- Purchase and install approximately 1 megawatt (MW) of solar panels to supply electricity to EVSE.
- Purchase and install approximately 6 megawatt hour (MWh) of battery storage that may be coupled with the solar to supply electricity to EVSE Equipment.
- Provide written notification after the solar and battery storage are installed to the CAM.

Deliverables:

- Written notification after the solar and battery storage are installed

TASK 6 OPERATIONS AND RELIABILITY

Contractors shall comply with the reliability performance standards, recordkeeping, reporting, and maintenance requirements (Requirements) for EV chargers installed as part of this Agreement. In the event the CEC adopts regulations that include Requirements, for example as required by AB 2061 (Ting, Chapter 345, Statutes of 2022) and/or AB 126 (Reyes, Chapter 319, Statutes of 2023), those Requirements shall supersede the Requirements contained in this Scope of Work for this Agreement wherever, as determined by the CAM, they conflict or are redundant.

Task 6.1 Operations

The Contractor Shall:

- Operate the installed charging ports during the term of this agreement.
- Ensure that the charging port uptime for each charging port installed in the project is at least 97 percent of each year for six years after the beginning of operation.

Without limitation to other rights and remedies which the CEC may have, including but not limited to survival provisions specified in the Terms and Conditions of this agreement, this requirement to ensure operationality for six years after the beginning of operation shall survive the completion or termination date of this agreement. In addition to other requirements in the Terms and Conditions of this agreement, all CEC-reimbursable expenditures must be incurred within the agreement term.

Task 6.2 Recordkeeping

The goal of this task is to collect, maintain, and transmit records of charging port operation and reliability to the CEC.

For networked chargers, the Contractor shall collect and retain the maintenance records specified in this section. The Contractor shall retain the services of a charging network provider that meets the criteria in 1. through 4. to record, retain, and transmit the remote monitoring data for networked chargers specified in this section.

1. The charging network provider must have an API of the CEC's choosing to permit the charging network provider to transfer the data required in this section directly to the CEC or the CEC's designee within 60 minutes of the record's generation.
2. The charging network provider must have Subset Certification of the Charging Station Management System in the Open Charge Alliance OCPP Certification Program for OCPP version 2.0.1, published May 24, 2023, or a subsequent version of OCPP for Core, Advanced Security, and ISO 15118 Support functionalities.
3. **For networked chargers**, the charging network provider's central system must have connection to the chargers using OCPP version 2.0.1 or a subsequent version of OCPP. This does not preclude the additional use of other communication protocols.
4. **For networked chargers,** the charging network provider and chargers must transmit the following protocol data units between the Central Management System and the charger(s) as specified in OCPP version 2.0.1 or a subsequent version of OCPP:
    a. Heartbeat Request shall be transmitted to the Central Management System by the charger on a set interval.
    b. Heartbeat Response shall be transmitted to the charger by the Central Management System in response to any received Heartbeat Response.
    c. Status Notification Request shall be transmitted by the charger to the Central Management System any time the charger or an associated charging port's operative status changes.
    d. Boot Notification Request shall be transmitted by the charger to the Central Management System any time the charger is powered on.
    e. Boot Notification Response shall be transmitted by the Central Management System to the charger in response to any received Boot Notification Request.

The Contractor Shall:

- **For networked chargers,** ensure the charging network provider collects and retains the Remote Monitoring data below from each charging port installed and operated as part of this Agreement.

- **For networked chargers,** ensure the charging network provider automatically transmits the Remote Monitoring data below to the CEC, via API, within 60 minutes of the Remote Monitoring data's generation.
- **For networked chargers,** ensure the charging network provider retains the Remote Monitoring data below for 2 years from the date of each record's generation. Provide *Remote Monitoring records* to the CEC within 10 business days of request.
    1. Provide digital records in a comma separated values file unless another file format is approved by the CEC for the request.
    2. Provide a clear and understandable *data dictionary* that describes each data element and any associated units with all digital records.
- **For all chargers,** collect and retain the maintenance records specified below for each charging port installed and operated as part of this agreement for 6 years from the date the charging port begins operation. Provide *maintenance records* to the CEC within 10 business days of request.

Remote Monitoring Data for Networked Chargers

1. All instances of the following Protocol Data Units, specified in OCPP 2.0.1, that are transmitted between the charger and the central system.
    a. Heartbeat Response
    b. Status Notification Request
    c. Boot Notification Request
2. The total number of charge attempts for the reporting period.
3. The total number of successful charging sessions for the reporting period.
4. The total number of failed charging sessions for the reporting period.
5. The percentage of successful charging sessions for the reporting period relative to the total number of charge attempts for the reporting period.

Maintenance Records

1. **For all chargers,** reports of inoperative charging ports or charging port failures resulting in inability to charge, such as a customer complaint, internal diagnostics, or inspection.
2. **For all chargers,** records of any maintenance conducted on charging ports installed and operated as part of the agreement. Records should specify the following:
    a. Date and time of the maintenance event
    b. Whether maintenance was corrective or preventive in nature
    c. Whether and for how long the charging port was in an inoperative state prior to maintenance.
    d. Whether the charging port was in an operative state following maintenance

Deliverables:

- Remote Monitoring Records
- Maintenance Records
- Data Dictionary

Task 6.3 Maintenance Requirements

The goal of this task is to increase reliability through timely and effective preventive and corrective maintenance. The Contractor shall conduct maintenance on each charger installed and operated as part of the Agreement as specified in this section.

The Contractor Shall:

- Conduct preventive maintenance, as specified by the charger manufacturer, on the charger hardware by a certified technician annually. The time interval between consecutive preventive maintenance visits to any charger shall be no more than 13 months.
- Complete corrective maintenance within 5 business days of the beginning of a time when the charger or charging port is inoperative or exhibiting failures that result in an inability to charge.
- *Report on preventive and corrective maintenance in each Quarterly Report on Charger and Charging Port Reliability and Maintenance* described in Task 6.

Deliverables:

- Maintenance section of Quarterly Report on Charger and Charging Port Reliability and Maintenance described in Task 6.4.

Task 6.4 Reporting

The goal of this task is to provide reports on charger reliability and maintenance.

The Contractor shall:

- Prepare and submit to the CEC *Quarterly Reports on Charger and Charging Port Reliability and Maintenance*. Each report shall include: A summary of charging port downtime, including total downtime and the number and frequency of downtime events, the minimum, median, mean, and maximum duration, and the causes of downtime events. Downtime shall be determined on a per charging port basis by summing the durations of all downtime events during the reporting period. The duration of a downtime event shall be the longest of the following periods:

    1. **For networked charging ports,** the time after the charger has transmitted a Status Notification Request indicating that the charging port associated with that charger is in a “faulted” or “unavailable” state until a subsequent Status Notification Request is transmitted by that charger indicating that the charging port has transitioned to an “available,” “occupied,” or “reserved” state. The timestamps in each Status Notification Request shall be used to quantify downtime.

2. **For networked chargers,** the time between a Boot Notification Response transmitted by the Central Management System and the last Heartbeat Response transmitted by the Central Management System prior to the Boot Notification Response. The timestamps in the relevant Boot Notification Response and Heartbeat Response shall be used to quantify downtime.
3. **For all charging ports,** the time between the earliest record that a charging port is not capable of successfully dispensing electricity or otherwise not functioning as designed and the time it is available to deliver a charge. First record that a charger is not capable of successfully dispensing electricity or otherwise not functioning as designed includes, but is not limited to, consumer notification, internal diagnostics, or inspection, whichever is earliest.

- Prepare a summary of Excluded Downtime, including total excluded downtime and the number and frequency of excluded downtime events, the minimum, median, mean, and maximum duration, and the causes of excluded downtime events and include in each Quarterly Report on Charger and Charging Port Reliability and Maintenance. 'Excluded Downtime' includes:

    1. **Before Initial Installation:** Downtime before the charging port was initially installed.
    2. **Grid Power Loss:** Downtime during which power supplied by a third-party provider is not supplied at levels required for minimum function of the charging port. This may include, but is not limited to, service outages due to utility equipment malfunction or public safety power shutoffs. This does not include power generation or storage equipment installed to serve the charger(s) exclusively. Documentation from power provider detailing outage is required to claim this as excluded downtime.
    3. **Vehicle Fault:** Any failure to charge or failure to meet the EV charging customer's expectation for power delivery due to the fault of the vehicle.
    4. **Outage for Preventative Maintenance or Upgrade:** Downtime caused by any preventative maintenance or upgrade work that takes the charging port offline. This must be scheduled at least two weeks in advance of the charger being placed in an inoperative state. The maximum downtime that can be excluded for preventative maintenance or upgrade work is 24 hours for any 12-month period.
    5. **Vandalism or Theft:** Downtime caused by any physical damage to the charger or station committed by a third party. This may include, but is not limited to, theft of charging cables, damage to connectors from mishandling, or damage to screens. A maximum of 5 days may be claimed as excluded downtime for each Vandalism or Theft event. A police report or similar third-party documentation is required to claim this as excluded time.
    6. **Natural Disasters:** Downtime caused by any disruption of the charging port due to a natural event such as a flood, earthquake, or wildfire that

causes great damage. Third party documentation such as news reporting must be provided along with a narrative of the direct impacts to the chargers(s) to claim this as excluded downtime.

7. **Communication Network Outages:** Downtime caused by loss of communication due to cellular or internet service provider system outages. A Communication Network Outage can be claimed as excluded downtime provided the chargers default to a free charge state during communication losses. A free charge state is when the charger is operational and dispenses energy free of charge to any consumer.
8. **Operating Hours:** Hours in which the charging port is in an operative state but that are outside of the identified hours of operation of the charging station.

- **For all charging ports,** prepare a summary and calculation of uptime and include in each Quarterly Report on Charger and Charging Port Reliability and Maintenance. Each report shall include the uptime percentage of each charging port (Uptime) installed and operated as part of this Agreement for the reporting period. Charging port uptime shall be calculated as:

$$\boldsymbol{U = \frac{T - D + E}{T} * 100\%}$$

U = Charging Port Uptime
T =

1. Q1 reporting period = 129,600 minutes, except for a leap year, which is 131,040 minutes.
2. Q2 reporting period = 131,040 minutes.
3. Q3 and Q4 reporting periods = 132,480 minutes.

D = Total charging port downtime for the reporting period, in minutes.
E = Total charging port excluded downtime in the reporting period, in minutes.

- **For networked charging ports**, prepare a summary of charge data and include in each Quarterly Report on Charger and Charging Port Reliability. The data will include:
    a. Total number of charge attempts in the reporting period
    b. Total number of successful charge attempts in the reporting period
    c. Total number of failed charges in the reporting period
    d. The percentage of successful charging sessions for the reporting period relative to the total number of charge attempts for the reporting period
    e. A description of steps taken to reduce the number of failed charge attempts, and the success rate of those steps
- **For all chargers,** prepare a summary of the total number of maintenance dispatch events that occurred since the last report, the number of days to complete each maintenance event reported, and a narrative description of significant maintenance issues. Include details of all excluded downtime and a

narrative description of events that caused the excluded downtime. Include the summary in each Quarterly Report on Charger and Charging Port Reliability.

Deliverables:

- Quarterly Report on Charger and Charging Port Reliability and Maintenance, submitted in a manner specified by the CEC

TASK 7 SEMI-ANNUAL ELECTRIC VEHICLE CHARGER INVENTORY REPORTS

The goal of this task is to provide information on the number of chargers in the Contractor's charging network in California, including both public and shared private, serving all vehicle sectors (light-, medium-, and heavy duty) excluding any charger used solely for private use at a single-family residence or a multifamily housing unit with four or fewer units.

The Contractor shall:

- Prepare an *Electric Vehicle Charger Inventory Report,* in a template provided by the CAM, that includes:
    - For chargers serving light-duty electric vehicles:
        - Number of public AC charging ports aggregated at the county level by charging network provider
        - Number of shared private AC charging ports aggregated at the county level by charging network provider
        - Number of public DC fast charging ports aggregated at the county level by charging network provider
        - Number of shared private DC fast charging ports aggregated at the county level by charging network provider
    - For chargers serving medium- and/or heavy-duty vehicles:
        - Number of public AC charging ports aggregated at the county level by charging network provider
        - Number of shared private AC charging ports aggregated at the county level by charging network provider
        - Number of public DC fast charging ports aggregated at the county level by charging network provider
        - Number of shared private DC fast charging ports aggregated at the county level by charging network provider
        - Number of other publicly available charging ports at the county level by charging network provider
        - Number of other depot charging ports by power output (less than 50 kilowatts (kW), between 50 – 150 kW, 150 kW – 350 kW, 350 kW and above) at the county level by charging network provider (if applicable)
- Submit the *Electric Vehicle Charger Inventory Report* to the CAM, no later than 30 calendar days after the Agreement is executed and then end of each calendar half-year thereafter. Reports are due at the end of July and end of January.

Contractor Deliverable:

- Electric Vehicle Charger Inventory Report

TASK 8 DATA COLLECTION AND ANALYSIS

The goal of this task is to collect operational data from the project and to analyze that data for economic and environmental impacts.

The Contractor shall:

- For all electric vehicle chargers and charging stations installed on or after January 1, 2024:
  - Comply with recordkeeping and reporting standards as described in CEC's regulations. These requirements are not applicable to those electric vehicle chargers and charging stations installed at residential real property containing four or fewer dwelling units.
  - Comply with all industry best practices and charger technology capabilities that are demonstrated to increase reliability, as described in CEC's regulations.
  - Without limitation to other requirements in this Agreement, Contractor shall comply with any other regulatory requirements, including but not limited to uptime requirements and operation and maintenance requirements. Such regulatory requirements may, but will not necessarily, be enacted after execution of this Agreement. Once regulations are final, they will apply to work under this Agreement irrespective of when finalized. Any updates to regulations may also be applicable to work under this Agreement.
  - If the Contractor is an electric vehicle service provider or other third-party entity that is not the site host, the electric vehicle service provider or third-party entity shall provide a disclosure to the site host about the site host's right to designate the service provider or third-party as the entity to report the data on behalf of the site host. The Contractor shall verify receipt by signing the disclosure.
- Collect and report to the CEC:
  - For an electric vehicle charging station, the availability of operational charging plugs, whether the station was energized, the volume of electricity in kilowatt-hours used to charge by vehicles, the number of vehicles charged by a station, and any other data deemed necessary by the CEC to monitor reliability and accessibility of the charging infrastructure. This data shall be measured no less frequently than on a daily basis and reported electronically to the CEC no less frequently than quarterly in *AB 126 Data Reports* submitted with the quarterly reports described in Task 1.5.

- For an electric vehicle charging station, the source and greenhouse gas emissions intensity, on an annual basis, of the electricity used and dispensed by the EV charging station(s) at the meter, consistent with the disclosure methodology set forth in Article 14 (commencing with Section 398.1) of Chapter 2.3 of Part 1 of Division 1 of the Public Utilities Code. Data must be reported to the CEC annually in a *AB 126 Data Report* specified by the CAM.

- 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 and provide 12 months of throughput, usage, and operations data from the project including, but not limited to:
  - Number of charging or refueling sessions
  - Average charger or refueling station downtime
  - Peak power delivered (kW)
  - Duration of active charging, hourly
  - Duration of charging session, hourly (e.g., vehicle parked but not actively charging)
  - Average session duration
  - Energy delivered (kWh)
  - Average kWh or kg dispensed
  - Types of vehicles using the charging equipment
  - Applicable price for charging, including but not limited to: electric utility tariff, EVSP service contract, or public charger price.
  - Payment method for public charging
  - Energy delivered back to grid or facility if a bidirectional charging use case (kWh)

- Maximum capacity of the new fueling system
- Normal operating hours, up time, downtime, and explanations of variations
- Gallons of gasoline and/or diesel fuel displaced (with associated mileage information)
- Expected air emissions reduction, for example:
  - Non-methane hydrocarbons
  - Oxides of nitrogen
  - Particulate Matter
  - Formaldehyde
- Duty cycle of the current fleet and the expected duty cycle of future vehicle acquisitions

- Identify any current and planned use of renewable energy at the facility.
- Identify the source of the alternative fuel.
- Describe any energy efficiency measures used in the facility that may exceed Title 24 standards in Part 6 of the California Code Regulations.
- Provide data on potential job creation, economic development, and increased state revenue as a result of expected future expansion.
- Provide a quantified estimate of the project's carbon intensity values for life-cycle greenhouse gas emissions.
- Compare any project performance and expectations provided in the proposal to CEC with actual project performance and accomplishments.
- For networked chargers only, collect and provide 12 months of throughput, usage, and operations data from the project including, but not limited to:

Category	Field	Desired Data Type
Sites	Site ID	Hash key
Sites	Site Name	Varchar
Sites	Site Type	Varchar
Sites	EVSP	Varchar
Sites	Street Address	Varchar
Sites	City	Varchar
Sites	State	Varchar
Sites	Zip	Varchar
Sites	Latitude	Decimal
Sites	Longitude	Decimal

Sites	Number of EVSEs	Varchar
Sites	Number of Ports	Varchar
EVSE	EVSE ID	Hash key
EVSE	EVSE Manufacturer	Varchar
EVSE	EVSE Model Number	Varchar
EVSE	EVSE Maximum kW	Integer
EVSE	EVSE Number of Ports	Integer
EVSE	EVSE Power Level	Varchar
Ports	Port ID	Hash key
Ports	Port Maximum kW	Integer
Ports	Connector Type	Varchar
Sessions	Session ID	Hash key
Sessions	Charge Duration	Varchar (HH:MM:SS)
Sessions	Charge Session Start Date	Date
Sessions	Charge Session Start Time	Time
Sessions	Charge Session End Date	Date
Sessions	Charge Session End Time	Time
Sessions	Disconnect Reason	String
Sessions	Connection Duration	Varchar (HH:MM:SS)
Sessions	Idle Duration	Varchar (HH:MM:SS)
Sessions	Energy Consumed	Decimal
Sessions	Charge Peak Demand	Decimal
Sessions	Charge Average Demand	Decimal
Sessions	Total Transacted Amount (Driver)	Currency
Sessions	Payment method	Character
Sessions	Driver ID	Hash key
Sessions	Vehicle Make, if known	Varchar
Sessions	Vehicle Model, if known	Varchar
Sessions	Vehicle Year, if known	Integer
Sessions	Vehicle Type, if known	Character

- Submit the data described above electronically in a quarterly progress report throughout the duration of the agreement.

- Provide a *Data Collection and Information Analysis Report* that lists and analyzes all the data and information described above.

Deliverables:

- AB 126 Data Reports
- Data submitted with quarterly reports (Task 1.5)
- Data Collection and Information Analysis Report

TASK 9 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 Contractor shall:

- Prepare an *Initial Project Fact Sheet* at start of the project that describes the project and the expected benefits. Use the format provided by the CAM.
- Prepare a *Final Project Fact Sheet* at the project's conclusion that describes the project, the actual benefits resulting 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) of pre and post technology installation at the project sites or related project photographs.

Deliverables:

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

SCHEDULE OF DELIVERABLES AND DUE DATES

Task Number	Deliverables	Due Date
1		
	Contractor Deliverables	

1.1	• Updated Schedule of Deliverables • Updated List of Match Funds • Updated List of Permits • Written Statement of Match Share Activities	If applicable If applicable If applicable If applicable
	CAM Deliverable	
	• Kick-Off Meeting Agenda	Sept 9, 2024
1.2	CAM Deliverables • Agenda and a list of expected participants • Schedule for written determination • Written determination (CEC) Contractor Deliverable • CPR Report(s)	TBD TBD TBD TBD TBD
1.3	• Written documentation of meeting agreements • Schedule for completing closeout activities	March 31, 2028 March 31, 2028
1.4	• Email to CAM concurring with call summary notes.	10 days after each Monthly Call
1.5	• Quarterly Progress Reports	Quarterly
1.6	• Outline of the Final Report, if requested • Draft Final Report • Final Report	February 15, 2029 March 1, 2029 March 15, 2029
1.7	• 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)	October 3, 2024 If applicable If applicable If applicable

1.8	• 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)	January 30, 2026 As needed As needed As needed As needed
1.9	• Letter describing the subawards needed, or stating that no subawards are required • Draft subaward (if requested) • Final subaward (if requested)	Nov 4, 2024 Dec 4, 2024 Jan 6, 2025
2	• Site Plan	April 30, 2026
3	• Written notification after the EVSE is installed • AB 841 Certification signed by Contractor's authorized representative • EVITP Certification Numbers of each Electric Vehicle Infrastructure Training Program certified electrician	January 31, 2028 April 30, 2028 April 30, 2028
4	• Written notification after the bus EVSE is installed • AB 841 Certification signed by Contractor's authorized representative • EVITP Certification Numbers of each Electric Vehicle Infrastructure Training Program certified electrician	January 31, 2028 April 30, 2028 April 30, 2028
5	• Written notification after the solar and battery storage are installed	January 31, 2028

6	• Remote Monitoring Records • Maintenance Records • Data Dictionary • Maintenance section of Quarterly Report on Charger and Charging Port Reliability and Maintenance described in Task 6.4	Within 10 business days of request from CEC Within 10 business days of request from CEC Within 10 business days of request from CEC Quarterly after installation
7	• Electric Vehicle Charger Inventory Report	30 days after Agreement execution; end of each calendar half-year thereafter
8	• AB 126 Data Reports • Data submitted with quarterly reports (Task 1.5) • Data Collection and Information Analysis Report	Quarterly December 31, 2028
9	• Initial Project Fact Sheet • Final Project Fact Sheet • High Quality Digital Photographs	Oct 31, 2024 December 11, 2028 March 12, 2028