



STATE OF CALIFORNIA

GRANT REQUEST FORM (GRF)

CEC-270 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) New Agreement # ZVI-21-005 (to be completed by CGL office)

B) Division	Agreement Manager:	MS-	Phone
Fuels and Transportation Division	Shaun Ransom	6	916-891-9144

C) Recipient's Legal Name	Federal ID #
ChargePoint, Inc.	26-1070576

D) Title of Project
Light-Duty Electric Vehicle Fleet Charging Project

E) Term and Amount

Start Date	End Date	Amount
11/10/2021	06/28/2024	\$996,060

F) Business Meeting Information

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

Proposed Business Meeting Date: 01/26/2022 Consent ☐ Discussion ☒

Business Meeting Presenter: Matthew Kozuch Time Needed: 5 minutes

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

Agenda Item Subject and Description:

Proposed resolution approving Agreement ZVI-21-005 with ChargePoint, Inc. for a \$996,060 grant to design and manufacture an overhead cable system for fleet charging and adopting staff's determination that this project is exempt from CEQA. The cable system will provide convenience for fixed charger locations that serve multiple vehicles. (General Funds)

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)):

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 no actual construction, equipment, or infrastructure is a direct deliverable for this project; no local air pollution/emissions changes can be assessed nor require review.

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: 15301 "Existing Facilities", 15303 "New Construction or Conversion of Small Structures", 15304 "Minor Alterations to Land"

☐ 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)



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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
TBD	\$80,000
	\$ 0.00
	\$ 0.00

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
General Funds	FY 21/22	601.129ZEV	\$996,060
Funding Source			\$
Funding Source			\$
Funding Source			\$
Funding Source			\$

R&D Program Area: Select Program Area TOTAL: \$996,060.00

Explanation for "Other" selection

Reimbursement Contract #:

Federal Agreement #:

K) Recipient's Contact Information**1. Recipient's Administrator/Officer**

Name: Laura Parsons



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Address: 254 E. Hacienda Ave.

City, State, Zip: Campbell, CA
95008

Phone: 619-787-6455

E-Mail:

laura.parsons@chargepoint.com

2. Recipient's Project Manager

CALIFORNIA ENERGY COMMISSION

Name: Laura Parsons

Address: 254 E. Hacienda Ave.

City, State, Zip: Campbell, CA
95008

Phone: 619-787-6455

E-Mail:

laura.parsons@chargepoint.com

L) Selection Process Used

☒ Competitive Solicitation Solicitation #: GFO-20-605

☐ First Come First Served Solicitation Solicitation #: N/A

M) The following items should be attached to this GRF

- | | | |
|---|---|--|
| 1. Exhibit A, Scope of Work | <input checked="" type="checkbox"/> | Attached |
| 2. Exhibit B, Budget Detail | <input checked="" type="checkbox"/> | Attached |
| 3. CEC 105, Questionnaire for Identifying Conflicts | <input checked="" type="checkbox"/> | Attached |
| 4. Recipient Resolution | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |
| 5. CEQA Documentation | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> 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	X	Requirements and Design
3	X	Building and Testing Prototype
4		Engineering Validation
5		Vehicle Interoperability Test
6		Project Fact Sheet
7		Data Collection & Analysis

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	Rex Jackson	N/A	N/A
1	Michael Hughes	N/A	N/A
2-7	Damian Matthews	N/A	N/A
2-7	Lawrence Lee	N/A	N/A
2-7	Eric Sidle	N/A	N/A
2-7	Brian Scott Hendrickson	N/A	N/A
2-7	Steven Farrell	N/A	N/A
1-7	Laura Parsons	N/A	N/A

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
FCC	Federal Communications Commission
FTD	Fuels and Transportation Division
Recipient	ChargePoint, Inc.

Term/ Acronym	Definition
MD/HD	Medium and Heavy-duty
EV	Electric Vehicles
ZEV	Zero Emission Vehicles
EVSE	Electric Vehicle Supply Equipment
PRD	Product Requirements Document
ERD	Engineering Requirements Document
UL	Underwriter Laboratories

Background

Assembly Bill (AB) 118 (Núñez, Chapter 750, Statutes of 2007), created the Clean Transportation Program, formerly known as the Alternative and Renewable Fuel and Vehicle Technology Program. The statute authorizes the California Energy Commission (CEC) to develop and deploy alternative and renewable fuels and advanced transportation technologies to help attain the state's climate change, clean air, and alternative energy policies. AB 8 (Perea, Chapter 401, Statutes of 2013) re-authorizes the Clean Transportation Program through January 1, 2024. The Clean Transportation Program has an annual budget of approximately \$100 million and provides financial support for projects that:

- Reduce California's use and dependence on petroleum transportation fuels and increase the use of alternative and renewable fuels and advanced vehicle technologies.
- Produce sustainable alternative and renewable low-carbon fuels in California.
- Expand alternative fueling infrastructure and fueling stations.
- Improve the efficiency, performance and market viability of alternative light-, medium-, and heavy-duty vehicle technologies.
- Retrofit medium- and heavy-duty on-road and non-road vehicle fleets to alternative technologies or fuel use.
- Expand the alternative fueling infrastructure available to existing fleets, public transit, and transportation corridors.
- Establish workforce training programs and conduct public outreach on the benefits of alternative transportation fuels and vehicle technologies.

On August 7, 2020, the CEC released a Grant Solicitation and Application Package entitled "BESTFIT Innovative Charging Solutions" under the Clean Transportation Program. This competitive grant solicitation was an offer to fund projects that demonstrate transformative technology solutions and 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 #5 which was proposed for funding in the CEC's Notice of Proposed Awards on September 8, 2021. GFO-20-605 and the 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:

One challenge that can constrain Electric Vehicle (EV) adoption is being able to install and accommodate EV charging in existing facilities, which often have significant space constraints that could require costly retrofits. ChargePoint will demonstrate an innovation designed to allow depot-based electric fleets to be able to charge safely, conveniently, and reliably within existing facilities. This project will allow ChargePoint to deploy the Overhead Cable Management System into the market and to customers' facilities

Goals of the Agreement:

The goals of this Agreement are to:

- Increase the utilization of EVs in fleets.
- Reduce greenhouse gas emissions and other air pollutants resulting from vehicle travel.

Objectives of the Agreement:

The objective of this Agreement is to design, develop, and construct a state-of-the-art Overhead Cable Management System. This project will solve a key issue of space constraint by providing a charging solution for fleet operators that is flexible and can be installed into a variety of parking configurations and depot spaces. This flexibility allows a variety of charging models, easily accommodates different vehicle types (with the vehicle charging ports in different locations depending on model), and many different parking or queuing configurations.

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)

ChargePoint, Inc.

- The CAM's expectations for accomplishing tasks described in the Scope of Work
- An updated Schedule of Products and Due Dates
- Quarterly 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 REQUIREMENTS AND DESIGN

The goal of this task is to finalize the requirements and design of the Overhead Cable Management System, including the overhead reel and actuation mechanisms.

The Recipient shall:

- Define requirements for Overhead Cable Management System, including overhead reel and required mechanisms.
- Develop mechanical and electrical architecture and design.
- Identify and develop list of materials required to build units.
- Conduct a technical review of the design against relevant safety, emissions and other regulatory requirements.
- Prepare and submit Summary of Product Requirements and Use Cases to CAM.
- Prepare and submit Summary of Regulatory Review Findings to CAM.

Products:

- Summary of Product Requirements and Use Cases
- Summary of Regulatory Review Findings

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

TASK 3 BUILDING AND TESTING PROTOTYPE

The goals of this task are to build and test prototypes of the Overhead Cable Management System and to conduct testing to identify any missed requirement or design issues and the performance in actual use. The prototype design will be reviewed for regulatory compliance.

The Recipient shall:

ChargePoint, Inc.

- Develop sequential tasks required to build and conduct prototype testing for the Overhead Cable Management System. Tasks include:
 - Determine number of prototypes (one or two) to test
 - Determine ChargePoint, Inc. facility(ies) for initial prototype build and testing
 - Based on product design, produce list of required materials and supplies and identify appropriate suppliers
 - Purchase materials and assemble prototype(s) on location(s)
 - Determine parameters for vehicle interoperability testing
 - Develop list of expected performance requirements and pass/fail tests for prototype unit(s)
- Conduct requirement and use case testing to identify any requirements or issues in the initial design, construction, and installation of prototype(s).
- Conduct a technical review of prototype against relevant safety, emissions, and other regulatory requirements.
- Evaluate performance of prototype unit(s).
- Take photos of prototype unit(s) in use and submit to CAM.
- Prepare List of Requirements Pass/Fail Test Results and submit to CAM.
- Prepare Summary of Regulatory Review Findings and submit to CAM.

Products:

- Photos of Prototype Units
- List of Requirements Pass/Fail Test Results
- Summary of Regulatory Review Findings

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

TASK 4 ENGINEERING VALIDATION

The goals of this task are to update the Overhead Cable Management System design based on the performance and findings of the prototype stage and build engineering validation units. These units will undergo requirements and use case testing, reliability testing (e.g., performance under various conditions of temperature, humidity, vibration, shock, impact, etc.) and regulatory testing.

The Recipient shall:

- Identify each open issue and address with a design update and/or requirement update, as appropriate, based on outcome of prototype(s) testing.
- Update suppliers and purchase parts for engineering validation units.
- Develop software for requirements and use case testing.

ChargePoint, Inc.

- Determine appropriate site(s) (i.e., will validation be moved from prototype test site(s) to Advanced Test Facility).
- Build engineering validation units of Overhead Cable Management System.
- Conduct requirements pass/fail tests and use case testing.
- Conduct reliability pass/fail testing.
- Submit data for regulatory testing and Underwriter Laboratories (UL) and Federal Communications Commission (FCC) certification.
- Prepare the following reports and submittals and submit to the CAM.
 - Design Change Summary
 - Requirement Update Summary
 - Photos of Engineering Validation Units
 - List of Requirement Pass/Fail Test Results
 - Proof of UL Certification
 - Proof of FCC Certification

Products:

- Design Change Summary
- Requirement Update Summary
- Photos of Engineering Validation Units
- List of Requirement Pass/Fail Test Results
- List of Reliability Pass/Fail Test Results
- Proof of UL Certification
- Proof of FCC Certification

TASK 5 VEHICLE INTEROPERABILITY TEST

The goal of this task is to update the Overhead Cable Management System design based on the findings of the engineering validation phase, then build and deploy an Overhead Cable Management System (including the modular Express Plus charging platform which provides specific charging equipment solutions for infrastructure) at ChargePoint's vehicle lab test and integration facility. The system will be tested for interoperability with a few strategically selected partner vehicles as a prelude to early customer deployment.

The Recipient shall:

- Address each open issue identified by the ChargePoint engineering team with a design update and/or requirement update (if requirement is deemed invalid).
- Update suppliers and purchase parts for vehicle interoperability test units.
- Update software for vehicle interoperability testing as needed.
- Build vehicle interoperability test units.

ChargePoint, Inc.

- Identify engineering plans for equipment installation at the site.
- Install vehicle interoperability test units at specified ChargePoint, Inc. facility.
- Identify partner(s) representing at least 2-3 vehicle models to participate in vehicle interoperability testing.
- Conduct vehicle interoperability pass/fail testing.
- Prepare the following reports and submittals and submit to the CAM.
 - Design Change Summary
 - Requirement Update Summary
 - Photos of Vehicle Interoperability Test Units
 - Engineering Plans for Installation
 - Summary of Vehicle Interoperability Pass/Fail Test Results
- 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. Although AB 841 becomes effective January 1, 2022, as a policy matter the CEC is applying the EVITP certification requirements to project work funded under this Agreement, regardless of whether it might be performed prior to January 1, 2022, unless an exception applies. Electric Vehicle Infrastructure Training Program (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.
- 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:

- Design Change Summary
- Requirement Update Summary
- Photos of Vehicle Interoperability Test Units
- Engineering Plans for Installation
- Photos of Completed Installation
- Summary of Vehicle Interoperability Pass/Fail Test Results
- AB 841 Certification signed by Recipient's authorized representative
- EVITP Certification Numbers of each EVITP certified electrician

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 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) 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 data on charging events for the deployed infrastructure including, but not limited to:
 - Charge and session duration
 - Energy delivered (kWh)
 - Peak power delivered (kW)
 - 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 quarterly 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:

ChargePoint, Inc.

- 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 quarterly 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: CHARGEPOINT, 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-21-005 with ChargePoint, Inc. for a \$996,060 grant to design and manufacture an overhead cable system for fleet charging; 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