



STATE OF CALIFORNIA

GRANT REQUEST FORM (GRF)

CEC-270 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) New Agreement # ARV-21-041 (to be completed by CGL office)

B) Division	Agreement Manager:	MS-	Phone
600 Fuels and Transportation Division	Kate Reid	27	916-237-2536

C) Recipient's Legal Name	Federal ID #
City of Los Angeles Department of Transportation	95-6000735

D) Title of Project
Washington Yard Microgrid Project

E) Term and Amount

Start Date	End Date	Amount
10 / 13 / 2021	03 / 31 / 2026	\$ 6,000,000

F) Business Meeting Information

- ARFVTP agreements \$75K and under delegated to Executive Director
- Proposed Business Meeting Date 10 / 13 / 2021 Consent Discussion
- Business Meeting Presenter Esther Odufuwa Time Needed: 5 minutes
- Please select one list serve. Altfuels (AB118- ARFVTP)

Agenda Item Subject and Description:

City of Los Angeles Department of Transportation. Proposed resolution approving Agreement ARV-21-041 with City of Los Angeles, Department of Transportation for a \$6,000,000 grant to install a solar and storage microgrid and four 1.5 MW chargers, 104 charger dispensers, overhead transit bus charging and solar canopies, and battery energy storage and adopting staff's determination that this action is exempt from CEQA. (Clean Transportation Program Funding) Contact: Esther Odufuwa (Staff Presentation: 5 minutes)

G) California Environmental Quality Act (CEQA) Compliance

1. Is Agreement considered a "Project" under CEQA?
 - Yes (skip to question 2) No (complete the following (PRC 21065 and 14 CCR 15378)):
2. If Agreement is considered a "Project" under CEQA:
 - a) Agreement **IS** exempt.
 - Statutory Exemption. List PRC and/or CCR section number: Pub. Resources Code § 21080.25 (b)(6)
 - Categorical Exemption. List CCR section number: Cal. Code Regs., tit. 14, §§ 15301, 15303
 - Common Sense Exemption. 14 CCR 15061 (b) (3) Explain reason why Agreement is exempt under the above section: This project involves the installation of electric charging infrastructure including four 1.5 MW chargers, 104 charger dispensers, overhead transit bus charging and solar canopies, and battery energy storage at an existing bus facility in Los Angeles to power zero emission buses. The bus facility is located in an urbanized area where land use designation is heavy industrial. Neighboring parcels of land consist of one to two story industrial buildings used for warehouses, distribution, manufacturing and transportation facilities and there are no conflicts with the applicable zoning and



other regulations governing scenic quality. The project will not affect any visual resources, such as protected trees or historic resources. Installation of the fast charging system includes installation of conduit, wiring, electrical connections and mounting equipment. Minor trenching of approximately 1,600 linear feet is required to bring power to the charging system. The project will not impact adjacent residential homes, traffic or right of way, or noise because the project is upgrading an existing transportation maintenance facility that is located in an industrial area zoned for industrial uses. The reconstruction and conversion of any small structures for this project will not impact any scenic resources.

This project is therefore categorically exempt from the provisions of CEQA under section 15301 of the CEQA Guidelines as a project that consists of the minor alteration of existing public or private structures, facilities, mechanical equipment or topographical features and which involve negligible or no expansion of existing or former use at the sites. The project is also exempt under and 15303 of the CEQA Guidelines as a project that consists of construction and location of limited numbers of new, small facilities or structures or the installation of small new equipment and facilities in small structures.

The project does not involve any unusual circumstances, will not result in damage to any scenic resources within a highway officially designated as a state scenic highway, none of the sites are 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. The project, when considered as a whole, will not result in a cumulative impact that is significant on the environment. Therefore, none of the exceptions to exemptions listed in CEQA Guidelines section 15300.2 apply to this project and this project will not have a significant effect on the environment.

The project is also exempt by statute pursuant to the California Public Resources Code Section 21080.25 (b)(6). Section (b)(6) provides exemption for projects that construct or maintain infrastructure to charge or refuel zero-emission transit buses, provided the project is carried out by a public transit agency, the Los Angeles Department of Transportation (LADOT), who is subject to, and in compliance with, the State Air Resources Board's Innovative Clean Transit regulations. Pursuant to Article 4.3 (commencing with Section 2023) of Chapter 1 of Division 3 of Title 13 of the California Code of Regulations the project is located on property owned by the transit agency and the transit agency owns, operates, and contracts with another entity to operate buses in California. In addition, under the provisions of California Public Resources Code Section 21080.25 (c) (1-5) the project is exempt from this division and meets all five criteria:

- The City of Los Angeles, is the lead public agency, carrying out the project.
- The project is located in an urbanized area.
- The project meets the requirement specific to maintaining infrastructure to charge or refuel zero-emission transit buses since it is located on property owned by the transit agency (the City). Section 21080.25 (b)(6) of the Public Resource Code.



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- The project will not add physical infrastructure that increases new automobile capacity on existing rights-of-way. The project will encourage more sustainable transportation options, which will reduce congestion and improve air quality.
- The project will not require the demolition of affordable housing units.

In compliance with subdivision (d)(2)(A), LADOT, as the lead agency, shall certify that the project will be completed by a skilled and trained workforce. LADOT shall enter into a contract to use a skilled and trained workforce. In accordance with Chapter 2.9 (commencing with Section 2600) of Part 1 of Division 2 of the Public Contract Code, the City of Los Angeles shall include in all bid documents and construction contracts a notice that the project is subject to the skilled and trained workforce requirement. Furthermore, a commitment that a skilled and trained workforce will be used to complete the project shall be made in an enforceable agreement between the City and contractors and contractors will submit a report demonstrating compliance on a monthly basis while the project or contract is being performed.

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

Check all that apply

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

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

Legal Company Name:	Budget
Proterra Operating Company, Inc.	\$ 2,170,246.00
City of Los Angeles General Services Department	\$ 185,406.00
CALSTART, Inc.	\$ 270,374.00
Los Angeles Neighborhood Initiative (CBO)	\$ 67,000.00
City of Los Angeles Planning Permit and Processing (match share)	\$ 4,530.00
City of Los Angeles Bureau of Engineering (match share)	\$ 268,000.00
Apparent, LLC (match share)	\$ 13,404,269.00
Proterra Operating Company, Inc. (match share)	\$ 1,093,488.00

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

Legal Company Name:



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J) Budget Information

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
ARFVTP	FY 18/19	601.118L	\$6,000,000
Funding Source			\$

R&D Program Area: Select Program Area TOTAL: \$6,000,000

Explanation for "Other" selection

Reimbursement Contract #: Federal Agreement #:

K) Recipient's Contact Information

1. Recipient's Administrator/Officer

Name: Brian K. Lee
 Address: 100 S. Main St., 10th Floor
 City, State, Zip: Los Angeles, CA 90012
 Phone: (213) 928-9745
 E-Mail: brian.k.lee@lacity.org

2. Recipient's Project Manager

Name: Salvador Gutierrez
 Address: 100 S. Main St., 10th Floor
 City, State, Zip: Los Angeles, CA 90012
 Phone: (213) 972-5064
 E-Mail: salvador.gutierrez@lacity.org

L) Selection Process Used

- Competitive Solicitation Solicitation #: GFO-20-602
- First Come First Served Solicitation Solicitation #: - -

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 type="checkbox"/> N/A | <input checked="" 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		Design & Engineering
3	X	Procurement
4	X	Construction
5		Training and Documentation
6		Best Practices Documentation and Outreach
7		Data Collection and Analysis
8		Project Fact Sheet

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1 - 8	Brian K. Lee, Acting Chief of Transit Programs		
1 - 8	Brian K. Lee, Head of Grants and Procurement		
1 - 8	Kari Derderian, Head of Transit Development		
1 - 8	Salvador Gutierrez, Transportation-Planning Associate		
1	Alan Westenskow	Proterra	
2, 4	Andre Lalljie, Vice President of Energy (Proterra)	Proterra	
2, 4	Pat Pennel, Manager Energy Programs	Proterra	
2	Tony Deluca, Senior Manager Electrical Engineering Infrastructure	Proterra	
4	David Nguyen, Senior Project Manager Infrastructure	Proterra	
2	Corrine Beck, Senior Project Engineer	Proterra	

2	Hsin-Yi Chen, Optimization Engineer	Proterra	
4	Jacqueline DeSouza	Apparent, Inc.	
1,6,7,8	Fred Silver (CALSTART)	CALSTART, Inc.	
1,6,7,8	Kristian Jokinen (CALSTART)	CALSTART, Inc.	
1,6,7,8	Bryan Lee (CALSTART)	CALSTART, Inc.	
1,6,7,8	Katrina Sutton (CALSTART)	CALSTART, Inc.	

GLOSSARY

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

Term/ Acronym	Definition
BESS	Battery Energy Storage System
CAM	Commission Agreement Manager
CAO	Commission Agreement Officer
CEC	California Energy Commission
Clean Transportation Program	Formerly known as Alternative and Renewable Fuel and Vehicle Technology Program
CPR	Critical Project Review
DASH	Downtown Area Short Hop
EV	Electric Vehicle
EVIPT	Electric Vehicle Infrastructure Training Program
FTD	Fuels and Transportation Division
LADOT	Los Angeles Department of Transportation
Recipient	City of Los Angeles Department of Transportation
ZEB	Zero-Emission Bus

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 policies. AB 8 (Perea, Chapter 401, Statutes of 2013) re-authorizes the Program through January 1, 2024, and specifies that the CEC allocate up to

\$20 million per year (or up to 20 percent of each fiscal year's funds) in funding for hydrogen station development until at least 100 stations are operational. The 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.

The CEC issued GFO-20-602 entitled "Zero-Emission Transit Fleet Infrastructure Deployment" under the Clean Transportation Program on July 22, 2020. This competitive grant solicitation was an offer to fund projects that will support the large-scale conversion of transit bus fleets to zero-emission vehicles at multiple transit agencies serving diverse geographic regions and populations. To be eligible for funding under GFO-20-602, the projects must also be consistent with the CEC's current Clean Transportation Program Investment Plan. In response to GFO-20-602, the Recipient (City of Los Angeles Department of Transportation) submitted application number five (#5), which was proposed for funding in the CEC's Notice of Proposed Awards on February 22, 2021. GFO-20-602 and the Recipient's aforementioned proposal are hereby incorporated by reference into this Agreement in its 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 Energy Commission's Award, the Energy Commission'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:

The Innovative Clean Transit Regulation issued by the California Air Resources Board mandates that all transit agencies in California transition to zero emission buses. Fleets must be 100 percent zero emission by 2040 and the regulation provides a timeline for phasing in zero emission bus procurements. In addition, Los Angeles Mayor Eric Garcetti released a Green New Deal plan. This plan commits the City of Los Angeles to completely electrifying their fleet by 2028. The Recipient has previous experience with electric buses, having previously partnered with CALSTART to successfully pilot and demonstrate four electric buses in 2017. The Recipient now aims to roll out a 100 percent electrified fleet. Beginning January 1, 2023, 25 percent of

new bus purchases must be zero emission each calendar year. This requirement increases to 50 percent on January 1, 2026. Beginning January 1, 2029, 100 percent of all new bus purchases must be zero emission. The proposed funding request will enable the Recipient to meet its goal of 100 percent electrification.

Goals of the Agreement:

The goal of this Agreement is to bring zero-emission bus (ZEB) utilization to 100 percent while minimizing electric grid impact, flattening peak electrical demands, allowing bus recharging to be optimized to achieve 100 percent operational availability at the lowest total energy cost while providing resiliency.

Objectives of the Agreement:

The objective of this Agreement is to purchase and install the electric charging infrastructure including electric vehicle supply equipment, energy storage equipment and photovoltaic solar panels at two bus yards to power 104 ZEBs.

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

- Final Report (Task 1.5)

Recipient Products:

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

Commission Agreement Manager Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

CPRs provide the opportunity for frank discussions between the CEC 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 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 Recipient. These meetings generally take place at the CEC, but they may take place at another location or remotely.
- 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 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 Recipient, the Commission Grants Office Officer, 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 and the Grants Officer 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 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 Monthly 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 Monthly 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 CAM 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 Monthly 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:

- Monthly 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 CEC 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.
- 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
- 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 CEC 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 CEC 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 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 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 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.

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 CEC 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 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 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 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.

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 CEC 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 CAM 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 subcontractors needed, or stating that no subcontracts are required
- Draft subcontracts
- Final subcontracts

TECHNICAL TASKS

TASK 2 DESIGN AND ENGINEERING

The goal of this task is to create and have approved design and engineering stamped approved drawings and related items for the electric vehicle (EV) infrastructure construction project. This task will include route and service modeling to optimize charging patterns and maximize utility and developing general requirement specifications.

The Recipient shall:

- Conduct modeling of route and service utilization under different use case scenarios to optimize charging patterns and schedules for the fleet and maximize the utilization of charging infrastructure and the microgrid infrastructure to minimize all operating costs.
- Develop a written general specifications document to be used as part of a Request for Proposal (RFP) package that will go out to prospective bidders for implementation contracting.
- Create design engineering drawings, incorporating the foundation, electrical charging equipment, controller and grid interconnection.
- Obtain approval and engineering stamp of engineered drawings.
- Provide a copy of stamped and approved engineering drawings and related information, including certificates with a narrative summary to the CAM.

Products:

- Stamped and Approved Engineering Drawings

TASK 3 PROCUREMENT

The goal of this task is to procure all required subcontractors, vendors and equipment necessary to complete the implementation of the project. This will be accomplished through the design, issuance of one or more Requests for Proposal (RFP) and evaluation of the responses thereto to determine the vendor(s) to be used.

The Recipient shall:

- Identify specific tasks and coordinate with responsible entities to design and develop RFP(s).

- Evaluate submissions using a set of criteria and select subcontractors.
- Adhere to all state and local laws and standards applicable to RFPs.
- Provide a copy of the RFP(s) and the list of respondents to the RFP to the CAM.
- Develop an equipment list and provide a copy to the CAM.

Products:

- Request for Proposal(s)
- List of Respondents to RFP
- Equipment List

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

TASK 4 CONSTRUCTION

The goal of this task is to construct the microgrid including solar and battery systems, install vehicle charging equipment, complete any required grid upgrades and interconnections and obtain fire marshal approval.

The Recipient shall:

- Provide a letter of Construction Commencement to the CAM when construction begins.
- Design, prepare and pour foundations. This will include:
 - Designs to validate the materials
 - Ordering materials
 - Pre-electrical trenching, conduit and wiring interconnections
 - Pouring concrete
 - Finishing concrete
 - Related foundation work to get ready for building
 - Contractor and city inspection checkoff on foundation
- Provide photographs of completed foundation to the CAM.
- Oversee the construction of the microgrid and EV charging equipment by the selected subcontractors, including:
 - Pre-electrical
 - Framing, welding
 - Electrical
 - Controller installation, setup, and programming

- 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 Recipient's authorized representative.
- Submit 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.
- Provide photographs of completed microgrid to the CAM.
- Install four 1.5 MW Proterra chargers and 104 dispensers and test vehicle charging equipment.
- Provide photographs of installed charging equipment to the CAM.
- Install Solar and Battery Energy Storage System (BESS) and provide photographs to the CAM.
- Conduct grid upgrade and interconnection. This will include:
 - Negotiating and executing grid interconnection agreement with utility company.
 - In coordination with the utility company, upgrading any existing grid infrastructure needed to handle capacity.
 - Installing grid connection equipment necessary for the project in coordination with the utility company.
- Schedule the fire marshal inspection and obtain sign-off on the facility construction. Provide a copy of inspection and fire marshal sign-off to the CAM.
- Test the operational functionality of the microgrid and charging equipment and produce a commissioning report.
- Provide a copy of the microgrid commissioning report to the CAM.
- Identify signage needs, procure, and install all needed signs.
- Provide photographs of signage to the CAM.

Products:

- Letter of Construction Commencement
- Inspection and Fire Marshal Sign-Off
- Photos of Foundation, Microgrid and Charger Installation
- Photos of Solar and BESS Installation
- Photos of Signage
- AB 841 Certification and EVITP Certification Numbers
- Microgrid Commissioning Report

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

TASK 5 TRAINING AND DOCUMENTATION

The goal of this task is to produce all documentation necessary for training, operating, and maintaining the microgrid and charging facility infrastructure, and to train all personnel necessary in the operation and maintenance of the facility and equipment.

The Recipient shall:

- Develop all needed documentation for personnel training, safe operation, and maintenance of the microgrid facility. The documentation corresponds to the three essential functional considerations of the system: Operations, Dispatch and Maintenance.
- Provide a copy of materials to the CAM.
- Conduct training of the essential personnel in operations, dispatch, and maintenance departments of the agency.

Products:

- Training, Operations, Dispatch, and Maintenance Documentation Package

TASK 6 BEST PRACTICES DOCUMENTATION AND OUTREACH

The goal of this task is to identify and share the best practices associated with this EV charging station project.

The Recipient shall:

- Compile and prepare Best Practices Analysis and Report, to include, but not be limited to, the following:
 - Creating an evaluation form for reviewing the team and all subcontractors.
 - Evaluating the team and all subcontractors associated with the project.
 - Developing an analysis of the grid/off-grid use of the EV chargers in reducing and offsetting the load on the grid during peak times and advice for others trying to do the same.
 - Developing an analysis of the efficacy of this system in allowing the fleet electric buses to be fully available to meet their schedule demand and advice for others trying to do the same.
 - Analyzing the up time of the EV and related equipment and the performance of the Controller in managing the charging of the fleet's EV buses.
- Produce community education brochure and slide deck. Provide a copy to the CAM.

- Conduct outreach and educational activities within the communities that the Mid-city and Central Downtown Area Short Hop (DASH) program serves. The electric charging infrastructure will benefit disadvantaged communities beyond the two bus yard locations as the yards will charge up to 104 DASH buses that circulate neighborhoods such as Boyle Heights, Pico/Union, and Downtown Los Angeles. The information provided to the public will include:
 - Description of the project, its purpose, and objectives.
 - Explanation of the benefits of the microgrid to transit operations, transit users, and to the environment.
 - The capability for V2X vehicles to supply critical facilities with power during an emergency and power outages and how to upgrade critical facilities to enable this capability.

Products:

- Team and Subcontractor Evaluations
- Analysis Report of Grid/Off-Grid Use of the Charging System, the Availability of Electric Bus Fleet Under this New Charging System, and the Performance of the Related Equipment.
- Best Practices Analysis and Report
- Community Education Brochure and Slide Deck

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 in the Final Report. The data collection and analysis task will analyze and summarize how the project facilitates vehicle-charging interoperability, leverages open standards-based network communication, supports resiliency and grid reliability, and optimizes charging costs.

The Recipient shall:

- Develop a data collection test plan.
- Provide the number, type, date and location of chargers installed.
- Provide the nameplate capacity of the installed equipment, in kW for chargers.
- Provide the number and type of outlets per charger.
- Provide location type, such as street, parking lot, hotel, restaurant or multi-unit housing.
- Provide the total cost per charger, the subsidy from the CEC per charger, federal subsidy per charger, utility subsidy per charger, and privately funded share per charger.
- Collect 12 months of throughput, usage, and operations data from the project including, but not limited to:

- Number of charging sessions
- Average charger 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
- 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.

Products:

- Monthly Performance Reports of the Charging System and Microgrid Performance
- Data Collection Information and Analysis (will be included in the Final Report)

TASK 8 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 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.

Products:

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

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION

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 ARV-21-041 with the City of Los Angeles, Department of Transportation for a \$6,000,000 grant to install a solar and storage microgrid, four 1.5 MW chargers, 104 charger dispensers, overhead transit bus charging and solar canopies, and battery energy storage; 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 October 13, 2021.

AYE:

NAY:

ABSENT:

ABSTAIN:

Liza Lopez
Secretariat