



STATE OF CALIFORNIA

GRANT REQUEST FORM (GRF)

CEC-270 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) New Agreement # ARV-21-046

B) Division	Agreement Manager:	MS-	Phone
600 Fuels and Transportation Division	Michael Comiter	44	916-776-7197

C) Recipient's Legal Name	Federal ID #
City of Long Beach Harbor Department (Port of Long Beach)	95-6000733

D) Title of Project
Blueprint Phase II: REimagining Vehicle Utilization at the Port (REV-UP)

E) Term and Amount

Start Date	End Date	Amount
3/ 09 / 2022	11 / 30 / 2026	\$ 2,500,000

F) Business Meeting Information

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

Proposed Business Meeting Date 3/09/2022 ☐ Consent ☒ Discussion

Business Meeting Presenter Michael Comiter. Time Needed: 5 minutes

Please select one list serve: Altfuels. Select

Agenda Item Subject and Description:

Proposed resolution approving Agreement ARV-21-046 with the City of Long Beach Harbor Department (Port of Long Beach) for a \$2,500,000 grant to implement a blueprint developed under the Electric Vehicle Ready Communities Blueprint, Phase I, solicitation (GFO-17-604) and adopting staff's determination that this action is exempt from CEQA. This project will deploy 10 Level 2 electric vehicle charging stations and stub-out six additional units, develop an electric drayage truck charging siting toolkit, provide updates to drayage equipment feasibility reports, and produce a workforce assessment report. (Clean Transportation Program funding.) Contact: Michael Comiter. (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)):

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 .

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

a) ☐ Agreement **IS** exempt.

Statutory Exemption. List PRC and/or CCR section number: 14 CCR 15262 Feasibility and Planning Studies

☒ Categorical Exemption. List CCR section number: 14 CCR 15301 Existing facilities; 15303(d) New construction of small structures; 15304(f) Minor alterations to land; 15306 Information collection (Class 6).

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The project is considered to be categorically exempt from CEQA pursuant to:

14 CCR 15301 – Existing facilities (Class 1). Project involves only minor physical modifications or alterations to existing facilities at the Pier J Marine Terminal, Joint Command and Control Center at Pier F in the Port of Long Beach, involving the installation of electrical conveyances and infrastructure (HDP No. 22-001).

14 CCR 15303(d) – New Construction of Small Structures (Class 3d). The Project will involve the installation of charging stations requiring the new construction of small structures.

14 CCR 15304(f) – Minor alterations to land. Some electric vehicle infrastructure installations that the project supports will involve minor alterations to land, such as minor trenching and backfilling where the surface will be restored. Projects will not involve the removal of healthy, mature, scenic trees.

14 CCR section 15306 – Information Collection (Class 6). Operational data will be collected from the implementation of the electric vehicle chargers for inclusion in a report; technical information will also be collected regarding the siting of heavy-duty vehicle infrastructure to support the transition to zero emissions at the Port. In addition, a subsurface investigation will be conducted at Pier J to collect environmental, soil characterization, and utility data to inform the development of the Pier J ZEIMP (HOP No. 22-002).

The project is also statutorily exempt pursuant to **14 CCR 15262 Feasibility and Planning Studies**. The project involves the development of a ZEIMP for the Pier J Marine Terminal to evaluate zero-emission equipment, potential layouts, operations, costs, and impacts for transitioning to a zero-emission terminal at the terminal, as well as a Harbor Department ZEIMP, a long-term plan for workplace charging and transition to a 100-percent zero-emission vehicle fleet. The Project will also support industry and market facilitation by evaluating workforce development needs for drayage truck operations and disseminating information on workforce training opportunities and develop an Electric Drayage Truck Charging Station Siting Toolkit to provide technical information about siting heavy-duty vehicle infrastructure to support the transition to zero emissions at the Port. The preparation of the ZEIMP plans and Electric Drayage Truck Charging Station Siting Toolkit do not require the preparation of an environmental impact report or a negative declaration but will consider environmental factors. Therefore, the Project is exempt from CEQA and no further environmental review is required.

- 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



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

Legal Company Name:	Budget
See Additional Sheet	\$ 0.00
	\$ 0.00
	\$ 0.00
	\$ 0.00

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

Legal Company Name:
SSA Marine, Inc.
Southern California Edison Company
Litchfield Engineers
Cannon Corporation
Port of Los Angeles
Starcrest Consulting Group, LLC

J) Budget Information

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
ARFVTF	FY 20/21	601.118M	\$2,500.000
Funding Source			\$
Funding Source			\$
Funding Source			\$

R&D Program Area: Select Program Area TOTAL: \$

Explanation for "Other" selection

Reimbursement Contract #: Federal Agreement #:

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

Name: Aimee Castillo

Address: Port of Long Beach, 415 W. Ocean Blvd

City, State, Zip: Long Beach, CA 90802

Phone: (562) 283-7111

E-Mail: aimee.castillo@polb.com

2. Recipient's Project Manager

Name: Rose Szoke

Address: Port of Long Beach, 415 W. Ocean Blvd

City, State, Zip: Long Beach, CA 90802

Phone: (562) 519-0619

E-Mail: rose.szoke@polb.com

L) Selection Process Used



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- ☒ Competitive Solicitation Solicitation #: GFO-19-603
- ☐ First Come First Served Solicitation Solicitation #: - -

M) The following items should be attached to this GRF

1. Exhibit A, Scope of Work

☒ Attached
2. Exhibit B, Budget Detail

☒ Attached
3. CEC 105, Questionnaire for Identifying Conflicts

☒ Attached
4. Recipient Resolution

☒ N/A
5. CEQA Documentation

☐ N/A
- ☒ Attached

Agreement Manager

Date

Office Manager

Date

Deputy Director

Date

ARV-21-046 POLB Agreement List of subcontractors:

Subcontractor Name	Energy Commission Funds	Match Share
Build Momentum	\$0	\$100,000
Litchfield Engineers	\$0	\$17,600
Cannon Corporation	\$0	\$62,000
Starcrest Consulting Group, LLC	\$0	\$21,500
Tetra Tech, Inc.	\$0	\$153,500
Long Beach City College Auxiliary, Inc.	\$35,000	\$34,442
TBD	\$2,465,000	\$310,000

Exhibit A SCOPE OF WORK

TECHNICAL TASK LIST

Task #	CPR	Task Name
1		Grant Administration
2		Pier J Zero Emission Infrastructure Master Plan (ZEIMP)
3		Harbor Department ZEIMP
4		ZEV Infrastructure Deployments
5		Industry and Market Facilitation
6	X	Community Benefits & Data Collection
7		Project Fact Sheet

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	Rose Szoke	Momentum	
2	Rose Szoke, Leela Rao, Monique Lebrun, Fred Patricio, William Stone		SSA Marine, Southern California Edison (SCE)
3	Rose Szoke, Monique Lebrun, William Stone		SCE, Litchfield Engineers
4	Rose Szoke, Fred Patricio, Monique Lebrun, John Litzinger, William Stone		Cannon, SCE
5	Rose Szoke, Leela Rao	Starcrest Consulting Group, Tetra Tech	Port of Los Angeles
6	Rose Szoke	Long Beach City College	Starcrest Consulting Group

GLOSSARY

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

City of Long Beach Harbor Department (Port of Long Beach)

Term/ Acronym	Definition
AB	Assembly Bill
ADA	Americans with Disability Act
CAM	Commission Agreement Manager
CTP	Clean Transportation Program
CEC	California Energy Commission
CHE	Cargo Handling Equipment
CPR	Critical Project Review
ETP	Employment Training Panel
EV	Electric Vehicle
FTD	Fuels and Transportation Division
LMC	Licensed Motor Carrier
JCCC	Joint Command and Control Center
OEM	Original Equipment Manufacturer
Port	Port of Long Beach
Recipient	City of Long Beach Harbor Department (Port of Long Beach)
RFP	Request for Proposals
SCE	Southern California Edison
TBD	To Be Determined
TCO	Total Cost of Ownership
ZEIMP	Zero Emission Infrastructure Master Plan
ZEV	Zero Emission Vehicle

Background

Assembly Bill (AB) 118 (Núñez, Chapter 750, Statutes of 2007), created the Clean Transportation 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 12, 2020, the CEC released Grant Funding Opportunity, entitled "Electric Vehicle Ready Communities Phase II- Blueprint Implementation." This competitive grant solicitation was to announce the availability of up to \$7.5 million in grant funds to implement projects developed and identified in Phase I, Blueprint Development, of the Electric Vehicle (EV) Ready Communities Challenge. In response to GFO-19-603, the Recipient submitted application #5 which was proposed for funding in the CEC's Notice of Proposed Awards on September 13, 2021. GFO-19-603 and Recipient's application are hereby incorporated by reference into this Agreement in their entirety."

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

Problem Statement:

The Port of Long Beach (Port) is working diligently to reduce its environmental impacts while maintaining its status as an economic engine for the region. The Port has been an active participant in multiple technology demonstrations to vet and evaluate new zero-emission technologies for cargo handling equipment (CHE) and drayage trucks. As an

March 9, 2022

industry leader, the Port seeks to continue its push to reduce emissions by deploying zero-emission technologies and infrastructure. As an early adopter, the Port must manage risk associated with new technology and infrastructure, including technical risk that equipment does not function as well as traditional units, market share in a highly competitive and low margin business, environmental impacts, and cost impacts for its tenants. The Port's initial blueprint identified a pathway to thoughtfully balance potential risk by continuing to advance towards zero-emissions as an industry leader. Implementation of the actions in the blueprint include multiple detailed planning efforts and phased infrastructure deployments to minimize and mitigate risk.

Goals of the Agreement:

The goal of this Agreement is to implement projects developed in Phase I of the Port of Long Beach Community Electric Vehicle Blueprint, which aims to support a healthy, thriving community and clean environment by working with multiple internal Port divisions, tenants, and customers to expeditiously reduce air emissions negatively impacting our local community.

Objectives of the Agreement:

The objectives of this project are to:

1. Complete a Zero-Emission Infrastructure Master Plan (ZEIMP) for SSA Marine at Pier J, one of the largest terminals at the Port.
2. Complete a Harbor Department ZEIMP to prepare for the transition of the Port's own Light-Duty (LD)/Medium-Duty (MD) fleet, along with its employee and visitor vehicles, to zero-emission technologies.
3. Design, construct and install 10 Level 2 Zero Emission Vehicle (ZEV) charging stations and stub-outs for an additional six units for use by Port fleet vehicles, employees, and visitors at the Port's Maintenance Facility, demonstrating the Port's commitment to ZEVs.
4. Install infrastructure for 10 stub-outs to support ZEV charging for 20 vehicles (two vehicles per stub-out) that is integrated with a microgrid to support the Port fleet and employee vehicles at the Port's Joint Command and Control Center (JCCC).
5. Develop an Electric Drayage Truck Charging Station Siting Toolkit, and Toolkit Essentials document to provide resources for local business owners interested in deploying charging stations at their site and to advance their understanding about how to participate in the new transportation economy as an HD ZEV charging provider.
6. Design a program to offer free charging that incentivizes HD ZEV drayage truck adoption. The program will utilize the two public-access charging stations that are being installed at the Clean Truck Program Terminal Access Center.
7. Update the *2018 Feasibility Assessment for Drayage Trucks* and *2018 Feasibility Assessment for Cargo Handling Equipment* to ensure that key stakeholders have access to information evaluating the commercial and pre-commercial technology offerings.
8. Analyze workforce skills and competencies needed for ZEV vehicles and infrastructure maintenance, recommend training needed, and conduct outreach to industry.

9. Evaluate emission reductions associated with the utilization of installed ZEV charging infrastructure and the ZEVs supported by planning efforts and stub-out infrastructure.

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.
- 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 Products and Due Dates
 - Monthly Calls (Task 1.4)
 - Quarterly Progress Reports (Task 1.4)
 - Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)

- Final Report (Task 1.6)

Recipient Products:

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

CAM 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 CEC 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 close out 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 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'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 Monthly Calls

The goal of this task is to have calls at least monthly between CAM and Recipient 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 Recipient prior to the monthly call.
- Provide call summary notes to Recipient of items discussed during call.

The Recipient shall:

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

Product:

- 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 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. 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>.

Product:

- 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. 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, 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 1.7 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 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 1.8 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 Recipient may 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 1.9 Obtain and Execute Subawards

The goal of this task is to ensure quality products and to procure subrecipients 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.

The Recipient shall:

- Manage and coordinate subrecipient activities.
- 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 the executed subaward.
- If Recipient intends to add new subrecipients or change subrecipients, then the Recipient shall notify the CAM.

Products:

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

TECHNICAL TASKS

TASK 2 PIER J ZERO EMISSION INFRASTRUCTURE MASTER PLAN (ZEIMP)

The goal of this task is to complete a ZEIMP that will vet and evaluate potential layouts,

operations, and impacts for transitioning to a zero-emission terminal.

The Recipient shall:

- Develop and distribute a *Request for Proposals for the Complete Pier J ZEIMP*, based on the findings of a Pier J ZEIMP Scoping Study, to solicit bids from qualified engineering firms for the master planning efforts.
- Select the contractor.
- Complete the *Pier J ZEIMP* that will include:
 - Detailed evaluations of technology and infrastructure options identified in the Pier J ZEIMP Scoping Study. Additional options may be considered, or pre-identified options may be discarded, as new information is identified. Evaluations will include:
 - Infrastructure layout considerations.
 - Equipment technology configurations.
 - Energy evaluation to understand the potential impacts to the grid based on proposed equipment operations and energy management options (e.g. distributed energy resources, microgrid) that could offset the need for certain grid upgrades.
 - Construction cost estimates for leading zero-emission transition configurations, including:
 - Utility upgrade costs.
 - Equipment costs.
 - Infrastructure costs.
 - Available incentives or subsidies.
 - Labor.
 - Maintenance.
 - Energy costs.
 - Potential cost variability.
- Present a *Final Pier J ZEIMP Presentation* to describe the findings of the ZEIMP to the CAM.

Products:

- Request for Proposals for the Complete Pier J ZEIMP
- Draft Pier J ZEIMP
- Final Pier J ZEIMP
- Final Pier J ZEIMP Presentation

TASK 3 HARBOR DEPARTMENT ZEIMP

The goal of this task is to complete a long-term plan for the Port to advance its fleet transition to 100 percent ZEV, including workplace charging.

The Recipient shall:

- Develop and distribute a *Request for Proposals for the Harbor Department ZEIMP* to solicit bids from qualified engineering firms for the master planning efforts.
- Select the contractor.
- Complete the *Harbor Department ZEIMP* that will include:
 - A review of relevant past studies.
 - Evaluation of the energy demand needed to meet the operational performance of the port's harbor fleet.
 - Estimate demand for ZEV charging infrastructure by employees and guests.
 - Identify appropriate site locations for ZEV charging.
 - Estimate the number of chargers that may be needed to meet demand over time.
 - Assess technology and business model options to serve future vehicles energy requirements.
 - Assess infrastructure upgrades needs.
 - Provide cost estimates and timelines for necessary upgrades and installations.
 - Develop a phased approach to rolling out ZEV infrastructure.
- Present a *Final Harbor Department ZEIMP Presentation* to describe the findings of the ZEIMP to the CEC and other interested stakeholders.

Products:

- Request for Proposals for the Harbor Department ZEIMP
- Draft Harbor Department ZEIMP
- Final Harbor Department ZEIMP
- Final Harbor Department ZEIMP Presentation

TASK 4 ZEV INFRASTRUCTURE DEPLOYMENTS

The goal of this task is to support two electric charging hub deployments at the Port of Long Beach.

The Recipient shall:

- Complete *Final Design Documents for the Maintenance Facility* to provide electrical infrastructure to support at least 16 electric vehicle chargers with 10 being immediately available for use and the remaining 6 to be completed at a later date (stub outs), including:
 - Incorporation of design requirements for Americans with Disability Act (ADA), the City of Long Beach Department Development Services, Building and Safety Bureau, the Long Beach Municipal Code, and the California Electrical Code.
 - Construction phasing to minimize impacts to facility operations.
 - Prepare an estimated construction schedule and budget.
- Obtain required permits from the City of Long Beach Building and Safety Bureau.
- Prepare and advertise a bid package or employ the Port's on-call construction contracts to construct work based on the *Final Design Documents for the Maintenance Facility*.
- Select a contractor.
- Submit *Written Notification of Construction Start at the Maintenance Facility*.
- Install the ZEV charging infrastructure at the Maintenance Facility.
- Install and commission the 10 ZEV charging stations designed to be immediately available.
- Submit *Written Notification of Completion of Installation and Commissioning at the Maintenance Facility*.
- Submit *Written Notification of Construction Start at the JCCC*.
- Install the ZEV charging infrastructure at the JCCC.
- Submit *Written Notification of Completion of Installation at the JCCC*.
- 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 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.

Products:

- Final Design Documents for the Maintenance Facility
- Written Notification of Construction Start at the Maintenance Facility
- Written Notification of Completion of Installation and Commissioning at the Maintenance Facility.
- Written Notification of Construction Start at the JCCC
- Written Notification of Completion of Installation at the JCCC
- AB 841 Certifications (if applicable)

TASK 5 INDUSTRY AND MARKET FACILITATION

The goal of this task is to support the industry by providing technical information about medium- and heavy-duty vehicles, equipment, and technologies that support the transition to zero emissions at the Port of Long Beach.

The Recipient shall:

- Develop the *Electric Drayage Truck Charging Station Siting Toolkit* to provide resources for private facility owners interested in deploying heavy-duty charging stations at their site. The toolkit will focus on the Long Beach area but will act as a template that can be replicated in other communities. It will contain the following:
 - Purpose
 - About Heavy-Duty Charging Infrastructure
 - Planning Considerations
 - Site Criteria Checklist
 - Utility Timelines and Procedures
 - Cost Analysis
 - Charging Infrastructure Requirements and Design Guidelines
 - Charging Connector Options
 - ADA Requirements
 - 1-3 Conceptual Site Drawings
 - Infrastructure Permitting and Construction
 - Ownership and Management Options
 - Ownership Structures
 - Cost Recovery Mechanisms
 - Contact and Resources
- Develop a streamlined (2 - 4 page) *Toolkit Essentials* with easy-to-

follow checklists and process charts to help potential site hosts make decisions.

- Develop *Informational Material about the Availability of the DC Fast Chargers Installed at the Clean Truck Program* site once the two charging stations are commissioned. This includes the following:
 - Design a program to offer free charging that incentivizes ZEV drayage truck adoption.
 - Distribute information to relevant drayage truck stakeholders.
 - Provide free charging for heavy-duty drayage trucks consistent with the incentive design until the Port's match funding commitment of \$5,000 is met.
 - Incorporate utilization data into the Data Collection reporting in Task 6 based on utility billing data.
- Update the *San Pedro Bay Ports 2018 and 2021 Feasibility Assessments for Drayage Trucks* and the *2018 and 2021 Feasibility Assessments for Cargo Handling Equipment* to provide new information and an evaluation of fuel-technology platforms. The updates will provide analyses of which platforms are feasible or will likely be feasible from 2021 to 2024. The updates are expected to evaluate:
 - The current San Pedro Bay Ports drayage and cargo handling equipment fleets.
 - Commercial availability for potential ZEV technologies as appropriate, including feedback from OEMs, evaluation of sale and support networks, timelines for production and existing and near-term demonstrations.
 - Technical viability for potential ZEV technologies as appropriate, including estimated technology readiness level ratings with prognosis for 2024 and reference information from completed demonstrations (as available).
 - Operational feasibility for potential ZEV technologies as appropriate, including but not limited to performance, and accessibility of maintenance.
 - Infrastructure availability to support potential ZEV technologies as appropriate, including station location and footprint, and codes and standards.
 - Economic workability for potential ZEV technologies as appropriate, including incremental vehicle capital costs and financing options; fuel, operational, and maintenance infrastructure capital and operational costs; incentives; total cost of ownership; and cost effectiveness.

- Publish the San Pedro Bay Ports *2021 and 2024 Feasibility Assessments for Drayage Trucks* and the *2021 and 2024 Feasibility Assessments for Cargo Handling Equipment*.

Products:

- Electric Drayage Truck Charging Station Siting Toolkit
- Toolkit Essentials
- Informational Material about the Availability of the DC Fast Chargers Installed at the Clean Truck Program
- 2021 Feasibility Assessment for Drayage Trucks
- 2021 Feasibility Assessment for Cargo Handling Equipment
- 2024 Feasibility Assessment for Drayage Trucks
- 2024 Feasibility Assessment for Cargo Handling Equipment

TASK 6 COMMUNITY BENEFITS AND DATA COLLECTION

The goal of this task is to ensure that Port fleet vehicles, employees, and visitors at the Port's Maintenance Facility can realize the environmental and economic benefits of the transition to zero emissions, collect operational data from the project and include the data and analysis in the Final Report.

The Recipient shall:

- Produce a *Workforce Assessment Report* that includes:
 - An analysis of the workforce skills and competencies needed for vehicle and infrastructure maintenance of zero-emission trucks and infrastructure at private licensed motor carrier (LMC) locations.
 - Outline of recommended training needed for vehicle and infrastructure maintenance of zero-emission trucks and infrastructure.
 - An overview of independent truck owner operators and the workforce needed to ensure their transition to zero emissions.
 - An outline, based on industry engagement, of the maintenance and repair models used by LMCs and description of industry identified challenges or concerns pertaining to zero-emission trucks and infrastructure adoption.
- Develop workforce training if recommended in the *Workforce Assessment Report*, and feasible within the budget of the project.
- Provide industry outreach to deliver the report, recommendations, and skills training options to industry stakeholders, including trucking companies as well as external third-party repair and maintenance organizations.

City of Long Beach Harbor Department (Port of Long Beach)

- Integrate the developed information in existing resources for industry.
- Prepare *Industry Outreach Summary* describing the industry outreach conducted, including outreach methods, organizations contacted, response from industry.
- Develop a *Data Collection Plan* describing the metrics and methods for recording and reporting the emissions savings associated with the ZEV charging stations and the projected values of the ZEIMP efforts, including information on:
 - Number and type of chargers installed.
 - Charging sessions.
 - Energy used for charging over a 6-month period.
 - Power required.
 - Energy cost.
 - GHG and criteria emissions calculation methodology consistent with annual published emission inventories
- Gather and collect data necessary to execute the *Data Collection Plan*.
- Execute the *Data Collection Plan* and incorporate findings in the Final Report.

Products:

- Workforce Assessment Report
- Industry Outreach Summary
- Data Collection Plan

TASK 7 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) 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 LONG BEACH HARBOR DEPARTMENT (PORT OF LONG BEACH)

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-21-046 with the City of Long Beach Harbor Department (Port of Long Beach) for a \$2,500,000 grant to implement a blueprint developed under the Electric Vehicle (EV) Ready Communities Blueprint, Phase I, solicitation (GFO-17-604). This project will deploy 10 Level 2 EV charging stations and stub-out six additional units, develop an electric drayage truck charging siting toolkit, provide updates to drayage equipment feasibility reports, and produce a workforce assessment report.; 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 March 9, 2022.

AYE:

NAY:

ABSENT:

ABSTAIN:

Liza Lopez
Secretariat