

GRANT AMENDMENT REQUEST FORM (GARF)

CEC-277 (Revised 08/14)

CALIFORNIA ENERGY COMMISSION



Original Agreement #	ARV-12-053	Amendment #	1
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Division	Agreement Manager:	MS-	Phone
600 Fuels and Transportation Division	Sharon Purewal	27	916-654-4637

Recipient's Legal Name	Federal ID Number
South Coast Air Quality Management District	-

Revisions: (check all that apply)		
<input checked="" type="checkbox"/> Term Extension	New End Date: 12 / 30 / 2016	Include revised schedule and complete items A, B, C, & F below.
<input checked="" type="checkbox"/> Budget Augmentation	Amendment Amount: \$ 420,000	Include revised budget and complete items A, B, C, D, & F below.
<input type="checkbox"/> Budget Reallocation		Include revised budget and complete items A, B, C, & F below.
<input checked="" type="checkbox"/> Scope of Work Revision		Include revised scope of work and complete items A, B, C, E, & F below.
<input type="checkbox"/> Change in Project Location or Demonstration Site		Include revised scope of work and complete items A, B, C, E, & F below.
<input type="checkbox"/> Novation/Name Change of Prime Contractor/Recipient		Include novation documentation and complete items A, B, C, & F below.
<input type="checkbox"/> Terms and Conditions Modification		Include applicable exhibits with bold/underline/strikeout and complete items A, B, C, & F below.

A) Business Meeting Information**Business Meeting approval is not required for the following types of Agreements:**

ARFVTP minor amendments delegated to Executive Director.

Proposed Business Meeting Date	10 / 7 / 2014	<input type="checkbox"/> Consent	<input checked="" type="checkbox"/> Discussion
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Business Meeting Presenter	Sharon Purewal	Time Needed:	5 minutes
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Please select one list serve. Altfuels (AB118- ARFVTP)

Agenda Item Subject and Description

Possible approval of Amendment 1 to Agreement ARV-12-053 with South Coast Air Quality Management District (SCAQMD) to augment the agreement by \$420,000, modify the scope of work and budget to allow SCAQMD to install electric vehicle fast chargers that adhere to both CHAdeMO and SAE charging protocols, and extend the term by 22 months.

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

Legal Company Name:	Budget
TBD	\$ 720,000.00
	\$ 0.00
	\$ 0.00

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

Legal Company Name:

D) Budget Information (only include amendment amount information)

Funding Source	Funding Year of Appropriation	Budget List No.	Amount
ARFVTF	12/13	601.118D	\$720,000
Funding Source			\$
R&D Program Area:	Select Program Area	TOTAL:	\$720,000
Explanation for "Other" selection			
Reimbursement Contract #:		Federal Agreement #:	



E) 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. (Attach draft NOE)
 Statutory Exemption. List PRC and/or CCR section number: _____
 Categorical Exemption. List CCR Article 19: Sections 15301, 15303, 15304 section number: _____
 Common Sense Exemption. 14 CCR 15061 (b) (3)
 Explain reason why Agreement is exempt under the above section: _____

b) Agreement **IS NOT** exempt. (Consult with the legal office to determine next steps.)
 Check all that apply
 Initial Study Environmental Impact Report
 Negative Declaration Statement of Overriding Considerations
 Mitigated Negative Declaration

F) The following items should be attached to this ARF (as applicable)

1. Exhibit A, Scope of Work	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
2. Exhibit B, Budget Detail	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
3. CEQA Documentation	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
4. Novation Documentation	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
5. CEC 105, Questionnaire for Identifying Conflicts		<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	Design System – Engineering and Preconstruction
3		Equipment Delivery and Installation
4		System Start-Up and Commissioning into Service
5		Public Outreach
6		Data Collection and Performance Assessment

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	Patricia Kwon		
2	Patricia Kwon		
3	Patricia Kwon		
4	Patricia Kwon		
5	Patricia Kwon		
6	Patricia Kwon		

GLOSSARY

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

Acronym	Definition
CHAdEMO	CHARge de MOve- trade name for a method of quick charging
CPR	Critical Project Review
ARFVT	Alternative and Renewable Fuel and Vehicle Technology
DC	Direct Current
DCFC	Direct Current Fast Charger
Energy Commission	California Energy Commission
FTD	Fuels and Transportation Division
kW	Kilowatt
PEV	Plug-in Electric Vehicle
Recipient	South Coast Air Quality Management District
SAE	Society of Automotive Engineers International
UL	Underwriters Laboratories Inc.

Background:

Assembly Bill 118 (Núñez, Chapter 750, Statutes of 2007), created the Alternative and Renewable Fuel and Vehicle Technology Program (ARFVT Program). The statute, subsequently amended by AB 109 (Núñez) Chapter 313, Statutes of 2008), authorizes the California Energy Commission (Energy Commission) to develop and deploy

alternative and renewable fuels and advanced transportation technologies to help attain the state's climate change policies. The Energy Commission has an annual program budget of approximately \$100 million and provides financial support for projects that:

- Develop and improve alternative and renewable low-carbon fuels;
- Optimize alternative and renewable fuels for existing and developing engine technologies;
- Produce alternative and renewable low-carbon fuels in California;
- Decrease, on a full fuel cycle basis, the overall impact and carbon footprint of alternative and renewable fuels and increase sustainability;
- Expand fuel infrastructure, fueling stations, and equipment;
- Improve light-, medium-, and heavy-duty vehicle technologies;
- Retrofit medium- and heavy-duty on-road and non-road vehicle fleets;
- Expand infrastructure connected with existing fleets, public transit, and transportation corridors; and
- Establish workforce training programs, conduct public education and promotion, and create technology centers.

The Energy Commission issued solicitation PON-11-602 to provide funding opportunities under the ARFVT Program for projects which develop infrastructure necessary to store, distribute, and dispense electricity, E-85, propane, diesel substitutes, and natural gas. To be eligible for funding under PON-11-602, the projects must also be consistent with the Energy Commission's annual ARFVT Program Investment Plan. In response to PON-11-602, South Coast Air Quality Management District (Recipient) submitted proposal numbers 105-108, 112, 115, 122, 123, 125, 126, 129, 130, 137, 138, 144, 146, and 147-150 which were recommended for funding in the Energy Commission's August 16, 2012, Notice of Proposed Awards and are incorporated by reference to 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 the Energy Commission's Award, the 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:

There are an inadequate number of publicly accessible direct current fast chargers (DCFCs) in urban and transportation corridors to provide operational coverage.

Goal of the Agreement:

The goal of this agreement is to demonstrate the feasibility of publicly accessible DCFCs in urban and transportation corridors **in order to achieve substantial reductions in greenhouse gas emissions through electrification of the transportation sector.**

Objectives of the Agreement:

The objectives of this agreement are the following:

- Engineer, design, and plan the installation of **all** DCFC sites.
- Order, receive, and install equipment to provide a network of DCFCs along the major freeway transportation corridors to help alleviate range anxiety.
- **Provide the most current commercially available DCFCs along the major freeway transportation corridors to alleviate range anxiety.**
- Provide an economic path for host sites to scale fast charging throughout California.
- **Reduce GHG emissions and the use of petroleum fuels in the South Coast Air Basin.**
- Improve air quality by enabling accelerated plug-in electric vehicles (PEV) adoption through the availability of fast chargers.
- Provide robust EV use data analysis to help understand and forecast future EV and EVSE needs.
- Implement EVSE infrastructure cost effectively.
- Educate local community members and business owners about the benefits of driving PEVs and having fast charging stations located within their community.

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 Recipient shall:

- Attend a “Kick-Off” meeting with the Energy Commission Agreement Manager, the Grants Officer, and a representative of the Accounting Office. The Recipient shall bring its Project Manager, Agreement Administrator, Accounting Officer, and others designated by the Energy Commission Agreement Manager to this meeting. The administrative and technical aspects of this Agreement will be discussed at the meeting. Prior to the kick-off meeting, the Energy Commission Agreement Manager will provide an agenda to all potential meeting participants.

The administrative portion of the meeting shall include, but not be limited to the following:

- The terms and conditions of the Agreement
- Critical Project Review (Task 1.2)
- Match fund documentation (Task 1.6)
- Permit documentation (Task 1.7)
- Subcontracts needed to carry out project (Task 1.8)

The technical portion of the meeting shall include a discussion of the following:

- The Energy Commission Agreement Manager's expectations for accomplishing tasks described in the Scope of Work
- An updated Schedule of Products
- Progress Reports (Task 1.4)
- Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)
- Final Report (Task 1.5)

The Energy Commission Agreement Manager shall designate the date and location of this meeting.

Recipient Products:

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

Energy Commission Agreement Manager Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

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.

CPRs provide the opportunity for frank discussions between the Energy Commission and the Recipient. CPRs generally take place at key, predetermined points in the Agreement, as determined by the Energy Commission Agreement Manager and as shown in the Technical Task List above. However, the Energy Commission Agreement Manager may schedule additional CPRs as necessary, and any additional costs will be borne by the Recipient.

Participants include the Energy Commission Agreement Manager and the Recipient and may include the Energy Commission Grants Officer, the Fuels and Transportation Division (FTD) team lead, other Energy Commission staff and Management as well as other individuals selected by the Energy Commission Agreement Manager to provide support to the Energy Commission.

The Energy Commission Agreement Manager 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. One of the outcomes of this meeting will be 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 (see the Terms and Conditions, Section 8). If the Energy Commission Agreement Manager concludes that satisfactory progress is not being made, this conclusion will be referred to the Lead Commissioner for Transportation activities 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 and submit 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 Energy Commission Agreement Manager 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.

Energy Commission Agreement Manager 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 Energy Commission Grants Office Officer, and the Energy 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 Energy Commission Agreement Manager.

- Present at the technical portion of the meeting 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.
- Discuss with the Energy Commission Agreement Manager and the Grants Officer the following Agreement closeout items at the administrative portion of the meeting:
 - 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.

The Energy Commission Agreement Manager will determine the appropriate meeting participants.

Recipient 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 research 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 Energy 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 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.

Recipient's Product:

- Monthly Progress Reports

Task 1.5 Final Report

The goal of the Final Report is to assess the project's success in achieving its 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 and submit an Outline of the Final Report.
- Prepare and submit a Final Report following the approved outline and the latest version of the Final Report guidelines which will be provided by the Energy Commission Agreement Manager. The Energy Commission Agreement Manager 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.

Recipient's Products:

- Draft Outline of the Final Report
- Final 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 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 and submit a letter documenting the match funding committed to this Agreement and submit it to the Energy 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 Energy Commission Agreement Manager if during the course of the Agreement additional match funds are received.
- Notify the Energy 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.

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

Recipient's 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)

Task 1.8 Obtain and Execute Subcontracts

The goal of this task is to ensure quality products and to procure subcontracts required to carry out the tasks under this Agreement consistent with the terms and conditions of this Agreement 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, 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 Energy Commission Agreement Manager for review.
- Submit a final copy of the executed subcontract.
- If Recipient decides to add new subcontractors, it shall notify the Energy Commission Agreement Manager.

Recipient's Products:

- Draft subcontracts
- Final subcontracts

TECHNICAL TASKS

TASK 2 Design System Engineering and Preconstruction

The goal of this task is to perform civil and architectural engineering, including design management services and preconstruction planning for all **sites, finalize the project design for the following charging station installation sites, determine all necessary parts, tools and, equipment, and procure the required electric vehicle charging equipment and schedule delivery of equipment to each site. The**

potential charging station sites identified as of the commencement date of this grant agreement are:

10400 Sepulveda Blvd., Mission Hills, CA 91345, Los Angeles County
25872 Muirlands Blvd., Mission Viejo, CA 92691, Orange County
2230 S. Atlantic Blvd., Monterey Park, CA 91754, Los Angeles County
330 N. Atlantic Blvd., Monterey Park, CA 91754, Los Angeles County
12816 Studebaker Rd., Norwalk, CA, 90650, Los Angeles County
320 W. Colorado Blvd., Pasadena, CA, 91105, Los Angeles County
903 El Camino Real, San Clemente, CA, 92672, Orange County
655 S. Grand Ave., Glendora, CA, 91740, Los Angeles County
1644 Cloverfield Ave., Santa Monica, CA 90404, Los Angeles County
14049 Ventura Blvd., Sherman Oaks, CA 91423, Los Angeles County
1910 N. Campus Ave., Upland, CA 91784, Los Angeles County
2630 E. Workman Ave., West Covina, CA 91791, Los Angeles County
619 E. University Drive, Carson, CA 90746, Los Angeles County
13321 South St., Cerritos, CA 90703, Los Angeles County
13220 Harbor Blvd., Garden Grove, CA 92843, Los Angeles County
6601 Quail Hill Parkway, Irvine, CA 92603, Orange County
1930 N. Lakewood Blvd., Long Beach, CA 90815, Los Angeles County
2520 Glendale Blvd., Los Angeles, CA, 90039, Los Angeles County
2600 S. Vermont Blvd., Los Angeles, CA 90007, Los Angeles County
3443 S. Sepulveda Blvd., Los Angeles, CA 90034, Los Angeles County

Site changes: Any change of one or more of the above-identified charging station sites to a new or different proposed site must be effectuated through a mutually-acceptable contract amendment.

The Recipient shall:

- Finalize layout of the DCFCs.
- **Perform site visits of all installation sites.**
- **Develop the final list of equipment needed for the project and place an order for all equipment and parts needed to install the electric vehicle charging stations at each of the locations.**
- **Draft and finalize the project design for each location.**
- **Develop an installation schedule for the order of installations for each location.**
- Provide design management services.
- Provide preconstruction planning services.
- Submit the final DCFCs design to the Energy Commission Agreement Manager.

[CPR will be held at the end of this task. See Task 1.2 for details.]

Recipient's Product:

- **Copies of completed equipment and parts order forms**
- Final **Project Designs** for **each of the locations**
- **Installation Schedule for each of the locations**

TASK 3 Equipment Delivery and Installation

The goal of this task is to take delivery of all necessary equipment and supplies at the site and install the equipment, controls, and support infrastructure in accordance with the system design specifications for **DCFCs with CHAdeMO and SAE Combo connectors.**

The Recipient shall:

- Order and procure all equipment and materials.
- **Install DCFCs with CHAdeMO and SAE Combo connectors.**
- Certify the DCFC has Underwriters laboratories, Inc. (UL) or equivalent rating.
- Provide a minimum five-year warranty of entire fast charger system with onsite service.
- Provide DCFC with a minimum of 30 kW power rating.
- Ensure the DCFCs have the ability to communicate with vehicle battery management systems.
- Track and inventory all equipment and supplies arriving at the site.
- Provide quality assurance checks on key components of the system.
- Coordinate placement and logistics for off-loading equipment and component skids.
- Prepare and submit a list of equipment received.
- Install equipment on their respective foundations.
- Perform final checks of design prior to start-up.
- Prepare and submit a final Installation Report that summarizes the work performed describes any changes from the original design, identifies any issues that arose during final checks of the design, and verifies completion of installation.
- Prepare and submit a copy of all finalized permit for each site.

Recipient's Product:

- **Copy of five**-year warranty of entire fast charger system
- List of equipment received
- Final Installation Report

TASK 4 System Start-up and Commissioning Into Service

The goal of this task is to start up DCFCs, **complete upgrading the DCFC sites,** and commission them into operation, providing unlimited public PEV access for fast charging.

The Recipient shall:

- Develop and submit start-up test plan.
- Perform necessary checks of the system prior to start-up and address any findings from prestart check list and take corrective actions.
- Perform start-up and commission system into service per test plan.
- Troubleshoot any issues identified.
- Prepare and submit a written notification of system start-up and commissioning, including photographs, problems encountered, and corrective actions for each site.
- Install publicly accessible UL listed DCFCs with dual hose dispensers with CHAdeMo and SAE Combo connectors.
- Install functional back office system communication, management, and customer relations.
- Conduct a customer training session which includes product capabilities and safety features, care and maintenance requirements, operation and troubleshooting techniques, service support requests, ordering replacement parts, and understanding the warranty.

Recipient's Products:

- Start-up test plan
- Final Report of start-up and commissioning for each site.

TASK 5 Public Outreach

The Recipient will create public awareness about the development of this important infrastructure project using match funding.

The Recipient shall:

- Invite key stakeholders, government officials, and media to the commencement ceremony.
- Issue a press release for circulation in all key media outlets.
- Organize and hold a large media event and ribbon cutting ceremony.

Recipient's Product:

- Press Release

TASK 6 Data Collection and Performance Assessment

The goal of this task is to collect operational data from the network of stations. The data will be analyzed for economic and environmental impacts and the recommendations will be included in the Final Report.

The Recipient shall:

- Provide relevant charge data from **all** sites.
- Develop data collection test plan.
- Troubleshoot any issues identified.

- Collect 6 months of throughput, usage, and operations data, unless a different timeframe is authorized in writing by the CAM, from the project including, but not limited to:
 - **Numbers** of days per year vehicles **use stations.**
 - Maximum **number of charging events per day.**
 - Estimated gallons of gasoline and/or diesel fuel displaced by using electricity (with associated mileage information) by classification types of vehicles and estimated use or duty cycle.
 - Expected air emissions reduction, for example:
 - Non-methane hydrocarbons
 - Oxides of nitrogen
 - Non-methane hydrocarbons plus oxides of nitrogen
 - Particulate Matter
 - Formaldehyde
 - Duty cycle of the current fleet and the expected duty cycle of future vehicle acquisitions.
- Specify jobs and economic development resulting from this project.
- 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 Energy Commission with actual project performance and accomplishments.

Recipient's Product:

- Data collection information and analysis shall be included in the Final Report per Task 1.5.

RESOLUTION NO:

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

RESOLUTION - RE: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

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

RESOLVED, that the Energy Commission approves Amendment 1 to Grant Agreement ARV-12-053 with **South Coast Air Quality Management District(SQAQMD)** to augment the agreement by \$420,000, modify the scope of work and budget to allow SCAQMD to install electric vehicle fast chargers that adhere to both CHAdeMO and SAE charging protocols, and extend the term by 22 months; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the Energy Commission.

CERTIFICATION

The undersigned Secretariat to the Commission 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 California Energy Commission held on October 7, 2014.

AYE: [List of Commissioners]

NAY: [List of Commissioners]

ABSENT: [List of Commissioners]

ABSTAIN: [List of Commissioners]

Harriet Kallemeyn,
Secretariat