

GRANT REQUEST FORM (GRF)

CEC-270 (Revised 10/2015)

CALIFORNIA ENERGY COMMISSION

New Agreement ARV-15-058 (To be completed by CGL Office)

Division	Agreement Manager:	MS-	Phone
600 Fuels and Transportation Division	Thanh Lopez	6	916-654-3929

Recipient's Legal Name	Federal ID Number
NRG EV Services LLC	27-3632157

Title of Project
DC Fast Chargers for California's North-South Corridors ECHC2

Term and Amount	Start Date	End Date	Amount
	06 / 01 / 2016	03 / 31 / 2020	\$ 1,449,928

Business Meeting Information
 ARFVTP agreements \$75K and under delegated to Executive Director.

Proposed Business Meeting Date	04 / 13 / 2016	<input type="checkbox"/> Consent	<input checked="" type="checkbox"/> Discussion
Business Meeting Presenter	Thanh Lopez	Time Needed:	5 minutes

Please select one list serve. Altfuels (AB118- ARFVTP)**Agenda Item Subject and Description**

Proposed resolution approving Agreement ARV-15-058 with NRG EV Services LLC for a \$1,449,928 grant to deploy fifteen electric vehicle charging stations (consisting of ten direct current fast chargers and five level 2 electric vehicle charging stations) at five sites between Red Bluff and north of Sacramento along Interstate 5.

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 section number: §15301 "Existing Facilities", §15303 "New Construction or Conversion of Small Structures", §15304 "Minor Alterations to Land"
 Common Sense Exemption. 14 CCR 15061 (b) (3)
 Explain reason why Agreement is exempt under the above section:
 The project consist of minor alteration of existing facilities and/or mechanical equipment involving negligible or no expansion of use beyond that existing; including replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity and/or minor alterations to land, including minor trenching and backfilling where surface is restored. All power will be provided from the existing electrical panel and the work includes installation of conduit, wiring, electrical connections and mounting equipment. Minor trenching may be required to bring power from local sources to the proposed electric vehicle chargers.
- 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

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

Legal Company Name:	Budget
Solarrus	\$ 473,688
Clean Fuel Connection, Inc.	\$ 326,222
See attached	\$ 0

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

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CALIFORNIA ENERGY COMMISSION



Legal Company Name:
Solarrus
BTC Power

Budget Information			
Funding Source	Funding Year of Appropriation	Budget List No.	Amount
ARFVTP	14/15	601.118G	\$1,449,928
Funding Source			\$
R&D Program Area:	Select Program Area	TOTAL:	\$1,449,928
Explanation for "Other" selection			
Reimbursement Contract #:		Federal Agreement #:	

Recipient's Administrator/ Officer				Recipient's Project Manager			
Name:	Cina Loarie			Name:	Terry O'Day		
Address:	5858 Horton Street, Suite 275			Address:	11390 West Olympic Blvd., Suite 250		
City, State, Zip:	Emeryville, California 94608			City, State, Zip:	Los Angeles, California 90064		
Phone:	650-867-8591	Fax:	- -	Phone:	310-954-2929	Fax:	- -
E-Mail:	cina.loarie@nrg.com			E-Mail:	Terry.ODay@nrg.com		

Selection Process Used	
<input checked="" type="checkbox"/> Competitive Solicitation	Solicitation #: GFO-15-601
<input type="checkbox"/> First Come First Served Solicitation	

The following items should be attached to this GRF	
1. Exhibit A, Scope of Work	<input checked="" type="checkbox"/> Attached
2. Exhibit B, Budget Detail	<input checked="" type="checkbox"/> Attached
3. CEC 105, Questionnaire for Identifying Conflicts	<input checked="" type="checkbox"/> Attached
4. Recipient Resolution	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Attached
5. CEQA Documentation	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Attached

_____ Agreement Manager	_____ Date	_____ Office Manager	_____ Date	_____ Deputy Director	_____ Date
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GRANT REQUEST FORM ATTACHMENT

CEC-270 Attachment

New Agreement: ARV-15-058

Recipient's Legal Name:

NRG EV Services LLC

List all subcontractors (major and minor) and equipment vendors:

Legal Company Name	Budget
BTC Power	\$0
TBD – Tier 1 customer support	\$10,800
TBD – Final Installation of Charging Station Equipment	\$20,060
Plump Group	\$0
Ignisio Studios	\$4,296
Ground Penetrating Radar	\$1,600
HD Concrete Works	\$2,600
TBD – Bore and hauling	\$1,200
TBD – Paint	\$0
PG&E	\$90,000
TBD – Cement and asphalt	\$19,500
TBD – Painting	\$0
Bryson Consulting Structural Engineers	\$4,500
TBD – Boring and hauling	\$3,600
TBD – Utility Upgrades	\$135,000

List all key partners:

Legal Company Name:

Clean Fuel Connection, Inc.

Green Charge Networks

**Exhibit A
SCOPE OF WORK**

TECHNICAL TASK LIST

Task #	CPR	Task Name
1		Administration
2		Site Agreement Execution
3	X	Site Design and Equipment Installation
4		Public Outreach
5		Ongoing Operations and Maintenance
6		Data Collection and Analysis

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	Terry O'Day		
2	Terry O'Day, Cina Loarie, Tom Folan, Jason Buckland, Kevin Kelleher, George Johnson, Stephen Israel		
3	George Johnson, Stephen Israel	BTC Power, Clean Fuel Connections, Inc., Solarrus	Green Charge Networks
4	Terry O'Day, Justine Brody		
5	George Johnson	BTC Power, Solarrus	

GLOSSARY

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

Term/Acronym	Definition
ARFVTP	Alternative and Renewable Fuel and Vehicle Technology Program
CAM	Commission Agreement Manager
CAO	Commission Agreement Officer
CPR	Critical Project Review
DC Fast Charger	Direct Current Fast Charger
ECHC	Electric Charging Highway Corridor
EVgo/Recipient	NRG EV Services LLC
Energy Commission	California Energy Commission
FTD	Fuels and Transportation Division
I-5	Interstate 5
NGO	Non-Governmental Organizations
OPCC	Open Charge Point Protocol
PEV	Plug-in Electric Vehicle
SAE	Society of Automotive Engineers
SAE CCS	Society of Automotive Engineers Combined Charging System

BACKGROUND

Assembly Bill (AB) 118 (Núñez, Chapter 750, Statutes of 2007), created the Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP). The statute 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, clean air, and alternative energy policies. AB 8 (Perea, Chapter 401, Statutes of 2013) re-authorizes the ARFVTP through January 1, 2024. The ARFVTP 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 Energy Commission issued solicitation GFO-15-601 to fund projects that will install Direct Current (DC) fast charging stations on Interstate 5 (I-5), State Route 99, and along United States Highway 101 from San Jose traveling south in California to Buellton. To be eligible for funding under GFO-15-601, the projects must also be consistent with the Energy Commission's ARFVTP Investment Plan updated annually. In response to GFO-15-601, NRG EV Services LLC (Recipient) submitted application number 19, which was proposed for funding in the Energy Commission's Notice of Proposed Awards on February 16, 2016 is 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 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:

Several plug-in electric vehicle (PEV) charging networks currently operate in California. With the exception of Tesla, the focus of charging station developers has been metropolitan areas, where PEV density is the highest and where automakers have

encouraged charging station development. However, for sites based along highway corridors between cities, developers worry that charging stations would not generate enough usage to justify construction, especially given that most current generation of battery electric vehicles do not have the vehicle range to travel longer distances. Hence, private industry has been hesitant to deploy charging stations along these corridors. This project will aid the private sector in providing the type of universal access that is needed to drive PEV adoption, especially as longer-range PEVs emerge over the next few years. As stations are installed between the Oregon and Mexico border, allowing PEV drivers to travel longer distances – and drivers in California’s more rural areas – can have access to the same high-speed charging stations the PEV drivers in larger cities currently enjoy.

Goals of the Agreement:

The goal of this agreement is to complete an Electric Charging Highway Corridor (ECHC) between Red Bluff and north of Sacramento along I-5.

Objectives of the Agreement:

The objectives of this agreement are to:

- Deploy electric vehicle charging stations at five sites between Red Bluff and north of Sacramento along I-5. Each site will include:
 - Two (2) 50 kW dual port (one CHAdeMO and one SAE CCS port) DC fast charging stations
 - One (1) dual port level 2 charging station
 - Two (2) stub outs. Each stub out will include a 2-inch minimum spare conduit run with pull-rope sized, installed, and located per the National Electric Code for future installation of wiring supporting up to a 480VAC, 4-wire, 125 kW load; and be capped off.
- Deploy energy storage system at two of the five sites.
- Apply EVgo’s reliability metric (no more than 1.5 percent of charging stations inoperable at any one time [or one charging station inoperable 1.5 percent of the time]) to the ECHC stations at the five sites.
- Build and strengthen the limited fast charger network to extend the range of PEVs and zero emission miles driven, and to further support the adoption and growth of PEVs in California.

TASK 1 ADMINISTRATION

Task 1.1 Attend Kick-off Meeting

The goal of this task is to establish the lines of communication and procedures for implementing this Agreement. The Commission Agreement Manager (CAM) shall designate the date and location of this meeting and provide an agenda to the Recipient prior to the meeting.

The Recipient shall:

- Attend a “Kick-Off” meeting with the CAM, the Commission Agreement Officer (CAO), and a representative of the Energy Commission Accounting

Office. The Recipient shall bring their Project Manager, Agreement Administrator, Accounting Officer, and 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

CAM Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

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

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

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

The CAM shall:

- Determine the location, date, and time of each CPR meeting with the Recipient. These meetings generally take place at the Energy Commission, but they may take place at another location.
- Send the Recipient the agenda and a list of expected participants in advance of each CPR. If applicable, the agenda shall include a discussion on both match funding and permits.
- Conduct and make a record of each CPR meeting. Prepare a schedule for providing the written determination described below.
- Determine whether to continue the project, and if continuing, whether or not modifications are needed to the tasks, schedule, products, and/or budget for the remainder of the Agreement. Modifications to the Agreement may require a formal amendment (please see section 8 of the Terms and Conditions). If the CAM concludes that satisfactory progress is not being made, this conclusion will be referred to the Lead Commissioner for Transportation for his or her concurrence.
- Provide the Recipient with a written determination in accordance with the schedule. The written response may include a requirement for the Recipient to revise one or more product(s) that were included in the CPR.

The Recipient shall:

- Prepare a CPR Report for each CPR that discusses the progress of the Agreement toward achieving its goals and objectives. This report shall include recommendations and conclusions regarding continued work of the projects. This report shall be submitted along with any other products identified in this scope of work. The Recipient shall submit these documents to the CAM and any other designated reviewers at least 15 working days in advance of each CPR meeting.
- Present the required information at each CPR meeting and participate in a discussion about the Agreement.

CAM Products:

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

Recipient Product:

- CPR Report(s)

Task 1.3 Final Meeting

The goal of this task is to closeout this Agreement.

The Recipient shall:

- Meet with Energy Commission staff to present the findings, conclusions, and recommendations. The final meeting must be completed during the closeout of this Agreement.

This meeting will be attended by, at a minimum, the Recipient, the CAO, 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 CAO about the following Agreement closeout items:

- What to do with any equipment purchased with Energy Commission funds (Options)
- Energy Commission's request for specific "generated" data (not already provided in Agreement products)
- Need to document Recipient's disclosure of "subject inventions" developed under the Agreement
- "Surviving" Agreement provisions
- Final invoicing and release of retention
- Prepare a schedule for completing the closeout activities for this Agreement.

Products:

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

Task 1.4 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 Energy Commission and will be preparing a confidential version of the Final Report as well, the Recipient shall perform the following activities for both the public and confidential versions of the Final Report.

The Recipient shall:

- Prepare an Outline of the Final Report, if requested by the CAM.
- Prepare a Final Report following the latest version of the Final Report guidelines which will be provided by the CAM. The CAM shall provide written comments on the Draft Final Report within fifteen (15) working days of receipt. The Final Report must be completed at least 60 days before the end of the Agreement Term.
- Submit one bound copy of the Final Report with the final invoice.

Products:

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

- Final Report

Task 1.6 Identify and Obtain Matching Funds

The goal of this task is to ensure that the match funds planned for this Agreement are obtained for and applied to this Agreement during the term of this Agreement.

The costs to obtain and document match fund commitments are not reimbursable through this Agreement. Although the Energy Commission budget for this task will be zero dollars, the Recipient may utilize match funds for this task. Match funds shall be spent concurrently or in advance of Energy Commission funds for each task during the term of this Agreement. Match funds must be identified in writing and the associated commitments obtained before the Recipient can incur any costs for which the Recipient will request reimbursement.

The Recipient shall:

- Prepare a letter documenting the match funding committed to this Agreement and submit it to the 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 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 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 Energy Commission budget for this task will be zero dollars, the Recipient shall budget match funds for any expected expenditures associated with obtaining permits. Permits must be identified in writing and obtained before the Recipient can make any expenditure for which a permit is required.

The Recipient shall:

- Prepare a letter documenting the permits required to conduct this Agreement and submit it to the 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)

Task 1.8 Obtain and Execute Subcontracts

The goal of this task is to ensure quality products and to procure subcontractors required to carry out the tasks under this Agreement consistent with the Agreement Terms and Conditions and the Recipient’s own procurement policies and procedures. It will also provide the Energy Commission an opportunity to review the subcontracts to ensure that the tasks are consistent with this Agreement, and that the budgeted expenditures are reasonable and consistent with applicable cost principles.

The Recipient shall:

- Manage and coordinate subcontractor activities.
- Submit a draft of each subcontract required to conduct the work under this Agreement to the 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 subcontracts needed, or stating that no subcontracts are required
- Draft subcontracts
- Final subcontracts

TECHNICAL TASKS

Task 2 Site Agreement Execution

The goal of this task is obtain an agreement for five selected sites. The Recipient shall work with potential site owners and/or site leaseholders to execute five host agreements between south of Red Bluff and north of Sacramento. The 8 potential charging station sites, three of which are alternatives, identified as of the commencement date of this agreement are:

Primary Sites:

1. 828 Newville Road, Orland, California 95963
2. 470 Airport Road, Willows, California 95988

3. 451 6th Street, Williams, California 95987
4. 30035 County Road 8, Dunnigan, California, 95937
5. 1720 E. Main Street, Woodland, California 95776

Alternative Sites:

These alternative sites may only be used to replace the Woodland, California site identified above.

1. 1250 East Gibson Road, Woodland, California 95776
2. 3 Main Street, Woodland, California 95695
3. 2020 E. Main Street, Woodland, California 95776

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 agreement amendment.

The Recipient shall:

- Prepare an agreement template outlining the terms and conditions for each site owner to review.
- Initiate and negotiate individually with each site owner and/or site leaseholders on the proposed agreement terms and conditions.
- Execute host site agreements for five selected sites.
- Prepare and submit to the CAM a Site Agreement Notification Report notifying the CAM of the execution of all five host site agreements.

Product:

- Site Agreement Notification Report

Task 3 Site Design and Equipment Installation

The goal of this task is to complete the planning and design necessary to start the construction of the work, purchase materials and equipment, and complete the installation at the five contracted sites in order to place the electric vehicle charging stations into service. The Recipient shall perform the following subtasks to complete this task.

Task 3.1 Site Design and Utility Engineering

The goal of this task is to develop the charging station layouts, design drawings, and coordinate with the local utility for the utility upgrade designs for the five contracted sites.

The Recipient shall:

- Complete architectural/engineering drawings for all five contracted sites.
- Request and finalize a contract with the local utility to design required utility upgrades for each site.
- Develop a plan for signage and request necessary approvals from the local jurisdictions for each site.

- Prepare and submit an Engineering Completion Notification Report notifying the CAM that approval from the local authority with jurisdiction at each contracted site has approved all required permit packages.

Product:

- Engineering Completion Notification Report

Task 3.2 Procurement and Installation

The goal of this task is to purchase materials and equipment necessary to construct each of the sites, and then complete all work necessary to complete the installation at the five contracted sites.

The Recipient shall:

- 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 all five contracted sites.
- Conduct all work necessary to complete installation of electric vehicle charging station equipment and signage at all five contracted sites.
- At two of the contracted sites, install energy storage systems.
- Prepare and submit a Construction Completion Notification Report that documents the successful completion of this task. The report shall include photos of the completed installations for all five contracted sites.

Product:

- Construction Completion Notification Report

[CPR SHALL OCCUR DURING THIS TASK. SEE TASK 1.2 FOR DETAILS.]

Task 3.3 Utility Interconnection

The goal of this task is to work with each site's local utility to complete the electrical equipment upgrades and complete the interconnection at the five contracted sites.

The Recipient shall:

- File a utility interconnection application.
- Conduct site visits with the utility (if necessary).
- Provide single line drawings for the utility.
- Contract with the local utility to perform necessary site upgrades.
- Obtain official utility interconnection.
- Prepare and submit an Interconnection Completion Notification Report to document utility interconnection has been completed for all five contracted sites.

Product:

- Interconnection Completion Notification Report

Task 3.4 Site Commissioning

The goal of this task is to test the charging stations, close punch list items to ensure the site is ready for commercial operation, and provision the charging stations on the network service provider's platform.

The Recipient shall:

- Create a test plan that includes a list of the process to be tested, a description of the facilities, equipment and instrumentation required to conduct the tests, and a description of the test procedures.
- Test equipment to ensure the stations and the ancillary equipment are all operating properly.
- Perform a quality control review of station and equipment operation.
- Prepare a punch list of items that must be completed prior to the stations coming on-line.
- Finalize punch list items.
- Complete installation of signage from on highway and trailblazer signs along road.
- Add station availability to PlugShare once station is fully operational.
- Conduct tests to provision the charging stations on the network service provider's platform.
- Provision the equipment on the network service provider's platform that will use an open communication protocol standard for any communication to or from the charging equipment.
- Prepare and submit a Test Completion Report to confirm the Recipient has completed testing of all equipment for the five contracted sites.

Product:

- Test Completion Report

Task 4 Public Outreach

The goal of this task is to develop an outreach plan for the five contracted sites to increase public knowledge of awareness of the newly installed charging stations.

The Recipient shall:

- Develop an outreach plan for the five contracted sites in the corridor. The plan will include, but is not limited to, media and social media outreach, dedication events with local and state non-governmental organizations stakeholders and government officials, and distributing information about the stations through partners and stakeholders, including the TakeCharge Coordination Council, Sacramento Municipal Utility District, the Plug-in Electric Vehicle Collaborative, University of California Davis, and the University of California Los Angeles Luskin Center.
- Visit auto dealers between Red Bluff and north of Sacramento to ensure their prospective customers are aware of stations along the corridor.
- Prepare and submit Stakeholder Outreach Report documenting the activities and results of this task.

Product:

- Stakeholder Outreach Report

Task 5 Ongoing Operations and Maintenance

The goal of this task is to operate and maintain stations to reduce down time of the charging stations at the five contracted sites.

The Recipient shall:

- Purchase a 5 year maintenance and warranty plan for all charging stations installed at the five contracted sites.
- Dispatch maintenance technicians in a timely manner after a service issue has been reported.
- Provide charging station users with EVgo's 24/7 call center service that will assist users with any technical issues encountered at the stations.
- Operate the network using the network service provider's platform.
- Prepare a Corridor Station Operations Report sent yearly to the CAM through the term of the agreement. The report will include PlugShare data, customer usage data, uptime measures, and additional data as the Energy Commission Requests.

Product:

- Corridor Station Operations Report

Task 6 Data Collection and Analysis

The goal of this task is to collect operational data from the project, to analyze that data for positive economic and environmental effects, and to include the data and analysis in the Final Report.

The Recipient shall:

- Develop a data collection test plan.
- Collect a minimum of 6 months of throughput, usage, and operations data from the project, including but not limited to:
 - Number of charging events (actual and/or estimated) for each charger over a defined period of time.
 - Amount of electricity (actual, averaged, and/or estimated) used per charging event over a defined period of time.
 - Types of users (such as local drivers, commuters, long-distance travelers).
 - Estimated cumulative miles driven per defined period of time.
 - Charging availability (charging units connected to a vehicle vs. time of day).
 - Charging demand (electricity demand vs. time of day).
- Troubleshoot any issues that occurred during the planning of the charging sites, installation of the charging stations, and operation (including maintenance issues) of the chargers.

- Provide a quantified estimate of the project's carbon intensity values for life-cycle greenhouse gas emissions and the methodology used to provide the estimate.
- Compare any expectations provided in the proposal to the Energy Commission with actual project performance and accomplishments.
- Collect data, information, and analysis described above and include in the Final Report.

Products:

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

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: NRG EV SERVICES LLC

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

RESOLVED, that the Energy Commission approves Agreement ARV-15-058 from GFO-15-601 with NRG EV Services LLC for a \$1,449,928 grant to deploy fifteen electric vehicle charging stations (consisting of ten DC fast chargers and five level 2 electric vehicle charging stations) at five sites between Red Bluff and north of Sacramento along Interstate 5); 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 April 13, 2016.

AYE: [List of Commissioners]

NAY: [List of Commissioners]

ABSENT: [List of Commissioners]

ABSTAIN: [List of Commissioners]

Cody Goldthrite,
Secretariat