



STATE OF CALIFORNIA

CONTRACT REQUEST FORM (CRF)

CEC-94 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) New Agreement # 600-22-004 (to be completed by CGL office)

B) Division	Agreement Manager:	MS-	Phone
Fuels and Transportation	Wendell Krell		916-805-7485

C) Contractor's Legal Name	Federal ID #
Department of Energy – Lawrence Berkeley National Laboratory (LBNL)	94-2951741

D) Title of Project
EV Charger Infrastructure Blueprints at Military Bases

E) Term and Amount

Start Date	End Date	Amount
1 / 25 / 2023	1 / 31 / 2025	\$ 1,500,000

F) Business Meeting Information

- Operational agreement (see CAM Manual for list) to be approved by Executive Director
- ARFVTP agreements \$75K and under delegated to Executive Director

Proposed Business Meeting Date 1 / 25 / 2023 Consent Discussion

Business Meeting Presenter Wendell Krell Time Needed: 5 minutes

Please select one list serve. Alt Fuels

Agenda Item Subject and Description:

Proposed resolution approving Agreement 600-22-004 with DOE LBNL for a \$1,500,000 contract to develop six EV charger infrastructure blueprints at California military bases to accelerate the transition to EVs, and adopting staff's determination that this action is exempt from CEQA. (General Fund Funding) Contact: Wendell Krell (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":

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

- a) Agreement **IS** exempt.
 - Statutory Exemption. List PRC and/or CCR section number:
 - Categorical Exemption. List CCR section number: 14 CCR 15306
 - Common Sense Exemption. 14 CCR 15061 (b) (3) Explain reason why Agreement is exempt under the above section:

Cal. Code Regs., tit. 14, sect. 15306 consists of basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. These may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded. The agreement is limited to applied



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research and the creation of EV Charger Infrastructure Blueprints. For these reasons, the proposed project will have no significant effect on the environment and is categorically exempt under section 15306.

The activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. The agreement is limited to applied research and the creation of EV Charger Infrastructure Blueprints. For these reasons, the proposed project falls within the Cal. Code Regs., tit. 14 CCR 15061 (b)(3) Common Sense Exemption.

This project does not involve impacts on any particularly sensitive environment; any cumulative impacts of successive projects of the same type in the same place that might be considered significant; does not involve unusual circumstances that might have a significant effect on the environment; will not result in damage to scenic resources within a highway officially designated as a state scenic highway; the project site is not included on any list compiled pursuant to Government Code section 65962.5, and the project will not cause a substantial adverse change in the significance of a historical resource. Therefore, none of the exceptions to categorical exemptions listed in CEQA Guidelines section 15300.2 apply to this project and this project will not have a significant effect on the environment.

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

Check all that apply

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

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

Legal Company Name:	Budget
N/A	\$ 0.00

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

Legal Company Name:
United States Department of the Navy

J) Budget Information



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Funding Source	Funding Year of Appropriation	Budget List Number	Amount
General Fund	2021-22	601.129 ZEV	\$1,500,000

R&D Program Area: N/A TOTAL: \$1,500,000

Explanation for "Other" selection

Reimbursement Contract #: Federal Agreement #:

K) Contractor's Contact Information

1. Contractor's Administrator/Officer

Name: Monique Fix
Address: 1 Cyclotron Road
City, State, Zip: Berkeley CA 94720
Phone: (510) 486-5068
E-Mail: MFix@lbl.gov

2. Contractor's Project Manager

Name: Doug Black
Address: 1 Cyclotron Road
City, State, Zip: Berkeley CA 94720
Phone: (510) 486-7904
E-Mail: DRBlack@lbl.gov

L) Selection Process Used

- Solicitation Select Type Solicitation #: - - # of Bids: Low Bid No Yes
- Non Competitive Bid (Attach DGS-GSPD-09-007 <https://www.dgs.ca.gov/PD/Forms>)
- Exempt Other Governmental Entity

M) Contractor Entity Type

- Private Company (including non-profits)
- CA State Agency (including UC and CSU)
- Government Entity (i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)

N) Is Contractor a certified Small Business (SB), Micro Business (MB) or DVBE?

If yes, check appropriate box(es): SB MB DVBE

O) Civil Service Considerations

- Not Applicable (Agreement is with a CA State Entity or a membership/co-sponsorship)
- Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)
- The Services Contracted:
 - are not available within civil service
 - cannot be performed satisfactorily by civil service employees
 - are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system.
- The Services are of such an:
 - urgent



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- temporary, or
- occasional nature

that the delay to implement under civil service would frustrate their very purpose.

Justification:

P) Payment Method

1. Reimbursement in arrears based on:
 - Itemized Monthly Itemized Quarterly Flat Rate One-time
2. Advanced Payment
3. Other, explain:

Q) Retention

Is Agreement subject to retention? No Yes

If Yes, Will retention be released prior to Agreement termination? No Yes

R) Justification of Rates

The rates are comparable to engineering rates found in many blueprint development projects funded by the CEC.

S) Disabled Veteran Business Enterprise Program (DVBE)

1. Exempt (Interagency/Other Government Entity)
2. Meets DVBE Requirements DVBE Amount:\$ 0 DVBE %:
 - a. Contractor is Certified DVBE
 - b. Contractor is Subcontracting with a DVBE: Name of DVBE Company
3. Contractor selected through CMAS or MSA with no DVBE participation
4. Requesting DVBE Exemption (attach CEC 95)



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T) Miscellaneous Agreement Information

- 1. Will there be Work Authorizations? No Yes
- 2. Is the Contractor providing confidential information? No Yes
- 3. Is the contractor going to purchase equipment? No Yes
- 4. Check frequency of progress reports
 Monthly Quarterly Other...
- 5. Will a final report be required? No Yes
- 6. Is the Agreement, with amendments, longer than three years? If yes, why? No Yes

U) The following items should be attached to this CRF (as applicable)

- 1. Exhibit A, Scope of Work N/A Attached
- 2. Exhibit B, Budget Detail N/A Attached
- 3. DGS-GSPD-09-007, NCB Request N/A Attached
- 4. CEC 95, DVBE Exemption Request N/A Attached
- 5. CEQA Documentation N/A Attached
- 6. Resumes N/A Attached
- 7. CEC 105, Questionnaire for Identifying Conflicts Attached

Agreement Manager

Date

Office Manager

Date

Deputy Director

Date

Exhibit A SCOPE OF WORK

TASK LIST

Task #	Task Name
1	Agreement Management
2	Cooperative Research and Development Agreement
3	Develop an analytical framework for planning and implementing vehicle electrification at DON bases
4	Develop a core standard document of data requirements for transportation electrification framework
5	Produce electrification blueprint report for each selected Navy base

ACRONYMS

Acronym	Definition
CAM	Commission Agreement Manager
CEC	California Energy Commission
CFE	carbon pollution-free electricity
Contractor	Lawrence Berkeley National Laboratory
CRADA	Cooperative Research and Development Agreement
DER	Distributed energy resources
DoD	Department of Defense
DON	Department of the Navy
EV	electric vehicle
eVMT	Electric Vehicle Mile Traveled
EVSE	electric vehicle supply equipment
LBNL	Lawrence Berkeley National Laboratory
NAVFAC EXWC	Naval Facilities Engineering and Expeditionary Warfare Center
NTV	non-tactical vehicles
POV	privately owned vehicles
PV	Photovoltaic
U.S.	United States
VGI	vehicle-to-grid integration
VMT	vehicle miles traveled
VPP	virtual power plant
TOU	time-of-use

BACKGROUND/PROBLEM STATEMENT

Electrification of non-tactical vehicles (NTV) and privately owned vehicles (POV) present on military bases represents a key efficiency, environmental, and energy security objective for each branch of the United States (U.S.) military.

In June 2022, the U.S. government introduced the “Military Vehicle Fleet Electrification Act” as S.4380 (Act) to help reduce carbon emissions by transitioning the non-tactical fleet of the Department of Defense (DoD) to electric or other zero-emission vehicles. Specifically, the Act

would require at least 75 percent of all non-tactical vehicles – such as cars, vans, and light-duty trucks – purchased or leased by DoD to be electric or zero-emission vehicles that are made in America. Additionally, the legislation authorizes building electric vehicle charging stations and would require the DoD to use only non-proprietary, interoperable charging ports and connectors.

Earlier in 2022, each department released their own climate strategy to proceed toward the government's goal of net-zero greenhouse gas emissions by 2050. Like other departments in the DoD, the U.S. Department of the Navy (DON) released its climate strategy "Climate Action 2030" in May 2022. Specific goals include achieving a 65 percent reduction in greenhouse gas emissions department-wide by 2030 (measured from a 2008 baseline), and 100 percent carbon pollution-free electricity (CFE) by 2030. The DON aims for an all-electric, light-duty, non-tactical vehicle fleet by 2027 and a fully-electric non-tactical fleet by 2035. According to the DON fleet report dashboard, electric vehicle (EV) inventory in reporting year 2021 is 115 units, less than 1 percent of total vehicle inventory.

To help meet State and Federal objectives, the changes required at DON facilities and the funding needed to transition numerous bases that will support the transition of both public and private vehicles to zero emission vehicles must be identified. Contractor will work with the DON through a cooperative research and development agreement (CRADA) with the Naval Facilities Engineering and Expeditionary Warfare Center (NAVFAC EXWC) to develop a standard transportation electrification framework that is tailored to DON bases at the regional level. Contractor will produce blueprints for the electrification of non-tactical transportation for each of six bases in California to be selected by the DON or the U.S. Marine Corps.

GOALS/OBJECTIVES OF THE AGREEMENT

The goals/objectives of this agreement are to create electrification blueprints for three bases chosen by the DON and three bases chosen by the U.S. Marine Corps known as:

- Naval Base San Diego,
- Naval Base Ventura County,
- Naval Air Station Lemoore,
- Marine Corps Base (MCB) Camp Pendleton,
- Marine Corps Air Station Miramar, and
- Marine Corp Air Ground Combat Center 29 Palms.

Additional bases may be added upon mutual written agreement between Contractor and CEC not to exceed the funding limit.

The blueprints will be consistent with the following DON initiative provisions in EO 14057¹:

- Acquiring 100 percent zero-emission vehicles by 2035, including 100 percent zero-emission light-duty vehicle acquisitions by 2027.
- Achieving 100 percent carbon pollution-free electricity by 2030, at least half of which will be locally supplied.

¹ <https://www.epa.gov/greeningepa/eo-14057-catalyzing-clean-energy-industries-and-jobs-through-federal-sustainability>

To develop specific transportation electrification blueprints for each selected DON base, the blueprint report developed by Contractor in cooperation with NAVFAC EXWC will guide DON to make infrastructure improvements to support the transportation electrification requirements of their tenants and civilian and military workforce. More importantly, the blueprint will provide quantitative cost benefit analysis of leveraging innovative technologies in the electrification of transportation infrastructure, particularly those related to vehicle-to-grid integration (VGI), and electric vehicle supply equipment (EVSE)-to-grid.

FORMAT/REPORTING REQUIREMENTS

Deliverables/Reports

When creating reports, the Contractor shall use and follow, unless otherwise instructed in writing by the Commission Agreement Manager (CAM), the latest version of the Consultant Reports Style Manual published on the California Energy Commission's (CEC) web site:

http://www.energy.ca.gov/contracts/consultant_reports/index.html

Each final deliverable shall be delivered as one original, reproducible, 8 ½" by 11", camera-ready master in black ink. Illustrations and graphs shall be sized to fit an 8 ½" by 11" page and readable if printed in black and white.

Electronic File Format

The Contractor shall deliver an electronic copy (CD ROM or as otherwise specified by the CAM) of the full text in a compatible version of Microsoft Word (.doc).

The following describes the accepted formats of electronic data and documents provided to the CEC as contract deliverables and establishes the computer platforms, operating systems and software versions that will be required to review and approve all software deliverables.

- Data sets shall be in Microsoft (MS) Access or MS Excel file format.
- PC-based text documents shall be in MS Word file format.
- Documents intended for public distribution shall be in PDF file format, with the native file format provided as well.
- Project management documents shall be in MS Project file format.

Software Application Development

If this scope of work includes any software application development, including but not limited to databases, websites, models, or modeling tools, contractor shall utilize the following standard Application Architecture components in compatible versions:

- Microsoft ASP.NET framework (version 3.5 and up) Recommend 4.0
- Microsoft Internet Information Services (IIS), (version 6 and up) Recommend 7.5
- Visual Studio.NET (version 2008 and up) Recommend 2010
- C# Programming Language with Presentation (UI), Business Object and Data Layers
- SQL (Structured Query Language)
- Microsoft SQL Server 2008, Stored Procedures Recommend 2008 R2
- Microsoft SQL Reporting Services Recommend 2008 R2
- XML (external interfaces)

Any exceptions to the Software Application Development requirements above must be approved in writing by the Energy Commission Information Technology Services Branch.

TASK 1- AGREEMENT MANAGEMENT

Task 1.1 Kick-off Meeting

The goal of this task is to establish the lines of communication and procedures for implementing this Agreement.

The Contractor shall:

- Attend a “kick-off” meeting with the CAM, the Commission Agreement Officer, and a representative of the CEC Accounting Office. The meeting may be held remotely. The Contractor shall include their Project Manager, Contracts Administrator, Accounting Officer, and others designated by the CAM in this meeting. The administrative and technical aspects of this Agreement will be discussed at the meeting.
- If necessary, prepare an updated Schedule of Deliverables based on the decisions made in the kick-off meeting.

The CAM shall:

- Arrange the meeting including scheduling the date and time.
- Provide an agenda to all potential meeting participants prior to the kick-off meeting.

Deliverables:

- An Updated Schedule of Deliverables (if applicable)

Task 1.2 Invoices

The Contractor shall:

- Prepare invoices for all reimbursable expenses incurred performing work under this Agreement in compliance with the Exhibit B of the Terms and Conditions of the Agreement. Invoices shall be submitted with the same frequency as progress reports (Task 1.4). Invoices must be submitted to the CEC’s Accounting Office.

Deliverables:

- Invoices with progress reports

Task 1.3 Manage Subcontractors

The goal of this task is to ensure quality products, to enforce subcontractor Agreement provisions, and in the event of failure of the subcontractor to satisfactorily perform services, recommend solution to resolve the problem.

The Contractor shall:

- Manage and coordinate subcontractor activities. The Contractor is responsible for the quality of all subcontractor work and the CEC will assign all work to the Contractor. If the Contractor decides to add new subcontractors, they shall 1) comply with the Terms and Conditions of the Agreement, and 2) notify the CAM who will follow the CEC’s process for adding or replacing subcontractors.

Task 1.4 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 Contractor shall:

- Prepare progress reports which summarize all Agreement activities conducted by the Contractor 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 within 15 calendar days after the end of the reporting period. The CAM will provide the format for the progress reports.

Deliverables:

- Quarterly Progress Reports

Task 1.5 Final Report

The goal of this task is to prepare a comprehensive written Final Report that describes the original purpose, approach, results and conclusions of the work completed under this Agreement. The Final Report shall be prepared in language easily understood by the public or layperson with a limited technical background.

The Final Report must be completed before the termination date of the Agreement in accordance with the Schedule of Deliverables.

The Final Report shall be a public document. If the Contractor has obtained confidential status from the CEC and will be preparing both a public and a confidential version of the Final Report, the Contractor shall perform the following for both the public and confidential versions of the Final Report.

The Contractor shall:

- Prepare the draft Final Report for this Agreement in accordance the current CEC style manual and Fuels and Transportation Division procedures provided by the CAM.
- Submit the draft Final Report for review and comment. The CAM will provide written comments to the Contractor. The Contractor shall review the comments and discuss any issues with the recommended changes with the CAM.
- Prepare and submit the Final Report, incorporating CAM comments.

Deliverables:

- Draft Final Report
- Final Report

Task 1.6 Final Meeting

The goal of this task is to discuss closeout of this Agreement and review the project.

The Contractor shall:

- Meet with CEC staff prior to the term end date of this Agreement. The meeting may be held remotely. This meeting will be attended by the Contractor Project Manager and the CAM. The CAM will determine any additional appropriate meeting participants. The administrative and technical aspects of Agreement closeout will be discussed at the meeting.
- Present findings, conclusions, and recommended next steps (if any) for the Agreement, based on the information included in the Final Report.

- Prepare a written document of meeting agreements and unresolved activities.
- Prepare a schedule for completing the closeout activities for this Agreement, based on determinations made within the meeting.
- Prepare a PowerPoint presentation summary of the six blueprints indicating the key points (non-confidential information) and benefits to the Department on Navy.

Deliverables:

- Written documentation of meeting agreements
- Schedule for completing closeout activities
- Host virtual meeting and present PowerPoint presentation summary of the six blueprints indicating the key points (non-confidential information) and benefits to the Department on Navy for CEC staff

TECHNICAL TASKS

Task 2 Cooperative Research and Development Agreement

The goal of this task is to execute a CRADA with the NAVFAC EXWC to develop a standard transportation electrification framework that is tailored to DON bases at the regional level.

The Contractor shall:

- Develop a CRADA scope of work that will facilitate the creation of blueprints for the electrification of non-tactical transportation for each base.
- Ensure that the CRADA scope of work is adequate to gain access and information necessary to draft electrification blueprints commensurate with industry standards and meets the needs of each military base with a region focus.
- Execute the CRADA.

Deliverables:

- A copy of the executed CRADA in electronic form.

Task 3 Develop an analytical framework for planning and implementing vehicle electrification at DON bases

The goal of this task is to develop an analytical framework to undergird the overall blueprint for vehicle electrification at each DON base, with the objective of enabling quantification of the electrification and mission, e.g., mobility, potential impact of any single vehicle or collection of vehicles (e.g. across the entire base). In this framework, Contractor will address the transportation electrification needs by each analytical component.

The Contractor shall:

- Conduct a comprehensive assessment of light-duty, non-tactical vehicle fleet vehicles. Contractor will develop a baseline model of the existing fleet and its operation. Contractor will also collect any available data on commute patterns of POVs at each DON base. Contractor will leverage existing state-of-the-art transportation models such as trip-based and activity-based travel demand models to conduct spatial and temporal estimation of the charging demand needs of fleet EVs and POVs at each DON base.
- Conduct an impacts analysis that will identify and evaluate the impacts of new electric vehicle charging stations on the existing electricity infrastructure.
- Analyze electricity demand impacts from the vehicle electrification at the local utility and grid level. This analysis will provide (1) estimated charging demand both spatially and temporally with estimates of the energy requirements to meet new demands, and (2) quantified benefits in terms of reduced emissions or increased Electric Vehicle Mile Traveled (eVMT) associated with meeting those charging demands.
- Leverage the past project outcomes from CEC-sponsored Alameda Smart Charging for Alameda County (contract EPC-14-057) and Miramar V2G Demonstration (contract 600-13-009) to analyze the impact of transportation electrification grid integration with distributed energy resources (e.g., solar photovoltaic (PV) and battery storage) and building controls such as demand response. This includes:
 - Benefits of managed EV charging and discharging (applicable for bi-directional)
 - Local peak demand shaving/reduction
 - Emergency backup power
 - Utilization of renewable energy sources (e.g., solar PV)
 - Utility and grid services
 - Reduce the operation cost under time-of-use (TOU) or dynamic pricing tariffs
 - Participate in the retail and wholesale market grid services
 - Demand response
 - Energy market participation through virtual power plant (VPP)
 - Frequency regulation service

Deliverables

- Analytical framework for vehicle electrification at each of the six selected DON bases.

Task 4 Develop a core standard document of data requirements for transportation electrification framework

The Contractor shall:

- Develop a core standard document of data requirements that are applicable for each of the selected DON bases. These data requirements will include:
 - Vehicle-related data, including:
 - fleet inventory
 - fleet vehicle travel data

- numbers of POVs and commute distances
 - Electricity infrastructure-related data, including:
 - electrical system drawings
 - existing buildings
 - existing DERs
 - Utility-related data
 - Utility rates
 - Smart meter data
 - Meter data of existing DERs
 - Additional data identified by the model inputs of the framework
- Develop a core standard data model schema to facilitate the site data collection process with the analytic model inputs of the transportation electrification framework. For each data input, Contractor will create a table with the definition of data type and format for data management.

Deliverables:

- Core standard document of data requirements and data model schemas for the analytical framework at each of the six selected DON bases.

Task 5 Produce electrification blueprint report for each selected Navy base

The Contractor shall:

- Collect onsite energy infrastructure related information (e.g., location, capacity) to help understand the connection between distributed renewables, EV charging stations, battery storage, local building and utility electrical infrastructure.
- Collect on-site measurement data including (1) building smart meter data, (2) solar PV power generation data from the meter or smart inverter, (3) EV charging station meter data.
- Use onboard telematics data (if available) to process and analyze fleet manage travel data to determine the vehicle miles traveled (VMT).
- Develop POV data and, with the assistance of NAVFAC EXWC, conduct a survey to estimate the number of POVs that will transition to EVs in the future.
- Conduct the following subtasks for each base: (1) collect data, (2) deploy the analytical framework, and (3) produce the electrification blueprint report.
- Prepare blueprint reports. The primary contents of each blueprint report shall include but not be limited to:
 - Identification of transportation electrification challenges and opportunities with key steps and milestones.
 - Provide an in-depth needs assessment analysis for fleet vehicle and POV charging, evaluation of the impact of the aggregated charging load on existing electricity infrastructure, and provide recommendations of electrification infrastructure upgrade.
 - Provide an in-depth quantitative analysis of the grid impacts by the aggregated charging demand and integration with onsite DERs and building loads.

- Provide an in-depth quantitative analysis of the benefits of, all elements of smart charging, intelligent control strategies in utility and grid service participations.
- Provide an overview of the preliminary considerations for EV infrastructure planning.
- Provide recommendations for further study on the optimal type and placement of EV charging infrastructure.
- Provide economic analysis and recommended business models for POV charging, considering opportunities for DER and energy storage.
- Identification of and recommendations for opportunities to improve facility energy resilience in conjunction with the EVSE infrastructure.
- Evaluation of economic viability and options for POV charging, including operation by third parties
- Transmit blueprints to DON.
- Summarize the six blueprints indicating the key points (non-confidential information) and benefits to the Department on Navy for use at the Final Meeting presentation.

Deliverables:

(Blueprint reports will be distributed to DON, not CEC.)

- DON letter of receipt and acceptance of electrification blueprint report for Marine Corps Base Camp Pendleton.
- DON letter of receipt and acceptance of electrification blueprint report for Marine Corps Air Station Miramar.
- DON letter of receipt and acceptance of electrification blueprint report for Marine Corp Air Ground Combat Center 29 Palms.
- DON letter of receipt and acceptance of electrification blueprint report for Naval Base Ventura County.
- DON letter of receipt and acceptance of electrification blueprint report for Naval Base San Diego.
- DON letter of receipt and acceptance of electrification blueprint report for Naval Air Station Lemoore.

SCHEDULE OF DELIVERABLES AND DUE DATES

Task Number	Deliverable	Due Date
1	Agreement Management	
1.1	An Updated Schedule of Deliverables	If applicable
1.2	Invoices	Advance Payment Agreement
1.3	Manage Subcontractors	N/A
1.4	Quarterly Progress Reports	Quarterly (i.e. 10th day of January, April, July, Oct)
1.5	Final Report	
	Draft Final Report	6/21/2024
	Final Report	9/20/2024
1.6	Final Meeting	10/25/2024
	Written documentation of meeting agreements	Within 10 days of the final meeting
	Schedule for completing closeout activities	Within 10 days of the final meeting
2	Cooperative Research and Development Agreement	
	A copy of the executed CRADA in electronic form	3/31/2023
3	Develop an analytical framework for planning and implementing vehicle electrification at DON bases	
	Analytical framework for vehicle electrification at each of the six selected DON bases	5/5/2023
4	Develop a core standard document of data requirements for transportation electrification framework	
	Core standard document of data requirements and data model schemas for the analytical framework for each of the six selected DON bases	5/5/2023
5	Produce electrification blueprint report for each selected Navy base	
	DON letter of receipt for electrification blueprint report for Marine Corps Base Camp Pendleton	11/17/2023
	DON letter of receipt for electrification blueprint report for Marine Corps Air Station Miramar	11/17/2023
	DON letter of receipt for electrification blueprint report for Marine Corp Air Ground Combat Center 29 Palms	2/16/2024
	DON letter of receipt for electrification blueprint report for Naval Base Ventura County	2/16/2024
	DON letter of receipt for electrification blueprint report for Naval Base San Diego	5/17/2024
	DON letter of receipt for electrification blueprint report for Naval Air Station Lemoore	5/17/2024

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: DOE-Lawrence Berkeley National Laboratory

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 600-22-004 with DOE-Lawrence Berkeley National Laboratory for a \$1,500,000 contract to develop six EV charger infrastructure blueprints at California military bases to accelerate the transition to EVs; 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 January 25, 2023.

AYE:
NAY:
ABSENT:
ABSTAIN:

Dated:

Liza Lopez
Secretariat