



STATE OF CALIFORNIA

GRANT REQUEST FORM (GRF)

CEC-270 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) New Agreement # ARV-21-012 (to be completed by CGL office)

| B) Division | Agreement Manager: | MS- | Phone |
|---------------------------------------|---------------------------|------------|--------------|
| 600 Fuels and Transportation Division | Matthew Kozuch | 27 | 916-477-1564 |

| C) Recipient's Legal Name | Federal ID # |
|----------------------------------|---------------------|
| Kern Council of Governments | 90-0419326 |

| D) Title of Project |
|---|
| Kern Medium- and Heavy-Duty Zero Emission Infrastructure Blueprint Plan |

E) Term and Amount

| Start Date | End Date | Amount |
|-------------------|-----------------|---------------|
| 07 / 15 / 2021 | 03 / 31 / 2023 | \$ 199,929 |

F) Business Meeting Information

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

Proposed Business Meeting Date 07 / 15 / 2021 ☐ Consent ☒ Discussion

Business Meeting Presenter Kate Reid Time Needed: 5 minutes

Please select one list serve. Altfuels (AB118- ARFVTP)

Agenda Item Subject and Description:

Kern Council of Governments. Proposed resolution approving Agreement ARV-21-012 with Kern Council of Governments for a \$199,929 grant to develop a "blueprint" for MD/HD zero emission truck infrastructure that will identify major gaps in infrastructure for zero emission trucks and buses, community needs, available technology solutions, and ultimately a set of high-impact 'shovel-ready' infrastructure projects necessary for progress, and adopting staff's determination that this action is exempt from CEQA. (Clean Transportation Program funding.) Contact: Matthew Kozuch. (Staff Presentation: 5 minutes)

G) California Environmental Quality Act (CEQA) Compliance

1. Is Agreement considered a "Project" under CEQA?

☒ Yes (skip to question 2) ☐ No (complete the following (PRC 21065 and 14 CCR 15378)):

Explain why Agreement is not considered a "Project":

Agreement will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because

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

a) ☒ Agreement **IS** exempt.

☐ Statutory Exemption. List PRC and/or CCR section number:

☒ Categorical Exemption. List CCR section number: Cal. Code Regs., tit. 14, § 15306

☐ Common Sense Exemption. 14 CCR 15061 (b) (3) Explain reason why Agreement is exempt under the above section: Cal. Code Regs, tit. 14, §15306, Information Collection, provides that projects which consist of basic data collection, research and resource evaluation activities which do not result in a



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serious or major disturbance to an environmental resource are categorically exempt from the provisions of CEQA. This project consists of developing a planning document for possible, future deployment of zero emission vehicles and related infrastructure equipment. The project will not cause direct physical changes to the environment, and there will be no physical construction. This project involves data collection, technology assessment, public outreach, administrative coordination efforts, planning, and similar activities. Therefore, the proposed project will have no significant effect on the environment and is categorically exempt under section 15306.

- 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 |
|-----------------------------------|---------------|
| Gladstein, Neandross & Associates | \$ 177,334.00 |
| | \$ 0.00 |
| | \$ 0.00 |

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

| |
|---------------------|
| Legal Company Name: |
| |
| |
| |

J) Budget Information

| Funding Source | Funding Year of Appropriation | Budget List Number | Amount |
|----------------|-------------------------------|--------------------|-----------|
| ARFVTP | FY 19/20 | 601.118L | \$199,929 |
| Funding Source | | | \$ |
| Funding Source | | | \$ |
| Funding Source | | | \$ |
| Funding Source | | | \$ |

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

Explanation for "Other" selection

Reimbursement Contract #:

Federal Agreement #:

**GRANT REQUEST FORM (GRF)****K) Recipient's Contact Information****1. Recipient's Administrator/Officer**

Name: Ahron Hakimi

Address: 1401 19th Street, Suite
300City, State, Zip: Bakersfield, CA
93301

Phone: (661)-635-2901

E-Mail: AHakimi@kerncog.org

2. Recipient's Project Manager

Name: Linda Urata

Address: 1401 19th Street, Suite
300City, State, Zip: Bakersfield, CA
93301

Phone: (661)-635-2904

E-Mail: Lurata@kerncog.org

L) Selection Process Used☒ Competitive Solicitation Solicitation #: GFO-20-601☐ First Come First Served Solicitation Solicitation #: - -**M) The following items should be attached to this GRF**

1. Exhibit A, Scope of Work
2. Exhibit B, Budget Detail
3. CEC 105, Questionnaire for Identifying Conflicts
4. Recipient Resolution
5. CEQA Documentation

☒ N/A☒ N/A☒ Attached☒ Attached☒ Attached☐ Attached☐ AttachedMatthew Kozuch**Agreement Manager**06-17-21**Date**Elizabeth John**Office Manager**6/17/2021**Date**John Butler II**Deputy Director**6/18/2021**Date**

Exhibit A
SCOPE OF WORK
Kern Council of Governments

TECHNICAL TASK LIST

| Task # | CPR | Task Name |
|---------------|------------|---|
| 1 | | Administration |
| 2 | | Stakeholder Engagement |
| 3 | X | Conduct Site Analysis and Develop Implementation Plan |
| 4 | | Technology Analysis |
| 5 | | Blueprint Plan Research |
| 6 | | Project Fact Sheet |
| 7 | | Blueprint |

KEY NAME LIST

| Task # | Key Personnel | Key Subcontractor(s) | Key Partner(s) |
|---------------|--|---|---|
| 1 | Linda Urata - Kern Council of Governments (Kern) | Gladstein, Neandross & Associates (GNA) | |
| 2 | Linda Urata - Kern | GNA | Amazon, Asthma Collaborative, Bakersfield City School District, Frito Lay, GET, Watt EV |
| 3 | Linda Urata - Kern | GNA | Amazon, Asthma Collaborative, Bakersfield City School District, Frito Lay, GET, Watt EV |
| 4 | Linda Urata - Kern | GNA | Amazon, Asthma Collaborative, Bakersfield City School District, Frito Lay, GET, Watt EV |
| 5 | Linda Urata - Kern | GNA | Amazon, Asthma Collaborative, Bakersfield City School District, Frito Lay, GET, Watt EV |
| 6 | Linda Urata - Kern | GNA | |
| 7 | Linda Urata – Kern | GNA | |

GLOSSARY

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

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| Term/Acronym | Definition |
|------------------------------|---|
| CAM | Commission Agreement Manager |
| CAO | Commission Agreement Officer |
| CBO | Community-Based Organizations |
| CEC | California Energy Commission |
| Clean Transportation Program | Formerly known as the Alternative and Renewable Fuel and Vehicle Technology Program |
| CPR | Critical Project Review |
| DAC | Disadvantaged Community |
| FTD | Fuels and Transportation Division |
| GHG | Greenhouse Gas |
| GIS | Geographic Information Systems |
| GNA | Gladstein, Neandross & Associates |
| IWG | Informal Working Group |
| MD/HD | Medium- and Heavy-Duty |
| OEM | Original Equipment Manufacturer |
| Project Stakeholder | A Public or Private Agency or Fleet hosting a project site identified for plan implementation |
| Recipient | Kern Council of Governments |
| VGI | Vehicle-Grid Integration |
| ZEV | Zero-Emission Vehicle |

BACKGROUND

Assembly Bill (AB) 118 (Núñez, Chapter 750, Statutes of 2007), created the Clean Transportation Program (formerly known as the Alternative and Renewable Fuel and Vehicle Technology Program). The statute authorizes the California Energy Commission (CEC) to develop and deploy alternative and renewable fuels and advanced transportation technologies to help attain the state's climate change policies. AB 8 (Perea, Chapter 401, Statutes of 2013) re-authorizes the Program through January 1, 2024, and specifies that the CEC allocate up to \$20 million per year (or up to 20 percent of each fiscal year's funds) in funding for hydrogen station development until at least 100 stations are operational. The Clean Transportation Program has an annual budget of approximately \$100 million and provides financial support for projects that:

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- Reduce California's use and dependence on petroleum transportation fuels and increase the use of alternative and renewable fuels and advanced vehicle technologies.
- Produce sustainable alternative and renewable low-carbon fuels in California.
- Expand alternative fueling infrastructure and fueling stations.
- Improve the efficiency, performance, and market viability of alternative light-, medium-, and heavy-duty vehicle technologies.
- Retrofit medium- and heavy-duty on-road and non-road vehicle fleets to alternative technologies or fuel use.
- Expand the alternative fueling infrastructure available to existing fleets, public transit, and transportation corridors.
- Establish workforce training programs and conduct public outreach on the benefits of alternative transportation fuels and vehicle technologies.

The CEC issued GFO-20-601 entitled "Blueprints for Medium- and Heavy-Duty Zero-Emission Vehicle Infrastructure" under the CEC's Clean Transportation Program. To be eligible for funding under GFO-20-601, projects must also be consistent with the CEC's current Clean Transportation Program Investment Plan, updated annually. In response to GFO-20-601, the Recipient submitted Proposal #16, which was proposed for funding in the CEC's Notice of Proposed Awards on April 8, 2021. GFO-20-601 is hereby incorporated by reference into this Agreement in their entirety.

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

Problem Statement

The Kern region is challenged by poor air quality and a prevalence of disadvantaged communities (DACs). Many state and regional incentive programs for trucks and infrastructure are under-subscribed due in part to a lack of planning support for medium- and heavy-duty (MD/HD) zero-emission infrastructure. Despite the advancement of MD/HD zero-emission technology, no planning agency or private entity in the Kern region has yet undertaken the task of developing a blueprint for MD/HD zero-emission infrastructure. The development of a blueprint plan is necessary for the deployment of zero-emission trucks not just in the Kern region, but also along the freight corridors that transect the region as well. This type of planning requires significant engagement from community, private, and public stakeholders.

Goal of the Agreement

The goal of this project is to encourage the deployment of successful MD/HD zero-emission vehicle infrastructure through a blueprint document that thoroughly describes major gaps in infrastructure for zero-emission trucks, community needs, available technology solutions, and ultimately actionable infrastructure project plans necessary for progress. The project team and its partners will leverage their deep expertise and networks to reduce barriers to clean transportation technologies among small fleet operators and consumers in disadvantaged communities (DACs).

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Objectives of the Agreement

The objectives of this project are to support the deployment of successful MD/HD ZEV infrastructure through regional ZEV infrastructure planning. This planning will identify high-impact projects for prioritization, show how resources can be focused on these initiatives, and identify other needed actions, such as workforce development to enable the deployment of zero-emission trucks. Specifically, the project team will:

- Create and leverage an Informal Working Group comprised of diverse stakeholders.
- Develop a final list of high priority projects and implementation plans for each of those sites.
- Analyze available and future infrastructure technologies and document them in the Final Technology Analysis Report.
- Complete memoranda on additional project tasks (i.e. workforce development training, benefits to DACs, safety plans).
- Create Final Project Fact Sheet describing the project, actual benefits resulting from the project, and lessons learned from implementing the project.
- Produce the Final Blueprint which will include information and findings gathered in all the previous tasks.

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

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- An updated Schedule of Products and Due Dates
- Monthly Progress Reports (Task 1.4)
- Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)
- Final Report (Task 1.5)

Recipient Products:

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

Commission Agreement Manager Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

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

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

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

The CAM shall:

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

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The Recipient shall:

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

CAM Products:

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

Recipient Product:

- CPR Report(s)

Task 1.3 Final Meeting

The goal of this task is to closeout this Agreement.

The Recipient shall:

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

This meeting will be attended by, at a minimum, the Recipient, the Commission Grants Office Officer, and the CAM. The technical and administrative aspects of Agreement closeout will be discussed at the meeting, which may be two separate meetings at the discretion of the CAM.

The technical portion of the meeting shall present an assessment of the degree to which project and task goals and objectives were achieved, findings, conclusions, recommended next steps (if any) for the Agreement, and recommendations for improvements. The CAM will determine the appropriate meeting participants.

The administrative portion of the meeting shall be a discussion with the CAM and the Grants Officer about the following Agreement closeout items:

- What to do with any equipment purchased with CEC funds (Options)
- CEC request for specific "generated" data (not already provided in Agreement products)
- Need to document Recipient's disclosure of "subject inventions" developed under the Agreement
- "Surviving" Agreement provisions
- Final invoicing and release of retention

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- 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.

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

The Recipient shall:

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

Products:

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

Task 1.6 Identify and Obtain Matching Funds

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

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

The Recipient shall:

- Prepare a letter documenting the match funding committed to this Agreement and submit it to the CAM at least 2 working days prior to the kick-off meeting. If no match funds were part of the proposal that led to the CEC awarding this Agreement and none have been identified at the time this Agreement starts, then state such in the letter. If match funds were a part of the proposal that led to the CEC awarding this Agreement, then provide in the letter a list of the match funds that identifies the:
 - Amount of each cash match fund, its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied.

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- Amount of each in-kind contribution, a description, documented market or book value, and its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied. If the in-kind contribution is equipment or other tangible or real property, the Recipient shall identify its owner and provide a contact name, address and telephone number, and the address where the property is located.
- Provide a copy of the letter of commitment from an authorized representative of each source of cash match funding or in-kind contributions that these funds or contributions have been secured. For match funds provided by a grant a copy of the executed grant shall be submitted in place of a letter of commitment.
- Discuss match funds and the implications to the Agreement if they are reduced or not obtained as committed, at the kick-off meeting. If applicable, match funds will be included as a line item in the progress reports and will be a topic at CPR meetings.
- Provide the appropriate information to the CAM if during the course of the Agreement additional match funds are received.
- Notify the CAM within 10 days if during the course of the Agreement existing match funds are reduced. Reduction in match funds must be approved through a formal amendment to the Agreement and may trigger an additional CPR meeting.

Products:

- A letter regarding match funds or stating that no match funds are provided
- Copy(ies) of each match fund commitment letter(s) (if applicable)
- Letter(s) for new match funds (if applicable)
- Letter that match funds were reduced (if applicable)

Task 1.7 Identify and Obtain Required Permits

The goal of this task is to obtain all permits required for work completed under this Agreement in advance of the date they are needed to keep the Agreement schedule on track.

Permit costs and the expenses associated with obtaining permits are not reimbursable under this Agreement. Although the CEC budget for this task will be zero dollars, the Recipient shall budget match funds for any expected expenditures associated with obtaining permits. Permits must be identified in writing and obtained before the Recipient can make any expenditure for which a permit is required.

The Recipient shall:

- Prepare a letter documenting the permits required to conduct this Agreement and submit it to the CAM at least 2 working days prior to the kick-off meeting. If there are no permits required at the start of this Agreement, then state such in the letter. If it is known at the beginning of the Agreement that permits will be required during the course of the Agreement, provide in the letter:
 - A list of the permits that identifies the:

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- Type of permit
- Name, address and telephone number of the permitting jurisdictions or lead agencies
- The schedule the Recipient will follow in applying for and obtaining these permits.
- Discuss the list of permits and the schedule for obtaining them at the kick-off meeting and develop a timetable for submitting the updated list, schedule and the copies of the permits. The implications to the Agreement if the permits are not obtained in a timely fashion or are denied will also be discussed. If applicable, permits will be included as a line item in the Progress Reports and will be a topic at CPR meetings.
- If during the course of the Agreement additional permits become necessary, provide the appropriate information on each permit and an updated schedule to the CAM.
- As permits are obtained, send a copy of each approved permit to the CAM.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the CAM within 5 working days. Either of these events may trigger an additional CPR.

Products:

- Letter documenting the permits or stating that no permits are required
- A copy of each approved permit (if applicable)
- Updated list of permits as they change during the term of the Agreement (if applicable)
- Updated schedule for acquiring permits as changes occur during the term of the Agreement (if applicable)
- A copy of each final approved permit (if applicable)

Task 1.8 Obtain and Execute Subcontracts

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

The Recipient shall:

- Manage and coordinate subcontractor activities
- Submit a draft of each subcontract required to conduct the work under this Agreement to the CAM for review.
- Submit a final copy of the executed subcontract.
- If Recipient decides to add new subcontractors, then the Recipient shall notify the CAM.

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Products:

- Letter describing the subcontracts needed, or stating that no subcontracts are required
- Draft subcontracts
- Final subcontracts

TASK 2 STAKEHOLDER ENGAGEMENT

The goal of this task is to minimize the risks and uncertainties surrounding the design, permitting, planning, and financing of the ZEV infrastructure network through engagement. The project team will engage with a variety of project stakeholders to ensure that the plan and its recommendations are aligned with community needs and opportunities. These project stakeholders include, but are not limited to, fleet and facility owners, utilities, community-based organizations, local businesses, financial institutions, and other planning organizations.

The Recipient shall:

- Develop a Stakeholder Engagement Plan Schedule and provide a copy to the CAM.
- Identify and secure the members of an Informal Working Group (IWG) that will gather input from stakeholders and non-project participants.
- Identify appropriate stakeholders involved in project implementation and validate lists with the CAM.
- Provide a List of IWG Members including utilities, local jurisdictions, regional businesses, CBOs, financial institutions, etc. to the CAM.
- Produce educational materials and presentations to be used during engagement with stakeholder groups. Provide a copy to the CAM.
- Engage local utilities to support grid delivery, reliability, and resiliency and to address impacts of increased charging on utility rates.
- Verify identified charging sites with utility groups to identify any additional risks or concerns.
- Engage local jurisdictions and planning organizations to ensure participation in the planning and permitting of the ZEV infrastructure.
- Engage regional workplaces, business owners, and operators in the planning process and education on the benefits of ZEV transportation.
- Engage regional community-based organizations (CBOs), community leaders, California Native American Tribes, and potentially affected local residents in the planning process and education on the benefits of ZEV transportation. With regional organizations, determine if a community needs assessment is warranted and develop an appropriate scope if necessary.
- Engage financial institutions to ensure they are educated, involved, and committed to participate in the implementation of the MD/HD ZEV infrastructure blueprint.

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- Produce a summary of stakeholder engagement meetings and listening sessions. Provide a copy to the CAM.
- Develop a Memorandum on Findings from stakeholder engagement meetings, which will include but is not limited to community preferences and priorities.

Products:

- Stakeholder Engagement Plan Schedule
- List of IWG Members
- Educational materials and presentations
- Summaries from stakeholder engagement meetings and listening sessions
- Memorandum on Findings from stakeholder engagement meetings

TASK 3 CONDUCT SITE ANALYSIS AND DEVELOP IMPLEMENTATION PLAN

Task 3.1 Identify Infrastructure Sites

The goal of this task is to confirm a list of high-priority projects for inclusion in the Blueprint plan. Stakeholder Engagement (Task 2) will establish an IWG to provide input to the plan development. Working with an IWG that includes project stakeholders, the project team will develop a list of criteria and methodology to select projects for inclusion in the plan. These criteria will be used to rank the potential projects already identified for inclusion in the proposal.

The Recipient shall:

- Develop a set of criteria to rank site locations for optimal ZEV infrastructure use. These criteria will consider vehicle usage, goods movement corridors, accessibility, type of infrastructure, and other factors for successful use of ZEV infrastructure.
- Provide the List of Criteria used to assess projects to the CAM.
- Coordinate with the IWG and CAM to review selected criteria for accuracy and revise, as necessary.
- Meet with Kern region fleets.
- Develop a List of High Priority Projects with IWG. Reconfirm high priority projects in the region based on criteria.
- Provide a copy of the List of High Priority Projects to the CAM.

Products:

- List of Criteria
- List of High Priority Projects

Task 3.2 Analyze Infrastructure Sites and Develop Site Implementation Plans

The goal of this task is to conduct site analysis for each of the previously identified priority projects in the Kern region and identify the actions and milestones needed to deploy ZEV infrastructure at the priority projects. The project team will assess projects through site visits and remote desktop analysis. Site analysis will detail community benefits, emissions reductions, site specific installation schedules, and cost estimates. Findings will be documented in an

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implementation plan, which will be the primary deliverable for this subtask and later integrated into the Final Blueprint (Task 7).

The Recipient shall:

- Visit priority locations to confirm project feasibility.
- Assess sites and projects to create cost estimates. Provide a copy of documentation used in site analysis, including GIS maps, graphics, and tables, to the CAM.
- Use trip data/telematics to analyze driving patterns, vehicle usage, electric charging and/or hydrogen refueling needs. Provide a copy of vehicle usage/infrastructure usage projections to the CAM.
- Conduct analysis to maximize and optimize type and placement of ZEV infrastructure to support the MD/HD ZEVs. Provide a copy to the CAM.
- Conduct analysis of cost estimates for priority projects of ZEV infrastructure to support the MD/HD ZEVs. Provide a copy of cost estimates for priority projects to the CAM.
- Develop quantitative goals and specific realistic timelines for installation and implementation of MD/HD electric vehicle charging and hydrogen fueling infrastructure. Provide the final list of quantitative goals and timelines for installation and implementation to the CAM.
- Document findings into Implementation Plan(s) for each identified optimal location for MD/HD ZEV electric charging and hydrogen fueling infrastructure. Provide copies to the CAM.

Products:

- Documentation used in site analysis
- Vehicle usage/infrastructure usage projections
- Optimization analysis for priority projects
- Cost estimates for priority projects
- Final list of quantitative goals and timelines for installation and implementation
- Implementation Plan(s)

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

TASK 4 TECHNOLOGY ANALYSIS

The goal of this task is to analyze available technologies and systems to determine the best options with regards to economic, environmental, and technical performance in the Kern region. The project team will leverage existing industry technology working groups to complete this assessment. This will include Kern-specific participants and non-Kern participants in order to gather technology information from project partners such as OEMs and large fleets that may not be necessarily domiciled within Kern County, but whose transportation interests and operations transect the area.

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The Recipient shall:

- Explore innovative MD/HD electric charging and hydrogen refueling options to address potential infrastructure barriers. Technology options may include wireless charging, high-powered charging, overhead catenary systems, solar chargers, robotic chargers, mobile chargers/refuelers, curbside, streetlamp, and intersection chargers, or autonomous garages.
- Assess appropriate Vehicle-Grid Integration (VGI) standards and open standards-based network communications.
 - Assess the ability to support emerging connectors and/or interfaces for heavy-duty vehicles, open standards-based network communications, the inclusion of appropriate VGI standards, and/or other methods for enhancing grid-reliability by providing data to utilities to predict charging behavior and associated impacts on the grid.
 - Assess how the project integrates energy storage for the electricity grid or uses curtailed or dedicated renewable energy as a source for production of renewable hydrogen.
- Assess the use of interoperable MD/HD charging connectors and/or charging interfaces compatible with MD/HD vehicles sold by multiple original automotive equipment manufacturers for widespread use across California and North America.
- Provide data to utilities to predict charging behavior and associated impacts on the grid to assess grid-reliability.
- Leverage industry working groups to analyze and provide input on findings.
- Draft a Technology Analysis Report based on findings from previous tasks and technology analysis regarding infrastructure barriers, VGI standards, energy storage, charging compatibility, connected tech, charging behavior, grid reliability, and others.

Products:

- Technology Analysis Report

TASK 5 ADDITIONAL RESEARCH FOR BLUEPRINT PLAN

The goal of this task is to conduct all additional research necessary to prepare a successful and comprehensive Blueprint. The project team will research regional EV charging policies (permitting), safety plan requirements, improvements to regional infrastructure planning, ways of replicating this project in other jurisdictions, workforce development strategies, job creation benefits, economic benefits, emissions goals and benefits, and benefits to DACs, low-income communities, priority populations, and tribal lands. Findings and analysis for each of these topics will be summarized in memoranda and integrated into the final Blueprint Plan.

The Recipient shall:

- Document actions or steps already adopted by the local jurisdiction and the impact of those actions or steps on the development of future MD/HD ZEV infrastructure.

Exhibit A
SCOPE OF WORK
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- Produce a Memorandum on Actions Taken by Local Jurisdictions and Results and provide a copy to the CAM.
- Identify steps already taken or that will need to be taken to ensure a safety plan is in place for needed hydrogen refueling infrastructure. This may include, but is not limited to, coordination with the Pacific Northwest National Laboratory's or the Center for Hydrogen Safety's Hydrogen Safety Panel.
- Produce a Memorandum on Safety Plan for Hydrogen Infrastructure for Local Jurisdictions and provide a copy to the CAM.
- Identify analytical tools, software applications, and data needed to improve future MD/HD ZEV infrastructure planning activities.
- Produce a Memorandum of Identified Tools/Data to Improve Infrastructure Planning Activities and provide a copy to the CAM.
- Identify each task or area of responsibility required of the project partners and stakeholder groups to develop a replicable approach for other fleets transitioning to zero-emission technologies.
- Produce a Memorandum on How Other Regional Governments Can Replicate the Blueprint and provide a copy to the CAM.
- Develop an outreach strategy tailored to the local community, supported by education and outreach materials appropriate for potentially affected residents, in the languages needed for the community, to educate on the planning efforts and potential future impacts.
- Produce an Outreach Strategy Memorandum for Local Communities, including local community engagement to communicate project activities and future impacts and provide a copy to the CAM.
- Work with community colleges, CBOs, and community leaders to develop workforce development strategies that will enable training, education, and readiness for the local community workforce to obtain the requisite knowledge, skills, and ability to develop, support, and maintain the MD/HD ZEV fleets.
- Produce a Workforce Development Strategy Memorandum for local community workforce and provide a copy to the CAM.
- Summarize the types of jobs that will be created for the local community.
- Produce a Memorandum on Future Job Types Created and provide a copy to the CAM.
- Produce a Workforce Development Strategies Memorandum for local community workforce and provide a copy to the CAM.
- Identify goals to reduce greenhouse gas (GHG) emissions, criteria air pollutants, and toxic air contaminants for the region, and the emitters at the local level that would need to be targeted.
- Produce a Memorandum on GHG and Other Air Toxins Reduction Goals and provide a copy to the CAM.

Exhibit A
SCOPE OF WORK
Kern Council of Governments

- Identify the benefits that would accrue to DACs, low-income communities, priority populations, and/or tribal lands to the maximum extent possible. Address health and safety, access and education, financial benefits, economic development, and consumer protection.
- Produce a Memorandum on Benefits to DACs, Low-income Communities, and Other At-risk Communities and provide a copy to the CAM.

Products:

- Memorandum on Actions Taken by Local Jurisdictions and Results
- Memorandum on Safety Plan for Hydrogen Infrastructure for Local Jurisdictions
- Memorandum of Identified Tools/Data to Improve Infrastructure Planning Activities
- Memorandum on How Other Regional Governments Can Replicate the Blueprint
- Outreach Strategy Memorandum
- Workforce Development Strategy Memorandum
- Memorandum on Future Job Types Created
- Memorandum on GHG and Other Air Toxins Reduction Goals
- Memorandum on Benefits to DACs, Low-income Communities, and Other At-risk Communities

TASK 6 PROJECT FACT SHEET

The goal of this task is to develop an initial and final project fact sheet that describes the CEC-funded project and the benefits resulting from the project for the public and key decision makers. The fact sheet will be reviewed by project stakeholders and community members for successful development and distribution.

The Recipient shall:

- Prepare an Initial Project Fact Sheet at start of the project that describes the project and the expected benefits. Use the format provided by the CAM.
- Prepare a Final Project Fact Sheet at the project's conclusion that describes the project, the actual benefits resulting from the project, and lessons learned from implementing the project. Use the format provided by the CAM.
- Provide at least six High Quality Digital Photographs (minimum resolution of 1300x500 pixels in landscape ratio) from the project.

Products:

- Initial Project Fact Sheet
- Final Project Fact Sheet
- A minimum of six High Quality Digital Photographs

TASK 7 BLUEPRINT

The goal of this task is to produce a comprehensive *Kern County Blueprint for MD/HD ZEV Infrastructure*. This plan will include information and findings gathered in all the previous tasks.

Exhibit A
SCOPE OF WORK
Kern Council of Governments

The Blueprint will include not just detailed and actionable plans for ZEV MD/HD electric charging and/or hydrogen refueling infrastructure but will also address other concerns as described in previous tasks, including recommendations and analysis for workforce development training, safety plans, previous actions taken by Local Jurisdictions, benefits to DACs, future job opportunities, etc. The Blueprint will be a comprehensive resource not just for fleet and facility owners involved in the project themselves but the community at large, as it will also function as a regional planning document. The Blueprint will include in its appendices example project materials such as schedules, outlines, and important presentations for other jurisdictions to rapidly replicate this effort as well.

The Recipient shall:

- Compile all reports and memoranda from the previous tasks into a draft Blueprint plan.
- Submit the draft Blueprint plan for stakeholder working group feedback.
- Integrate feedback and check back in with stakeholders as necessary.
- Submit draft and final Blueprints to the CAM for feedback and approval.
- Revise draft and final Blueprints as necessary based on CAM feedback.

Products:

- Outline of Blueprint
- Draft Blueprint
- Final Blueprint

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: KERN COUNCIL OF GOVERNMENTS

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 ARV-21-012 with Kern Council of Governments for a \$199,929 grant to develop a blueprint for MD/HD zero emission truck infrastructure that will identify major gaps in infrastructure for zero emission trucks and buses, community needs, available technology solutions, and ultimately a set of high-impact “shovel-ready” infrastructure projects necessary for progress; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her 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 July 15, 2021.

AYE:

NAY:

ABSENT:

ABSTAIN:

Liza Lopez
Secretariat