



STATE OF CALIFORNIA

**GRANT REQUEST FORM (GRF)**

CEC-270 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

**A) New Agreement # ARV-21-035** (to be completed by CGL office)

<b>B) Division</b>	<b>Agreement Manager:</b>	<b>MS-</b>	<b>Phone</b>
600 Fuels and Transportation Division	Natarajan "Raja" Ramesh	27	240-586-0724

<b>C) Recipient's Legal Name</b>	<b>Federal ID #</b>
The Redwood Coast Energy Authority	74-3104616

<b>D) Title of Project</b>
North Coast MD/HD ZEV Readiness Blueprint

**E) Term and Amount**

<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
09/ 08/ 2021	3 / 31 / 2024	\$ 200,000

**F) Business Meeting Information**

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

Proposed Business Meeting Date 9 / 8 / 2021 ☐ Consent ☒ Discussion

Business Meeting Presenter Kathryn Reid Time Needed: 5 minutes

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

**Agenda Item Subject and Description:**

THE REDWOOD COAST ENERGY AUTHORITY. Proposed resolution approving Agreement ARV-21-035 with the Redwood Coast Energy Authority for a \$200,000 grant to develop a blueprint to identify actions and milestones needed for deployment of MD/HD ZEVs and related charging and hydrogen refueling infrastructure in Humboldt County and surrounding areas, and adopting staff's determination that this action is exempt from CEQA.

**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, section 15306

☐ Common Sense Exemption. 14 CCR 15061 (b) (3)

Explain reason why Agreement is exempt under the above section:

b) ☐ The project will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because it is for a paper study and computational analyses, encompassing basic data collection, research, experimental management, and resource evaluation activities that do not result in major disturbances to an environmental resource.

Agreement **IS NOT** exempt. (consult with the legal office to determine nextsteps)

Check all that apply



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- ☐ 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
Schatz Energy Research Center	\$ 49,995.00
	\$
	\$

**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	\$200,000
Funding Source			\$
Funding Source			\$
Funding Source			\$
Funding Source			\$

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

Explanation for "Other" selection

Reimbursement Contract #:

Federal Agreement #:

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

Name: Matthew Marshall  
Address: 633 3rd St  
City, State, Zip: Eureka, CA, 95501  
Phone: (707) 269 -1700  
E-Mail:  
mmarshall@redwoodenergy.org

**2. Recipient's Project Manager**

Name: Lee Valenzuela  
Address: 633 3rd St  
City, State, Zip: Eureka, CA, 95501  
Phone: (707) 269 -1700  
E-Mail:  
lvalenzuela@redwoodenergy.org

**L) Selection Process Used**



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## GRANT REQUEST FORM (GRF)

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CALIFORNIA ENERGY COMMISSION

- ☒ 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                         | <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 checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |

Natarajan Ramesh  
**Agreement Manager**

06/25/2021  
**Date**

Charles Smith  
**Office Manager**

7/28/2021  
**Date**

John Butler II  
**Deputy Director**

7/30/2021  
**Date**

## Exhibit A SCOPE OF WORK

### TECHNICAL TASK LIST

Task #	CPR	Task Name
1		Administration
2	X	North Coast MD/HD ZEV Readiness Plan Development
3		Project Fact Sheet
4		Blueprint

### KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	RCEA team (Lee Valenzuela, Aisha Cissna, Nancy Stephenson, Magdalena Means, Lexie Fischer)	Schatz Energy Research Center team	

### GLOSSARY

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

Term/ Acronym	Definition
CAM	Commission Agreement Manager
CAO	Commission Agreement Officer
CEC	California Energy Commission
Clean Transportation Program	Formerly known as Alternative and Renewable Fuel and Vehicle Technology Program
CPR	Critical Project Review
EVCS	Electric Vehicle Charging Station
FTD	Fuels and Transportation Division
HD	Heavy-Duty
MD	Medium-Duty
OPR	Office of Planning and Research
Recipient	The Redwood Coast Energy Authority
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:

- 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 #32, which was proposed for funding in the CEC's Notice of Proposed Awards on April 8, 2021. GFO-20-601 and Proposal #32 are hereby incorporated by reference into this Agreement in their entirety.

In the event of any conflict or inconsistency between the terms of the Solicitation and the terms of the Recipient's Application, the Solicitation shall control. 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:**

Since 2012, the Recipient has worked to promote light-duty zero-emission vehicle (ZEV) uptake in the North Coast region through outreach efforts, infrastructure development, and technical assistance for local jurisdictions. However, similar efforts are largely unaddressed for medium-duty and heavy-duty (MD/HD) vehicles in the region given the North Coast's rural location and the lack of experience with economically feasible low-carbon MD/HD vehicles.

This project seeks to address some of these barriers with a blueprint to accelerate MD/HD ZEV adoption and develop infrastructure. Specifically, the blueprint will determine the most effective methods to increase MD/HD ZEV uptake and install related advanced fueling infrastructure in a rural setting, and to engage with key regional stakeholders through partnerships and outreach. This is a timely project since there are an increasing number of MD/HD ZEV options available, and there is growing awareness of and interest in light-duty ZEVs in the North Coast region.

Beyond local needs, rural settings must also align with and support broader plans for destination traffic and external through-traffic, such as intra- and inter-regional freight movement. Since Humboldt County serves as the most populous sector in the northernmost region of California, this project includes Del Norte and Trinity counties and will provide planning support to these outlying areas. Providing an actionable plan for MD/HD ZEV adoption and infrastructure development will ensure that the North Coast and similar rural areas are positioned to benefit from clean MD/HD transportation and support California's goals toward low-carbon transportation in all sectors.

### **Goals of the Agreement:**

The goal of this Agreement is to develop a blueprint to guide MD/HD ZEV adoption and related fueling infrastructure development in the North Coast region to support local, destination, and external through-traffic

### **Objectives of the Agreement:**

The objectives of this Agreement are to develop a blueprint document to plan for:

- Implementing MD/HD ZEVs and charging/refueling infrastructure
- Understanding community needs and impacts

## **TASK 1 ADMINISTRATION**

### **Task 1.1 Attend Kick-off Meeting**

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

#### **The Recipient shall:**

- Attend a "Kick-Off" meeting with the CAM, the Commission Agreement Officer (CAO), and a representative of the California Energy Commission (CEC) Accounting Office. The Recipient shall bring their Project Manager, Agreement Administrator, Accounting Officer, and any others determined necessary by the Recipient or specifically requested by the CAM to this meeting.
- 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

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

**The CAM shall:**

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

- Provide the Recipient with a written determination in accordance with the schedule. The written response may include a requirement for the Recipient to revise one or more product(s) that were included in the CPR.

**The Recipient shall:**

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

**CAM Products:**

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

**Recipient Product:**

- CPR Report(s)

**Task 1.3 Final Meeting**

The goal of this task is to 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
- 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 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.
  - 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:
    - 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.

**Products:**

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

## TECHNICAL TASKS

### TASK 2 NORTH COAST MD/HD ZEV READINESS PLAN DEVELOPMENT

The goal of this task is to develop a blueprint to streamline and support MD/HD ZEV adoption in the North Coast region.

#### TASK 2.1 PLANNING AND ANALYSIS

The goal of this task is to develop various best practices and technical assessment documents that can be included in the blueprint and serve as resources during the implementation phase.

**The Recipient shall:**

- In a background section of the blueprint, describe previously-undertaken steps in the region related to MD and HD ZEV adoption
- Conduct a literature review of existing planning documents related to electric vehicle uptake in the region.
- Create a realistic, detailed timeline for MD and HD ZEV uptake and charging and/or refueling infrastructure installation, including quantitative goals.
- Quantify MD and HD ZEV uptake projections scenarios by vehicle class. Scenarios include:
  - Business-as-usual replacement cycle
  - Replacement cycle needed to meet regulatory targets
  - Different mixes of battery-electric and fuel cell vehicles
- Design separate timelines and uptake goals for the primary uses of MD and HD vehicles in the region including:
  - Local municipal, school, and private fleets
  - Local waste management authorities and private garbage/recycling collectors
  - Fire departments
  - Private delivery services
- Create a list of optimal charging and/or refueling infrastructure locations and describe the methodology used to select these locations.
  - These efforts will build upon the work performed previously by the Recipient and the Schatz Energy Research Center through the Caltrans Adaptation Planning Grant and the CEC-funded North Coast Plug-In Electric Vehicle Charging Network project.
  - Optimal charging/refueling zones will be considered both for public entities (e.g. municipal fleets) and private entities (e.g. curbside garbage pickup routes).
- Understand and analyze existing barriers to streamlining permitting for fueling infrastructure in a draft summary.

- Develop a best practices fact sheet regarding increasing MD/HD ZEV adoption while maintaining grid resiliency and reliability, including addressing impacts of charging on utility rates.
  - Consideration will be made for including MD/HD charging and refueling in resiliency projects, including microgrid development.
- Quantify fuel demand profiles for vehicle uptake scenarios
  - For battery-electric vehicles, potentially attempt to identify spatially explicit fuel demand profiles to inform electricity distribution system load projections.
- Work with local jurisdictions to enforce existing streamlining ordinances and permitting checklists for ZEV charging infrastructure, and determine how best to incorporate MD/HD chargers into these processes.
  - The Recipient has been working with local jurisdictions to streamline permitting for EV charging stations serving light-duty electric vehicles, and this work will complement and expand existing efforts.
  - Focus will be on identifying current barriers to a streamlined permitting process and the efforts that will best help jurisdictions overcome those barriers.
- Perform a technological assessment of local MD and HD charging/refueling infrastructure needs and existing or near-term options to address them.
  - Focus will be on options that can best serve rural areas without easy access to pipelines or well-developed electrical infrastructure (e.g. solar-powered standalone chargers, mobile battery-powered chargers).
  - Literature review will include fueling standards and projected commercially available vehicle performance specifications.
- Develop a guide listing the charging or refueling infrastructure technologies best suited for identified North Coast region applications.
- Publicize existing safety plans for hydrogen refueling infrastructure.
- Describe quantitative GHG emission and air pollutant goals and place them in a timeline to be shared with the local air quality management district.
- Develop a list of major local sources of emissions that will be primary targets for future outreach and education.
  - This effort will involve collaboration with the North Coast Unified Air Quality Management District.

**Products:**

- Description of previously-undertaken steps in the region
- Literature review of existing planning documents and fueling standards
- ZEV uptake and infrastructure timeline
- Draft projections for MD/HD ZEV uptake
- Sectoral timeline documents

- Charging/refueling location map
- Draft (interim) summary of existing barriers to streamlining permitting for fueling infrastructure
- Draft list of major local emission sources.
- Best practices and utility partnership fact sheet
- Fuel demand profiles
- Summary of streamlining ordinances and ZEV permitting checklists
- Technical assessment of infrastructure needs
- MD and HD charging infrastructure selection guide
- Hydrogen refueling safety plan checklist
- GHG emission goals timeline
- List of major local sources of emissions

## **TASK 2.2 COMMUNITY OUTREACH**

The goals of this task are to gather community input on the planning process to incorporate into the blueprint and to educate stakeholder groups on the benefits and importance of MD/HD ZEV adoption and infrastructure installation.

### **The Recipient shall:**

- Develop a draft list of key project partners and stakeholders, including workplaces in Humboldt, Del Norte, and Trinity counties, business owners, residents, California Native American Tribes, and financial institutions, from whom input on MD/HD ZEV transportation shall be obtained.
- Obtain input from workplaces in Humboldt, Del Norte, and Trinity counties, business owners, residents, California Native American Tribes, and financial institutions about MD/HD ZEV transportation.
- Maintain a spreadsheet documenting key project partners and stakeholder groups and the steps each took while working towards ZEV fleet transitions.
- Develop a list of required education materials and methods to engage the community and determine how many outreach meetings will need to be held in the future and which community groups they should include.
- Create a resource guide that colleges in Humboldt, Del Norte, and Trinity counties can use to begin crafting workforce development programs related to the development, support, and maintenance of ZEV fleets.
- Research and identify the types of jobs that will be created and which communities will benefit from them.
- Assist with qualitative systems-level context of target fleets catalyzing adoption in challenging fleet sectors (e.g. MD truck fleets, long haul tractor trailers, etc.)

**Products:**

- Draft list of key project partners and stakeholders whose input shall be obtained.
- List of educational materials, planned schedule for outreach meetings, and methods for engaging the local community.
- Spreadsheet documenting steps taken by partners and stakeholders
- Summarized and analyzed input on the blueprint
- Resource guide for workforce development
- Summary of job creation and community impact research
- Summary of qualitative assistance

**TASK 3 PROJECT FACT SHEET**

The goals of this task are to develop initial and final project fact sheets which describe the CEC-funded project and the benefits resulting from the project for the public and key decision makers.

**The Recipient shall:**

- Prepare an Initial Project Fact Sheet at start of the project that describes the project and the expected benefits. Use the format provided by the CAM.
- Prepare a Final Project Fact Sheet at the project's conclusion that describes the project, the actual benefits resulting from the project, and lessons learned from implementing the project. Use the format provided by the CAM.
- Provide at least (6) six High Quality Digital Photographs (minimum resolution of 1300x500 pixels in landscape ratio) from the project.

**Products:**

- Initial Project Fact Sheet
- Final Project Fact Sheet
- High Quality Digital Photographs

**TASK 4 BLUEPRINT**

The goal of this task is to consolidate materials produced in Task 2 into a complete planning blueprint that will identify actions and milestones needed for implementation of MD/HD ZEVs and related EV charging or hydrogen refueling infrastructure.

**The Recipient shall:**

- Develop a North Coast MD/HD ZEV Readiness Plan Blueprint
  - The Blueprint will summarize all of the work done in Task 2, and include sections devoted to short-, medium-, and long-term strategies.

**Products:**

- Draft North Coast MD/HD ZEV Readiness Plan Blueprint
- Final North Coast MD/HD ZEV Readiness Plan Blueprint





STATE OF CALIFORNIA

STATE ENERGY RESOURCES  
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION THE REDWOOD COAST ENERGY AUTHORITY

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

**RESOLVED**, that the CEC approves Agreement ARV-21-035 with the Redwood Coast Energy Authority for a \$200,000 grant to develop a blueprint to identify actions and milestones needed for deployment of MD/HD ZEVs and related charging and hydrogen refueling infrastructure in Humboldt County and surrounding areas; 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 September 8, 2021.

AYE:

NAY:

ABSENT:

ABSTAIN:

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Liza Lopez  
Secretariat