



GFO-22-607 Pre-Application Workshop

Light-Duty Vehicle and Multi-Use Hydrogen Refueling Infrastructure

Fuels and Transportation Division
November 9, 2022 | 1:00 p.m.



Workshop Agenda

- Welcome and Introductions
 - Diversity Survey
 - Empower Innovation
 - Clean Transportation Program
- Solicitation Overview
 - Process
 - Purpose
 - Eligibility and Requirements
- Application Components
- Application Evaluation
- Application Submittal
- Questions & Answers
- Next Steps
- Adjourn



Housekeeping

- Workshop is recorded on Zoom
- [Grant Funding Opportunity Webpage:](https://www.energy.ca.gov/solicitations/2022-10/gfo-22-607-light-duty-vehicle-and-multi-use-hydrogen-refueling-infrastructure)
<https://www.energy.ca.gov/solicitations/2022-10/gfo-22-607-light-duty-vehicle-and-multi-use-hydrogen-refueling-infrastructure>
- Virtual Participation via Zoom or telephone during the Q&A period
- Written Questions to Commission Agreement Officer:
Natalie Johnson, email: natalie.johnson@energy.ca.gov
Subject: GFO-22-607
Q&A Deadline: Wednesday, November 23, 2022, by 5:00 PM



Commitment to Diversity

The CEC adopted a resolution strengthening its commitment to diversity in our funding programs. The CEC continues to encourage disadvantaged and underrepresented businesses and communities to engage in and benefit from our many programs.

To meet this comment, CEC staff conducts outreach efforts and activities to:

- Engage with disadvantaged and underrepresented groups throughout the state;
- Notify potential new applicants about the CEC's funding opportunities;
- Assist applicants in understanding how to apply for funding from the CEC's programs;
- Survey participants to measure progress in diversity outreach efforts.



Diversity Survey



Scan the code on a phone or tablet with a QR reader to access the survey.

One Minute Survey

The information supplied will be used for public reporting purposes to display anonymous overall attendance of diverse groups.

Zoom Participants, please use the link to access the survey or scan the QR code on the left of the screen with a phone or tablet to access the survey.

Survey will be closed at the end of the day.

[Survey Link: https://forms.office.com/g/DgVE1isB13](https://forms.office.com/g/DgVE1isB13)



Find Partners on EmpowerInnovation.net

Empower Innovation aims to accelerate your clean tech journey with easy access to funding opportunities from the Energy Commission and others, resources and events, and connections to people and organizations.

www.empowerinnovation.net

FIND A PARTNER

Announce your interest in funding opportunities and message potential project partners directly.

RESOURCES & TOOLS

Browse the collection of resources including Resource Libraries, Funding Sources, Tools, and Databases.



Clean Transportation Program

- Established in 2007 by Assembly Bill 118 (2007)
- Extended to January 1, 2024, by Assembly Bill 8 (2013)
- Provides approximately \$95 million of funding per year through 2023
- Investment Plan determines funding allocations across various categories



Solicitation Funding Source

- California Budget Act of 2021
 - Available for encumbrance until **June 30, 2024**
 - Available for liquidation until **June 30, 2026**



Policy Drivers

- 2022-2023 Investment Plan Update for the Clean Transportation Program
- Joint Agency Staff Report on Assembly Bill 8: 2021 Annual Assessment of Time and Cost Needed to Attain 100 Hydrogen Refueling Stations in California
- 2022 Annual Evaluation of Fuel Cell Electric Vehicle Deployment and Hydrogen Fuel Station Network Development
- Executive Order N-79-20



California Energy Commission
REVISED STAFF REPORT

2022–2023 Investment Plan Update for the Clean Transportation Program

September 2022 | CEC-600-2022-053-REV



California Energy Commission
California Air Resources Board

Joint Agency Staff Report on Assembly Bill 8: 2021 Annual Assessment of Time and Cost Needed to Attain 100 Hydrogen Refueling Stations in California

December 2021 | CEC-600-2021-040



2022 Annual Evaluation of Fuel Cell Electric Vehicle Deployment and Hydrogen Fuel Station Network Development
(Report Pursuant to Assembly Bill 8, Perea, Chapter 401, Statutes of 2013)





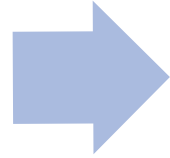
Solicitation Overview

Light-Duty Vehicle and Multi-Use Hydrogen Refueling Infrastructure

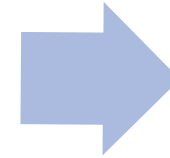


Solicitation Process

Pre-Solicitation
Workshop
**February
2022**

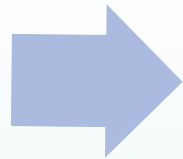


Solicitation
Release
**October 21,
2022**



Applications Due
**February 3,
2023**

Notice of
Proposed
Awards
April 2023



CEC Business
Meeting
July 2023



Project Start
**July/August
2023**



Purpose of Solicitation

- Competitive grant solicitation
- To fund projects that will provide publicly available hydrogen refueling stations to enable continued growth of the California fuel cell electric vehicle (FCEV) market
- Solicitation objectives are to:
 - Achieve the goal of 200 stations
 - Bring hydrogen fueling to areas without a hydrogen refueling station
 - Support fuel cell deployment in multiple vehicle market segments
 - Foster an excellent customer experience
 - Encourage renewable hydrogen from direct sources



Available Funding

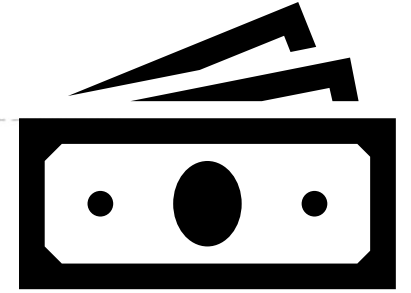
- A total of \$27 million is available under this solicitation
- Split between two competitions

Competition	Available Funding
Light-Duty Vehicle Hydrogen Refueling Infrastructure	\$24 million
Multi-Use Hydrogen Refueling Infrastructure	\$3 million





Minimum and Maximum Awards



- Light-Duty Vehicle Hydrogen Refueling Infrastructure
Competition proposals must include at least four stations

Competition	Minimum Award	Maximum Award	Per Station Maximum
Light-Duty Vehicle Hydrogen Refueling Infrastructure	\$4 million	\$10 million	\$1 million
Multi-Use Hydrogen Refueling Infrastructure	None	\$3 million	\$3 million



Applications and Awards

- Applicants may submit one application per competition.
- The CEC will screen and score applications by competition.
- The projects with the highest rankings and at least the minimum passing score will be recommended for funding in each competition until all funds available under this solicitation are exhausted.
- If remaining solicitation funds are insufficient to fully fund an application, the CEC reserves the right to recommend partially funding that application.
- If funds above \$27 million are added to the solicitation, the funds will first be allocated to fully fund partially funded applications. Then, the next overall highest scoring application(s), regardless of funding competition type, shall be awarded in ranked order until all funds available under this solicitation are exhausted.



Staged Reimbursement and Critical Milestones

- The CEC will reimburse funds according to the stages defined in the Solicitation Manual and Special Terms & Conditions
- Applicants must complete four Critical Milestones before receiving any reimbursement
 - Critical Milestones #1 and #2 must be complete at the time of application
 - Critical Milestones #3 and #4 must be completed after agreement execution, by the dates specified in the Schedule of Products and Due Dates

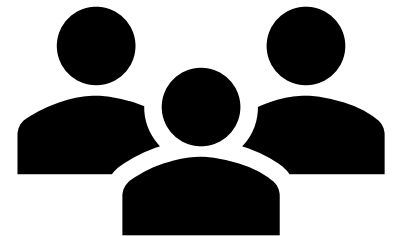


Eligible Applicants

- All public and private entities with the requisite experience:

Applicants or key project partners shall employ key personnel for the proposed project with a minimum of three (3) years of experience designing, planning, constructing, testing, operating, or maintaining hydrogen refueling stations or other pressurized gaseous fueling stations.

- Applicants must accept the Terms and Conditions (Attachment 9) and Special Terms and Conditions (Attachment 10) without negotiation.
- Applicants are required to register with the California Secretary of State and be in good standing to enter into an agreement with the CEC.



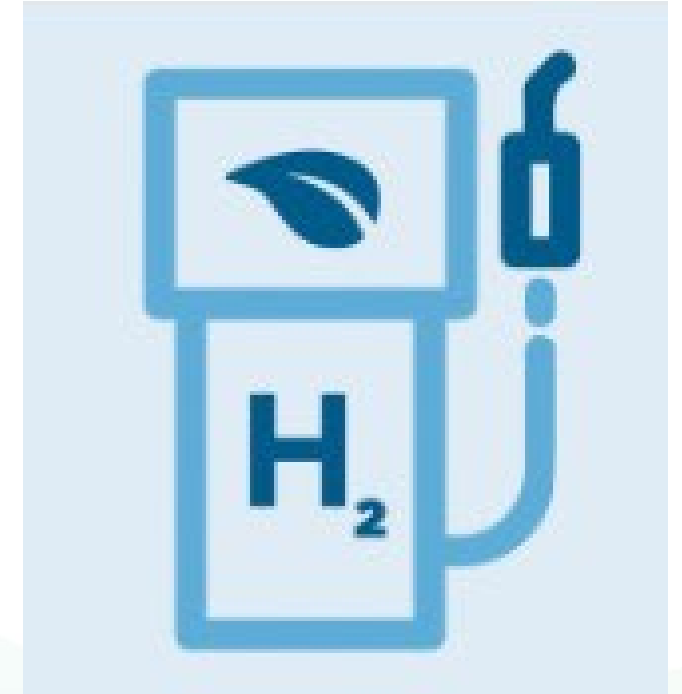


Project Requirements

All projects must:

- Construct one or more new hydrogen refueling stations.
- Install each station at a permanent physical address provided at the time of application.

No upgrades of existing hydrogen refueling stations.





Eligible Project Locations

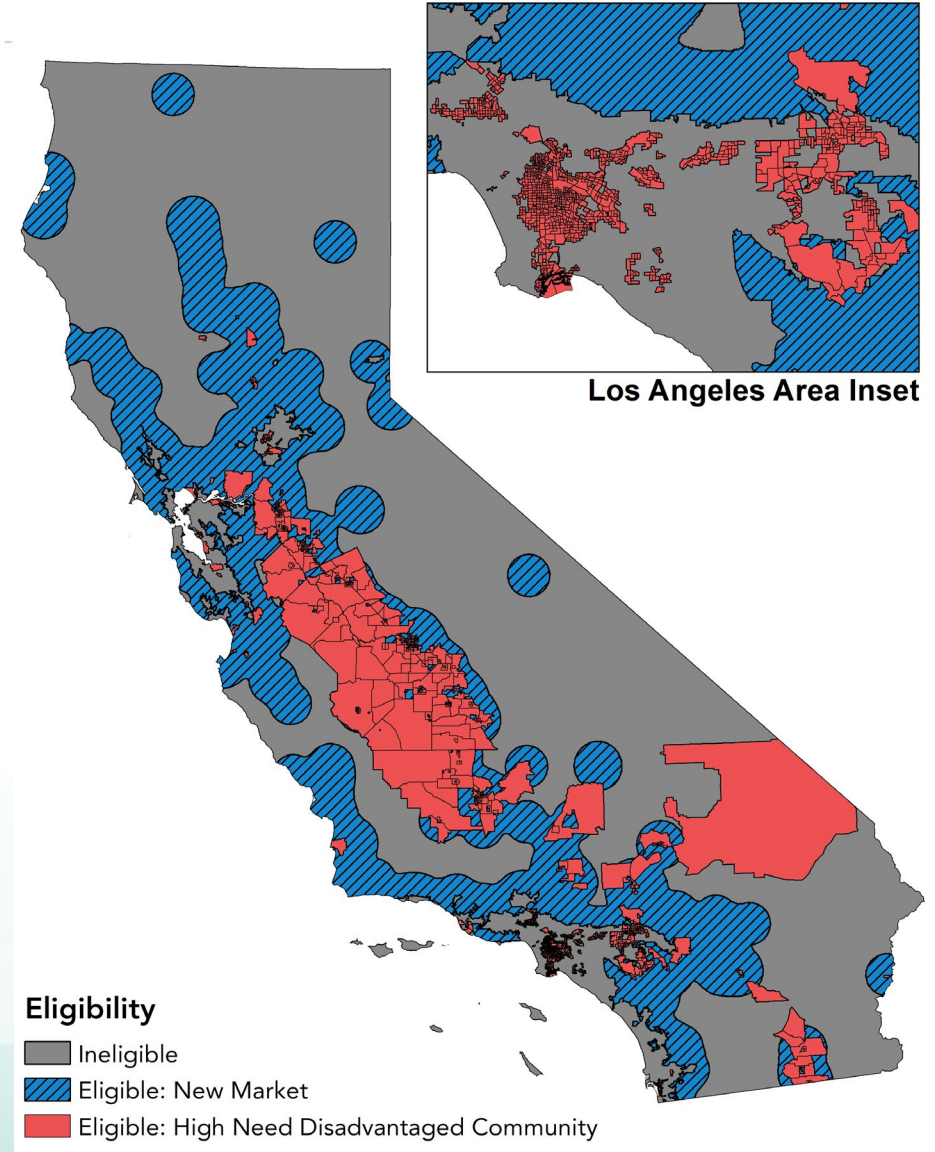
Two pathways for station location eligibility

The first:

Locate in an eligible area in the [GFO-22-607 Eligibility Map](#), at

<https://californiaarb.maps.arcgis.com/apps/webappviewer/index.html?id=20eaf894ac074849ac21aebec5a71934>

- Eligible areas are:
 - New Markets
 - High Need Disadvantaged Communities





Eligible Project Locations, Cont.

The second pathway for station location eligibility:

Be located anywhere in California at a site that is on or adjacent to property where a FCEV fleet of any vehicle classification is or will be serviced and this FCEV fleet is committed to use the hydrogen refueling station.

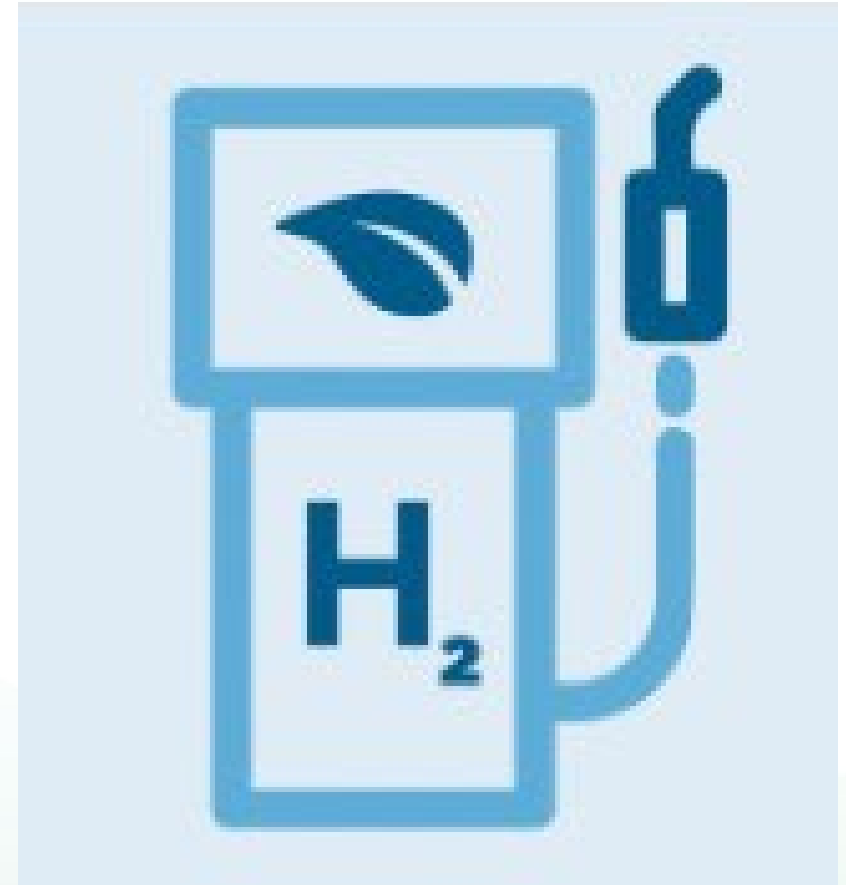




Additional Project Requirements

All hydrogen refueling stations must:

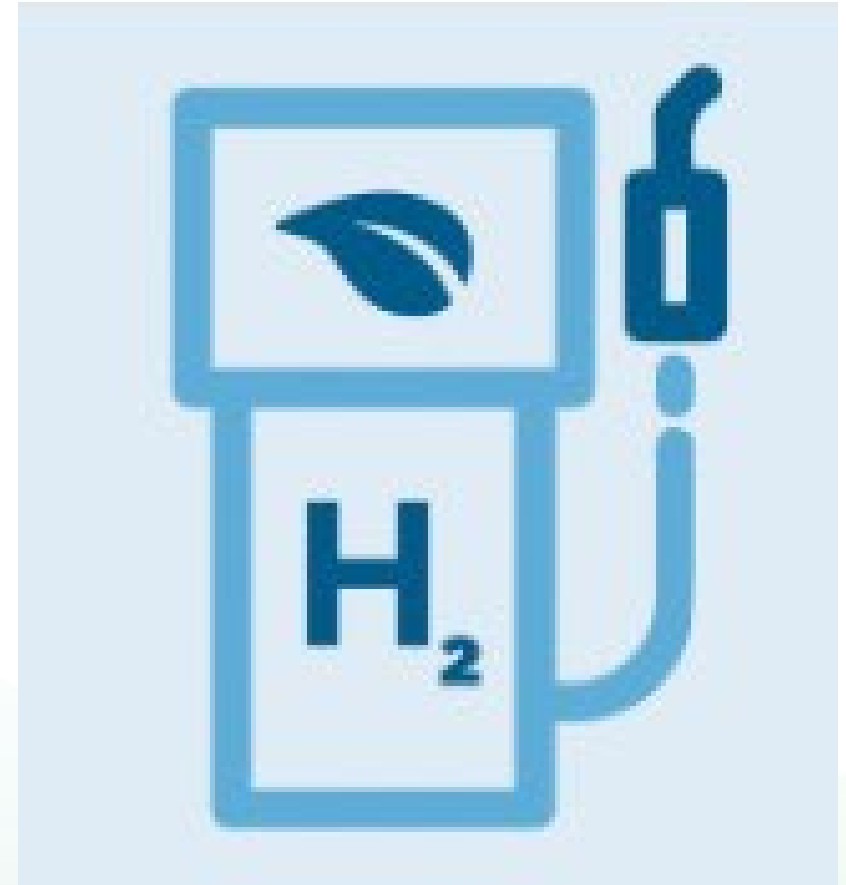
- Have at least two SAE International J2601 H70-T40 fueling positions.
- Meet the Minimum Technical Requirements for Open Retail Hydrogen Refueling Stations (Section II.E).
- Have each light-duty fueling position capable of a minimum 24-hour fueling capacity of 225 kilograms, verified using the Hydrogen Station Capacity Evaluation (HySCapE) model.





Additional Project Requirements, Cont.

- The Applicant or a key project partner must operate each proposed station and maintain its open retail status for a minimum of five years.
- For Multi-Use Hydrogen Refueling Infrastructure Competition Only:
 - Stations shall serve FCETs or FCEBs via public or private access at separate fueling positions from light-duty FCEVs. The public light-duty FCEV customer experience must not be compromised.
- Optional: Fueling positions may provide H35 fueling.





Eligible Project Costs

Reimbursable Costs

- Actual, allowable equipment expenditures only
- Hydrogen refueling station equipment such as hydrogen storage tanks, compressors, chillers, cryogenic pumps, dispensers, hoses, nozzles, and point of sale (POS) systems.
- Any standard or optional costs included by the equipment supplier in the purchase of equipment, such as shipping, installation, commissioning, warranty, or servicing.

Match Share Costs

- Same equipment costs as reimbursable costs
- Electrical system upgrade costs not covered by the utility
- Engineering, planning, and construction services
- Engagement and outreach to stakeholders
- Onsite hydrogen production equipment
- Permits
- Insurance



Match Funding

- Applications must include a minimum 50 percent total match share of the eligible project costs.
- The match share requirement must include a minimum 50 percent cash match share. In other words, because the match share requirement is 50 percent of total project costs, 25 percent of total project costs must be cash match share.



Hydrogen Safety Tasks

- Projects awarded under this solicitation must complete hydrogen safety tasks
 - Hydrogen Safety Plan
 - Hydrogen Refueling Station Design Reviews
 - Virtual Inspections



Renewable Hydrogen

- The hydrogen refueling stations funded under this solicitation shall dispense renewable hydrogen to comply with the requirements specified in the CARB Low Carbon Fuel Standard regulation, found at https://ww2.arb.ca.gov/sites/default/files/2020-07/2020_lcfs_fro_oal-approved_unofficial_06302020.pdf, of CCR Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 7, Sections:
 - §95481(a) “Definitions - Renewable Hydrogen” and
 - §95486.2(a)(4)(F) “Hydrogen Refueling Infrastructure (HRI) Pathways – Requirements to Generate HRI Credits.”



Application Components

Light-Duty Vehicle and Multi-Use Hydrogen Refueling Infrastructure



List of Components

Solicitation Manual pp. 31-32

Application Component	Action Needed by Applicant
Application Form (Attachment 1-a / Attachment 1-b)	Complete form(s) for the relevant competition(s)
Table of Contents	Create document
Executive Summary	Create document
Project Narrative	Create document
Scope of Work (Attachment 2)	Create document from supplied template
Schedule of Products and Due Dates (Attachment 4)	Create document from supplied template
Budget Forms (Attachment 5)	Complete forms
Resumes	Create document
Contact List (Attachment 6)	Complete form
Letters of Support/Commitment	Create document
CEQA Worksheet (Attachment 7)	Complete worksheet
Localized Health Impacts Information Form (Attachment 8)	Complete form
Proof of Completing Critical Milestone #1	Create document
Proof of Completing Critical Milestone #2	Create document
Station Photographs and Diagrams	Create document
HySCapE Input File and Results (Graphs and Output File)	Supply files from HySCapE model run(s)
Past Performance Reference Form(s) (Attachment 11)	Complete form



Other Solicitation Files for Reference (p. 4)

Item	Action Needed by Applicant
Scope of Work Instructions (Attachment 3)	Review before creating Scope of Work
Zero-Emission Vehicle Infrastructure Terms and Conditions (Attachment 9)	Review, agree
Special Terms and Conditions (Attachment 10)	Review, agree
NREL Data Collection Tool (Attachment 12)	Review. Complete during project if awarded.
Renewable Hydrogen Report (Attachment 13)	Review. Complete during project if awarded.
Open Retail Station Checklist (Attachment 14)	Review. Complete during project if awarded.



Application Form (Attachment 1-a and 1-b)

- Applicants must complete Attachment 1-a for the Light-Duty Vehicle Hydrogen Refueling Infrastructure Competition
- Applicants must complete Attachment 1-b for the Multi-Use Hydrogen Refueling Infrastructure Competition

ATTACHMENT 01-a
GFO-22-607 APPLICATION FORM FOR LIGHT-DUTY VEHICLE HYDROGEN REFUELING INFRASTRUCTURE COMPETITION

This document provides the California Energy Commission (CEC) with basic information about Applicant and Proposed Project. Each Applicant must complete and include this Application Form in its application.

Applicant's Legal Name	Federal ID Number

Title of Proposed Project

Proposed Project Term	
Start Date (Year, Month, Day)	End Date (Year, Month, Day)
/ /	/ /

Proposed Project Funding For Light-Duty Vehicle Hydrogen Refueling Infrastructure Competition	
Number of Proposed Light-Duty Vehicle Hydrogen Refueling Stations	
Amount of Funds Requested (\$1 M maximum per station. Must be between \$4 M and \$10 M in total)	\$
Total Match Funding Cash Match \$ _____ In-kind Match \$ _____	\$
Total Project Cost (sum of two previous rows)	\$
Match Funding Percentage (Total Match Funding/Total Project Cost)*100 (Must be at least 50%)	%

Address(es) for All Proposed Light-Duty Vehicle Hydrogen Refueling Station(s) (Four stations minimum. Add rows as necessary.)

Station Name	Street Address	City	State	5-digit Zip Code
			CA	
			CA	
			CA	
			CA	

ATTACHMENT 01-b
GFO-22-607 APPLICATION FORM FOR MULTI-USE HYDROGEN REFUELING INFRASTRUCTURE COMPETITION

This document provides the California Energy Commission (CEC) with basic information about the Applicant and Proposed Project. Each Applicant must complete and include this Application Form in its application.

Applicant's Legal Name	Federal ID Number

Title of Proposed Project

Proposed Project Term	
Start Date (Year, Month, Day)	End Date (Year, Month, Day)
/ /	/ /

Proposed Project Funding For Multi-Use Hydrogen Refueling Infrastructure Competition	
Number of Proposed Multi-Use Hydrogen Refueling Stations	
Amount of Funds Requested (\$3 M maximum)	\$
Total Match Funding Cash Match \$ _____ In-kind Match \$ _____	\$
Total Project Cost (sum of two previous rows)	\$
Match Funding Percentage (Total Match Funding/Total Project Cost)*100 (Must be at least 50%)	%

Address(es) for Proposed Multi-Use Hydrogen Refueling Station(s) (Add rows as necessary)

Station Name	Street Address	City	State	5-digit Zip Code
			CA	



Table of Contents

- Include a Table of Contents for the Application
- Table of Contents will not count towards the 30-page Project Narrative limit

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Executive Summary

- Limit of one page
- Summarize the project, project goals and objectives
- The Executive Summary will not count towards the 30-page Project Narrative limit

EXECUTIVE SUMMARY

California leads the nation in addressing the climate crisis through aggressive greenhouse gas (GHG) emission reduction goals, regulations, and innovative funding programs. The California Energy Commission's (CEC) Clean Transportation Program is one of the first transportation-focused funding programs created by the California Legislature to help achieve the state's climate policies. The Clean Transportation Program has made significant progress through grant-focused investments designed to transition California to a clean transportation system. Now in its fourteenth year, the Clean Transportation Program has provided more than \$1 billion in funding for a broad spectrum of zero-emission vehicles (ZEV) and infrastructure, alternative fuels and technologies, and workforce development projects in communities that will accrue health, environmental, and economic benefits from these investments.

In this time, California has experienced rapid growth in the sales of plug-in electric vehicles, along with the introduction of hydrogen fuel cell electric vehicles. According to the CEC's Zero-Emission Vehicles and Infrastructure Statistics online dashboard, as of June 2022, the share of new light-duty ZEV sales reached the highest level ever at 16.5 percent of new vehicles. The state reached 1 million passenger ZEVs sold in the fourth quarter of 2021, with more than 1.2 million ZEVs sold through June 2022. While behind the passenger ZEV market, on-road medium- and heavy-duty ZEVs reached over 1,900 as of June 2022, with transit, school, and delivery vehicles at the forefront.

Purpose of the Clean Transportation Program

Since 2006, California has set pivotal goals to reduce GHG emissions, address the threat posed by global climate change, and improve the public health of its residents. These goals require incremental progress that will ultimately lead to major emission reductions, including:

- Reducing GHG emissions to 40 percent below 1990 levels by 2030 (Senate Bill 32 in 2016).
- Reducing short-lived climate pollutant emissions, such as methane, to 40 to 50 percent below 2013 levels by 2030. (Senate Bill 1383 in 2016)
- Requiring renewable energy and zero carbon resources supply 100 percent of retail sales of electricity by 2045, with interim goals of 90% by 2035 and 95% by 2040. (Senate Bill 100 in 2018 and Senate Bill 1020 in 2022).
- Requiring a carbon neutral economy by 2045 (Assembly Bill 1279 in 2022)

In addition to these GHG emission reduction goals, the state must reduce emissions of criteria pollutants to attain federal and state ambient air quality standards. Reducing air pollution is important to improve equitable outcomes, given that air quality burdens fall disproportionately on low-income residents and people of color (Figure ES-1).



Project Narrative

- **Applicants must submit a project narrative**
- Limit of 30 pages
- Use 11-point font, single-spaced and a blank line between paragraphs
- Include page numbers and section titles
- **Project Narrative must address each scoring criterion described in the Evaluation Criteria (pp. 47-50)**

b. Project Location and Market Viability

- 1) Explain how the proposed station location(s) align with the [2019 OEM Priority Hydrogen Station Location Recommendations](https://h2fcp.org/sites/default/files/CaFCP-OEM-2019-Priority-Station-Location-Announcement_Final.pdf), available at https://h2fcp.org/sites/default/files/CaFCP-OEM-2019-Priority-Station-Location-Announcement_Final.pdf.
- 2) Explain how the station(s) will be located in communities and/or along travel corridors that are not served or inadequately served by the existing hydrogen refueling station network.

Criterion	Possible Points
<p>2. Project Location and Market Viability Applications will be evaluated on the degree to which:</p> <ul style="list-style-type: none"> • The proposed station location(s) align with the 2019 OEM Priority Hydrogen Station Location Recommendations, available at https://h2fcp.org/sites/default/files/CaFCP-OEM-2019-Priority-Station-Location-Announcement_Final.pdf. • The station(s) will be located in communities and/or along travel corridors that are not served or inadequately served by the existing hydrogen refueling station network. 	25



Scope of Work (Attachment 2)

- Applicants must complete Attachment 2
- Describe exactly what the project will do
- Identify what will be delivered to the CEC
- Be sure to include in the technical tasks:
 - At least one product deliverable per task

Attachment 2 Exhibit A SCOPE OF WORK

TECHNICAL TASK LIST

<Insert the Task numbers and Task names for your Agreement. Applicants may leave the CPR column blank.>

Task #	CPR	Task Name
1		Administration
2		Hydrogen Safety Plan
3		Hydrogen Refueling Station Development
4		Data Collection and Analysis
5		Project Fact Sheet

KEY NAME LIST

<Insert the Task numbers and the Key names for each Task in your Project. Include Key names only if the value of the project would significantly change without those personnel, subcontractors, or partners. Add additional lines as needed. Alternatively, you may delete this table if there are no key names.>

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	<Name>	<Name>	<Name>
2	<Name>	<Name>	<Name>
3	<Name>	<Name>	<Name>
4	<Name>	<Name>	<Name>
5	<Name>	<Name>	<Name>

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
CPR	Critical Project Review
CTP	Clean Transportation Program



Schedule of Products and Due Dates (Attachment 4)

- Applicants must complete Attachment 4
- Add tasks and product deliverables that correspond to the Scope of Work
- Provide realistic dates on when product deliverables can be completed

Attachment 4

Schedule of Products and Due Dates			
Task Number	Task Name	Product(s)	Due Date
1	Administration		
1.1	Attend Kick-off Meeting		
		Updated Schedule of Products	<Insert Date>
		Updated List of Match Funds	<Insert Date>
		Updated List of Permits	<Insert Date>
		Written Statement of Match Share Activities	<Insert Date>
		Kick-Off Meeting Agenda (CEC)	<Insert Date>
1.2	Critical Project Review Meetings		
		CPR Report	<Insert Date>
	1st CPR Meeting	CPR Meeting Agenda (CEC)	<Insert Date>
		Schedule for written determination (CEC)	<Insert Date>
		Written determination (CEC)	<Insert Date>
	<Add as many CPRs as Required>	<Utilize same products as 1st CPR Meeting>	<Insert Date>
		<Utilize same products as 1st CPR Meeting>	<Insert Date>
		<Utilize same products as 1st CPR Meeting>	<Insert Date>
		<Utilize same products as 1st CPR Meeting>	<Insert Date>
1.3	Final Meeting		
		Written documentation of meeting agreements	<Insert Date>
		Schedule for completing closeout activities	<Insert Date>
1.4	Monthly Calls		
		Email to CAM concurring with call summary notes	Within 5 days of receipt
1.5	Quarterly Progress Reports		
		Quarterly Progress Reports	10th calendar day of each January, April, July, and October during the approved term of this Agreement
1.6	Final Report		
		Final Outline of the Final Report	<Insert Date>
		Draft Final Report (no less than 60 days before the end term of the agreement)	<Insert Date>
		Final Report	<Insert Date>



Budget Forms (Attachment 5)

- Applicants must complete Attachment 5
- Follow Budget Instructions
- Identify how CEC funds and match funds will be spent to complete the project
- CEC Share expenses limited to Equipment
- For more information on updates to the CEC budget forms, visit the [CEC ECAMS Resources](https://www.energy.ca.gov/funding-opportunities/funding-resources/ecams-resources) webpage at <https://www.energy.ca.gov/funding-opportunities/funding-resources/ecams-resources>

Template Version 08/23/2021

PROPOSAL BUDGET			
Category Budget			
Agreement Number	GFO-22-607		
Name of Organization	Organization Name		
Select Recipient or Subrecipient			
Select your company's California Business Certifications			
Cost Category	CEC Share	Match Share	Total
Direct Labor	\$ -	\$ -	\$ -
Fringe Benefits	\$ -	\$ -	\$ -
Total Labor	\$ -	\$ -	\$ -
Travel	\$ -	\$ -	\$ -
Equipment	\$ -	\$ -	\$ -
Materials/Miscellaneous	\$ -	\$ -	\$ -
Subrecipients/Vendors	\$ -	\$ -	\$ -
Total Other Direct Costs	\$ -	\$ -	\$ -
Indirect Costs	\$ -	\$ -	\$ -
Profit (not allowed for grant recipients)	\$ -	\$ -	\$ -
Total Indirect and Profit	\$ -	\$ -	\$ -
Grand Totals	\$ -	\$ -	\$ -
<i>Total LEL Reimbursable Funds Spent in California or Paid to California-Based Entities</i>	\$ -		
<i>Percentage of CEC Reimbursable Funds Spent in California or Paid to California-Based Entities</i>			

October 2022

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GFO-22-607
Light-Duty Vehicle and Multi-Use
Hydrogen Refueling Infrastructure



Resumes

- Applicants must include resumes for key personnel identified in the application
- Limit of two pages per resume

FIRST LASTNAME

Construction Worker
Seattle, WA
firstlast@email.com
555-555-5555

Effective at using forklift's, hand trucks and pallet jacks to move merchandise. Skilled at inspecting stock, tagging product and updating computer tracking systems. Well-versed in warehouse operations, inventory audits and loading and unloading procedures.

Eligible to work for any employer in the U.S.

WORK EXPERIENCE

Construction Worker

NewCompany January 2018 to Present

Unpacked and assembled all new merchandise using variety of power tools and lean manufacturing. Heavy Lifting. Measuring. Organize Building Materials. Read and Interpret Drawings. Safety. Supported technicians in equipment maintenance and repair. Organized Warehouse Operations.

Crew Lead

CompanyCo, Inc July 2017 to December 2017

Trained employees so that they were well-educated in time management and the proper ways to complete their job duties. Utilized all machinery and equipment while observing various safety precautions and practices. Ensured that job tasks were completed to standards and in accordance with company guidelines. Maintained the job site on a daily basis and checked to see that all trash and refuse was removed. Completed daily forklift safety checklists. Located proper slots on storage racks and set pallets in place with forklift and pallet jack.

EDUCATION

High school or equivalent

Ged Program - NewCity, NC
April 2015 to February 2016



Contact List (Attachment 6)

- Applicants must complete Attachment 6
- Include the appropriate points of contact under the Recipient column
- The CEC will complete the CEC points of contact during agreement development

Attachment 06 CONTACT LIST

Please complete the information in the "Recipient" column.

California Energy Commission	Recipient
Commission Agreement Manager: (TBD by Commission) California Energy Commission 715 P Street, MS-6 Sacramento, CA 95814 Phone: (916) XXX-XXXX e-mail:	Project Manager: Name Company Name Street Address City, State ZIP Phone: (XXX) XXX -XXXX Fax: (XXX) XXX -XXXX e-mail:
Confidential Deliverables/Products: California Energy Commission Contracts, Grants, and Loans Officer 715 P Street Sacramento, CA 95814 Phone: (916) 767-4991	Administrator: Name Company Name Street Address City, State ZIP Phone: (XXX) XXX -XXXX Fax: (XXX) XXX -XXXX e-mail:
Invoices, Progress Reports and Non-Confidential Deliverables to: California Energy Commission Accounting Officer 715 P Street Sacramento, CA 95814 e-mail: invoices@energy.ca.gov	Accounting Officer: Name Company Name Street Address City, State ZIP Phone: (XXX) XXX -XXXX Fax: (XXX) XXX -XXXX e-mail:
Legal Notices: Tatyana Yakshina Grants Manager California Energy Commission 715 P Street, MS-18 Sacramento, CA 95814 Phone: (916) 827-9294 e-mail: tatyana.yakshina@energy.ca.gov	Recipient Legal Notices: Name Company Name Street Address City, State ZIP Phone: (XXX) XXX -XXXX Fax: (XXX) XXX -XXXX e-mail:



Letters of Support/Commitment

- Applicants must include certain Commitment Letters from:
 - The station site owner
 - The station site operator (if different than the owner)
 - Key project partners that will contribute to the project, including the fleet owner/operator if locating a station to serve that fleet
 - Entities or individuals that are committing match funding
- Support letters are optional
- Limit of two pages per letter



CEQA Worksheet (Attachment 7)

- Applicants must submit a completed Attachment 7
- The CEC requires this information to assist with CEQA determinations

ATTACHMENT 7

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) WORKSHEET

The California Environmental Quality Act (CEQA) (Public Resources Code §§ 21000 et seq.) requires public agencies to identify the significant environmental impacts of their actions and to avoid or mitigate them, if feasible.¹ Under CEQA, an activity that may cause either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment is called a "project." (Public Resources Code § 21065.) Approval of a contract, grant, or loan may be a "project" under CEQA if the activity being funded may cause a direct physical change or a reasonably foreseeable indirect physical change in the environment. Agencies must comply with CEQA before they approve a "project." This can include preparing a Notice of Exemption or conducting an Initial Study and preparing a Negative Declaration, a Mitigated Negative Declaration, or, if there are significant impacts, an Environmental Impact Report.

The Lead Agency is the public agency that has the greatest responsibility for preparing environmental documents under CEQA, and for carrying out, supervising, or approving a project. Where the award recipient is a public agency, the Lead Agency is typically the recipient. Where the award recipient is a private entity, the Lead Agency is the public agency that has greatest responsibility for supervising or approving the project as a whole.² When issuing contracts, grants or loans, the Energy Commission is typically a "Responsible Agency" under CEQA, which means that it must make its own CEQA findings based on review of the Lead Agency's environmental documents. If the Energy Commission is the only public agency with responsibility for approving the project, then the Energy Commission must act as the Lead Agency and prepare its own environmental documents before approving the project.

This worksheet will help the Energy Commission determine what kind of CEQA review, if any, is necessary before it can approve the award, and which agency will be performing that review as a Lead Agency. Please answer all questions as completely as possible. It may also help you to think through the CEQA process necessary for your proposed project. The Energy Commission may request additional information in order to clarify responses provided on this worksheet.

¹ For a brief summary of the CEQA process, please visit <http://oeres.ca.gov/ceqa/summary.html>.

² 14 C.C.R. §§ 15050, 15051. The Lead Agency typically has general governmental powers (such as a city or county), rather than a single or limited purpose (such as an air pollution control district).



Local Health Impacts Information Form (Attachment 8)

- Applicants must complete Attachment 8
- The CEC requires this information for a Localized Health Impacts report

Attachment 8

Local Health Impacts Information

Air Quality Guidelines (California Code of Regulations, Title 13, Chapter 8.1, Section 2343(c)(6)(A)) require the Energy Commission to analyze the aggregate locations of the funded projects, analyze the impacts in communities with the most significant exposure to air contaminants or localized air contaminants, or both, including, but not limited to, communities of minority populations or low-income populations, and identify agency outreach to community groups and other affected stakeholders.

This information must be provided for all AB 118 funding categories, including fueling stations, fuel production, feedstock production or procurement, and vehicle or technology component production.

INSTRUCTIONS

Please complete the following information *for all sites where work for the proposed project that will require a permit will be done*. Attach additional pages if necessary. If the project includes multiple sites, you may submit this information in a table format using the bolded font below as column headers.

PROJECT NAME

APPLICANT'S NAME AND ORGANIZATION

PROJECT SITE(S) DESCRIPTION

Provide the precise street address(es) of the site(s) and a description of existing infrastructure or facilities (if any), surrounding structures, reference to any regional plans or zoning requirements for each location, and its proximity to residences, day care facilities, elder care facilities, medical facilities, and schools.

(E.g., Site 1: 123 Main Street, Grand Terrace, CA, 92313, Vacant lot in a commercially zoned area. Commercial buildings surround the lot. No residences, daycare facilities, elder care facilities, medical facilities, or schools within ¼ mile; Site 2: 321 Beach Street, San Francisco, CA, Existing gasoline/diesel fueling station. Residential area within 200 on South and East ends of project site.)

DEMOGRAPHIC DATA

Provide demographic data at the city or Zip code level for either the project location or the location of the potential health impacts, including:

- Total population
- Median education level
- Unemployment rate
- Percentage of minorities (by ethnicity)



Proof of Completing Critical Milestone #1

- Applicants must prepare meeting notes as proof that Critical Milestone #1 has been completed for each proposed station
 - Meeting with relevant planning and/or building department staff of the authority having jurisdiction (AHJ) over the project entitlement and permit approval
 - Meeting with relevant fire department staff of the AHJ
 - Meeting with a representative of the Hydrogen Safety Panel
- Limit of five pages per station
- Include date, time, location, names and titles of meeting participants, a summary of the topics discussed, action items, and next steps



Proof of Completing Critical Milestone #2

- Applicants must submit adequate documentation of site control and possession for each proposed station
 - Executed lease or equivalent



Station Photographs and Diagrams

- Applicants must include station photographs and diagrams for each proposed station
- Current photographs of the proposed hydrogen refueling station sites
- Diagrams or drawings of each proposed station layout



HySCapE Input File and Results

- Submit the HySCapE Input File for each station design
- Submit the HySCapE Results for each station design
 - Including Graphs and the Output File
- Confirms station daily capacity requirements met



Past Performance Reference Form (Attachment 11)

- Applicants must complete Attachment 11 to provide references for:
 - Agreements with the CEC received by the Applicant in the last 10 years.
 - The five most recent agreements with other public agencies received by the Applicant within the past 10 years.
- References must include a contact person name and phone number or email address. These persons may be contacted by CEC staff.
- Applicants should fill out a separate Past Performance Reference Form for each reference.

Attachment 11
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PAST PERFORMANCE REFERENCE FORM

Provide references for CEC agreements (e.g., contracts, grants, or loans) received by the Applicant in the last 10 years and the 5 most recent agreements with other public agencies within the last 10 years to verify Applicant's past performance. Each reference must include a contact person name and phone number (or email address). If contacted by California Energy Commission staff, references should be able to speak to Applicant's ability to successfully complete projects in a timely manner.

In response to Section III.D.4.a, Team Experience and Qualifications, if the team's experience and qualifications includes a specific project(s) under current or prior agreements with public funding (e.g., contract, grant, or loan), the Applicant must also submit a Past Performance Reference Form(s) for the project(s), even if the team member is not the primary Applicant.

Applicants should fill out a separate Past Performance Reference Form for each reference.

Name of Organization	<i>CEC or another public agency</i>
Address	
Contact Name	
Contact Title	
Contact Phone Number (or Email)	
Title of Project	
Agreement Number or Other Unique Identifier	
(For projects that did not complete (or timely complete) project objectives) Describe the challenges faced, what led to those challenges and indicate whether those challenges were within the Applicant's control.	
Describe any severe audit findings and how they were ultimately addressed and resolved.	
Describe the final outcome of the project.	

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Light-Duty Vehicle and Multi-Use
Hydrogen Refueling Stations



Application Evaluation

Light-Duty Vehicle and Multi-Use Hydrogen Refueling Infrastructure



How Will My Application Be Evaluated?

Stage One: Application Screening

- Administrative Screening Criteria (Pass/Fail)
- Technical Screening Criteria (Pass/Fail)

Stage Two: Application Evaluation

*Applicants must pass ALL screening criteria, or the application shall be disqualified and eliminated from further evaluation.



Administrative Screening Criteria

Criteria	Pass/Fail
1. The application is received by CEC's Contracts, Grants, and Loans Office by the due date and time specified in the "Key Activities Schedule" in Section I of this solicitation.	Pass or Fail
2. The applicant provides the required authorizations and certifications.	Pass or Fail
3. The applicant has not included a statement that is contrary to the required authorizations and certifications.	Pass or Fail



Technical Screening Criteria

Criteria	Pass/Fail
1. The Applicant is an eligible Applicant.	Pass or Fail
2. The project is an eligible project.	Pass or Fail
3. The project meets the minimum match share requirement, if any.	Pass or Fail
4. The Applicant passes the past performance criterion.	Pass or Fail



Past Performance Screening

1. An Applicant may be disqualified due to **severe performance issues** characterized by significant negative outcomes under one or more prior or active CEC agreement(s) within the last 10 years.
2. Any Applicant that does not have an active or prior agreement equates to no severe performance issues and therefore would pass this screening criteria.



Application Technical Evaluation and Scoring

- The Evaluation Committee applies the scoring scale to the evaluation criteria.
- Applications must obtain a minimum passing score of **70%** or **70 points** in order to be considered for funding.
- Review Section IV of the solicitation manual and ensure the application provides a clear and complete response to all scoring criteria.



Application Evaluation and Scoring

Scoring Criteria	Possible Points
Team Experience and Qualifications	10
Project Location and Market Viability	25
Project Implementation	20
Project Readiness	20
Project Budget	10
Environmental and Economic Benefits	15
Total Possible Points	100
Minimum Points to Pass (70%)	70



Team Experience and Qualifications

Applications will be evaluated on the degree to which:

- The project team's qualifications (including relevant expertise, experience, and skill sets) are suitable to the tasks described in the proposed Scope of Work.
- The project team has verifiable experience working with AHJ personnel to overcome planning and permitting barriers such as the need to make site layout changes, incorporate additional requirements, or respond to local community feedback.
- The project team demonstrates it has sufficient personnel and organizational capacity to complete the project given its other project commitments.
- Resumes and/or project narrative demonstrate that project team members have experience that exceeds the three-year experience requirement (Section II.A.1).



Team Experience and Qualifications, Cont.

Applications will be evaluated on the degree to which:

- The Applicant and team have demonstrated exceptional administrative and technical performance under existing or prior funding agreements (CEC and/or other public agencies), if the Applicant or team worked on such projects, including:
 - Adherence to schedules and due dates.
 - Effective and timely issue resolution.
 - Quality of deliverables.
 - Objectives of past projects have been attained.
 - Honest, timely, and professional communication with staff from the funding entity.
 - Effective coordination with project partners, subrecipients, vendors, and other stakeholders.
 - Timely and accurate invoicing.



Project Location and Market Viability

Applications will be evaluated on the degree to which:

- The proposed station location(s) align with the 2019 OEM Priority Hydrogen Station Location Recommendations, available at https://h2fcp.org/sites/default/files/CaFCP-OEM-2019-Priority-Station-Location-Announcement_Final.pdf.
- The station(s) will be located in communities and/or along travel corridors that are not served or inadequately served by the existing hydrogen refueling station network.
- The submitted station photographs and diagrams demonstrate sufficient space for the station equipment and a convenient and safe retail setting for customers.
- The Applicant provides evidence supporting the station location's viability in terms of potential customer demand, which may include coordination with light-duty and/or medium-duty FCEV fleet deployments.
- The station location(s) will support the adoption of FCEVs in disadvantaged and low-income communities.

Multi-Use Hydrogen Refueling Infrastructure Competition Only: There is coordination with specific FCET or FCEB fleet(s) and there are verified user(s) for the separate FCET/FCEB fueling area, and the Applicant demonstrates that equipment and fueling protocol or standard fueling guideline will meet expected fleet needs. The Applicant also describes if that fueling will be public or private.



Project Implementation

Applications will be evaluated on the degree to which the Operation and Maintenance Plan:

- Demonstrates the project team is committed and has the resources to operate each station for at least five years.
- Offers clear, detailed, and convincing strategies for maximizing station uptime and ensuring customer satisfaction.
- Provides credible plans to achieve aggressive response times for various types of operations and maintenance issues.
- Will minimize the retail price of hydrogen.

The Operation and Maintenance Plan, to be included in the Project Narrative, is described on page 29 of the Solicitation Manual.



Project Readiness

Applications will be evaluated on the degree to which:

- The Applicant has conducted due diligence on the viability of the selected site(s), including consistency with local land use regulations and planning documents.
- There is demonstrated support for the proposed hydrogen review station(s) from local community groups (such as neighboring residents and businesses), potential customers, and the AHJ.
- Evidence is provided to support a high probability of quick completion of station environmental review, entitlements, permitting, or construction.
- Major risks and barriers to successful project completion are identified and mitigated.
- The tasks in the Scope of Work contribute to the successful and timely completion of the proposed project.



Project Budget

Applications will be evaluated on the degree to which:

- **Light-Duty Vehicle Hydrogen Refueling Infrastructure Competition Only:** The requested CEC grant funding per light-duty hydrogen refueling station is less than the \$1 million maximum, cost effectively helping the CEC to meet the 200-station infrastructure goal.
- **Multi-Use Hydrogen Refueling Infrastructure Competition Only:** The requested CEC grant funding per multi-use hydrogen refueling station is less than the \$3 million maximum.
- The proposed match funding commitments are documented and verifiable.
- The Applicant demonstrates the need for state funding for the proposed project.



Environmental and Economic Benefits

Applications will be evaluated on the degree to which:

- The proposed project will dispense more renewable hydrogen than the minimum required, the sourcing of renewable attributes for the hydrogen supply is clearly explained and prioritizes direct attributes over indirect, book-and-claim style sourcing.
- The proposed project results in high benefit-cost score defined as the ratio of grams of CO₂ equivalent reduction per dollar of CEC investment for the proposed project term and five years of operation.
- The proposed project will provide direct and meaningful benefits to disadvantaged and low-income communities and workers within those communities in accordance with the CalEnviroScreen 4.0.
- The proposed project will expand business opportunities for California-based businesses, result in high-quality jobs in terms of compensation, duration, and related project payroll, and increase state and local tax revenues.



Special Note on Terms and Conditions

Light-Duty Vehicle and Multi-Use Hydrogen Refueling Infrastructure



Terms and Conditions (Attachment 9)

- The Terms and Conditions are changing with ECAMS.
- Attachment 9 includes the pre-ECAMS Terms and Conditions, plus Appendix 1 that explains streamlining grant terms and conditions that the CEC is implementing.
- Appendix 1 reflects updated terms and conditions that will apply to agreements that result from this solicitation.
- More information is on the [ECAMS Resources webpage](https://www.energy.ca.gov/funding-opportunities/funding-resources/ecams-resources) at <https://www.energy.ca.gov/funding-opportunities/funding-resources/ecams-resources>.



Special Terms and Conditions (Attachment 10)

- CEC funds will be available for reimbursement according to the reimbursement stages listed in the solicitation manual (pp. 8-9) and in the Special Terms and Conditions (Attachment 10)
- The Special Terms and Conditions also cover the Critical Milestones in this solicitation



Application Submittal

Light-Duty Vehicle and Multi-Use Hydrogen Refueling Infrastructure



GFO Submission Requirements (Electronic)

The method of delivery is the CEC's Grant Solicitation System (GSS), available at: <https://gss.energy.ca.gov>.

- First time users must register as a new user.
- Electronic files must be in Microsoft Word and Excel formats, unless originally provided in the solicitation in another format.
- Until further notice, any requirement in CEC solicitations to provide a signature is waived. In the GSS, checking the "I Agree" box and clicking the "I Agree & Submit" button provides the required authorizations and certifications.
 - Notice on CEC's waiver of the signature requirement appears here: <https://www.energy.ca.gov/funding-opportunities/solicitations>



GFO Submission

Submit applications early!

The GSS system will stop accepting application documents promptly at the deadline of 11:59 p.m. on February 3, 2023.

Applications in the process of being submitted prior to the deadline will **NOT** be accepted after the deadline.



GFO Submission Resources

- [How to Apply](https://www.energy.ca.gov/media/1654) via the Grant Solicitation System: <https://www.energy.ca.gov/media/1654>.
- This presentation explains how to:
 - Create an account
 - Create a new application
 - Select the correct solicitation
 - Upload application files
 - Edit application
 - Review and submit
- Tips and Frequently Asked Questions

A screenshot of the California Energy Commission's Grants Solicitation System login page. The page features a header with the CA.GOV logo, the California Energy Commission logo, and navigation links for Home, About Us, Analysis & Stats, Efficiency, Funding, Power Plants, Renewables, Research, and Transportation. The main content area is titled "Grants Solicitation System" and contains a "Log In" form with fields for "Email" (Your Email Address) and "Password" (Your Password). Below the fields are "Sign In" and "Forgot your password?" buttons. At the bottom, there is a "Don't have an account?" link and a "Register as a New User" button.



Key Dates

Activity	Action Date
Solicitation Release	October 21, 2022
Pre-Application Workshop	November 9, 2022
Deadline for Written Questions by 5:00 p.m.	November 23, 2022
Anticipated Distribution of Question/Answers	Week of Dec. 12, 2022
Deadline to Submit Applications by 11:59 p.m.	February 3, 2023
Anticipated Notice of Proposed Awards Posting	Week of April 24, 2023
Anticipated Energy Commission Business Meeting	July 2023



Question and Answers

Three ways to ask questions:

Please state your name and affiliation. Keep questions under 3 minutes to allow time for others.

1. Use the raise hand function in Zoom

Zoom Phone Controls:

- *6 – Toggle mute/unmute
- *9 – Raise hand

2. Type questions in the Zoom Q&A Box

3. Submit written questions

Send written questions to Natalie.Johnson@energy.ca.gov

Deadline: November 23, 2022, 5:00 p.m. PST

Note that an official CEC response will be provided in writing and posted on the GFO webpage in mid-December.



Written Questions

Please send all questions related to GFO-22-607 to:

Natalie Johnson

Commission Agreement Officer

715 P Street, MS-1

Sacramento, CA 95814

(916) 891-8523

Natalie.Johnson@energy.ca.gov

(Please add subject line: GFO-22-607)

Deadline to submit questions: Wednesday, November 23, 2022, 5:00 p.m. PST

Deadline to submit applications: Friday, February 3, 2023, 11:59 p.m. PST



Next Steps

Activity	Action Date
Deadline for Written Questions by 5:00 p.m.	November 23, 2022
Anticipated Distribution of Question/Answers	Week of December 12, 2022
Deadline to Submit Applications by 11:59 p.m.	February 3, 2023
Anticipated Notice of Proposed Awards Posting	Week of April 24, 2023

Updates to solicitation documents will be posted on the [GFO Webpage](https://www.energy.ca.gov/solicitations/2022-10/gfo-22-607-light-duty-vehicle-and-multi-use-hydrogen-refueling-infrastructure):
<https://www.energy.ca.gov/solicitations/2022-10/gfo-22-607-light-duty-vehicle-and-multi-use-hydrogen-refueling-infrastructure>



Thank You!

Applications are due February 3, 2023, by 11:59 p.m.