



GFO-22-305 Pre-Application Workshop

Advanced Pre-Fabricated Zero Carbon Homes

Energy Research and Development Division, California Energy Commission

Presenter: Jason Tancher, Utility Engineer

Date: January 31st, 2023



Agenda

Time	Item
10:00 am	Welcome and Introduction
10:05 am	Solicitation Background <ul style="list-style-type: none">• EPIC Research Program• Purpose of Solicitation• Available Funding
10:25 am	Application Requirements <ul style="list-style-type: none">• Project Group Requirements• Attachments• Submission Process• Evaluation Process
11:00 am	Q&As
12:00 pm	Adjourn



Housekeeping

- This workshop will be recorded.
- Participants will be muted during the presentation. Please chat your question in the Q&A window.
- Updates on solicitation documents including this presentation will be posted at the Grant Funding Opportunity's webpage:

<https://www.energy.ca.gov/solicitations/2023-01/gfo-22-305-advanced-prefabricated-zero-carbon-homes>



Commitment to Diversity

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

To meet this commitment, Energy Commission staff conducts outreach efforts and activities to:

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



We Want to Hear From You!

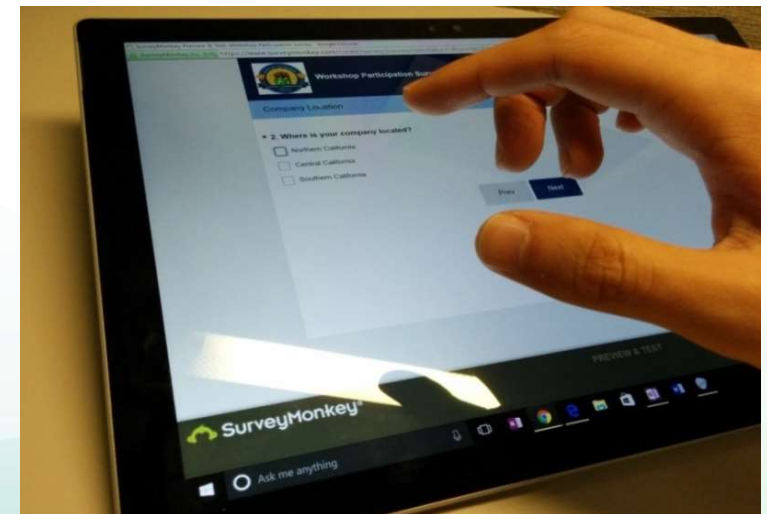
Participation Survey

Survey responses will be summarized anonymously to track attendance of underrepresented groups in our workshops for public reporting purposes.

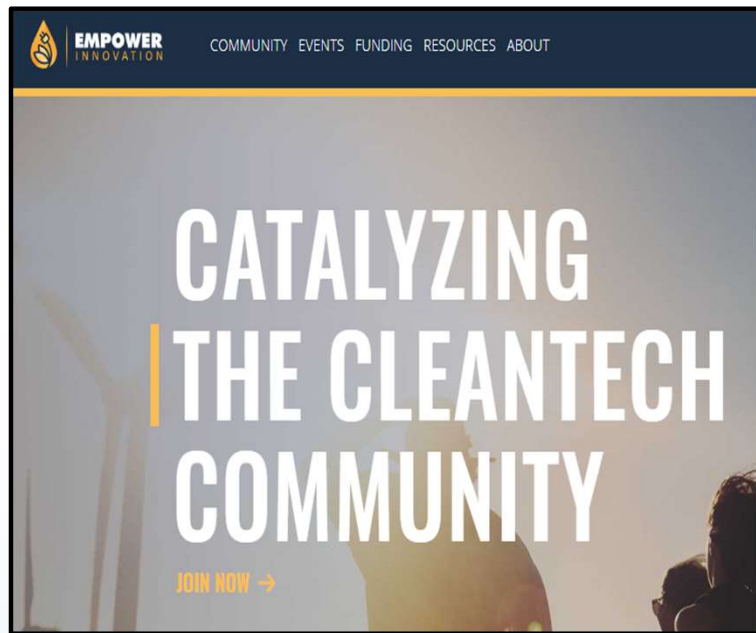
- Online participants, please use link:

<https://forms.office.com/g/cCGRnQyUeE>

Thanks!



Connect With Us





Find a Partner on EmpowerInnovation.net

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

FIND A PARTNER

Announce your interest in this funding opportunity and message other interested parties to find potential partners.

RESOURCES & TOOLS

Browse the collection of resources for clean tech innovators including Resource Libraries, Funding Sources, Tools, and Databases.

<https://www.empowerinnovation.net/en/custom/funding/view/37168>

EmpowerInnovation.net



Research Program Background

- Guided by the EPIC Interim Investment Plan (2021),
- Develop zero-carbon or near-zero-carbon, all-electric, modular and manufactured homes that can be readily deployed.
- The focus is to demonstrate these homes in under-resourced communities (e.g., disadvantaged, low-income, and Native American tribe communities)



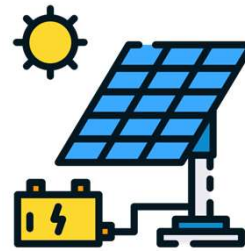
Policy Drivers

- Senate Bill (SB) 32 - California Global Warming Solutions Act of 2006: emissions limit
- SB 350 Clean Energy and Pollution Reduction Act of 2015,
- Senate Bill (SB) 100 - The 100 Percent Clean Energy Act of 2018
- Additional Information available in the Solicitation Manual

Purpose of Solicitation



Decarbonization



Energy Resiliency



Affordability

Exclusively in under-resourced communities



Background and Motivation



Group 1: Manufactured Homes

- Lowest cost home available
- Built to HUD energy efficiency standards



Group 2: Modular Homes

- Factory Built in sections
- Built to Title 24 energy efficiency standards



Available Funding

Project Group	Available Funding	Minimum Award Amount	Maximum Award Amount
Group 1: Develop, Test and Demonstrate Innovative Manufactured Homes	\$7,500,000	\$2,000,000	\$7,500,000
Group 2: Develop, Test and Demonstrate Innovative Modular Homes.	\$7,500,000	\$2,000,000	\$7,500,000



Match Funding

- Match funding is optional.
- Applications that include match funding will receive additional points during the scoring phase.
- Match funding contributors must submit match funding commitment letters that meet the requirements. Failure to do so will disqualify the match funding commitment from consideration.
- Refer to the Solicitation Manual for more details on match funding.



Group 1

Funding Amount: \$7,500,000

Background:

- **Manufactured homes:** These homes are built on steel chassis and transported to the site.
- The destination of these homes are mobile home parks and private lots.
- Must meet the U.S. Housing and Urban Development's (HUD) efficiency standards.
- Often requires a higher interest chattel loan.





Group 2

Funding Amount: \$7,500,000

Background:

- **Modular homes:** These homes are created in sections and then transported to the home site for construction and installation.
- These are typically installed and treated like a standard house for financing, appraisal, and construction purposes.
- These homes must meet California's Title 24 Building Energy Efficiency Standards.



Minimum Requirements (Both Groups)



Partner with Manufacturer



Affordable



All-electric



Back-up power



Near/on-site energy storage



Near/on-site PV



Both Groups

Requirements:

- 10-year cost of ownership that is less than or equal to baseline similar building.
 - The increased energy cost savings must offset the increase in home loan costs.
- Additional details available in the solicitation manual.



Additional Features (Both Groups)



May include:

- Exceed 2022 Title 24
- Use building simulation tools
- Low-GWP refrigerant
- Reduce Construction Emissions
- Reduce Construction Costs
- Fire Resistance
- Island From Grid
- Load Flexibility



Additional Features (Both Groups)

Examples for maximizing benefits to strengthen proposal:

- Identify the manufacturing facility advancements
- Describe the specific advancements to be included in the homes
- Discuss the construction cost at commercial scale
- Specify the location of the factory and the number of homes to be located in under-resourced communities
- Discuss the disposition of the homes at the end of the grant.



Eligible Applicants

- This is an open solicitation for public and private entities.
- Applicants must accept the EPIC terms and conditions.
 - Standard, UC, and DOE T&Cs available online:
<https://www.energy.ca.gov/funding-opportunities/funding-resources>
- Applicants are encouraged to register with the California Secretary of State, as all recipients must be registered and in good standing to enter into an agreement with the Energy Commission: <http://www.sos.ca.gov>



Application Requirements

Each Applicant must complete and including the following:

1. Application Form (.pdf)	8. CEQA Compliance Form (.docx)
2. Executive Summary (.docx)	9. References and Work Product Form (.docx, .pdf)
3. Project Narrative (.docx)	10. Commitment and Support Letters (.pdf)
4. Project Team (.docx, .pdf)	11. Project Performance Metrics
5. Scope of Work (.docx)	12. Applicant Declaration (.docx)
6. Project Schedule (.xlsx)	13. Energy Efficiency Data (.xlsx)
7. Budget (.xlsx)	



Project Narrative (Attachment 3)

- This is your opportunity to explain the entirety of the project. The narrative should explain:
 - Why is your project necessary and important to California?
 - What is your project approach and how will each major task be implemented?
 - How will the project be completed in the term proposed
 - How will the project outcomes benefit electric IOU ratepayers?
 - Address the requirements for your group as described in Section I.C.

Respond to the scoring criteria described in Section IV.F.



Scope of Work (Attachment 5)

- Tell us exactly what you are proposing to do in your project.
- Identify what will be delivered to the Energy Commission.
- Be sure to include in the technical tasks:
 - At least one product deliverable per task.
 - Address requirements in Section I.C. under Project Focus.
- Be sure to include in the Project Schedule (Attachment 6):
 - Product deliverables that correspond with the Scope of Work.
 - Realistic dates on when product deliverables can be completed.



Budget (Attachment 7)

- Identify how the Energy Commission funds and match funds be spent to complete the project
- Subcontractors receiving \$100,000 or more Energy Commission funds must complete a separate budget form.
- Ensure that all rates provided are **maximum** rates for the entire project term.
- Travel Restrictions:
 - CEC funds should be limited to lodging and any form of transportation (e.g., airfare, rental car, public transit, parking, mileage).
 - If an applicant plans to travel to conferences, including registration fees, they **must** use match funds.



Commitment and Support Letter Forms (Attachment 10)

- Follow guidelines provided for commitment and support letters.
 - Commitment letters are required for entities or individuals that are committing match funding, testing/demonstration sites, including the **Prime**.
 - Support letters describe a project stakeholder's interest or involvement in the project.
- All applicants must submit **at least one** support letter.
- Match funding must be supported by a match fund commitment letter.
- Any project partners that will make contributions to the project (other than match and sites) must submit a commitment letter.
- Limit to two pages per letter, excluding the cover page.



GFO Submission Requirements

- Method of Delivery is the Energy Commission Grant Solicitation System, available at: <https://gss.energy.ca.gov/>
- Electronic files must be in Microsoft Office Word (.doc, .docx) and Excel (.xls, .xlsx) formats, unless originally provided in solicitation in another format.
- Application documents should meet formatting requirements, and page recommendations.
- Attachments requiring signatures (Application Form and Support/Commitment Letters) may be scanned and submitted in PDF format.
- First-time users must register as a new user to access system.
- Grant Solicitation System (GSS) How to Apply presentation: <https://www.energy.ca.gov/media/1654>



GSS WARNING

START THE PROCESS EARLY!

- Applications must be fully submitted BEFORE the deadline listed in the solicitation manual
- The GSS system will shut off at the deadline
- Applications in the process of being submitted prior to the deadline will NOT be accepted after the deadline
- Applications will NOT be accepted after the deadline



GSS Structure

- Register as a New User
- Log In
- 3 Step Application Process:
 1. Select Solicitation
 2. Upload Files
 - Select documents for upload
 - Tag files with document type
 - Designate confidential documents (if applicable)
 3. Review and Submit

All three steps must be complete BEFORE the deadline



How will my Application be Evaluated?

Application Screening

Admin Screening Process

- Energy Commission staff screens applications per criteria in Section IV.E.
- Criteria are evaluated on a pass/fail basis.
- Applicants must pass all screening criteria or the application will be disqualified.

Some Reasons for Disqualification

- Application is not submitted by the specified due date and time.
- Application does not include one or more support letters.
- Application contains confidential material.



How will my Application be Evaluated?

Application Scoring

- **Evaluation Committee applies the scoring scale to the scoring criteria.**
- **Applications must obtain a minimum passing score of 52.5 points for Criteria 1-4 in order to continue evaluation.**
- **Applications must obtain a minimum passing score of 70 points for Criteria 1-7 in order to be considered for funding.**
- **Review Section IV of the manual and ensure the application provides a clear and complete response to each scoring criteria.**

Scoring Criteria	Maximum Points
1. Technical Merit	15
2. Technical Approach	25
3. Impacts and Benefits for CA IOU Ratepayers	20
4. Team Qualifications, Capabilities, and Resources	15
5. Budget and Cost-Effectiveness	10
6. CEC Funds Spent in California	10
7. Ratio of Direct Labor Costs to Indirect Costs	5



Evaluating Projects

Proposed Scoring Criteria	Maximum Points
8. <i>Benefits to Disadvantaged/Low-Income Communities and Localized Health Impacts</i>	
8.1 Benefits to Disadvantaged/Low-Income Communities	15
8.2. Community Engagement Efforts	10
8.3. Localized Health Impacts	15
8.4. Technology Replicability	5
8.5. Project Support Letters	5
Total Possible Points for criteria 8 (Minimum Passing Score for criteria 8 is 70% or 35.00)	50
Total Possible Points for Proposal	150



Identifying Disadvantaged Communities

These areas represent the **25% highest scoring census tracts in CalEnviroScreen**, along with other areas with high amounts of pollution and low populations.

<https://oehha.ca.gov/calenviroscreen/sb535>

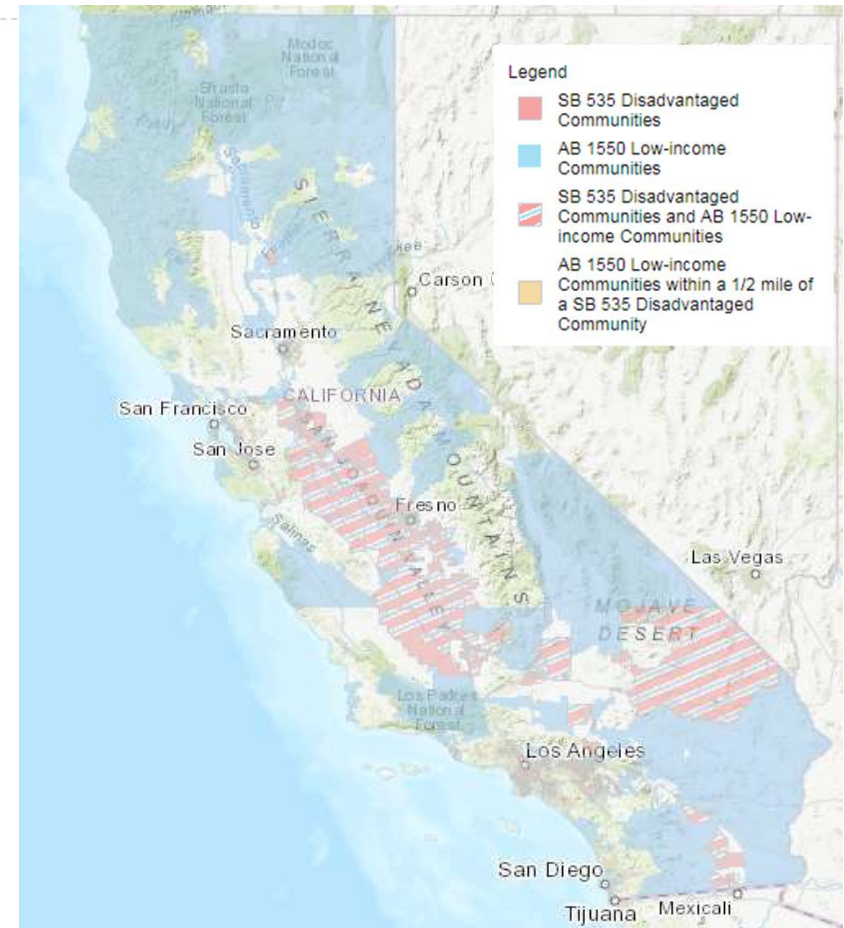




Identifying Low-Income Communities

Energy Commission staff proposes to use the existing low-income mapping tool developed by ARB to determine AB 523 low-income communities

<https://www.arb.ca.gov/cc/capa/ndtrade/auctionproceeds/communityinvestments.htm>





Community Based Organization Requirements



Has an office in the region and meets the demographic profile of the communities they serve



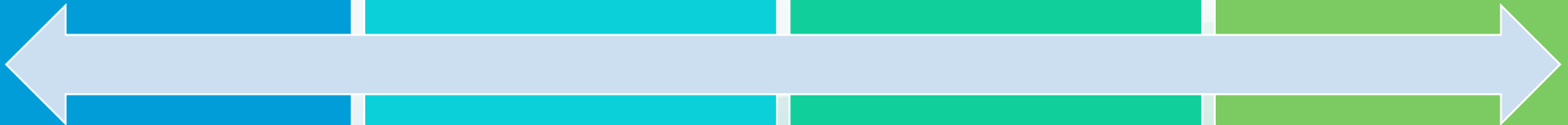
Has deployed projects and/or outreach efforts within the region



Have official mission and vision statements that expressly identifies serving DAC or LI communities



Employs staff specialized in and dedicated to – diversity, equity, inclusion, or is a 501(c)(3) non-profit





How will my Application be Evaluated? Application Scoring – Preference Points

- **Passing applications (score of 70 or more from Criteria 1-7) will be considered for bonus points. Criteria for bonus points include:**
 - **Match Funding**

Scoring Criteria	Maximum Points
9. Match Funds	10
Total Bonus Points	10



Match Funding Points

- Applicants may receive up to 10 additional preference points based on the criteria below:
 - Up to 5 points will be awarded based on the percentage of proposed cash relative to the total match contributions using the Match Scoring Table in the Scoring Criteria.
 - The remaining 5 points may be awarded to applications that exceed the minimum match requirements up to 100 percent of requested CEC funds using the Exceeds Minimum Match Scoring table.



Next Steps After Grant Award

- **Notice of Proposed Award:** Shows total proposed funding amounts, rank order of applicants by project group, and the amount of each proposed award.
- **Agreement Development:** Proposal documents will be processed into a legal agreement.
- **Failure to Execute:** The Energy Commission reserves the right to cancel the pending award if an agreement cannot be successfully executed with an applicant.
- **Project Start:** Recipients may begin work on the project **only** after the agreement is fully executed (approved at an Energy Commission business meeting and signed by the Recipient and the Energy Commission).



Key Dates

Activity	Date
Solicitation Release	01/11/2023
Pre-Application Workshop	01/31/2023
Deadline for Written Questions	02/03/2023 at 5:00 pm
Anticipated Distribution of Questions and Answers	Week of 02/17/2023
Deadline to Submit Applications	03/17/2023 at 11:59 pm
Anticipated Notice of Proposed Award Posting	04/18/2023
Anticipated Energy Commission Business Meeting	06/14/2023
Anticipated Agreement Start Date	07/05/2023
Anticipated Agreement End Date	03/29/2027



Questions and Answers

- Please chat your question in the Question and Answers window or raise your hand and you will be called on to unmute yourself. Please remember to introduce yourself by stating your name and affiliation. (Feature found under the Participants panel)
- Keep questions under 2 minutes to allow time for others.
- Note that our official response will be given in writing and posted on the GFO webpage.



Additional Questions

Please send all questions related to GFO-22-305 to:

Brad Worster

Commission Agreement Officer

715 P Street, MS-18

Sacramento, CA 95814

(916) 897-1647

brad.worster@energy.ca.gov

Deadline to submit questions:

Friday, February 3rd, 2023 5:00 PM

Thank You!

