

DOCKETED

Docket Number:	16-OIR-06
Project Title:	Senate Bill 350 Disadvantaged Community Advisory Group
TN #:	251126
Document Title:	Presentation - Research & Development Program Funding and Equity Goals - 7-21-23
Description:	DACAG Presentation-072123-ERDD
Filer:	Dorothy Murimi
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	7/21/2023 12:42:46 PM
Docketed Date:	7/21/2023



Research & Development Program Funding and Equity Goals

July 21, 2023, DACAG Meeting

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Energy Research & Development Division



Electric Program Investment Charge (EPIC)





EPIC Program Overview

Funding

- **\$632+ million** available in EPIC 4 (2021-2025)
- Funded by CA's 3 largest investor-owned utilities (PG&E, SCE, SDG&E)

Goals & Requirements

- New technology breakthroughs to:
 - Transform the electricity sector
 - Advance CA's energy/climate policy goals
- Must benefit ratepayers
- Demonstration projects must be in the investor-owned electric service areas

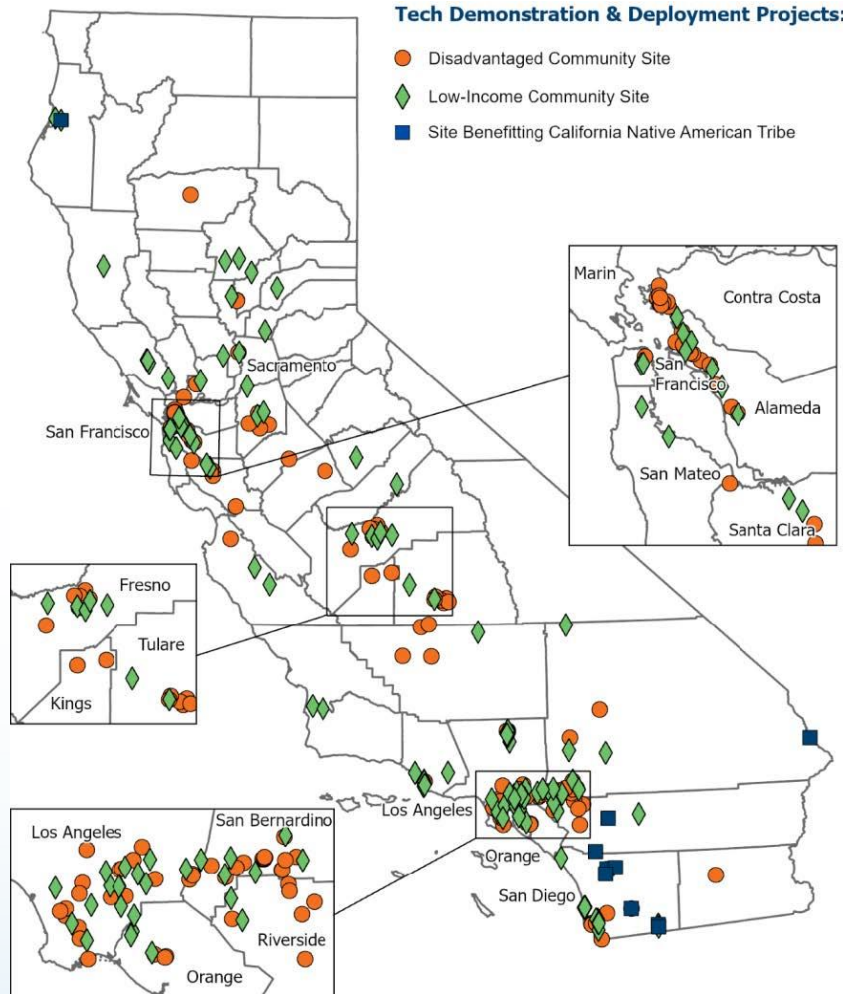
Equity Focus

- 25%+ demonstration investments in disadvantaged communities*
- 10%+ demonstration investment in low-income communities*
- Set-asides for CA Native American Tribes
- Application of DACAG Equity Framework in EPIC 4

*Assembly Bill 523 (Statutes of 2017) defines disadvantaged communities using the CalEnviroScreen and low-income communities at or below 80% of state median income levels



EPIC Demonstration Projects for Under-resourced Communities & Tribes



EPIC Technology Demonstration and Deployment Funding:

- **70%+** in disadvantaged and low-income communities
- **\$22 Million** to California Native American tribes

Map of EPIC Technology Demonstration and Deployment Projects in Disadvantaged or Low-Income areas.

Source: California Energy Commission



EPIC Program: Funding Opportunity

Title: (GFO-22-307) Optimizing Long-Duration Energy Storage to Improve Resilience and Reliability in Disadvantaged and Low-Income Communities and Native American Tribes

Total Funding: \$29.2 million

Application Deadline: September 7, 2023

Purpose:

- Fund long duration, non-lithium-ion energy storage technology demonstration and deployment projects
- Accelerate commercialization and validate the capability of these technologies
- Improve grid reliability and resilience in disadvantaged and low-income communities and on California Native American Tribal lands

More information available at: <https://www.energy.ca.gov/solicitations/2023-06/gfo-22-307-optimizing-long-duration-energy-storage-improve-resilience-and>



EPIC Program: Upcoming Funding Opportunity

Topic: Non-energy Impacts and Process Evaluation of Integrated Energy Retrofit Packages in California's Residential Buildings

Goal: Assess impact of consolidated packages of electrified retrofit measures on air quality and other impact categories in disadvantaged and low-income community homes

Anticipated Benefits:

- Maximize non-energy/environmental benefits while lowering costs to residents
- Collect field data on barriers to retrofit homes
- Assess non-energy benefits of home electrification
- Possibly support CEC's Equitable Building Decarbonization Program

Scoping Workshop: July 28, 2023, 10am-Noon

More information available at: <https://www.energy.ca.gov/event/workshop/2023-07/staff-workshop-indoor-air-quality-and-co-benefits-integrated-energy-retrofit>

*Funding Opportunity anticipated in fall 2023



EPIC Program: Impactful Projects

Microgrids

- 65 projects in disadvantaged and low-income communities or on California Native American Tribal lands

Vehicle-to-Building

- 2 projects in disadvantaged or low-income communities
- Demonstration at public buildings

Next EPIC Challenge

- 11 projects across CA
- Design-Build competition for new, all-electric, mixed-use
- Requirements for affordable housing and low-income
- Innovative technologies, design/construction
- Protection against climate change impacts/power outages



EPIC Program Impactful Projects

Announcement of Proposed Awards Coming Soon!

GFO-22-305: Advanced Prefabricated Zero Carbon Homes

Total Funding Available: \$15 million

- Develop, test, and demonstrate zero-carbon/near-zero-carbon cost-effective, modular, and manufactured homes
- All projects in disadvantaged and low-income communities or on California Native American Tribal lands
- Focus on cost-reduction for affordability
- Results can increase cost-effectiveness of energy efficient prefabricated homes



More information available at:

<https://www.energy.ca.gov/event/funding-workshop/2023-01/pre-application-workshop-gfo-22-305-advanced-prefabricated-zero>



NEW: Community Energy Resilience Investment (CERI) Program





CERI Program Overview



Funding

~\$170 million over 5 years from Infrastructure Investment and Jobs Act Grid Resilience Formula Funds.



Grid-hardening solutions such as:

- Rebuilding powerlines
- Undergrounding powerlines
- Storage and microgrids (new generation excluded)
- Others that help the grid adapt to extreme weather



Mission

Invest in projects across California that:

- Increase community energy resilience and reliability
- Promote decarbonization of the electric system
- Improve energy justice and equity
- Create good-paying jobs



Priority Communities

- Disadvantaged communities
- Communities with critical energy resilience needs



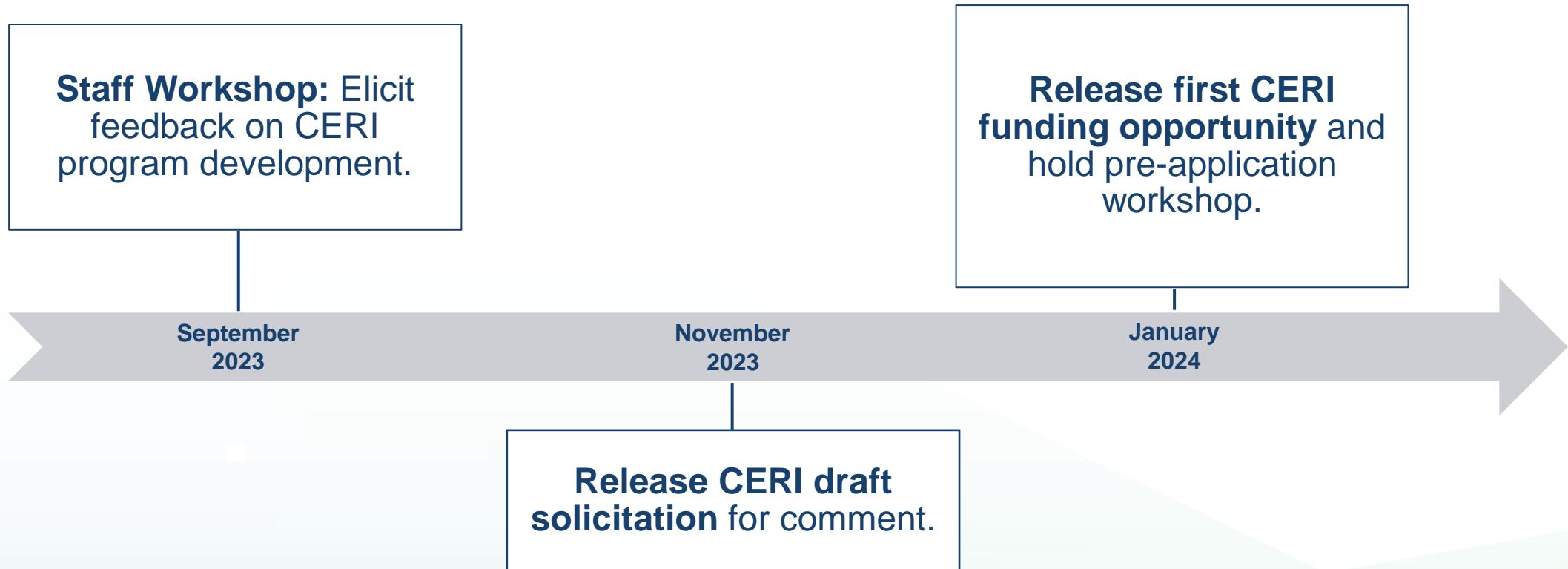
Eligible Entities

- Electric grid, storage, and transmission owners and operators
- Fuel suppliers
- Distribution providers

Projects

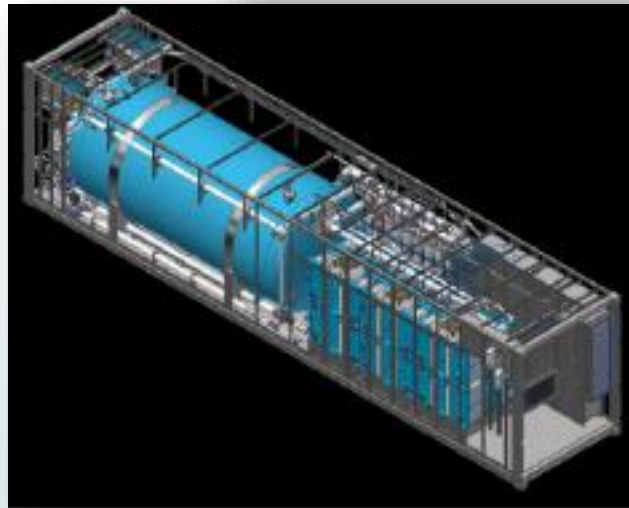


CERI Next Steps





NEW: Long-Duration Energy Storage Program





Long Duration Energy Storage Program



Funding

- \$297 million available (2022-2030)



Goals

- Demonstrate commercial readiness of non-lithium/non-pumped hydro energy storage
- Long-duration of 8+ hours



Investments

- 3 awards totaling \$64+ million
 - 2 projects with Viejas Tribe and Paskenta Band of Nomlaki Indians
- Next solicitation anticipated Q1 2024



Thank You!

