

**DOCKETED**

<b>Docket Number:</b>	17-GRDA-01
<b>Project Title:</b>	Geothermal Grant and Loan Program Workshops and Discussions
<b>TN #:</b>	250747
<b>Document Title:</b>	Presentation - Geothermal Grant and Loan Program Pre-Solicitation Workshop
<b>Description:</b>	Presentation Slideshow of the June 27, 2023, Geothermal Grant and Loan Program Pre-Solicitation Workshop
<b>Filer:</b>	Jordan Grimm
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	6/27/2023 8:53:46 AM
<b>Docketed Date:</b>	6/27/2023



# Geothermal Grant and Loan Program Pre-Solicitation Staff Workshop

Tuesday, June 27, 2023

Hybrid Workshop

San Diego State University and Online





# Diversity Survey

The Energy Commission is committed to ensure participation in its funding programs.

We are collecting voluntary information about the attendance of this workshop.

The information supplied will be used for to display anonymous overall attendance of diverse groups, including community-based organizations and small and diverse-owned businesses.



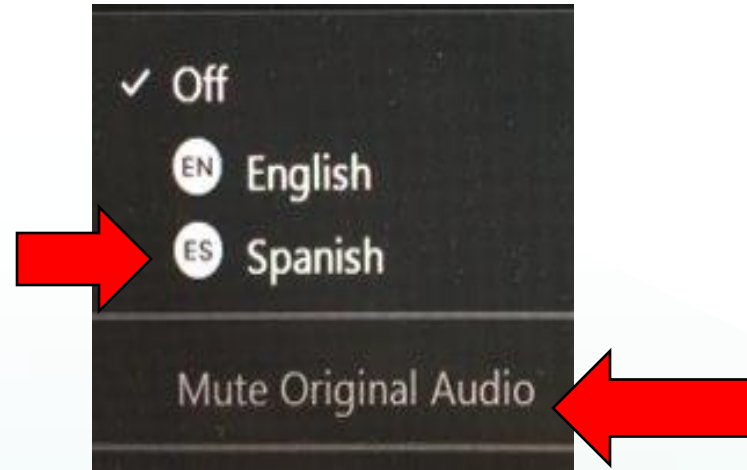
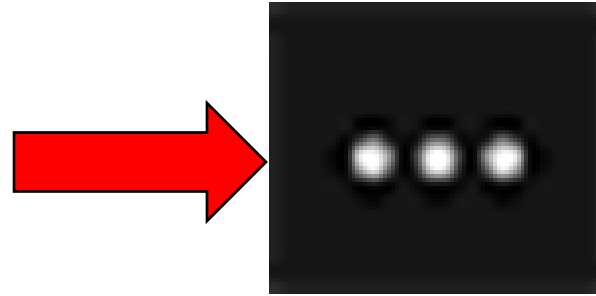


# Interpreting on Tablet/Smartphone

## Interpretación usando tableta o teléfono inteligente

To listen in English or Spanish, use controls to:

- 1) Tap for more options
- 2) Tap interpretation
- 3) Tap preferred language
- 4) Tap "Mute Original Audio"



Para escuchar en inglés o español, use los controles para:

- 1) Tener más opciones
- 2) Hacer clic en interpretación
- 3) Escoger el idioma preferido
- 4) Hacer clic en "Mute Original Audio"

**Note:** To use interpretation feature, download Zoom application on your device.

**Nota:** Para usar la opción de interpretación, descargue la aplicación Zoom en su aparato.



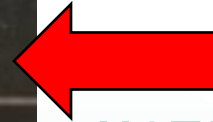
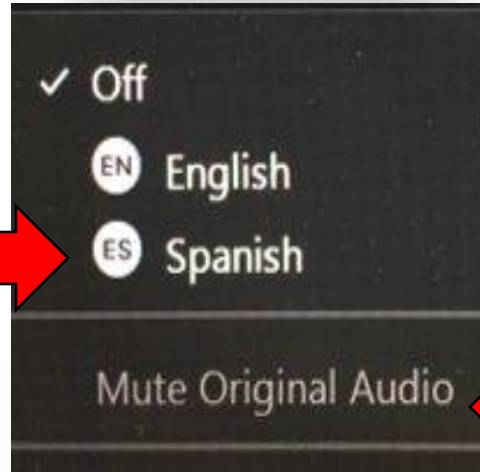
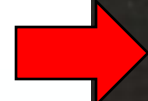
# Interpretation / Interpretación

1) Click globe “Interpretation” icon.



2) Click “ES Spanish” option

3) Click “Mute Original Audio”



1) Haga clic en el icono del globo de interpretación

2) Haga clic donde dice “ES Spanish”

3) Haga clic en “Mute Original Audio”

**NOTE:** To access interpretation, download Zoom application on your device. Interpreter will relate everything from English to Spanish during meeting and will inform you when to make public comment. Speak in Spanish and interpreter will relate comments to English.

**NOTA:** Para utilizar la función de interpretación, descargue la aplicación Zoom en su aparato. El intérprete relacionará todo lo dicho en inglés al español durante la junta y le informará cuándo podrá hacer un comentario público. Hable en español y el intérprete relatará sus comentarios en inglés.



# Zoom Instructions / Instrucciones de Zoom

- For public comment
  - By computer: use “raise hand” feature
  - By telephone: dial \*9 to “raise hand” and \*6 to mute or unmute
- Enter Questions and Comments in Q&A function
- Para participar en los comentarios públicos
  - Por computadora: use la función de “levantar la mano” que parece una palma abierta
  - Por teléfono: marque \*9 para “levantar la mano” y \*6 para silenciar y activar el sonido
- Para hacer preguntas y comentarios use la función nombrada preguntas y respuestas



# Workshop Purpose

- Obtain input about a proposed Geothermal Grant and Loan Program Solicitation
- Specifically, the proposed list of eligible purposes for projects to be included in the upcoming solicitation
- Para obtener la opinión de los participantes sobre una convocatoria propuesta para el Programa de Subvenciones y Préstamos Geotérmicos
- Específicamente información sobre la lista propuesta de objetivos elegibles para los proyectos que se incluirán en la próxima convocatoria



# Upcoming Solicitation Information

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- Anticipated release date: late summer 2023
- Selection Process: competitive grant process
- Passing score: 70% or higher
- Funds Available: \$3.5 million
- Project timeline: grant agreements expected to start in March 2024 **and end no later than March 2027**





# Written Comment Instructions / Instrucciones para Comentarios Escritos

- Due **July 11, 2023, by 5:00 PM**
  - Submit through the e-comment system
  - Geothermal Grant and Loan Program Website
  - GRDA-17-01 Docket
- Envié comentarios escritos a través del sistema de comentarios electrónicos antes de las **5:00 PM del 11 de julio.**
  - Geothermal Grant and Loan Program Página web
  - GRDA-17-01 Expediente



# Agenda

- Introduction and Background on Geothermal Grant and Loan Program
- Presentation about the Plans for the 2023 Geothermal Grant and Loan Solicitation
  - Proposed List of Projects Eligible for Funding
  - Eligible Applicants
  - Proposed Timeline for Solicitation
- Question & Answer Session
- Public Comment Period

# Agenda

- Introducción y antecedentes del Programa de Subvenciones y Préstamos Geotérmicos
- Presentación sobre los planes para la convocatoria del Programa de Subvenciones y Préstamos Geotérmicos de 2023
  - Lista propuesta de proyectos elegibles para la financiación
  - Solicitantes elegibles
  - Calendario propuesto para la convocatoria
- Sesión de preguntas y respuestas
- Período de comentarios del público



# Geothermal Grant and Loan Program Background

- Geothermal Resources Development Account (GRDA) is funding source; established in 1980
- Uses revenues paid to state from geothermal royalties and leases on federal lands in CA
  - 40% to counties of origin
  - 30% to CEC
  - 30% to Renewable Resources Investment Fund
- Funding granted every 4 - 5 years using competitive solicitations
- The 2016 solicitation focused on a variety of eligible purposes for funding projects
- Last solicitation released in 2017 and focused specifically on lithium extraction from geothermal brine per SB 1074 (Hueso, 2016)



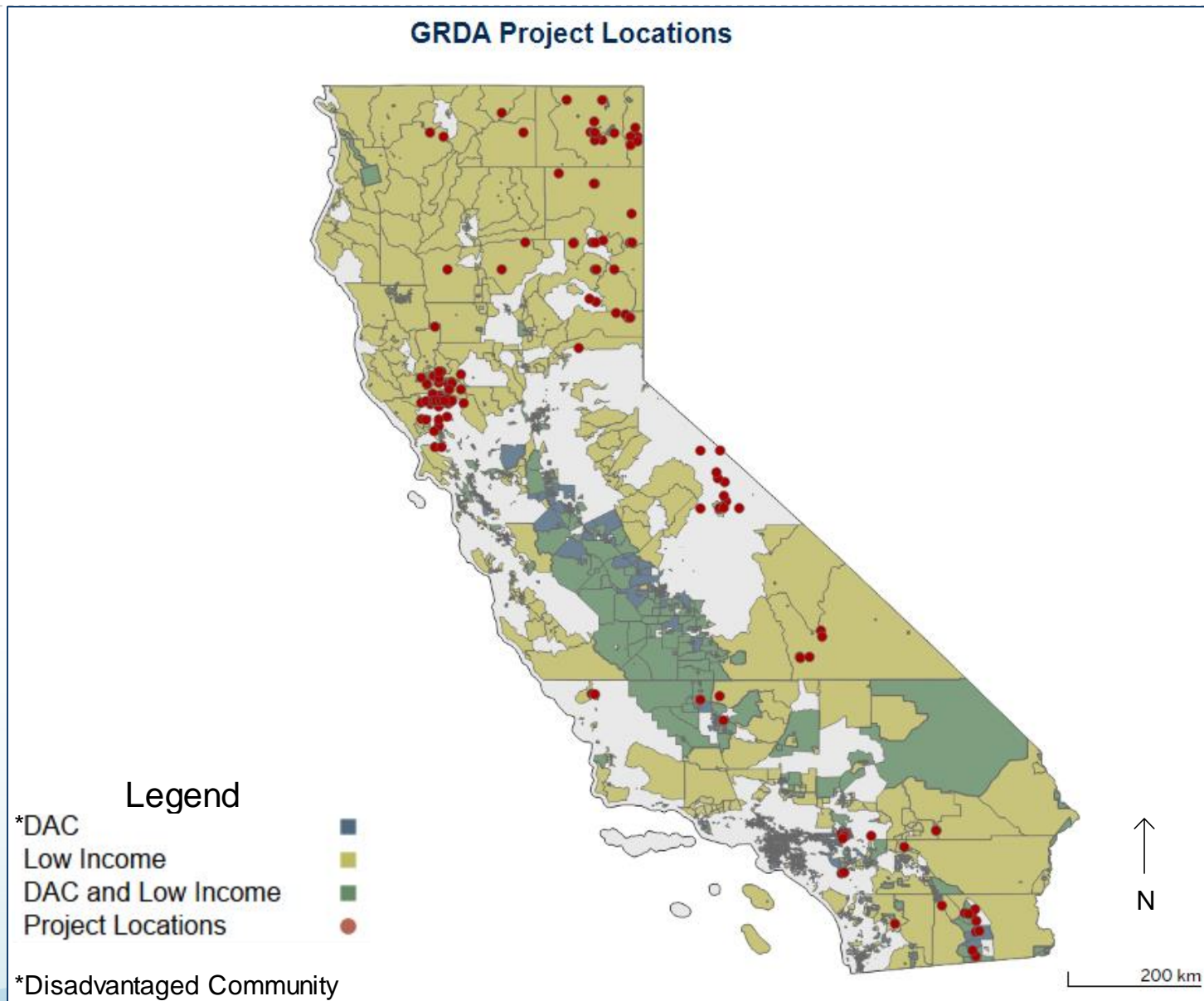
# GRDA Program Mission

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- Support development of CA's vast geothermal energy resources and advance lithium recovery in the state
- Support the State's energy and climate goals and the lithium vision
- Mitigate adverse impacts caused by geothermal development and lithium extraction from geothermal brine
- Assist local jurisdictions and private entities offset costs

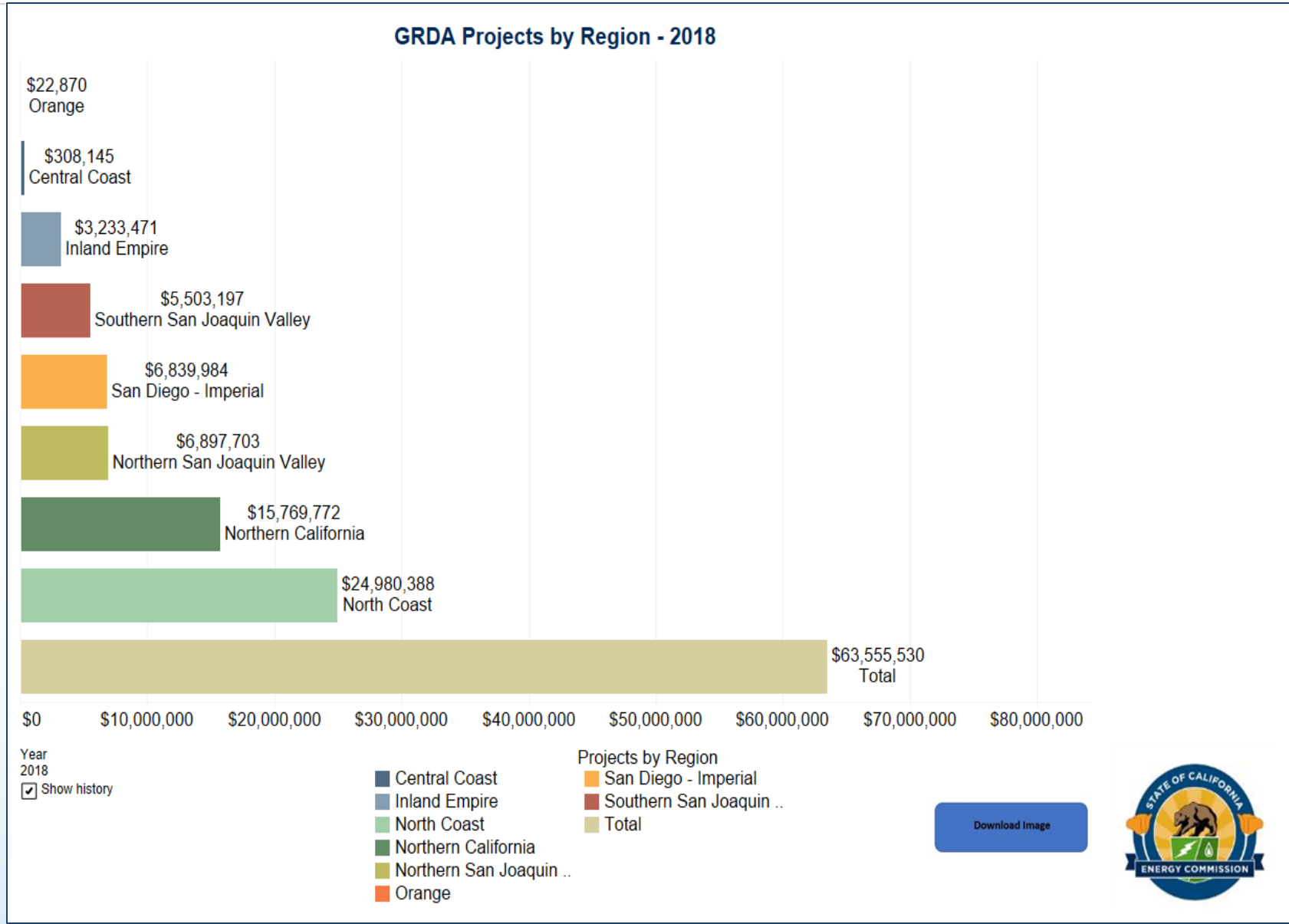


# GRDA Impact: Locations





# GRDA Impact: Funding





# GRDA Program Statute and Regulations

## Statute

- Public Resources Code (PRC). Division 3. Chapter 6. Sections 3800 – 3827
- Defines who can apply and what purposes of projects can be funded

## Regulations

- Title 20. Division 2. Chapter 4. Article 7. Sections 1660 – 1665 and Appendix A
- Defines application process, award procedures, and scoring criteria



# Eligible Applicants (PRC 3822)

## Local Jurisdiction (PRC 3807)

- Any unit of California Native American Tribes
- Any city, county, or district, including, but not limited to, regional planning agencies and public utility districts

“Public utility district” does not include any public utility district which generates for sale more than 50 megawatts gross of electricity.

## Private Entities (PRC 3809):

- Any individual or organization engaged in exploration and development of geothermal energy for profit
- Grant project must provide tangible benefits to a local jurisdiction
- Receipt of grant award must be approved by the city, county or Native Tribe reservation where project is to be located

Federal agencies and labs, state universities, and state agencies:

- not eligible to apply for funding;
- may be eligible as a project partner or subcontractor.





# Eligible Purposes (PRC 3823)

- "Eligible purposes" refers to scope of projects eligible for funding
- In 2016, certain mineral recovery activities were added as an eligible purpose
- In 2022, extraction of minerals from geothermal brines, and related activities, including mitigation measures that provide community benefits directly or indirectly related to adverse social and economic impacts



# List of Eligible Purposes

- (a) Undertaking research and development projects relating to geothermal resource assessment and exploration, and direct-use and electric generation technology.
- (b) Local and regional planning and policy development and implementation necessary for compliance with programs required by local, state, or federal laws and regulations.
- (c) Identification of feasible measures that will mitigate the adverse impacts of the development or production of geothermal resources, the extraction of minerals from geothermal brines, and related activities, and the adoption of ordinances, regulations, and guidelines to implement those measures.
- (d) Collecting baseline data and conducting environmental monitoring.
- (e) Preparation or revision of geothermal resource elements, or geothermal components of energy elements, for inclusion in the local general plan, zoning and other ordinances, and related planning and environmental documents.
- (f) Administrative costs incurred by the local jurisdiction that are attributable to the development or production of geothermal resources, the extraction of minerals from geothermal brines, and related activities
- (g) Monitoring and inspecting geothermal facilities and related activities to assure compliance with applicable laws, regulations, and ordinances.
- (h) Identifying, researching, and implementing feasible measures that will mitigate the adverse impacts of the development or production of geothermal resources, extraction of minerals from geothermal brines, and related activities, including mitigation measures that provide community benefits directly or indirectly related to adverse social and economic impacts.
- (i) Planning, constructing, providing, operating, and maintaining those public services and facilities that are necessitated by, and result from, the development or of geothermal resources, the extraction of minerals from geothermal brines, and related activities.
- (j) Undertaking projects demonstrating the technical and economic feasibility of geothermal direct heat and electrical generation applications.
- (k) Undertaking projects for the enhancement, restoration, or preservation of natural resources, including, but not limited to, water development, water quality improvement, fisheries enhancement, and park and recreation facilities and areas.
- (l) In furtherance of the state's zero-emission vehicle and energy storage objectives, undertaking projects to recover lithium, metals, agricultural products, and other beneficial minerals from highly mineralized geothermal brines at a geothermal facility, that is in a disadvantaged community and provides local employment opportunities.



# Proposed Eligible Purposes for Funding

(a) Research and development projects

**(b) Planning and policy development**

**(c) Preparation of ordinance, regulation and guidelines for identified mitigation measures of adverse impacts**

(d) Data collection and environmental monitoring

(e) Support the preparation of environmental documents

(f) Support of administrative tasks

**(g) Monitoring and inspection for compliance**

**(h) Identification, research, and implementation of mitigation measures of adverse social and economic impacts**

**(i) Planning, construction, operation and maintenance of public services and facilities**

(j) Technical and economic assessment

**(k) Enhancement, restoration, or preservation of natural resources**

**(l) Recovery of lithium, minerals, metals from geothermal brine**



# Proposed Eligible Purposes?

Proposed eligible purposes: b, c, g, h, i, k, and l

Based on current needs for local jurisdictions and private entities to prepare for and support development of geothermal resources, the extraction of minerals from geothermal brines, and related activities.

## QUERIES:

- Do the proposed eligible purposes meet the current needs of the sector?
- Should other eligible PRC 2823 purposes be considered? If so, why?

## 3-MINUTE TIMER



# Proposed Funding Amount?

Solicitation total budget of \$3.5 million. Expect to select 2 to 3 projects of about \$1.1m budget per project

**QUERY:** Is this a feasible amount to complete the scope of the types of projects meeting any of the proposed eligible purposes?

**3-MINUTE TIMER**





# Proposed Timeline and Process?

Anticipated deadline to submit applications is late fall 2023.

**QUERY:** Are there concerns with the proposed timeline or award process?

**3-MINUTE TIMER**





# Deadline for Written Comments

**Due: July 11, 2023, at 5:00 PM**

[Submit E-Comment: 17-GRDA-01](#)

[Docket: 17-GRDA-01](#)

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### Add Comment

Docket #: 17-GRDA-01 Project Title: Geothermal Grant and Loan Program Workshops and Discussions

Fields denoted by an asterisk (\*) are required.

#### Contact Information

Full Name \* Business or Entity Name or Your Name (if filing for yourself)

Contact Address

Email Address \*

Address 2

Role in this Proceeding

City  State  Zip

#### Comment

Comment Title \*

Subject(s)

128 Character left out of 128

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### Docket Log

Docket: 17-GRDA-01  
Project Title: Geothermal Grant and Loan Program Workshops and Discussions  
Generated On: 6/14/2023 12:38:06 PM

Include:  Documents  Comments  Transcripts

↓ TN #	Docketed Date	Document Title	Exhibit #	To	From
232255	2/28/2020	<a href="#">Geoff Niswander Comments - Lithium Symposium</a> 1 page(s)		CEC/Docket Unit	Geoff Niswander
232243	2/27/2020	<a href="#">Jade Cove Partners Comments - The California Lithium Supply Chain Opportunity</a> 1 page(s)		CEC/Docket Unit	Jade Cove Partners
232067	2/18/2020	<a href="#">Richard Lombardi Comments - Would like information</a> 1 page(s)		CEC/Docket Unit	Richard Lombardi
232064	2/18/2020	<a href="#">Presentations of California's Lithium Recovery Initiative - Symposium February 12, 2020</a> 60 page(s)		CEC/Dockets	California Energy Commission
231958	2/6/2020	<a href="#">Schedule of California's Lithium Recovery Initiative - Symposium February 12, 2020</a> 1 page(s)		CEC/Dockets	California Energy Commission
231542	1/15/2020	<a href="#">Notice of California's Lithium Recovery Initiative - Symposium February 12, 2020; 1:00 p.m.</a> 4 page(s)		CEC/Docket Unit	California Energy Commission



# Public Comment

## Instruction

- 3 minutes or less per person
- 1 representative per organization

## Zoom App/Online

- Click “raise hand”

## Telephone

- Press \*9 to raise hand
- Press \*6 to (un)mute

## When called upon

- Zoom Hosts will open your line
- Unmute, spell name, state affiliation, if any for the record, then begin your comment.

## Written Comments:

- Visit [CEC Geothermal Grant and Loan Program Webpage](#)
- Click on [Submit Comments \(17-GRDA-01\)](#)

## 3-MINUTE TIMER







# Thank You

Contact: [Erica.Loza@energy.ca.gov](mailto:Erica.Loza@energy.ca.gov)

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List Serve: Geothermal