



# Workshop

## American Recovery and Reinvestment Act of 2009 Cost Share

PIER Energy Research, Development and  
Demonstration

*Hearing Room B  
California Energy Commission  
June 26, 2009  
9am*

# Agenda



1. Introduction and workshop logistics (5 min)
2. Welcome and Overview of the ARRA Cost Share Solicitation (15 min)
3. Details of Solicitation (30 min)
  - Funding information; Eligible Applicants; Eligible Projects; Selection and Award Process; Schedule and deadlines
4. Session/Project Specific Details (30 min)
  - Examples of project areas; Pre-application requirements; Final application scoring criteria; CBE Preference Points
5. Administrative requirements (20 min)
6. Questions & Answers (20 min)



# Welcome and Overview of ARRA Cost Share Solicitation

**Sandra Fromm**



# Purpose of the ARRA Cost Share Solicitation

# Purpose of this Solicitation



- This is a competitive solicitation, limited to applicants who are submitting applications to energy research and development-related ARRA funding opportunity announcement(s)
- Identify and offer eligible applicants funding to be used as cost share for their application to the federal government.



## To be eligible for funding, applicants must fulfill all of these requirements:

- Seek and obtain an award through one of the ARRA funding opportunity announcements identified in this solicitation.
- Address the pre-application requirements and final application evaluation criteria.
- Obtain a minimum passing score..
- Applications are consistent with the goals of the PIER program (Public Resources Code Section 25620 et seq.) and of the relevant federal funding opportunity announcement.



# ARRA Funding Opportunity Announcements

# ARRA Funding Opportunity Announcements



To participate in this solicitation, applicants must submit applications to the federal government in response to one or more of the following ARRA funding opportunity announcements:

- Enhanced Geothermal Systems Component Research and Development/Analysis, DE-FOA-0000075
- Enhanced Geothermal Systems Demonstration, DE-FOA-0000092
- Geothermal Technologies Program, DE-FOA-0000109
- High Penetration Solar Deployment, DE-FOA-0000085



# Details of Solicitation

Rizaldo Aldas



# Funding Information

## Up to \$21 million of PIER funds

for cost share for current and future research-related ARRA funding opportunities

### Attention

- ❖ The Energy Commission reserves the right to adjust the available funding for this solicitation.
- ❖ Pursuant to Executive Order S-09-09, the Energy Commission may be prohibited from awarding match funding under this solicitation. The Applicant will be responsible for obtaining sufficient cost share to meet ARRA funding requirements if the Energy Commission is unable to successfully execute a funding agreement.

# Funding Information



## Maximum ARRA cost share to be awarded for any one application

ARRA Funding Opportunity Announcement	Maximum Energy Commission Cost Share for a Single project
Enhanced Geothermal Systems Component Research and Development/Analysis, DE-FOA-0000075	<b>\$380,000</b>
Enhanced Geothermal Systems Demonstration, DE-FOA-0000092	<b>\$250,000</b>
Geothermal Technologies Program, DE-FOA-0000109	<b>\$410,000</b>
High Penetration Solar Deployment, DE-FOA-0000085	<b>\$500,000</b>



# Eligible Projects

# Eligible Projects



## To be eligible to receive cost share award:

- Project must advance the science and technology of energy technologies
- Project must meet the minimum scoring criteria.
- Projects must be based in California.
- Project must correspond to the eligibility requirements of the relevant ARRA funding opportunity announcement **and receive ARRA funding from the federal government.**



# Eligible Applicants

# Eligible Applicants



This is an open solicitation and all types of organizations may be eligible to apply (refer to relevant FOA for federal eligibility requirements) subject to the following conditions:

- Application is for new projects or new tasks associated with existing projects.
- Organizations may submit multiple proposals.
- Each application must be distinct & separate project.
- Each application must be submitted separately adhering to all requirements contained in this solicitation.

# Eligible Applicants



## ATTENTION

**California** business entities as well as non-California business entities conducting intrastate business in California are required to register and be in good standing with the California Secretary of State

- If not currently registered with the California Secretary of State, Applicants are encouraged to contact the Secretary of State's Office as soon as possible to avoid potential delays in beginning the proposed project if your application is successful.
- For more information, contact the Secretary of State's Office via their website at [www.sos.ca.gov](http://www.sos.ca.gov).



# Selection of Projects & Award Process

# Selection & Award Process



## The Energy Commission will employ the following two-step process:

- Submission of a pre-application
  - Final application (if invited)
- 
- Pre-applications and final applications that meet the eligibility requirements will be reviewed by an Evaluation Committee.
  - The Evaluation Committee and any application reviewers will keep the contents of the pre-applications and final applications confidential until they become publicly accessible.



# Pre-Application

# Selection & Award Process:

## Pre-application



The Energy Commission will consider pre-applications that contain all of the following information:

- Cover Page (Attachment A)
  - The cover page is a separate Microsoft Word document that can be accessed at [www.energy.ca.gov/contracts](http://www.energy.ca.gov/contracts) as part of this solicitation package.
- Project Summary (Requirements specified in Attachment B)
- California Environmental Quality Act (CEQA) Compliance Form (Attachment O, Form 1).
- Short biographies for the Project Manager/Principal Investigator and key project personnel
  - **No more than 200 words per person. Do not submit complete resumes.**
- Signature of the organization's authorized representative

# Selection & Award Process:

## Pre-application



1. Pre-applications will be reviewed by an Evaluation Committee
2. Letter of Intent (LOI) to Provide Funding will be sent to selected pre-applications
  - Applicants may include the Letter of Intent in an application for funding through any of the federal funding opportunity announcements specified in this solicitation
  - **Applicants that do not receive a Letter of Intent will not be eligible for cost share funding pursuant to this solicitation**
3. The Energy Commission will send a letter of rejection to unsuccessful applicants
4. A Summary including the applicant's name, requested PIER amount and project title will be made public.
5. Applicants may request a debriefing no later than 30 days after Letters of Rejection are postmarked



# Final Application

# Selection & Award Process:

## Final Application



- ❖ Applicants **must receive a Letter of Intent** to submit a final application
  - Receipt of a Letter of Intent does **NOT** guarantee that the final application will be approved for funding.

The final application **must** include the following:

- Written proof that the application has been submitted to the federal government in response to an ARRA funding opportunity announcement.
- A response to the scoring criteria (Attachment C).
- A PIER Budget Workbook (Attachment F)
- Scope of Work (Attachment D)
- Product Schedule (Attachment G)
- CEQA Compliance Form (Attachment O, Form 2) if applicable
- Permitting Information Form (Attachment P) if applicable.

# Selection & Award Process:

## Final Application



1. A scoring committee will score the final applications using the relevant scoring criteria described in Attachment C.
2. The Energy Commission may invite applicants to a clarification interview for their final applications.
3. A minimum score of 70% is required for the application to pass and be considered for cost share funding (eligible project).
4. Applicants whose projects are eligible and who meet the criteria of a California-Based Entity (CBE) may have preference points added to their final technical score.
  - Refer to Attachment M for more information
  - Applicants must request and demonstrate eligibility by filling out and submitting as part of the application package the questionnaire contained in Attachment N.

# Selection & Award Process: Final Application



5. Eligible projects will be ranked within the federal solicitation category starting with the highest ranked project.
6. Projects obtaining at least the minimum score will be considered for cost share funding, starting with the highest ranked project
  - The Energy Commission reserves the right to determine the number of final applications it will fund under each federal solicitation rank list
  - The Energy Commission reserves the right to negotiate with the Applicant: the final project scope, any additional special terms and conditions, and the level of funding received pursuant to this solicitation.
7. The results of the Energy Commission's decision will be released through a Notice of Proposed Awards (NOPA).
  - Applicants not selected for funding may request a debriefing no later than 30 days after the release of NOPA

# Selection & Award Process:

## Final Application



8. Applicants proposed for an award pursuant to this solicitation will be required to prepare a detailed set of award documents, including but not limited to:

- A Scope of Work (Attachment D)
- A schedule of products and due dates (Attachment G)
- Detailed budget documents.

### Attention:

- Information required in the final application should be complete and in the specified format.
- Public agencies and non-profit organizations must provide an authorizing resolution approved by their governing authority.

# Selection & Award Process:

## Final Application



9. Upon receiving the required documents, the Energy Commission will prepare a Grant Agreement, including applicable Terms and Conditions\*, and any additional terms and conditions, and send it to the grant recipient for:

- ✓ review,
- ✓ approval, and
- ✓ signature.

### **\*Attention:**

See PIER Grant Terms and Conditions at <http://www.energy.ca.gov/contracts/index.html>

- Read carefully the PIER Grant Terms and Conditions
- The Energy Commission reserves the right to modify the terms and conditions prior to executing grant agreements.

# Selection & Award Process: Final Application



10. The Grant Agreement will be scheduled and heard at an Energy Commission Business Meeting for approval.

11. If approved, the Energy Commission will fully execute the Grant Agreement.

- ❖ Recipient(s) are approved to begin the project only after full and final execution of the Grant Agreement.



# Grounds for Rejection

# Grounds for Rejection: Pre-application



A **pre-application** *WILL* be rejected and not considered for funding if it:

1. Does not include the signature of the organization's authorized representative.
2. Requests an amount for any Project/Activity greater than the identified amount (Table 2).
3. Is not received by the Energy Commission by the specified due date and time (Table 1).
4. Contains any information the Applicant has labeled as confidential, secret or protected in any manner.
5. Is inconsistent with the goals of PIER and/or the relevant ARRA funding source.

# Grounds for Rejection: Final Application



**A final application *WILL* be rejected and not considered for funding if:**

1. The Applicant has not submitted an application by the required deadline to the federal government in response to a federal ARRA solicitation.
2. The application is not received by the Energy Commission Grants and Loans office by 4 p.m. on specified due date (Table 1).
3. Contains any information the Applicant has labeled as confidential, secret or protected in any manner.
4. Requests an amount for any Project/Activity greater than the identified amount (Table 2).
5. Is inconsistent with the goals of PIER and/or the relevant ARRA funding source.

# Grounds for Rejection: Final Application



A final application ***MAY*** be rejected and not considered for funding if:

- It does not include a Resolution (if applicable). A resolution authorizing submission of the application is required from a local jurisdiction's governing body (Sample in Attachment Q)



# Schedule and Submission Due Dates

# Schedule and Submission Due Dates



## Due Dates and FOA Specific information

ARRA Funding Opportunity Announcement	Pre-Applications to Energy Commission by 4:00 p.m.	LOI Provided To Applicants	Final Applications to Energy Commission by 4:00 p.m.	Tentative Dates for Federal Award Notifications
Enhanced Geothermal Systems Component Research and Development/Analysis DE-FOA-0000075	7/07/09	7/10/09	7/24/09	9/09
Enhanced Geothermal Systems Demonstration DE-FOA-0000092	7/20/09	7/23/09	8/06/09	9/09
Geothermal Technologies Program DE-FOA-0000109	7/10/09	7/15/09	7/29/09	12/09-1/10
High Penetration Solar Deployment DE-FOA-0000085	7/16/09	7/23/09	8/06/09	8/09

# Schedule and Submission Due Dates



## Proposal and Award Process Schedule

Event	Date
Release of Solicitation	June 18, 2009
Workshop	June 26, 2009
Posting of Questions & Answers from Workshop	June 29, 2009
Deadline to Submit Written Questions	June 30, 2009
Posting of Questions and Answers	July 6, 2009
Deadline to Submit Pre-Applications	By 4 p.m. on the date listed in Table 1
Release of Letters of Intent	As listed in Table 1
Deadline to Submit Final Applications	By 4 p.m. on the date listed in Table 1
Approval of Awards at Energy Commission Business Meeting	TBD



# Submission Requirements

# Submission Requirements:

## Pre-application



Submit: **Five written (physical) copies** of each pre-application

Due: Must be **received** by 4:00 p.m. on the due date (Table 1)

✓ Pre-applications may be mailed or delivered to:

**Crystal Willis**

**California Energy Commission**

**Grants and Loans Office**

**Attn: American Recovery and Reinvestment Act of 2009 Cost Share**

**1516 Ninth Street, MS-1**

**Sacramento, CA 95814**

**[cpresley@energy.state.ca.us](mailto:cpresley@energy.state.ca.us)**

- ✓ Postmark dates of mailing, electronic mail (E-mail), and facsimile (Fax) transmissions are not acceptable in whole or in part under any circumstances.
- ✓ The Energy Commission will reject all proposals not received by the Energy Commission's Grants and Loans Office by the stated due date and time.

# Submission Requirements:

## Final Application



Submit: **Five written (physical) copies and one CD with electronic files** for all documents submitted in word or excel files of each final application

Due: Must be **received** by 4:00 p.m. on the due date (Table 1)

✓ Final applications may be mailed or delivered to:

**Crystal Willis**

**California Energy Commission  
Grants and Loans Office**

**Attn: American Recovery and Reinvestment Act of 2009 Cost Share  
1516 Ninth Street, MS-1  
Sacramento, CA 95814  
[cpresley@energy.state.ca.us](mailto:cpresley@energy.state.ca.us)**

- ✓ Postmark dates of mailing, electronic mail (E-mail), and facsimile (Fax) transmissions are not acceptable in whole or in part under any circumstances.
- ✓ The Energy Commission will reject all proposals not received by the Energy Commission's Grants and Loans Office by the stated due date and time.



## Document Availability / Notification

- ❖ This solicitation, all supporting documents and forms can be found at:

<http://www.energy.ca.gov/contracts/index.html>

- ❖ Interested parties may also sign on to the electronic mailing list to be notified of any changes to this solicitation.

<http://www.energy.ca.gov/listservers/index.html>

[research](#) (Energy RD&D / PIER program)

[opportunity](#) (RFPs, contracts, funding announcements)



# Project Specific Requirements

**Gail Wiggett**

# Example Topic Area:

## Geothermal



**Geothermal** component of this solicitation may include, but not be limited to, projects that address the following (Attachment I):

- Demonstrate and validate reservoir stimulation technologies.
- Reduce the risk and costs of geothermal site selection, exploration and characterization.
- Increase effectiveness and efficiency of reservoir management and sustainability.
- Reduce the life-cycle cost of geothermal electricity generation and improve power plant efficiency.
- Research, development and demonstration projects that reduce the uncertainty and cost of enhancing geothermal reservoir systems.
- Demonstrate and validate the feasibility of energy production from nonconventional geothermal resources such as low-temperature fluids, co-produced oil and gas brines or geopressured resources.



# Pre-application Project Summary Requirements

# Project Summary Requirements: Geothermal Projects



- ❖ Project Summary must address all bullets or questions or provide a statement of why the bullet or question is not applicable
- ❖ Refer to Attachment B. Limit your response to **no more than five pages.**

All applicants:

1. Describe the proposed project. Identify specific quantified goals, address barriers and their resolution, products to be delivered and project duration.
2. List additional funding partners, and the total project budget. List team members (such as universities, national laboratories and utilities) and project site location.
3. Describe the products to be delivered.
4. How will this project support California's economic recovery in the near term and create or sustain jobs and local income or tax revenue? Quantify your answers to the extent possible, and include time frames.

# Project Summary Requirements: Geothermal Projects



EGS Component R&D/Analysis DE-FOA-0000075:

- a. Have you chosen a site(s) in California to demonstrate or test this technology and at what other sites would you expect this technology to be useable, if successful? Have you discussed the deployment of this technology with companies operating in California? If so describe the results.

# Project Summary Requirements: Geothermal Projects



EGS Demonstration DE-FOA-0000092:

- b. The U.S. Department of Energy envisions a 4-6 year time frame for these projects, but there is a need to increase power production as quickly as possible to facilitate economic recovery. Describe the site-specific factors that would cause the recipient to shorten or lengthen this time frame.
- c. Any new power plant built in California will face issues surrounding connection to the transmission grid. Describe as specifically as possible the ability of a power plant at the project demonstration site to connect to the grid in California. Include quantities such as distances to collection lines or substations, feed in capacities, connection voltages, distance, isolation, power quality, voltage and metering.

# Project Summary Requirements: Geothermal Projects



Geothermal Technologies DE-FOA-0000109:

- d. Have you chosen a site(s) in California to demonstrate or test this technology and at what other sites would you expect this technology to be useable, if successful? Have you discussed the deployment of this technology with companies operating in California? If so, describe the results.



# Final Application Scoring Criteria

# Final Application Scoring Criteria



## ATTENTION:

- The Energy Commission will fully evaluate each proposed project.
- Applicants must address comprehensively the scoring criteria.
- Applicants' responses to the scoring criteria must be based on the entire project as proposed to the Federal government in response to an ARRA solicitation.
- Scoring will be based on the merits of the project proposals.
- Scores from each criterion will be summed to provide the overall project score. A minimum score of 70 (out of 100) is required to be eligible for cost share funding.

# Final Application Scoring Criteria: Geothermal Projects



See Attachment C for Scoring Criteria for geothermal application

❖ Applicants must provide **no more than 20 pages**, using 12 point font, of qualitative and quantitative supporting documents for this attachment.

1. Policy (5 points)
2. Increased Geothermal Presence in California (5 points)
3. Public vs Private Benefits (5 points)
4. Innovation (10 points)
5. Technical Merit (15 points)
6. Project Implementation (15 points)
7. Life Cycle Costs (15 points)
8. Efficiency and Capacity (15 points)
9. Likelihood of Success (5 points)
10. Tech transfer (5 points)
11. Potential major hurdles and other considerations (5 points)

# Final Application Scoring Criteria: Geothermal Projects



## 1. Policy

Maximum Possible Points: 5

- The degree to which the project addresses key issues or problems facing the geothermal industry in California and/or:
- Is applicable to relevant goals and objectives stated in the Commission's Energy Action Plan (available on the Energy Commission website at [www.energy.ca.gov](http://www.energy.ca.gov)) and/or:
- Accelerates the goals of the California Renewable Portfolio Standard, SB 1078.

## 2. Increased Geothermal Presence in California

Maximum Possible Points: 5

- The degree to which the project can demonstrate the ability to attract and support geothermal development of new or underutilized geothermal resources in California and/or enhance existing resources.

# Final Application Scoring Criteria: Geothermal Projects



## 3. Public vs Private Benefits

Maximum Possible Points: 5

- The degree to which the project is likely to create or retain jobs, provide local revenue and support California businesses;
- The degree to which the project demonstrates overall benefits to California in addition to private benefits to the applicant, with consideration of the proportion of match provided by the applicant from other than public sources.

## 4. Innovation

Maximum Possible Points: 10

- The degree to which the application demonstrates that the project will increase the reliability of site characterization, and/or:
- Lead to improved well targeting, innovations in tools, models, remote sensing, reservoir management and modeling, or other applications usable in California, above and beyond what is present practice.

# Final Application Scoring Criteria: Geothermal Projects



## 5. Technical Merit

Maximum Possible Points: 15

- As applicable, the degree to which the application demonstrates the technical merit and feasibility of the proposed work, including but not limited to, understanding of the current state of the art within California;
- Adequacy of the existing site characterization data and/or understanding of the resource quality and potential;
- Adequacy of the plan to validate and test the proposed technology or measure the success of a field stimulation/enhancement activity.

## 6. Project Implementation

Maximum Possible Points: 15

- Clarity of statement of goals and objectives, including specific measures of success;
- Adequacy and clarity of a plan to address potential risks, liabilities, or problems that may arise;
- Adequacy and reasonableness of the budget;
- Appropriateness of proposed decision points and milestones.

# Final Application Scoring Criteria: Geothermal Projects



## 7. Life Cycle Costs

Maximum Possible Points: 15

- The degree to which the project reduces the life-cycle cost of geothermal electricity generation in California by, including but not limited to, improving the efficiency and reducing the cost of resource exploration and assessment, permeability detection, mapping, well siting, drilling and well completion, power plant design and construction, reservoir monitoring and management, or power plant surface facilities.

## 8. Efficiency and Capacity

Maximum Possible Points: 15

- The degree to which the project increases the capacity, efficiency and/or sustainability of existing California geothermal facilities and/or:
- Adds new geothermal generation capacity in California, creates value-added products and income streams from existing plants and/or:
- Reduces operation and maintenance costs of wells and plants.

# Final Application Scoring Criteria: Geothermal Projects



## 9. Likelihood of Success

Maximum Possible Points: 5

- The degree to which the applicant demonstrates the ability to implement and complete the project, including but not limited to, the qualifications and experience of the team; feasibility of the project at the proposed site; cost-effectiveness; clarity, conciseness and quality of the research and implementation plan; and the degree of commitment from other partners.

## 10. Tech transfer

Maximum Possible Points: 5

- If applicable, the degree to which the technology, methods or products are transferable to other geothermal fields within California, and the adequacy of the technology transfer or information dissemination plan.

# Final Application Scoring Criteria: Geothermal Projects



## 11. Potential major hurdles and other considerations

Maximum Possible Points: 5

- As applicable, the extent of the characterization, planning and regulatory and environmental permitting and status of CEQA compliance, and/or:
- The demonstrated availability and sustainability of sufficient water or other means for a stimulation or enhancement project; and/ or:
- Adequacy of transmission availability to support the proposed project in a timely fashion; and/or:
- Extent to which the project may contribute to or fit in with a local distributed generation system or integrate with other renewables.



# California-Based Entity (CBE) Preference Points

# California-Based Entity (CBE) Preference Points



- ❖ Applicants whose projects are eligible and who meet the criteria of a California-Based Entity (CBE) may have preference points added to their final technical score, subject to certain restrictions (AB 2267, (Fuentes, 2008)).
  - Please see Attachment M for more information.
  - Eligible applicants must request and demonstrate eligibility by filling out and submitting as part of the proposal package the questionnaire contained in Attachment N.
  - Otherwise eligible applicants who do NOT submit the Attachment N questionnaire shall NOT be eligible for the CBE Preference Points.

# California-Based Entity (CBE) Preference Points



❖ The preference points will be awarded as follows:.

<i>Technical Score (prior to preference points being added)</i>	<i>Additional Points</i>
70-75	1
76-81	2
82-87	3
88-93	4
94-100	5

- The total possible points, not counting any preference points, for this solicitation is 100.
- The minimum passing score is 70 points.
- Each application that has a score of 70 points or more and qualifies for this preference will receive additional points based on the table above.



# Administrative Requirements

**Sarah Williams**

# Administrative Requirements



## Federal Requirements

- Projects selected by the federal government for ARRA funding must comply with federal administrative and national policy requirements.
- Applicants must review the relevant ARRA funding opportunity announcement(s) for information regarding these requirements.



# Administrative Requirements: Payment of Prevailing Wage

# Payment of Prevailing Wage



- ❖ Some projects under this solicitation might be considered public works pursuant to the California Labor Code.
  - If the project is a public work, prevailing wage is required.
  - See page 11 of the Application Package and Attachments J, K & L for prevailing wage requirements.



Administrative Requirements:

# California Environmental Quality Act

# California Environmental Quality Act



- ❖ Projects must comply with the California Environmental Quality Act (CEQA) in order to receive funding from the Energy Commission.
  - See page 12 of the application package and Attachment O for the CEQA requirements.
- Pre-applications must include **CEQA Compliance Form 1**
- Final applications must include **CEQA Compliance Form 2**
- Please submit separate form for each project
- For an explanation of the CEQA process, please visit <http://ceres.ca.gov/ceqa/summary.html>



# Terms and Conditions

# Terms and Conditions



The PIER Grant Terms and Conditions can be found at:

<http://www.energy.ca.gov/contracts/index.html>

- ❖ Read carefully the PIER Grant Terms and Conditions
- ❖ The Energy Commission reserves the right to modify the terms and conditions prior to executing grant agreements.



# Confidential Information

# Confidential Information



**No confidential information will be accepted during the proposal and selection phase of this solicitation.**

- If any confidential information is submitted, your entire proposal will be returned, and not considered for funding.**
- Proposals containing confidential information will be returned to the applicant.**
- While discouraged, applicants may *propose* to deliver confidential products during the course of the project if funded.**
- If necessary, instructions on submitting confidential products will be provided by the Energy Commission prior to executing the Grant Agreement.**



# Amendment or Cancellation of this Solicitation

# Amendment or Cancellation of this Solicitation



The Energy Commission reserves the right to do any of the following:

- Cancel this solicitation
- Amend or revise this solicitation as needed or
- Reject any or all proposals received in response to this solicitation.

# Amendment or Cancellation of this Solicitation



- ❖ Any amendments or revisions will be posted on the Energy Commission web site, and an announcement will be distributed via the email Listservers
  - <http://www.energy.ca.gov/contracts/index.html>
  - <http://www.energy.ca.gov/listservers/index.html>



# Additional Questions

# Additional Questions



Additional questions about this solicitation must be submitted by 4:00 p.m. on June 30, 2009, and may be submitted by email or letter.

The questions and answers will be posted on the Energy Commission's website by July 6, 2009. Questions may be directed to the technical contact listed in Table 1.

# Questions



**Paper copies of the PON, Manual and Q's & A's can be obtained by contacting:**

Angela Layton  
Administrative Assistant  
Energy Generation Research Office  
California Energy Commission  
1516 Ninth Street, MS-43  
Sacramento, CA 95814  
Telephone: (916) 651-9312  
Email: [alayton@energy.state.ca.us](mailto:alayton@energy.state.ca.us)