

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
SACRAMENTO, CA 95814-5512
www.energy.ca.gov

**NOTICE OF PROPOSED AWARD (NOPA)**

**Electricity Sector Vulnerability Studies and Adaptation Options to Promote
Resilience in a Changing Climate
GFO-15-303
August 5, 2015**

On March 16, 2015, the California Energy Commission (Energy Commission) released a competitive solicitation to fund applied research and development projects that reduce the environmental and public health impacts of electricity generation and make the electricity system less vulnerable to climate impacts. The grant solicitation announced that there is up to \$2.1 million in Electric Program Investment Charge (EPIC) funding available for the agreements resulting from this solicitation, in the following groups, and that the Energy Commission, at its sole discretion, reserves the right to increase or reduce the amount of funds available. The groups listed in the solicitation are:

- Group 1: Potential Impacts and Adaptation Options for the Electricity System from Sea Level Rise
- Group 2: Wildfires, Climate Change, and Impacts to Transmission and Distribution Lines
- Group 3: Development of Innovative Strategies to Foster a More Adaptive, Resilient Energy System under Present and Future Climate Conditions
- Group 4: Visualizing Climate-Related Risks to the Electricity System Using Cal-Adapt
- Group 5: Developing Enhanced Socioeconomic and Land-Use Scenarios

The Energy Commission received 13 proposals by the due date of June 5, 2015. Each proposal was screened, reviewed, evaluated and scored using the criteria in the solicitation. Twelve proposals passed the Stage One Application Screening.

The attached table, "Notice of Proposed Awards," identifies each applicant selected and recommended for funding by Energy Commission staff and includes the recommended funding amount and score. The total amount recommended is \$1,899,200.

Funding of proposed projects resulting from this solicitation is contingent upon the approval of these projects at a publicly noticed Energy Commission Business Meeting and execution of a grant agreement. If the Energy Commission is unable to timely negotiate and execute a funding agreement with an Applicant, the Energy Commission, at its sole discretion, reserves the right to cancel or otherwise modify the pending award, and award the funds to another applicant.

In addition, the Energy Commission reserves the right to: 1) add to, remove, or shift funding between the different groups if there are insufficient passing proposals in one

group and 2) negotiate with successful applicants to modify the project scope, schedule, and/or level of funding.

This notice is being mailed to all parties who submitted an application to this solicitation and is also posted on the Energy Commission's website at:
www.energy.ca.gov/contracts/.

For information, please contact Gordon Kashiwagi at (916) 654-5131 or at Gordon.Kashiwagi@energy.ca.gov.

Gordon Kashiwagi
Commission Agreement Officer



California Energy Commission
GFO-15-303

Resilience in a Changing Climate
Potential Impacts and Adaptation Options for the Electricity System from Sea Level Rise
Notice of Proposed Awards
 August 5, 2015

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	ICF Incorporated, L.L.C.	Electricity Sector Vulnerability Studies and Adaptation Options to Promote Resilience in a Changing Climate	\$499,200	\$499,200	\$166,200	81	Awardee
Total Funding Recommended			\$499,200	\$499,200	\$166,200		
Passed but Not Funded							
Total			\$0	\$0	\$0		
Did Not Pass							
Total			\$0	\$0	\$0		
Disqualified							
Total			\$0	\$0	\$0		
Grand Total			\$499,200	\$499,200	\$166,200		



**California Energy Commission
GFO-15-303**

**Resilience in a Changing Climate
Wildfires, Climate Change, and Impacts to Transmission and Distribution Lines
Notice of Proposed Awards
August 5, 2015**

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Lawrence Berkeley National Laboratory	Modeling the Impact of Wildfires on California's Transmission and Distribution Grid	\$500,000	\$500,000	\$17,157	85	Awardee
Total Funding Recommended			\$500,000	\$500,000	\$17,157		
Passed but Not Funded							
Total			\$0	\$0	\$0		
Did Not Pass							
Total			\$0	\$0	\$0		
Disqualified							
Total			\$0	\$0	\$0		
Grand Total			\$500,000	\$500,000	\$17,157		



California Energy Commission GFO-15-303

Resilience in a Changing Climate Development of Innovative Strategies to Foster a More Adaptive, Resilient Energy System under Present and Future Climate Conditions

5-Aug-15

August 5, 2015

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	University of California, Los Angeles	Climate Change in Los Angeles County: Heat and Grid Vulnerability	\$500,000	\$500,000	\$0	83	Awardee
Total Funding Recommended			\$500,000	\$500,000	\$0		
Passed but Not Funded							
2	Lawrence Berkeley National Laboratory	Modeling Adaptation Strategies to Address California's Electricity System to Climate Vulnerabilities	\$500,000	\$0	\$17,157	81	Finalist
3	GEI Consultants, Inc.	Electricity Sector Vulnerability Studies and Adaptation Options to Promote Resilience in a Changing Climate	\$499,882	\$0	\$0	76	Finalist
4	Sandia National Lab	Optimization and Uncertainty Analysis to Guide the Evolution of California's Transmission Infrastructure	\$500,000	\$0	\$0	74	Finalist
5	County of Santa Clara Office of Sustainability	Resilient Energy Toolkit- District Scale Climate-Proofing for Metropolitan Areas	\$494,850	\$0	\$0	71	Finalist
Total			\$1,994,732	\$0	\$17,157		
Did Not Pass							
6	Quantal Technology LLC	Small Clean Fusion Reactors to Enhance Grid Resiliency	\$462,400	\$0	\$48,680	37	Did Not Pass
7	Dr. Ravi Sharma	Innovative Strategies for Energy Resilience Using Minimizing Climate Impact	\$75,000	\$0	\$0	31	Did Not Pass
Total			\$537,400	\$0	\$48,680		
Disqualified							
8	Rand Corporation	Estimating Extreme Stresses Stemming from Climate Change on Southern California's Electric Power System and Assessing Potential Mitigating Measures	\$499,888	\$0	\$0		Disqualified
Total			\$499,888	\$0	\$0		
Grand Total			\$3,532,020	\$500,000	\$65,837		



**California Energy Commission
GFO-15-303**

**Resilience in a Changing Climate
Visualizing Climate-Related Risks to the Electricity System Using Cal-Adapt
Notice of Proposed Awards
August 5, 2015**

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	The Regents of the University of California, Berkeley	Visualizing Climate-Related Risks to the Electricity System Using Cal-Adapt	\$400,000	\$400,000	\$0	90	Awardee
Total Funding Recommended			\$400,000	\$400,000	\$0		
Passed but Not Funded							
Total			\$0	\$0	\$0		
Did Not Pass							
2	Tierra Resource Consultants, LLC	Visualizing Climate-Related Risks to the Electric System Using Cal-Adapt	\$399,980	\$0	\$0	30	Did Not Pass
Total			\$399,980	\$0	\$0		
Disqualified							
Total			\$0	\$0	\$0		
Grand Total			\$799,980	\$400,000	\$0		



California Energy Commission
GFO-15-303

Resilience in a Changing Climate
 Developing Enhanced Socioeconomic and Land-Use Scenarios
Notice of Proposed Awards
 August 5, 2015

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
Total Funding Recommended			\$0	\$0	\$0		
Passed but Not Funded							
Total			\$0	\$0	\$0		
Did Not Pass							
1	Tierra Resource Consultants, LLC	Developing Enhanced Socioeconomic and Land-Use Scenarios	\$199,900	\$0	\$0	30	Did Not Pass
Total			\$199,900	\$0	\$0		
Disqualified							
Total			\$0	\$0	\$0		
Grand Total			\$199,900	\$0	\$0		