

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
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www.energy.ca.gov

**NOTICE OF PROPOSED AWARDS (NOPA)**

**Enhancing Safety, Environmental Performance, and Resilience of California's
Natural Gas System
GFO-17-502
February 6, 2018**

On September 11, 2017, the California Energy Commission (Energy Commission) released a competitive solicitation to fund Applied Research and Development (AR&D) projects that develop innovative methods to protect natural gas infrastructure; enhance features of the next-generation version of Cal-Adapt; improve life cycle accounting for imported natural gas; increase cost effectiveness of methane leak detection; and identify building stock in disadvantaged communities that would benefit the most from retrofitting activities. Up to \$8.9 million of Natural Gas Research Program funding is available to fund applications in five project groups:

- **Group 1:** Exploratory Study of Innovative Methods to Assess Structural Integrity of Levees Protecting Natural Gas Infrastructure in the Sacramento-San Joaquin Delta
- **Group 2:** Developing Next-Generation Cal-Adapt Features to Support Natural Gas Sector Resilience
- **Group 3:** Chemical and Isotopic Fingerprints of Natural Gas Basins to Support Full Fuel Cycle Accounting
- **Group 4:** Field Study to Identify and Mitigate Methane Emissions in the Southern Part of the San Joaquin Valley
- **Group 5:** Identification of Potential Retrofit Opportunities of Buildings in Disadvantaged Communities in an Urban Area in the San Joaquin Valley

The Energy Commission received nine proposals for Groups 1, 2, 3, and 4 by the due date of November 17, 2017. No applications were received under Group 5. All submitted proposals passed the Stage One Application Screening. All passing proposals were screened, reviewed, evaluated, and scored according to the solicitation's criteria.

The attached "Notice of Proposed Awards" identifies each applicant selected and recommended for funding by Energy Commission staff under Groups 1, 2, 3, and 4 respectively and includes the recommended funding amount and score. The total amount recommended for Groups 1 through 4 is \$8,849,978.

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 add to, remove, or shift funding to make additional awards; negotiate with successful applicants to modify the project scope, schedule, and 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 Commission Agreement Officer Andrea Hoppe at (916) 651-0588 or andrea.hoppe@energy.ca.gov.



California Energy Commission

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Notice of Proposed Awards

Project Group 1: Exploratory Study of Innovative Methods to Assess Structural Integrity of Levees Protecting Natural Gas Infrastructure in the Sacramento-San Joaquin Delta

2/6/18

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Infraterra, Inc.	Development of an Integrated Methodology for Assessing Integrity of Levees Protecting Natural Gas Infrastructure	\$550,000	\$550,000	\$0	88.9	Awardee
Passed But Not Funded							
2	Institute of Gas Technology	Field Testing of Non-Invasive Levee Assessment Methods	\$550,000	\$0	\$41,350	78.8	Finalist
Grand Total			\$1,100,000	\$550,000	\$41,350		



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Project Group 2: Developing Next-Generation Cal-Adapt Features to Support Natural Gas Sector Resilience

2/6/18

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	Developing Next-Generation Cal-Adapt Features to Support Natural Gas Sector Resilience	\$1,200,000	\$1,000,000	\$0	87.9	Awardee
2	Eagle Rock Analytics	Developing Next-Generation Cal-Adapt Features to Support Natural Gas Sector Resilience	\$1,200,000	\$200,000	\$0	84.1	Awardee
Grand Total							
			\$2,400,000	\$1,200,000	\$0		



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Project Group 3: Chemical and Isotopic Fingerprints of Natural Gas Basins to Support Full Fuel Cycle Accounting

2/6/18

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	Chemical and Isotopic Analyses to Improve Life-Cycle Assessments of Natural Gas Consumed in California	\$549,978	\$549,978	\$53,633	78.01	Awardee
2	The Regents of the University of California, Irvine	Chemical and Isotopic Fingerprinting Technique to Determine Composition of Natural Gas Consumed in California	\$550,000	\$550,000	\$84,989	73.7	Awardee
Subtotal			\$1,099,978	\$1,099,978	\$138,622		
Did Not Pass							
	GeoMechanics Technologies	Advanced Geochemical Analysis of Consumed and Sourced Natural Gas to Quantify Greenhouse Gas Emissions by Basin	\$546,105	\$0	\$45,150		Did Not Pass
Grand Total			\$1,646,083	\$1,099,978	\$183,772		



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Project Group 4: Field Study to Identify and Mitigate Methane Emissions in the Southern Part of the San Joaquin Valley

2/6/18

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	SUper EMitters of Methane Detection Using Aircraft, Towers, and Intensive Observational Network (SUMMATION)	\$6,000,000	\$6,000,000	\$14,425,970	96.1	Awardee
Subtotal			\$6,000,000	\$6,000,000	\$14,425,970		
Passed But Not Funded							
2	The Regents of the University of California, Davis	Measurement, Characterization and Mitigation Strategies for Methane Emissions in the Southern San Joaquin Valley	\$5,979,755	\$0	\$650,000	83.2	Finalist
Grand Total			\$11,979,755	\$6,000,000	\$15,075,970		



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Project Group 5: Identification of Potential Retrofit Opportunities of Buildings in Disadvantaged Communities in an Urban Area in the San Joaquin Valley

2/6/18

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
No proposals were received for this group.							