

CALIFORNIA ENERGY COMMISSION

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www.energy.ca.gov



NOTICE OF PROPOSED AWARD (NOPA)
Natural Gas Storage Infrastructure Safety and Integrity Risk Modeling Research Grants
GFO-16-508
March 29, 2017

On January 18, 2017, the California Energy Commission (Energy Commission) released a competitive solicitation to fund research projects that develop advanced risk assessment models to improve underground natural gas storage infrastructure safety and integrity management in California. Up to \$5.5 Million in Natural Gas Research Program funding was available to fund applications in Advanced Natural Gas Storage Infrastructure Safety and Integrity Risk Assessment.

The Energy Commission received six (6) proposals by the due date of February 27, 2017. Each proposal was screened, reviewed, evaluated and scored using the criteria in the solicitation. All six proposals passed the Stage One Application Screening.

The attached "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 \$5,374,700. An additional project may be awarded in the future, if funds become available.

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 Brad Worster, (916) 654-4299,
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Brad Worster
Commission Agreement Officer



California Energy Commission

GFO-16-508

Natural Gas Storage Infrastructure Safety and Integrity Risk Modeling Research Grants

Project Group: Advanced Natural Gas Storage Infrastructure Safety and Integrity Risk Assessment

Notice of Proposed Awards

March 29, 2017

| 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 | An Integrated Risk Management and Decision-Support System for Ensuring the Integrity of Underground Natural Gas Storage Infrastructure in California | \$2,975,761 | \$2,975,761 | \$0 | 97 | Awardee |
| 2 | Det Norske Veritas (U.S.A), Inc. | A Barrier-Based Quantitative Risk Management Approach for Underground Storage of Natural Gas | \$2,398,939 | \$2,398,939 | \$341,583 | 89 | Awardee |
| Total Funding Recommended | | | \$5,374,700 | \$5,374,700 | \$341,583 | | |
| Passed but Not Funded | | | | | | | |
| 3 | The Regents of the University of California, Berkeley | Next Generation Integrated Risk Management: Natural Gas Storage Infrastructure Safety And Integrity | \$2,898,280 | \$0 | \$0 | 87 | Finalist |
| Total | | | \$2,898,280 | \$0 | \$0 | | |
| Did Not Pass | | | | | | | |
| 4 | Institute of Gas Technology dba Gas Technology Institute (GTI) | Natural Gas Storage Infrastructure Safety and Integrity Risk Modeling | \$2,983,844 | \$0 | \$450,000 | | Did Not Pass |



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|---------------------|--|---|---------------------|--------------------|--------------------|--|--------------|
| 5 | The Regents of the University of California, Los Angeles | Natural Gas Storage Infrastructure Safety and Integrity Risk Modelling Research | \$2,604,880 | \$0 | \$72,000 | | Did Not Pass |
| 6 | Paulsson, Inc. | Monitoring of an Underground Gas Storage Field using a Novel Borehole Based Optical Multi Sensor System | \$3,000,000 | \$0 | \$750,000 | | Did Not Pass |
| Total | | | \$8,588,724 | \$0 | \$1,272,000 | | |
| <i>Disqualified</i> | | | | | | | |
| Grand Total | | | \$16,861,704 | \$5,374,700 | \$1,613,583 | | |