

CALIFORNIA ENERGY COMMISSION

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NOTICE OF PROPOSED AWARDS (NOPA)
Natural Gas Solicitation for Energy-Related Environmental Research
GFO-15-507
November 22, 2016

On July 28, 2016, the California Energy Commission (Energy Commission) released a competitive solicitation to fund natural gas related environmental research in indoor air quality, energy scenarios, subsidence impacts on infrastructure and methane emissions from California natural gas system. Up to \$5.7 million in Natural Gas Research Program funding is available to fund applications in:

- Group 1: Long Term Strategic View of the Use of Natural Gas in a Carbon-Constrained and Water-Efficient Environment.
- Group 2: Measurement of Methane and Nitrous Oxide Emissions from Natural Gas System and Industrial Facilities and GIS Lifecycle Emission Estimates.
- Group 3: Characterize the Impact of California Drought-Related Subsidence on Natural Gas Infrastructure.
- Group 4: Characterize the Impact of California Drought-Related Subsidence on Methane Emissions from Abandoned/Plugged Natural Gas Wells.
- Group 5: Indoor Air Quality: Assess the Impact of Ventilation on Indoor Environmental Quality (IEQ), Health and Human Performance in New and Retrofit Buildings.

The Energy Commission received twelve proposals by the due date of October 3, 2016. Each proposal was screened, reviewed, evaluated and scored using the criteria in the solicitation. All twelve 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 \$5,696,750.

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 to make additional awards; 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 Douglas Harvey at (916) 654-4747 or douglas.harvey@energy.ca.gov.

Douglas Harvey
Commission Agreement Office



California Energy Commission

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Natural Gas Solicitation for Energy-Related Environmental Research

Notice of Proposed Awards

Group 1: Long Term Strategic View of the Use of Natural Gas in a Carbon-Constrained and Water-Efficient Environment

11/22/2016

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	E3	A Strategic Assessment of the Long-term Role of Natural Gas in a Carbon Constrained and Water-Efficient Future	\$1,099,733	\$1,099,733	\$362,750	91.35	Awardee
Passed but Not Funded							
2	ICF Incorporated, LLC	Explore Different Pathways for Natural Gas System in the Next Decades to 2050 in Response to Ongoing and Expected Energy and Climate Policies	\$1,100,000	\$0	\$0	73.39	Finalist
Grand Total			\$2,199,733	\$1,099,733	\$362,750		



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Group 2: Measurement of Methane and Nitrous Oxide Emissions from Natural Gas System and Industrial Facilities and GIS Lifecycle Emission

Estimates

11/22/2016

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Electric Power Research Institute (EPRI)	Multi-Tiered Greenhouse Gas Emissions Measurements of California's Natural Gas-Powered Industrial and Fueling Infrastructure	\$1,400,000	\$1,400,000	\$259,362	80.40	Awardee
Did Not Pass							
2	ICF Incorporated, LLC	Characterize Methane Emissions from Large Industrial Facilities in California	\$1,400,000	\$0	\$0		Did Not Pass
Grand Total			\$2,800,000	\$1,400,000	\$259,362		



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Group 3: Characterize the Impact of California Drought-Related Subsidence on Natural Gas Infrastructure

11/22/2016

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	Characterize Actual and Future Impact of California's Drought on Three-Component Ground Deformations and their Influence on the Natural Gas Infrastructure	\$1,599,584	\$1,599,584	\$145,000	89.25	Awardee
Passed but Not Funded							
2	Det Norske Veritas (U.S.A), Inc.	Risk Based Tool for Identification, Characterization, and Evaluation of Subsidence Impacts on Natural Gas Pipelines	\$1,584,368	\$0	\$604,998	77.65	Finalist
3	ICF Incorporated, LLC	Characterization of the Impact of California Drought-Related Subsidence on California's Natural Gas Infrastructure	\$1,600,000	\$0	\$0	71.90	Finalist
Grand Total			\$4,783,952	\$1,599,584	\$749,998		



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Group 4: Characterize the Impact of California Drought Related Subsidence on Methane Emissions from Abandoned/Plugged Natural Gas Wells

11/22/2016

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	University of California, Davis	Quantification of Methane from California's Plugged & Abandoned (AP) Natural Gas Wells: Effects of Land Subsidence and Other Factors	\$597,433	\$597,433	\$0	91.00	Awardee
Passed but Not Funded							
2	Det Norske Veritas (U.S.A), Inc.	Fit-for-Purpose Technology to Assess, Characterize, and Mitigate Subsidence-Related Methane Emissions from Natural Gas Wells	\$592,443	\$0	\$155,254	82.90	Finalist
3	ICF Incorporated, LLC	Determine the Drought-Related Subsidence Impact on Methane Emissions from Abandoned Wells	\$600,000	\$0	\$0	74.10	Finalist
Did Not Pass							
4	Lawrence Berkeley National Laboratory	Modeling Analysis of the Impacts of Drought-Related Subsidence on Methane Release from Abandoned Wells	\$599,116	\$0	\$0		Did Not Pass
Grand Total			\$2,388,992	\$597,433	\$155,254		



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Group 5: Indoor Air Quality: Assess the Impact of Ventilation on Indoor Environmental Quality (IEQ), Health and Human Performance in New and Retrofit Buildings

11/22/2016

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
<i>Proposed Awards</i>							
1	Lawrence Berkeley National Laboratory	Effective Kitchen Ventilation for Healthy ZNE Homes with Natural Gas	\$1,000,000	\$1,000,000	\$200,000	91.45	Awardee
Grand Total			\$1,000,000	\$1,000,000	\$200,000		