

CALIFORNIA ENERGY COMMISSION

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

**NOTICE OF PROPOSED AWARD (NOPA)**

**2016 Natural Gas Energy Efficiency Research Grants for Residential and Commercial Buildings
Phase 2, Group D
GFO-16-502
January 25, 2017**

On October 19, 2016, the California Energy Commission (Energy Commission) released the second phase of a competitive solicitation to fund applied research strategies for appliances, zero net energy buildings, and codes and standards¹. Up to \$1,010,603 in Natural Gas Program funding is available. As the Energy Commission reserves the right to increase or reduce the amount of funds available, the Energy Commission added \$239,846 to this solicitation for a total funding amount of \$1,250,449 to fund applications in the following subgroups:

- Group D: Applied Research Strategies for Appliances, Zero Net Energy Buildings and Codes and Standards
 - Subgroup 1: Dual Fuel Appliances
 - Subgroup 2: Community-scale Solar Water Heating
 - Subgroup 3: Code Changes and Implications of Low Flow Fixtures
 - Subgroup 4: Occupant Behavior and Smart Building Controls

All funds in this solicitation have been depleted. Therefore, there will not be a Phase 3.

For Phase 2, the Energy Commission received nine proposals – two proposals for Subgroup 1, five proposals for subgroup 2, and one proposal each for Subgroups 3 and 4 – by the due date of November 17, 2016. Each proposal was screened, reviewed, evaluated and scored using the criteria in the solicitation. All nine 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 for Group D is \$1,250,449, with \$250,000 for subgroup 1, \$490,404 for subgroup 2, \$249,900 for subgroup 3 and \$260,145 for subgroup 4.

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) increase or decrease the available funding and the group minimum/maximum award amounts described in the solicitation and 2)

¹ Phase 1 resulted in a NOPA for Groups A – C that was posted on September 29, 2016 at <http://www.energy.ca.gov/contracts/pier.html#GFO-16-502>

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 at (916) 654-4299 or Brad.Worster@energy.ca.gov

Brad Worster
Commission Agreement Officer



California Energy Commission

GFO-16-502

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Phase 2, Group D

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Subgroup 1: Dual Fuel Appliances

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Subgroup 1 Proposed Awards							
1	UC Irvine	Implications of Increased Renewable Natural Gas on Emissions and Stability Behavior of Appliances	\$250,000	\$250,000	\$0	85.85	Awardee
Total Funding Recommended			\$250,000	\$250,000	\$0		
Subgroup 2 Passed but Not Funded							
2	UC Riverside	Development of Low Cost Wobbe Index sensor for the Variable-blend Natural Gas	\$160,000	\$0	\$0	85.40	Finalist
Total			\$160,000	\$0	\$0		



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Subgroup 2: Community-scale Solar Water Heating

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Subgroup 2 Proposed Awards							
1	LBNL	Costs and Benefits of Community vs. Individual End-Use Infrastructure for Solar Water Heating	\$250,000	\$250,000	\$0	91.00	Awardee
2	University of California: Los Angeles	Evaluation of Community-Scale Solar Water Heating in Los Angeles County	\$240,404	\$240,404	\$0	84.40	Awardee
Total Funding Recommended			\$490,404	\$490,404	\$0		
Subgroup 2 Passed but Not Funded							
3	Navigant Consulting	Evaluation of Community-Scale Solar Water Heating Systems for Multifamily ZNE Homes in Southern California	\$125,319	\$0	\$25,000	79.55	Finalist
4	Mark Miles Consulting	Distributed Solar Heat: A Global Perspective and Technology Development Effort	\$248,680	\$0	\$49,920	76.95	Finalist
Total			\$373,999	\$0	\$74,920		
Did Not Pass							
	Lifetime Energy LLC	Techno-economic Analysis and Feasibility Assessment of Community-Scale Solar Water Heating Systems	\$237,621	\$0	\$10,000		Did Not Pass



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Subgroup 3: Code Changes and Implications of Low Flow Fixtures

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Subgroup 3 Proposed Awards							
1	Gary Klein and Associates, Inc.	Hot Water Distribution Systems and Low Flow Fixtures: How Low Can We Go; How Close Can We Get?	\$249,900	\$249,900	\$40,400	98.10	Awardee
Total Funding Recommended			\$249,900	\$249,900	\$40,400		

Subgroup 4: Occupant Behavior and Smart Building Controls

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Subgroup 4 Proposed Awards							
1	Electric Power Research Institute	Data Driven Approaches to Understanding Occupant Natural Gas Use in Low-Income Multifamily Communities	\$260,145	\$260,145	\$78,712	91.80	Awardee
Total Funding Recommended			\$260,145	\$260,145	\$78,712		
Grand Total			\$1,784,448	\$1,250,449	\$194,032		