

**CALIFORNIA ENERGY COMMISSION**

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SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



**NOTICE OF PROPOSED AWARDS**  
**Building Energy Efficiency Research and Technology Grant Program**  
**Grant Solicitation PON-12-503**  
**March 15, 2013**

On November 1, 2012, the California Energy Commission's Public Interest Energy Research (PIER) Program released a Program Opportunity Notice (PON-12-503) entitled "Building Energy Efficiency Research and Technology Grant Program." The purpose of the solicitation was to seek proposals for both electricity and natural gas energy efficiency projects which affect residential and commercial buildings and communities. Innovations in technology, construction practices, and building operations are needed to meet the state's aggressive energy efficiency, zero-net-energy (ZNE) building, and GHG emission reduction targets. The objective of the solicitation is to fund RD&D innovations to help achieve these goals in the most cost-effective manner.

The solicitation announced that \$13.6 million in funding was available for the grant agreements resulting from this PON. The solicitation further stated that the level of PIER electric and/or natural gas funding could be augmented, as determined by the availability of supplemental funds. Accordingly, \$438,377 in supplemental funding was added to the total funds available for this PON resulting in total funding of \$14,038,337. The PON further stated that available funds could be moved from Group A to Group B, and vice versa. As a result, the following are the maximum amounts for each of the target research areas:

- \$11,144,821 for Group A: Technology Innovations and Codes and Standards Advancement (\$2,706,484 in electric funds and \$8,438,337 in natural gas funds)
- \$2,893,516 for Group B: Crosscutting Demonstrations: ZNE Buildings, Whole Building Integration and Low-Income Housing (\$1,893,516 in electric funds and \$1 million in natural gas funds)

For Group A or B, the minimum PIER funding request is \$750,000 and the maximum PIER funding request is \$2 million.

The proposals were screened, reviewed, evaluated, and scored using the criteria prescribed in the solicitation. Based on the Review Team's scores and suggested funding level, the Energy Commission proposes to award \$14,038,377 and fund the passing projects under this solicitation. This Notice of Proposed Awards is hereby issued pursuant to these recommendations.

The attached table titled "Notice of Proposed Awards and Results of Submitted Proposals" identifies each of the applicants recommended to receive funding, the

project title, the recommended amount of Energy Commission funding, and scoring information.

Funding of proposed projects resulting from this solicitation is contingent upon the approval of these projects at a publicly noticed Business Meeting at the Energy Commission in Sacramento, California, and execution of a grant agreement. If the Commission is unable to timely negotiate and execute a funding agreement with an Applicant, the Commission, at its sole discretion, reserves the right to cancel the pending award and shift the available funds. Applicants will be notified of such changes in a revised notice.

This notice is being mailed to all parties who submitted a proposal to this solicitation and is also posted on the Energy Commission website at:

<http://www.energy.ca.gov/contracts/>

For further information about this matter, contact Michael Poe at (916) 654-4809, or by email at [Michael.Poe@energy.ca.gov](mailto:Michael.Poe@energy.ca.gov).



## California Energy Commission PON-12-503



### Notice of Proposed Awards and Results of Submitted Proposals Building Energy Efficiency Research and Technology Grant Program

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score	Award Status
<b>GROUP A - Proposed Awards</b>							
1	Regents of the University of California (Berkeley)	Changing the Rules: Innovative Low-energy Occupant-responsive HVAC Controls and Systems	\$1,629,399	\$1,629,399	\$192,500	83.19	Awardee
2	Levy Partnership, Inc.	Advanced Envelope Systems for Factory Built Homes	\$1,433,568	\$1,433,568	\$299,781	82.91	Awardee
3	Chromasun, Inc.	Chromasun Solar Thermal Heat Pump	\$935,100	\$935,100	\$404,193	79.52	Awardee
4	Regents of the University of California (Los Angeles)	Tools and Materials for Zero Net Energy California Buildings	\$1,335,074	\$1,335,074	\$0	78.93	Awardee
5	Lawrence Berkeley National Laboratory	Small and Medium Building Efficiency Toolkit and Community Demonstration Program	\$2,000,000	\$2,000,000	\$254,790	76.72	Awardee
6	Altex Technologies Corporation	Building Energy Efficient Cooling and Heating (BEECH)	\$1,582,817	\$1,582,817	\$176,900	73.18	Awardee
7	Enovative Group	Energy Research on Improving the Balancing and Mixing of Domestic Hot Water	\$1,061,800	\$1,061,800	\$12,000	73.17	Awardee
8	Regents of the University of California (Davis)	Bridging the Gap: Codes and Standards Enhancement (CASE)-Quality Demonstration Program	\$1,999,289	\$1,167,103	\$81,600	72.34	Awardee
<b>Total Funding Recommended for Group A</b>			<b>\$11,977,047</b>	<b>\$11,144,861</b>	<b>\$1,421,764</b>		



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Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score	Award Status
<b>GROUP A - Did Not Pass (Total Score)</b>							
9	Proctor Engineering	Targeted Energy Improvements for California Existing Homes	\$1,060,244	\$0	\$106,000	69.11	Did Not Pass
10	University of Southern California	Dynamic, Intelligent Building Level Energy Management System (DIBLEMS)	\$1,731,746	\$0	\$0	68.24	Did Not Pass
11	ergSol, Inc.	Solar Thermal Heating and Cooling	\$935,187	\$0	\$0	66.58	Did Not Pass
<b>GROUP A - Did Not Pass (Criterion #1)</b>							
N/A	Build It Green	Performance Valuation Project	\$1,955,599	\$0	\$122,000	56.67 (Criterion 1 only)	Did Not Pass
<b>GROUP A - Did Not Pass (Stage 1 Screening)</b>							
N/A	Institute of Gas Technology (dba Gas Technology Institute)	Advanced Gas Technologies for California Buildings	\$1,984,965	\$0	\$1,002,569	N/A	Did Not Pass
N/A	L'Monte Information Services, Inc.	Building Energy Standards Modeler (BESM) Expansion Project	\$1,823,344	\$0	\$67,563	N/A	Did Not Pass
N/A	Regents of the University of California (Irvine)	Improve Building Operations, Efficiency, Emissions, and Greenhouse Gas Footprint by Integration and Dynamic Control of Distributed Energy Resources and Vehicle Charging	\$1,998,978	\$0	\$533,631	N/A	Did Not Pass
N/A	Butler Sun Solutions, Inc.	Advanced PV-Powered Solar Drainback System	\$779,008	\$0	\$13,319	N/A	Did Not Pass



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Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score	Award Status
N/A	Argil, Inc.	Highly Insulating Dynamic Windows	\$1,200,000	\$0	\$0	N/A	Did Not Pass
N/A	Benningfield Group	Aligning Technology and Code Intervention to California's Short- and Long-term Goals	\$1,878,016	\$0	\$305,000	N/A	Did Not Pass
<b>GROUP A - Disqualified</b>							
DQ	Verdigris Technologies	Development of Low-Cost, Real-Time, Appliance-Level Energy Metering for Continuous Efficiency Improvements	\$1,600,000	\$0	\$1,079,928	N/A	Disqualified

<b>GROUP B - Proposed Awards</b>							
Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score	Award Status
1	View, Inc	ZNE Demonstration - The Integration of Dynamic Daylighting and Passive Cooling/Heating for High ROI	\$1,542,233	\$1,542,233	\$1,553,326	89.69	Awardee
2	Electric Power Research Institute	Designing and Implementing Scalable Near-ZNE Retrofit of Low-income, Multi-family Housing	\$1,351,283	\$1,351,283	\$1,000,000	75.60	Awardee
<b>Total Funding Recommended for Group B</b>			<b>\$2,893,516</b>	<b>\$2,893,516</b>	<b>\$2,553,326</b>		



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Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score	Award Status
<b>GROUP B - Did Not Pass (Total Score)</b>							
3	Regents of the University of California (Merced)	Toward ZNE Buildings and Advanced Smart Lighting and Shading, and Top-down FDD and Demand Response Technologies for HVAC Systems	\$750,000	\$0	\$500,949	66.34	Did Not Pass
<b>GROUP B - Did Not Pass (Stage 1 Screening)</b>							
N/A	Lawrence Berkeley National Laboratory	Very Efficient Retrofits for Typical California Homes	\$2,000,000.00	\$0	\$215,021	N/A	Did Not Pass
N/A	Institute of Gas Technology (dba Gas Technology Institute)	Measured Home Performance for New California Homes	\$926,905.00	\$0	\$253,000	N/A	Did Not Pass
N/A	Davis Energy Group	Energy Positive Homes: Breaking the Zero Net Energy Barrier with Affordable Housing	\$1,559,854	\$0	\$2,970,000	N/A	Did Not Pass
<b>Total Funding Recommended for PON-12-503</b>			\$14,870,563	\$14,038,377	\$3,975,090		