

CALIFORNIA ENERGY COMMISSION

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

**Revised NOTICE OF PROPOSED AWARD (NOPA)****Bringing Rapid Innovation Development to Green Energy (BRIDGE)
GFO-17-308****January 4, 2019**

On November 15, 2017, the California Energy Commission released a competitive solicitation titled "*Bringing Rapid Innovation Development to Green Energy (BRIDGE)*" (GFO-17-308). The solicitation sought to provide follow-on funding for the most promising energy technologies that have previously received an award from an eligible California Energy Commission program or United States federal agency for eligible energy efficiency and demand response technologies. These projects will allow researchers to continue their technology development in either applied research, or demonstration and deployment, without losing momentum or pausing to fundraise from private sources.

Originally, to \$15 million in Electric Program Investment Charge (EPIC) funding was available for the agreements resulting from this solicitation, in:

- Group 1: Energy Efficiency Applied Research and Development (\$10 million available funding).
- Group 2: Energy Efficiency Technology Demonstration and Deployment (\$5 million available funding).

As the Energy Commission reserves the right to change the available funding and the group minimum/maximum award amounts, the Energy Commission is adding funding for this solicitation. In this revised NOPA, the total funding amount for this solicitation is revised to \$18,255,827, as described below.

The Energy Commission received 33 applications by the due date of April 19, 2018. Each application was screened, reviewed, evaluated, and scored using the criteria in the solicitation. Twenty-one of these applications passed the Stage One Application Screening.

The first NOPA was released on August 8, 2018, and covered results for both funding groups:

- Total funding was \$17,516,433, of which \$13,849,329 was for Group 1, and \$3,667,104 for Group 2. Eight applications were recommended for funding.

This amendment covers updated results for both groups:

- One of the awardees in Group 1 declined a \$2,061,293 award.
- One additional awardee is being added to Group 2. The application was initially not reviewed due to the Grant Solicitation System file being labeled as a "Test." The error was discovered after the original NOPA was posted. The application was then reviewed and scored, and is recommended for an award of \$2,800,687.

- Total funding is updated to \$18,255,827, of which \$11,788,036 is for Group 1, and \$6,467,791 for Group 2. Eight applications are recommended for funding.

The attached “Revised Notice of Proposed Award” identifies the applicants recommended for funding by Energy Commission staff, and includes the recommended funding amount and score for each application.

Funding of the 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 grant agreements. If the Energy Commission is unable to timely 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, reduce, or shift funding among the groups to make additional awards and 2) 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 Kevyn Piper at (916) 654-4845 or Kevyn.Piper@energy.ca.gov.

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Bringing Rapid Innovation Development to Green Energy (BRIDGE)

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Group 1: Energy Efficiency Applied Research and Development

Group Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Award							
1	Ubiquitous Energy, Inc.	Accelerating Commercialization of Advanced Energy Efficient Windows	\$ 2,998,055	\$ 2,998,055	\$ 4,310,659	96.60	Awardee
2	Glint Photonics, Inc.	High Efficiency Dynamic Lighting Systems	\$ 1,999,990	\$ 1,999,990	\$ 200,064	87.50	Awardee
3	MicroBio Engineering, Inc.	Improving Energy Efficiency and Performance of Wastewater Recycling	\$ 1,550,227	\$ 1,550,227	\$ 160,000	87.40	Awardee
4	Porifera, Inc.	Energy and Water Savings in Food and Beverage Wastewater Reuse	\$ 1,777,132	\$ 1,777,132	\$ 195,000	86.70	Awardee
5	Lucent Optics, Inc.	Ultra-thin Flexible LED Lighting Panels	\$ 1,692,069	\$ 1,692,069	\$ 169,207	86.60	Awardee
6	Porifera, Inc.	Energy Savings at Wineries Through Osmotic Control of Brix and Alcohol	\$2,061,293	\$2,061,293	\$225,862	86.30	Awardee Declined
7 6	SkyCool Systems, Inc.	Radiative Sky Cooling-Enabled Efficiency Improvements on Commercial Cooling Systems	\$1,770,563	\$1,770,563	\$319,000	85.80	Awardee
Total Funding Recommended			\$13,849,329	\$13,849,329	\$5,579,792		
Total Funding Recommended			\$11,788,036	\$11,788,036	\$5,353,930		

Group Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Passed but Not Funded							
8	Wasatch Collaborating	EPIC Chair	\$1,439,680		\$145,000	85.20	Finalist
9	Extensible Energy, Inc.	Commercial Load Balancing Software	\$3,000,000		\$300,000	85.10	Finalist
10	Flometrics, Inc.	Next Generation Data Center Liquid Cooling	\$2,634,178		\$292,686	83.70	Finalist
Total			\$7,073,858	\$0	\$737,686		



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Group Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Did Not Pass							
	Siemens Corporation	Price-mediated, Automated Demand Response for Commercial Buildings with Differentiated Automation Systems	\$1,700,000		\$170,000		Did Not Pass
	Andromeda Power	Building Energy Management System with Demand Response Gateway (BEMS-DRG)	\$2,802,021		\$350,000		Did Not Pass
	ES Engineering Services	Demonstration of a Low-energy and Efficient Treatment System for Selenium and Other Contaminants Removal Using an Innovative Hybrid Biosorption Process	\$2,199,130		\$471,488		Did Not Pass
	Lucid Design Group, Inc.	Accelerating Energy Savings in Commercial Buildings through Prescriptive Portfolio-wide Energy Conservation Measure Prioritization	\$2,000,000		\$200,000		Did Not Pass
	Terzo Power Systems, Inc.	Distributed Smart Pump Network with Real Time Efficiency Optimization Software	\$3,000,000		\$400,000		Did Not Pass
	Hi-Z Technology, Inc.	Reducing Electricity Consumption with Thermoelectrics	\$2,000,000		\$200,000		Did Not Pass
	Flex Power Control, Inc.	System Integrated Distributed Energy Resource Management Platform (DERMP) Optimization and Commercialization Program	\$2,999,851		\$300,000		Did Not Pass
	Total		\$16,701,002	\$0	\$2,091,488		



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Group Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Disqualified							
	Alumina Energy, LLC	Alumina Packed Bed Thermal Energy Storage Technology for Solar Energy Per Demand System – Phase II of a Quad-Gen System.	\$2,999,420		\$606,414		Disqualified
	Antelope Valley Water Storage, LLC	Demand Response Using Virtual Pumped Storage	\$2,200,000		\$220,900		Disqualified
	BlocPower LLC	Integrating Building Science + Financial Feasibility Data and Analytics to Finance Energy Efficiency Projects in California's Financially Underserved Communities	\$2,034,000.00		\$291,000		Disqualified
	CellLink Corporation	High Conductance Flexible Circuits for Clean Power Devices	\$2,827,000		\$1,285,190		Disqualified
	Feasible Inc.	Acoustic Analysis for Improved Battery Quality and Performance	\$1,023,718		\$175,000		Disqualified
	Mark Miles Consulting, Inc.	Manufacturing and Systems Development for Solar Thermal Infrastructure	\$1,122,404		\$240,079		Disqualified
	MOEV, Inc.	Efficient DR with Aggregated DER Management and Shimmy Support	\$1,006,450		\$105,000		Disqualified
	Opus 12 Incorporated	Carbon Dioxide Utilization for Increased Grid-Scale Energy Efficiency	\$1,629,661		\$1,802,452		Disqualified
	ProsumerGrid, Inc.	DER Integrated Grid Planning Studio	\$3,000,000		\$333,333		Disqualified
	SAFCeLL, Inc.	Solid Acid Natural Gas Fuel Cell Module as Micro CHP	\$2,412,647		\$278,589		Disqualified
	Sepion Technologies, Inc.	Polysulfide-blocking Polymer Membranes for Ultra-low Cost Aqueous Sulfur Energy Storage Systems	\$2,996,506		\$403,080		Disqualified
	Sigmagen, Inc.	Rapidly Deployable and Transportable High-Power-Density Smart Power Generators	\$3,000,000		\$300,000		Disqualified
		Total	\$26,251,806		\$6,041,037		
		Grand Total	\$61,814,702	\$11,788,036	\$14,224,141		



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Group 2: Energy Efficiency Technology Demonstration and Deployment

Group Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Award							
1	Porifera, Inc.	<u>Energy Savings Through Osmotic Concentration for the Food and Beverage Processing Industry</u>	\$2,800,687	\$2,800,687	\$605,073	86.36	Awardee
4	Heliotrope Technologies, Inc.	Building Energy Impact Analysis of Low Cost NanoEC Electrochromic Window Control Algorithm Optimization	\$3,667,104	\$3,667,104	\$952,276	84.10	Awardee
Total Funding Recommended			\$3,667,104 \$6,467,791	\$3,667,104 \$6,467,791	\$952,276 \$1,557,349		

Group Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Did Not Pass							
	OhmConnect, Inc.	Power to the People: Connecting Smart Homes to the Smart Grid in Disadvantaged Communities via Automated Efficiency Tools and Demand Response	\$3,822,465		\$1,437,955		Did Not Pass
	Universal Devices, Inc.	Self-Managing, Autonomous, and Smart Homes Assistant (SASHA)	\$4,982,820		\$1,635,880		Did Not Pass
Total			\$8,805,285		\$3,073,835		
Grand Total			\$15,273,076	\$6,467,791	\$4,631,184		