

CALIFORNIA ENERGY COMMISSION

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



NOTICE OF PROPOSED AWARDS
2011 Emerging Technology Demonstration Grants Program (ETDG II)
Grant Solicitation PON-11-501
March 2nd, 2012

On October 20th, 2011, the California Energy Commission's Public Interest Energy Research (PIER) Program released a Program Opportunity Notice (PON-11-501) entitled "2011 Emerging Technology Demonstration Grant Program (ETDG II)." The purpose of the solicitation was to fund emerging technologies in the industrial, agricultural and water sectors that will significantly reduce California's energy and water use. Proposers competed in the following project categories: 1) Water and Wastewater; 2) Data Centers; 3) Customer-Side Electricity Storage; and 4) Industrial Energy Efficiency Projects. For ETDG II, the minimum award size is \$750,000 with a maximum award size of \$2,000,000.

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 \$15,726,959 and fund twelve (12) of the eighteen (18) passing projects under this solicitation. However, should additional natural gas and electricity funding be made available, the remaining passing projects **may** receive funding. This Notice of Proposed Awards is hereby issued pursuant to these recommendations.

The attached table titled "Notice of Proposal 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.

Final approval of these awards rests with the Energy Commission, which will consider each project at a publicly noticed Business Meeting at the Energy Commission in Sacramento, California.

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 Anish Gautam at (916) 327-2382, or by email at ACGautam@energy.state.ca.us.



California Energy Commission

PON-11-501

Notice of Proposal Awards and Results of Submitted Proposals 2011 Emerging Technology Demonstration Grants Program (ETDG II)



Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score Status
Proposed Awards						
1	AutoGrid Systems, Inc.	Low-cost, Scalable, Fast Demand Response for Municipal Wastewater and Recycling	\$1,199,544	\$1,199,544	\$603,100	Awardee
2	Kennedy/Jenks Consultants	Primary Effluent Filtration as an Intermediary Wastewater Treatment Step	\$1,418,800	\$1,418,800	\$568,800	Awardee
3	ICF International	Data Center Demonstration with Combined Heat and Power Technology	\$974,179	\$974,179	\$504,189	Awardee
4	Palo Alto Research Center, Incorporated	Novel Hydrodynamic Separation Technology Provides a Low-Energy-Consumptive Alternative for Sludge Clarification & Storm Surge Rescue	\$1,382,715	\$1,382,715	\$380,817	Awardee
5	San Diego Supercomputer Center	Green Queue: Reducing Energy Usage in Data Intensive Computing through Application Aware Dynamic Voltage Frequency Scaling	\$1,053,404	\$1,053,404	\$645,000	Awardee
6	UTS Bioenergy LLC	Municipal Digester Repowering Demonstration Project	\$1,933,551	\$1,933,551	\$607,722	Awardee
7	Great Circles Industries, Inc.	Demonstration of i50 Decentralized Wastewater Treatment/Water Recycling	\$750,000	\$750,000	\$250,000	Awardee
8	Altex Technologies Corporation	Demonstration of full scale BBADS desensification system	\$1,390,941	\$1,390,941	\$481,391	Awardee
9	West Biofuels, LLC	Demonstration of Advanced Biomass Combined Heat and Power Systems in the Agricultural Processing Sector	\$2,000,000	\$2,000,000	\$1,450,829	Awardee
10	Berkeley Energy Sciences Corporation	Peak Shaving with Flywheel Energy Storage Device	\$1,800,000	\$1,800,000	\$800,000	Awardee

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score Status
11	Black & Veatch	Full-scale Demonstration of an Innovative Electrodialysis technology for Zero Liquid Discharge Desalination	\$800,000	\$800,000	\$249,000	Awardee
12	University of California, Irvine	Fuel Flexible Rotary Engine DG/CHP for Wastewater Facility Applications	\$1,023,825	\$1,023,825	\$650,000	Awardee
13*	Quantitative BioSciences, Inc.	Algae-based treatment of dairy wastewater & generation of renewable energy	\$1,500,000			
14*	Maxwell Technologies	Economic Benefits of Firm Concentrated PV Energy for the Grid	\$1,392,464			
15*	Gas Technology Institute	Demonstration of Waste Heat Recovery for Power Generation	\$1,733,000			
16*	Biodiesel Industries of Ventura, LLC	Solar Power, and Gasification and Anaerobic Digestion of Raw Glycerin and Agriculture Waste, to Produce Combined Heat and Power for Biorefineries	\$2,000,000			
17*	Hazen and Sawyer, P.C.	Innovative Ion Exchange Technology to Provide Two Far-Reaching and Widely Applicable Energy Reduction Benefits in Wastewater Treatment and Water Reuse	\$1,028,753			
18*	Environmental Energy & Engineering, Co.	Biomethane Production and Ammonia Recovery from High Solids Substrates	\$1,640,000			
Did not pass						
Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score Status
19	Intelligent Energy, Inc.	Innovative CHP Technology with Improved Energy Efficiency & CO2 Reduction	\$1,970,372			Did not pass
20	GEI Consultants, Inc.	Demonstration of Ultra Lean Burn Engine Technology Using Plasma Reformer	\$2,000,000			Did not pass
21	Gate 5 Energy Partners, Inc.	Gate 5 Energy Partners, Inc. Sludge Energy Recuperator Transformer Demonstration Project	\$2,000,000			Did not pass
22	ADI Solar Corp.	24/7 Baseload Solar Storage System	\$1,750,000			Did not pass
23	Stanford University	Towards Scalable High-Efficiency High-Performance Mid-Size Data Centers	\$2,000,000			Did not pass

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score Status
24	PureSense Environmental, Inc.	Demonstration of AutoDR Technology & Decision Support Tools for Agriculture	\$1,247,780			Did not pass
25	GEI Consultants, Inc.	Advanced Gas Quality Sampling, Measurement and Control System	\$2,000,000			Did not pass
26	Gas Technology Institute	Energy Efficiency Increase Using Oxygen-Enriched Combustion	\$1,249,905			Did not pass
Total Funds Recommended for ETDG Program			\$25,021,176.00	\$15,726,959.00	\$7,190,848.00	

*** Projects 13 to 18 may be awarded if additional funds are made available.**