

CALIFORNIA ENERGY COMMISSION

DIVISION OF FINANCIAL SERVICES
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NOTICE OF PROPOSED AWARDS
Emerging Technology Demonstration Grants Program (ETDG)
Grant Solicitation PON-08-006
December 22, 2009

On January 13, 2009, the California Energy Commission (Energy Commission) released a Program Opportunity Notice (PON) and a Competitive Grant Solicitation Application Package, PON-08-006, for the Emerging Technology Demonstration Grant (ETDG) Program, Solicitation under the Public Interest Energy Research (PIER) Program. This Grant Solicitation was an offer to fund emerging technologies in the industrial, agriculture and water sector that will significantly reduce California's energy and water use. Applicants competed in the following four project categories: 1) Data Centers; 2) Energy Storage for Customer-side applications; 3) Industrial Demonstration Projects; and 4) Water and Wastewater Projects. The solicitation announced that up to \$4.4 million in funding was available.

In accordance with the 2009 Application Package for ETDG Grant Solicitation, each proposal was screened for completeness and reviewed by the Energy Commission staff. Then, the Energy Commission's Technical Advisory Committee (TAC) reviewed, evaluated, and scored applications submitted in response to the Solicitation using the criteria prescribed in the Application Package. Based on the TAC's scores and assessment of potential beneficial projects, the TAC recommended an augmentation for additional awards. As a result, the Commission's RD&D Committee made its proposed funding recommendations, which increases the number of awards for this ETDG Grant Solicitation. The RD&D Committee proposes to award a total of \$6,891,988.00 to the top nineteen passing projects for this solicitation. This Notice of Proposed Awards is hereby issued pursuant to those recommendations.

The attached Table, "Notice of Proposed Awards and Results of Submitted Proposals", identifies each applicant selected to receive funding, the project title, the amount of recommended funding by the RD&D Committee, and scoring information. Funding of the ETDG Grant Solicitation projects is contingent upon the approval of these projects during a Commission Business Meeting. This notice is being mailed to all parties who submitted a proposal to this solicitation and is also posted on the Commission Web Site as follows:
<http://www.energy.ca.gov/contracts/pier.html>.

The Energy Commission will consider the Committee's recommendations during a publicly noticed Business Meeting at the Energy Commission in Sacramento, California.

Persons wishing further information about this matter may contact Anish Gautam at (916) 654-4196 or by email, acgautam@energy.state.ca.us



California Energy Commission

Notice of Proposal Awards and Results of Submitted Proposals

Emerging Technology Demonstration Grants Program (ETDG) Solicitation PON-08-006



Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended	Match Funds	Score Status
Proposed Awards						
1	One-Cycle Control, Inc.	One-Cycle Control Peak Load Reduction (OCC-PLR) System	\$400,000.00	\$400,000.00	\$103,361.00	Awardee
2	Kennedy/Jenks Consultants	The Use of Novel Nanoscale Materials for Sludge Dewatering: A Field Demonstration	\$299,956.00	\$299,956.00	\$174,989.00	Awardee
3	PAX Streamline, Inc.	Aggressive Humidity Control in Supermarkets for Electric Demand and Energy Savings	\$398,787.00	\$398,787.00	\$667,376.00	Awardee
4	PAX Water Technologies	High-Efficiency Submersible Mixers for Wastewater Pond Aeration	\$344,683.00	\$344,683.00	\$156,485.00	Awardee
5	Cascade Clean Energy, Inc.	CASCADE Clean Energy System for CEC PIER ETDG in Water and Waste Water Projects	\$400,000.00	\$400,000.00	\$379,224.00	Awardee
6	Washington University	Advanced Water Treatment Technologies for Onsite Water Reuse	\$206,433.00	\$206,433.00	\$85,000.00	Awardee
7	Lawrence Berkeley National Laboratory	Data Center Economizer Cooling with Tower Water	\$200,000.00	\$200,000.00	\$50,000.00	Awardee
8	Gas Technology Institute	Solar-Assisted Industrial Heating	\$399,973.00	\$399,973.00	\$564,483.00	Awardee
9	Lawrence Berkeley National Lab.	Demonstration of Intelligent Control for an Enterprise Datacenter	\$400,000.00	\$400,000.00	\$200,000.00	Awardee
10	Green Wireless Systems, Inc.	Water savings in landscape irrigation with wireless mesh moisture sensors and valve	\$397,655.00	\$397,655.00	\$100,000.00	Awardee
11	American Biodiesel, Inc., dba Community Fuels	Integrated system for reducing water consumption and wastewater discharge of biodiesel production facilities in California	\$349,524.00	\$349,524.00	\$179,556.00	Awardee
12	CO2Nexus Inc.	Supercritical CO2 Cleaning and Sterilization of Commercial / Industrial Textile	\$396,200.00	\$396,200.00	\$200,000.00	Awardee
13	mc2 Consulting, Inc.	Advanced Software for Demand and Energy Reduction in California Pipelines	\$399,565.00	\$399,565.00	\$119,600.00	Awardee
14	The Regents of the University of California, Davis	Demo. of Mid-Scale Concentrated Solar Power - Dish/ engine System to Offset Peak Energy Cost at a Wastewater Treatment Facility	\$399,947.00	\$399,947.00	\$9,000,000.00	Awardee
15	PAX Scientific, Inc.	High Efficiency Server Fans	\$299,265.00	\$299,265.00	\$100,038.00	Awardee
16	Gas Technology Institute	Reclamation of Wastewater for Cooling Tower Operations at the Gills Onions Processing Plant in Oxnard, California	\$400,000.00	\$400,000.00	\$152,000.00	Awardee
17	Electric Power Research Institute, Inc.	Variable Airflow Management with Direct Expansion (DX) Computer Room A/C	\$400,000.00	\$400,000.00	\$100,000.00	Awardee



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18	Utility Savings & Refund, LLC	Application of High Capacity Elec.Eng. Storage via Vanadium Redox Flow Batteries, in conjunction with Fuel Cells, to a Wastewater Treatment Facility	\$400,000.00	400,000.00	\$2,500,000.00	Awardee
19	Premium Power Corporation	Demo.of Zinc-Flow Energy Storage System	\$400,000.00	400,000.00	\$100,000.00	Awardee
Did not pass						
20	SynapSense Corporation	Proposal to Improve Oper. and Energy Eff. in Data Cntr. Using a Wireless Mesh Instrum. and Control	\$189,267.00	\$0.00	\$283,900.00	Did not pass
21	Clustered Systems Company, Inc.	Demo. of Data Center Energy Savings through Elimination of Chiller Loop	\$400,000.00	\$0.00	\$223,224.00	Did not pass
22	EPRI	Demonstration of Direct Current Power Distribution in Data Centers	\$400,000.00	\$0.00	\$100,000.00	Did not pass
23	Fiscalini Farms	Fiscalini Farms ETDG Research Project	\$399,995.00	\$0.00	\$104,800.00	Did not pass
24	MacroDynamic Inc.	DSRSD (Dublin, San Ramon Services District) WWTP Disinfection Energy Enhancement	\$400,000.00	\$0.00	\$100,000.00	Did not pass
25	Lawrence Berkeley National Lab.	Research Demonstration of Solar Thermal Cooling in California Wineries	\$400,000.00	\$0.00	\$389,000.00	Did not pass
26	Engsysco, Inc.	Demo. of Airflow Rate Reduc. and Energy Conserv.Techn.for Calif. Cleanroom Facilities	\$399,440.00	\$0.00	\$101,250.00	Did not pass
27	Deeya Energy, Inc.	Demonstration of a Fe-Cr Flow Battery Used in a Peak Shaving Application	\$399,999.00	\$0.00	\$269,114.00	Did not pass
28	World View Water	Solar Water Purification Using Laminar Cellular Arrays	\$261,812.00	\$0.00	\$100,000.00	Did not pass
29	Aquajet Lowhead Hydropower Co. LLC	Lowhead Hydropower Demonstration at Thermalito Afterbay Discharge	\$400,000.00	\$0.00	\$250,000.00	Did not pass
Total Funds Recommended for ETDG Program			\$10,542,501.00	\$6,891,988.00	\$16,853,400.00	

Dated: December 22, 2009
 Expire: December 29, 2009