

CALIFORNIA ENERGY COMMISSION

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



NOTICE OF PROPOSED AWARDS
Environmental Issues Related to Clean Energy Systems
Grant Solicitation PON-11-502
March 23, 2012

On December 12, 2011, the California Energy Commission's Public Interest Energy Research (PIER) Program released a Program Opportunity Notice (PON-11-502) entitled "Environmental Issues Related to Clean Energy Systems." The purpose of the solicitation was to fund research, development, and demonstration projects that help develop cost-effective ways to evaluate and resolve the environmental effects of clean energy systems. Proposers competed in the following project categories: 1) Removing Environmental Barriers to the Timely Permitting and Deployment of Clean Energy Facilities; 2) Improving Water Conserving Cooling Technology Performance in Power Plants; 3) Control Options to Reduce Fugitive Methane Emissions from the California Natural Gas System; and 4) Develop Beneficial Uses of Carbon Dioxide (CO₂). The minimum award size is \$500,000 with a maximum award size of \$750,000.

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 \$3,885,385 and fund six (6) of the ten (10) passing projects under this solicitation. However, should additional funds be made available, the remaining passing project may also 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.

Given that the funds for this solicitation must be encumbered by June 30, 2012, Applicants identified for funding in the Notice of Proposed Awards must complete and return (return means received by the Energy Commission - not postmarked) required agreement documents and confirm their agreement to the terms and conditions to the Energy Commission's Contracts and Grants Office by 4:00 PM on April 3, 2012. The required agreement documents that applicants must submit by this date are the statement of work, the budget exhibits consistent with the Statement of Work, and the Schedule of Products and Due Dates Exhibits consistent with the Statement of Work. All

documents must follow the required templates. To confirm that the Applicant agrees to the terms and conditions, the Applicant must submit a signed form indicating such agreement. If an Applicant misses this deadline, or meets the deadline and otherwise cannot successfully execute an agreement, the Energy Commission, at its sole discretion, reserves the right to cancel the pending award and fund the next highest ranked eligible project from the NOPA.

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 Crystal Presley-Willis at (916) 654-5067, or by email at cpresley@energy.ca.gov.

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Rank	Prime Applicant	Title	Funds Requested	Estimated Amount	Score Status
1	Kiverdi, Inc	CO2 to Oil Production Using Kiverdi's Novel Microbial System	\$747,126	\$747,126	Awardee
2	Shawn Smallwood	Test of Avian Collision Risk of Closed-Bladed Wind Turbine	\$716,596	\$716,596	Awardee
3	Oakbio, Inc.	Carbon Dioxide Capture and Conversion to Chemical Products	\$474,843	\$474,843	Awardee
4	Maulbetsch Consulting	Wind Barriers to Mitigate Wind Effects on Air-cooled Condensers	\$749,577	\$749,577	Awardee
5	Redlands Institute, University of Redlands	Improving Decision Support for Environmental Review and Planning of Proposed Solar Energy Projects Relative to Mojave Desert Tortoise	\$563,776	\$563,776	Awardee
6	Randel Wildlife Consulting, Inc	Affect of Utility-Scale Solar Development and Operation on Desert Kit Foxes	\$633,467	\$633,467	Awardee
7*	Technikon	In Stack Conversion of CO2 into Oxygen and Carbon Black	\$617,261	\$617,261	Finalist
8*	ADI Solar Corporation	Integration of CO2 into Solar Fuels as DME	\$475,000	\$475,000	Finalist
9*	SRI International	Carbon Dioxide Utilization Technologies in Production of Building Materials	\$749,656	\$749,656	Finalist
10*	Green Fire Energy	CO2 Utilization in Energy Technologies Using CO2-Based Geothermal Energy	\$557,950	\$557,950	Finalist
11	H.T. Harvey & Associates	Home-Range Dynamics of Breeding Swainson's Hawks in Areas of California Subject to Development of Renewable Energy	\$742,962	\$742,962	Disqualified
12	Coalition for Urban/Rural Environment	Environmental Decision Support Tools to Assess Potential Water Supply, Water Quality, and Ecosystem Impacts Critical to Siting and Permitting Clean Energy Facilities in the San Joaquin River Basin, California	\$749,463	\$749,463	Disqualified
13	TetraTech, EC.	Evaluating the Desert Golden Eagle Breeding Population to Enable Timely Permitting of California Clean Energy Facilities	\$750,000	\$750,000	Disqualified
14	Stockholm Environment Institute	Considering the Five F's in the Permitting of Clean Energy Facilities: Understanding Cumulative Effects of Fuels on Fish, Farms, Fowl, and Faucets	\$749,975	\$749,975	Disqualified
15	DM's Wildlife Wellness and Rehabilitation	Desert Kit Fox Monitoring and Treatment Program	\$750,000	\$750,000	Disqualified

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Rank	Prime Applicant	Title	Funds Requested	Estimated Amount	Score Status
16	H.T. Harvey & Associates	Habitat Utilization of Breeding Western Red Bats in Areas of California Subject to Development of Renewable Energy	\$701,756	\$701,756	Disqualified
17	Biogas & Electric, LLC.	Emissions Control for Biogas Engines at Wastewater Treatment Plants	\$750,000	\$750,000	Disqualified
18	Environmental Energy & Engineering, Co.	Removal of Environmental and Economic Barriers to Anaerobic Processing	\$691,400	\$691,400	Disqualified
19	Keyes & Fox, LLP.	Tools for Efficient and Appropriate Siting of DG Facilities	\$608,545	\$608,545	Disqualified
20	Altostratus, Inc.	Quantifying Indirect-Effect Footprints of Solar Power Generation Facilities in California's Desert to Reduce Uncertainties in Siting and Mitigation	\$359,901	\$359,901	Disqualified
21	PRBO	Reducing Environmental Barriers by Simultaneous Mapping of Bird and Bat Safe/Risk Zones	\$743,381	\$743,381	Disqualified
Total Funds Recommended for Environmental Issues Related to Clean Energy Systems Program			\$13,882,635	\$13,882,635	

* Projects 7 to 10 may be awarded the full requested amount if additional funds are made available.