



NOTICE OF PROPOSED AWARD

Advance to Next-Generation Wind Energy Technology
(NEXT WIND)
GFO-19-302
February 20, 2020

On September 30, 2019, the California Energy Commission (CEC) released a competitive solicitation to fund applied research and development projects that facilitate the development of next-generation wind energy technologies and result in increased competitiveness, performance and reliability, while lowering the cost and the environmental and wildlife impacts of wind energy. Up to \$12,000,000 in Electric Program Investment Charge (EPIC) funding is available to fund applications in:

- Group 1: Next-Generation Land-Based Wind Energy Technologies
- Group 2: Real-Time Monitoring Systems for Next-Generation Offshore Wind
- Group 3: Environmental Risk Assessment for Offshore Wind Energy Systems

The CEC received nine proposals by the due date, December 16, 2019. Each proposal was screened, reviewed, evaluated, and scored using the solicitation criteria. Nine proposals passed the stage one application screening.

The attached Notice of Proposed Awards identifies each applicant selected and recommended for funding by CEC staff and includes the recommended funding amount and score. The total amount recommended is \$7,999,979.

Funding of proposed projects from this solicitation is contingent upon the approval of these projects at a publicly noticed CEC business meeting and execution of a grant agreement. If the CEC is unable to timely negotiate and execute a funding agreement with an applicant, the CEC, 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 CEC reserves the right to: 1) add to, remove, or shift funding between the different groups if there are insufficient passing proposals in one group; and 2) negotiate with successful applicants to modify the project scope, schedule, or level of funding.

This notice is being mailed to all parties that submitted an application to this solicitation and is also posted on the [CEC's website](http://www.energy.ca.gov/contracts/) at www.energy.ca.gov/contracts/.

For information, please contact Andrea Hoppe, Commission Agreement Officer, at (916) 651-0588, or andrea.hoppe@energy.ca.gov.



California Energy Commission

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Project Group 1 – Next-Generation Land-Based Wind Energy Technologies

Notice of Proposed Awards

February 20, 2020

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Jason Cotrell, dba RCAM Technologies	On-site 3D Concrete Printing for Next-Generation Low-Cost Wind Plants	\$2,999,979	\$2,999,979	\$302,000	110.13	Awardee
Total Funding Recommended			\$2,999,979	\$2,999,979	\$302,000		
Did Not Pass							
2	EiP Technologies, Inc.	EiP Technologies - 100% Renewable Low Carbon Power Generation and Storage	\$1,322,100	\$0	\$0		Did Not Pass
3	U-Energy	Advance to Next-Generation Wind Energy Technology (Next Wind)	\$2,000,000	\$0	\$150,000		Did Not Pass
Total			\$3,322,100	\$0	\$150,000		
Grand Total			\$6,322,079	\$2,999,979	\$452,000		



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Project Group 2 – Real-Time Monitoring Systems for Next-Generation Offshore Wind

Notice of Proposed Awards

February 20, 2020

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Lawrence Berkeley National Laboratory	Integrated Distributed Fiber Optic Sensing for Real-time Monitoring of OWT Gearbox and Tower Operation and Marine Animal Activities	\$2,000,000	\$2,000,000	\$520,000	93.07	Awardee
2	Aker Solutions, Inc.	NextWind Real-time Monitoring System	\$2,000,000	\$2,000,000	\$201,775	86.46	Awardee
Total Funding Recommended			\$4,000,000	\$4,000,000	\$721,775		
Grand Total			\$4,000,000	\$4,000,000	\$721,775		



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Project Group 3 – Environmental Risk Assessment for Offshore Wind Energy Systems

Notice of Proposed Awards

February 20, 2020

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Humboldt State University Sponsored Programs Foundation	Seabird 3D Distribution and Relative Risk from California Offshore Wind Turbines	\$500,000	\$500,000	\$20,046	102.14	Awardee
2	Integral Consulting Inc.	A Risk Assessment Framework to Evaluate Effects of Offshore Wind Farms on the California Upwelling Ecosystem	\$999,044	\$500,000	\$264,179	97.72	Awardee
Total Funding Recommended			\$1,499,044	\$1,000,000	\$284,225		
Passed but Not Funded							
3	Cal Poly Corporation	Using machine learning and artificial intelligence to facilitate environmental impact analyses: development of a web-based tool to lower the cost of offshore renewable energy	\$685,672	\$0	\$72,804	95.17	Finalist
4	Electric Power Research Institute, Inc.	Assessment of risk to migratory bats of offshore wind energy in California	\$989,949	\$0	\$374,516	94.41	Finalist
Total			\$1,675,621	\$0	\$447,320		
Grand Total			\$3,174,665	\$1,000,000	\$731,545		