

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
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**REVISED NOTICE OF PROPOSED AWARD (NOPA)****Developing the Smart Grid of 2020: Clean, Safe, and Highly Intelligent
GFO-15-313
~~March 3, 2016~~ March 25, 2016**

On November 30, 2016, the California Energy Commission (Energy Commission) released a competitive solicitation to fund applied research and development projects that develop technologies, tools, and strategies to enable the smart grid of 2020. Up to \$11,691,463 in Electric Program Investment Charge (EPIC) funding is available to fund applications in the following Funding Groups:

- Group 1: Smart Grid Operation and Management Practices
- Group 2: Distribution Automation Enhancements
- Group 3: Bi-Directional Distribution Equipment, Devices, and Technologies

The Energy Commission received 29 proposals by the due date of January 19, 2016. The proposals were screened, reviewed, evaluated, and scored using the criteria in the solicitation. 23 proposals passed the Stage One Application Screening.

The attached “Notice of Proposed Awards” identifies each applicant selected and recommended for funding by Energy Commission staff and includes the recommended funding amount and score. The total amount recommended is \$7,098,900.

Funding of 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 a grant agreement. If the Energy Commission is unable to timely negotiate and execute a funding agreement with an Applicant, the Energy Commission, at its sole discretion, reserves the right to cancel or otherwise modify the pending awards, and award the funds to another qualified applicant.

In addition, the Energy Commission 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, and/or 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 Diana Parmley at (916) 651-9409 and diana.parmley@energy.ca.gov.

Diana Parmley
Commission Agreement Officer

Dated ~~3/3/16~~ 3/25/16
Expires ~~3/10/16~~



California Energy Commission

GFO-15-313

Developing the Smart Grid of 2020: Clean, Safe, and Highly Intelligent

Project Group 1: Smart Grid Operation and Management Practices

Revised Notice of Proposed Awards

March 7, 2016 March 25, 2016

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Electric Power Research Institute, Inc.	Certified Open Source IEEE 2030.5 Client to Support CA Rule 21	\$816,539	\$816,539	\$243,722	76.85	Awardee
2	Onset Inc.	Applied Research and Development of the UniGen Smart System for Renewable Integration	\$638,993	\$638,993	\$0	76.73	Awardee
3	Electric Power Research Institute, Inc.	Expanding Standards and Developing Tools to Enable DNP3 Support of Energy Storage Use Cases	\$873,516	\$873,516	\$360,828	70.86	Awardee
Total Funding Recommended			\$2,329,048	\$2,329,048	\$604,550		
Passed but Not Funded							
Total			\$0	\$0	\$0		
Did Not Pass							
	University Enterprises, Inc. on behalf of CSU Sacramento	Research and Development of an Optimized Hierarchical Distribution Management System	\$1,500,000	\$0	\$157,584		Did Not Pass
	GridCure, Inc.	Smart Grid Data Analytics and Management Platform	\$621,696	\$0	\$313,420		Did Not Pass
	SLAC National Accelerator Laboratory (operated by Stanford University for the U.S. Department of Energy)	Data-Driven Distribution Grid Reconfiguration based on Information Theory	\$1,324,750	\$0	\$61,351		Did Not Pass
	The Regents of the University of California (UC Riverside)	Cost-Efficient Smart Grid Energy Storage Equipment with Second-Life Batteries: Overcoming Technical Barriers and Prototype Demonstration	\$1,197,204	\$0	\$374,417		Did Not Pass



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**Developing the Smart Grid of 2020: Clean, Safe, and Highly Intelligent
Project Group 1: Smart Grid Operation and Management Practices**

Notice of Proposed Awards

March 7, 2016

	OMNETRIC Corp.	Outage Interoperability: Leveraging standards and best practices in development to enable the sharing of outage data across utilities, with utility stakeholders, mutual aid coordination committees, service providers, and emergency response	\$675,000	\$0	\$0	Did Not Pass
	More Than Smart	Beyond Smart Grid: Delivering Solutions to Expand DER on California's Electric Grid	\$1,437,624	\$0	\$430,000	Did Not Pass
Total			\$6,756,274	\$0	\$1,336,772	
Disqualified						
Total			\$0	\$0	\$0	
Grand Total			\$9,085,322	\$2,329,048	\$1,941,322	



California Energy Commission GFO-15-313

Developing the Smart Grid of 2020: Clean, Safe, and Highly Intelligent
Project Group 2: Distribution Automation Enhancements

Revised Notice of Proposed Awards

March 7, 2016 March 25, 2016

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Electric Power Research-Institute, Inc. The Regents of the University of California (UC Riverside)	Integrated Distributed Energy Resources Management System (iDERMS)	\$1,119,437	\$1,119,437	\$686,427	79.62	Awardee
2	The Regents of the University of California, Irvine	Station Automation and Optimization of Distribution Circuit Operations	\$939,695	\$939,695	\$109,392	76.15	Awardee
3	Siemens Corporation, Corporate Technology	Smart Management of Smart grids	\$500,000	\$500,000	\$455,000	75.35	Awardee
4	SLAC National Accelerator Laboratory (operated by Stanford University for the U.S. Department of Energy)	Powernet with Market Context	\$2,210,720	\$2,210,720	\$0	73.59	Awardee
Total Funding Recommended			\$4,769,852	\$4,769,852	\$1,250,819		
Passed but Not Funded							
Total			\$0	\$0	\$0		
Did Not Pass							
	The Regents of the University of California; University of California, San Diego	Advanced Distribution Grid Automation and Control Strategies Utilizing Forecasting, AML, and Real-Time Simulation	\$2,465,991	\$0	\$433,619		Did Not Pass
	Lawrence Berkeley National Laboratory	Distributed Energy Resource Control for Simultaneous Distribution- and Transmission-Level Services	\$2,500,000	\$0	\$9,000		Did Not Pass
	The Regents of the University of California, Los Angeles	Distributed Energy Environment of Cooperative Microgrids to Enhance Smart Grid Reliability	\$2,407,883	\$0	\$334,014		Did Not Pass
	Qubitekk, Inc.	Long-term Cybersecurity for Distributed Automation Equipment	\$650,000	\$0	\$0		Did Not Pass

	Natural Capitalism Solutions, Inc. dba Clean Coalition	Harnessing Smart Inverters to Maximize Solar Hosting Capacity on the Distribution Grid	\$1,131,400	\$0	\$330,000		Did Not Pass
	Dorbs, Inc.	Cross Junction Energy Intelligence	\$1,372,644	\$0	\$120,244		Did Not Pass
	COMWATT USA & SOLFOX	Self-Production technologies in California: understanding California energy behaviors to optimize cost reduction and grid reliability	\$1,171,522	\$0	\$143,245		Did Not Pass
Total			\$11,699,440	\$0	\$1,370,122		
Disqualified							
	Gridscape Solutions	Predictive and Analytical Management and Control of Distributed Energy Resources	\$1,499,800	\$0	\$599,175		Disqualified
Total			\$1,499,800	\$0	\$599,175		
Grand Total			\$17,969,092	\$4,769,852	\$3,220,116		



California Energy Commission

GFO-15-313

**Developing the Smart Grid of 2020: Clean, Safe, and Highly Intelligent
Project Group 3: Bi-Directional Distribution Equipment, Devices, and Technologies**

Revised Notice of Proposed Awards

~~March 7, 2016~~ March 25, 2016

Rank Number	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
<i>Proposed Awards</i>							
Total Funding Recommended			\$0	\$0	\$0		
<i>Passed but Not Funded</i>							
Total			\$0	\$0	\$0		
<i>Did Not Pass</i>							
	SLAC National Accelerator Laboratory (operated by Stanford University for the U.S. Department of Energy)	Floating PMU: High accuracy line mounted voltage and current transducers for distribution system applications	\$2,301,996	\$0	\$0		Did Not Pass
	Concurrent Technologies Corporation	Bi-Directional Technology for Second Life Electric Vehicle Battery Storage	\$2,427,179	\$0	\$0		Did Not Pass
	Andromeda Power LLC	2D-SPECS - BiDirectional Smart Photovoltaic grid-integrated Electric vehicle Charging Station	\$799,577	\$0	\$451,600		Did Not Pass
Total			\$5,528,752	\$0	\$451,600		
<i>Disqualified</i>							
	ABB Inc.	TroubleSaver: Smart Cutout Recloser for Emerging Distribution Circuits with DERs	\$1,600,000	\$0	\$400,000		Disqualified
	SunSpec Alliance	Open Distributed Energy Network Orchestrator	\$2,499,800	\$0	\$870,000		Disqualified
	Electric Power Research Institute, Inc.	Real Time Distribution Simulation Platform Integrated with Advanced Sensors	\$1,824,952	\$0	\$379,975		Disqualified

	The Regents of the University of California, Riverside	Exploiting microPMU Data to Enable Bi-directionality, Enhance Reliability, and Improve Efficiency in California Distribution Feeders	\$1,776,459	\$0	\$297,814		Disqualified
	CLEANTECH INSTITUTE, INC.	Smart Bi-Directional Inverter for Vehicle-to-Grid Applications	\$2,485,147	\$0	\$710,818		Disqualified
Total			\$10,186,358	\$0	\$2,658,607		
Grand Total			\$15,715,110	\$0	\$3,110,207		