

CALIFORNIA ENERGY COMMISSION

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

**REVISED NOTICE OF PROPOSED AWARD (NOPA)**

**DEMONSTRATING SECURE, RELIABLE MICROGRIDS
AND GRID-LINKED ELECTRIC VEHICLES
TO BUILD RESILIENT, LOW-CARBON FACILITIES AND COMMUNITIES
PON-14-301
March 12, 2015**

On July 3rd, 2014, the California Energy Commission (Energy Commission) released a competitive solicitation to fund Technology Demonstration and Deployment (TD&D) projects that demonstrate the reliable integration of energy efficient demand-side resources, distributed clean energy generation, and smart grid components to enable energy-smart community development. \$26.5 million in Electric Program Investment Charge (EPIC) funding was available to fund agreements. As the Energy Commission reserves the right to increase or reduce the amount of funds available, the Energy Commission added \$4,637,296 to this solicitation for a total funding amount of \$31,137,296 for three project groups:

- Group 1: Demonstration of Low Carbon-Based Microgrids for Critical Facilities
- Group 2: Demonstration of High-Penetration, Renewable-Based Microgrids
- Group 3: Demonstration of Advanced Smart and Bidirectional Vehicle Charging

The Energy Commission received forty proposals by the due date of November 17th, 2014. Each proposal was screened, reviewed, evaluated, and scored using the criteria in the solicitation. Thirty-two proposals passed the Stage One Application Screening.

The attached "Revised Notice of Proposed Awards" identifies each applicant selected including additional applicants recommended for funding by Energy Commission staff and includes the recommended funding amount. The total amount recommended is \$31,137,296.

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 award, and award the funds to another applicant.

In addition, the Energy Commission reserves the right to: 1) add to, remove, or shift funding between the different groups 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:

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Project Group 1: Demonstration of Low Carbon-Based Microgrids for Critical Facilities

Amended Notice of Proposed Awards

March 12, 2015

Rank	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Humboldt State University	Demonstrating a Secure, Reliable, Low Carbon Community Microgrid at the Blue Lake Rancheria	\$5,000,000	\$5,000,000	\$1,318,422	83.158	Awardee
2	Gridscape Solutions	City of Fremont, Fire Stations Microgrid	\$1,817,925	\$1,817,925	\$567,259	76.692	Awardee
3	Trane U.S., Inc.	Laguna Wastewater Treatment Plant Microgrid	\$4,999,804	\$4,999,804	\$2,210,000	74.227	Awardee
4	Charge Bliss, Inc.	Charge Bliss Renewable Microgrid	\$4,776,171	\$4,776,171	\$2,095,835	73.487	Awardee
Total			\$16,593,900	\$16,593,900	\$6,191,516		
Passed but Not Funded							
4	Charge Bliss, Inc.	Charge Bliss Renewable-Microgrid-	\$4,776,171	\$4,776,171	\$2,095,835	73.487	Finalist
Total			\$0	\$0	\$0		
Did Not Pass							
5	Chemergy, Inc.	Biosolids to hydrogen with storage in a WWTP microgrid	\$3,535,971	\$0	\$1,518,083	56.573	Did Not Pass
6	UC San Diego	UCSD Hydrogen Based Microgrid	\$5,000,000	\$0	\$2,596,187	48.000	Did Not Pass
7	Foresight Renewable Solutions, LLC	San Francisco Resilient Communities Microgrid	\$3,558,019	\$0	\$10,099,260	47.286	Did Not Pass
8	UC Irvine	Microgrid Technology to Support Resilient Performance	\$4,978,280	\$0	\$1,302,612	46.429	Did Not Pass
9	UC San Diego	Reliable Survivable Resilient and Intelligent Microgrid for Critical Community infrastructures	\$4,998,850	\$0	\$9,108,307	46.000	Did Not Pass
10	Symation, Inc.	Fire Station 62 Microgrid with Storage	\$3,324,312	\$0	\$971,000	45.714	Did Not Pass
11	CleanSpark LLC.	City of Poway Water Treatment Plant	\$1,702,238	\$0	\$2,144,818	41.286	Did Not Pass
Total			\$27,097,670	\$0	\$27,740,267		
Disqualified							
Disqualified	PeakNRG	Majestic Beacon	\$4,986,568	\$0	\$430,000		Disqualified
Disqualified	3rd Rock Systems and Technologies	Community Shelters and California Schools	\$5,000,000	\$0	\$1,750,000		Disqualified
Disqualified	EPRI	Portable Microgrid at Port Hueneme	\$4,941,660	\$0	\$5,785,536		Disqualified
Total			\$14,928,228	\$0	\$7,965,536		
Grand Total			\$58,619,798	\$16,593,900	\$41,897,319		



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Project Group 2: Demonstration of High-Penetration, Renewable-Based Microgrids

Amended Notice of Proposed Awards

March 12, 2015

Rank	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	Robert Bosch LLC	Direct Current Building Scale Microgrid	\$2,817,566	\$2,817,566	\$1,790,095	88.524	Awardee
2	Recology Bioenergy	Hay Road Microgrid	\$915,500	\$0	\$1,749,500	88.293	Awardee Declined
3	Chabot-Las Positas Community College District	Las Positas College Microgrid Automation	\$1,522,591	\$1,522,591	\$450,000	78.086	Awardee
4	SDG&E	Photovoltaic Based Microgrid	\$4,724,802	\$4,724,802	\$1,209,560	74.696	Awardee
Total			\$9,980,459	\$9,064,959	\$5,199,155		
Passed but Not Funded							
5	UC Davis	Winery of the Future Microgrid Project	\$4,740,251	\$0	\$1,227,760	71.135	Finalist
Total			\$4,740,251	\$0	\$1,227,760		
Did Not Pass							
6	FIRM clean energy Inc.	High Penetration Renewable Energy Microgrid for Industrial Customers	\$2,190,376	\$0	\$760,000	64.149	Did Not Pass
7	City of Davis	Davis Microgrid and Solar Garden	\$4,499,346	\$0	\$1,125,000	46.143	Did Not Pass
8	Enlytics Inc.	Enlytics Microgrid Project	\$4,275,224	\$0	\$1,788,408	45.571	Did Not Pass
9	Edisun Microgrids, LLC.	Airosa Microgrid Project	\$3,990,952	\$0	\$1,531,921	44.571	Did Not Pass
Total			\$14,955,898	\$0	\$5,205,329		
Disqualified							
Disqualified	Ohlone College	Ohlone College Fremont Campus Microgrid	\$3,785,354	\$0	\$1,866,500		Disqualified
Disqualified	Ohlone College	Ohlone College Newark Campus Microgrid	\$3,138,304	\$0	\$811,500		Disqualified
Disqualified	LBNL	Modular Control System for microgrids	\$5,000,000	\$0	\$14,462,306		Disqualified
Disqualified	Victor Valley Wastewater Reclamation Authority	Victor Valley WWTP Renewable Microgrid	\$5,000,000	\$0	\$1,739,965		Disqualified
Disqualified	Cleantech Institute, Inc.	Portable Renewable Microgrid	\$5,000,000	\$0	\$1,507,580		Disqualified
Total			\$21,923,658	\$0	\$20,387,851		
Grand Total			\$51,600,266	\$9,064,959	\$32,020,095		



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Project Group 3: Demonstration of Advanced Smart and Bidirectional Vehicle Charging

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Rank	Project Applicant	Title	Energy Commission Funds Requested	Energy Commission Funds Recommended	Match Funds	Score	Award Status
Proposed Awards							
1	NRG Energy, Inc.	EV Storage Accelerator: Proving Commercial Viability of Energy Storage from Electric Vehicles	\$1,495,650	\$1,495,650	\$1,299,724	90.261	Awardee
2	Lawrence Berkeley National Laboratory	Smart Charging of Plug-in Vehicles and Driver Engagement for Demand Management and Participation in Electricity Markets	\$1,993,355	\$1,993,355	\$536,761	86.292	Awardee
3	UC Los Angeles	Demonstration of PEV Smart Charging and Storage Supporting Grid Objectives	\$1,989,432	\$1,989,432	\$500,000	84.481	Awardee
Total			\$5,478,437	\$5,478,437	\$2,336,485		
Passed but Not Funded							
4	Electric Power Research Institute	Open Vehicle-Grid Integration Platform Demonstration	\$1,998,806	\$0	\$795,428	83.917	Finalist
5	Center for Sustainable Energy	Fast Frequency Regulation and Demand Response Services through PEV Charging	\$1,846,361	\$0	\$466,466	82.385	Finalist
6	UC Riverside	Port Power	\$1,985,628	\$0	\$1,532,726	81.926	Finalist
7	Motiv Power Systems, Inc	Cost-Effective Vehicle-to-Grid Bus Demonstration	\$2,000,000	\$0	\$878,632	81.667	Finalist
8	FreeWire Technologies	Mobile EV Smart Charging for Demand Response, Energy Storage and Load Shifting	\$2,000,000	\$0	\$729,150	80.833	Finalist
9	TransPower	Heavy-Duty Advanced Vehicle Charging	\$1,699,225	\$0	\$541,802	79.382	Finalist
10	UC Davis	Demonstrating Demand Response Programs for Improving Grid Reliability, Higher Penetration of Renewables and Value for Plug-in Electric Vehicle Drivers	\$1,992,182	\$0	\$1,336,839	77.360	Finalist
Total			\$13,522,202	\$0	\$6,281,043		
Did Not Pass							
11	EV Connect, Inc.	Resilient, Low Cost EV Charging through Integrated Smart Energy Storage, Solar Power Generation and Demand Response	\$567,803	\$0	\$199,766	69.215	Did Not Pass
12	Andromeda Power, LLC	DREAMS - Resilient Microgrid with Solar Panels and Bi-Directional Plug-in Electric Vehicle Fast Charging Stations for Energy Storage and Demand Response	\$1,341,091	\$0	\$517,040	45.000	Did Not Pass
Total			\$1,908,894	\$0	\$716,806		
Disqualified							
Disqualified	Applicant Company Name	Project Title	\$0	\$0	\$0		Disqualified
Total			\$0	\$0	\$0		
Grand Total			\$20,909,533	\$5,478,437	\$9,334,334		