NOTICE OF PROPOSED AWARD (NOPA)

Demonstrate Business Case for Advanced Microgrids in Support of California’s Energy and GHG Policies
GFO-17-302

February 20, 2018

This NOPA is for all three groups. The NOPA for Group 1 was released on January 19, 2018 and this NOPA includes funding recommendations for Groups 2 and 3, as well as the revision to the NOPA released for Group 1 on January 19, 2018.

On August 4, 2017, the California Energy Commission (Energy Commission) released a competitive solicitation to fund technology demonstration and deployment projects with Electric Program Investment Charge (EPIC) funding. These projects would deploy field examples of advanced microgrids and produce business cases for scalable and repeatable standardized commercial-scale microgrid configurations with measurable benefits for end users of the selected market segments. These microgrid projects would also support California’s energy policies, reduce greenhouse gases and attract non-EPIC funding opportunities for future microgrids.

Up to $44,700,000 in EPIC funding was available to fund applications in:

- Group 1: Demonstration of Standardized High-DER Penetration, Renewable-Based, Resilient and Commercially Viable Microgrids Located at California Military Bases, Ports, and Native American Tribes within IOU Service Territories
- Group 2: Demonstration of Standardized High-DER Penetration, Renewable-Based, Resilient and Functional Microgrids located at California Disadvantaged Communities within IOU Service Territories
- Group 3: Demonstration of Standardized High-DER Penetration, Renewable-Based, Resilient and Commercially Viable Microgrids in IOU Territories that are not Proposed Either Under Group 1 or Group 2 Projects and Where Microgrids Provide Clear and Definable Added Value to the Selected End User of IOU Customers

As the Energy Commission reserves the right to increase, reduce or shift funding among the groups to make additional awards, the Energy Commission is adding $7,273,622 to this solicitation for a total funding amount of $51,973,622, of which $26,985,272 is for Group 1, $9,995,498 for Group 2 and $14,992,852 for Group 3.

The Energy Commission received 60 proposals by the due date of November 9, 2017. Each proposal was screened, reviewed, evaluated and scored using the criteria in the solicitation. Seven proposals did not pass the Stage One Application Screening, and 53 proposals passed the Stage One Application Screening.

The attached table titled “Notice of Proposed Awards” identifies the applicants selected and recommended for funding for all three groups by the Energy Commission staff along with the recommended funding amount and score.
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, or award the funds to another applicant.

In addition, the Energy Commission reserves the right to: 1) increase, reduce, or shift funding among the groups to make additional awards and 2) negotiate with successful applicants to modify the project scope, schedule, and/or level of funding.

This notice is being e-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 Crystal Presley-Willis at: Crystal.Presley-Willis@energy.ca.gov or (916) 653-6110.

Crystal Presley-Willis
Commission Agreement Officer
### Notice of Proposed Awards

#### February 20, 2018

<table>
<thead>
<tr>
<th>Rank Number</th>
<th>Project Applicant</th>
<th>Title</th>
<th>Energy Commission Funds Requested</th>
<th>Energy Commission Funds Recommended</th>
<th>Match Funds</th>
<th>Score</th>
<th>Award Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pala Band of Mission Indians</td>
<td>Pala Microgrid Project</td>
<td>$7,000,000</td>
<td>$7,000,000</td>
<td>$8,750,000</td>
<td>90.95</td>
<td>Awardee</td>
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<tr>
<td>2</td>
<td>City of Long Beach Harbor Department (Port of Long Beach)</td>
<td>Project RIZE: Resiliency in a Zero Emissions Future</td>
<td>$5,000,000</td>
<td>$5,000,000</td>
<td>$2,120,000</td>
<td>90.22</td>
<td>Awardee</td>
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<tr>
<td>3</td>
<td>Lawrence Berkeley National Laboratory</td>
<td>Power Begins at Home – R2M2 Resilient Replicable Modular Microgrids: Assured Energy Security for Military Bases</td>
<td>$5,000,000</td>
<td>$5,000,000</td>
<td>$11,410,900</td>
<td>88.60</td>
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<td>4</td>
<td>The Regents of the University of California; University of California San Diego</td>
<td>SemperGRID: Phase II Scale-Up and Business Case Demonstration of Advanced Microgrid Deployment at Marine Corps Air Station Miramar</td>
<td>$5,000,000</td>
<td>$5,000,000</td>
<td>$6,002,320</td>
<td>88.05</td>
<td>Awardee</td>
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<tr>
<td>5</td>
<td>San Diego Unified Port District</td>
<td>Tenth Avenue Marine Terminal Renewable Microgrid Project</td>
<td>$4,985,272</td>
<td>$4,985,272</td>
<td>$4,629,936</td>
<td>87.84</td>
<td>Awardee</td>
</tr>
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</table>

**Total Funding Recommended**

| | | | | |
|---|---|---|---|
| $22,000,000 | $22,000,000 | $28,283,220 |
| $26,985,272 | $26,985,272 | $32,913,156 |
Demonstrate Business Case for Advanced Microgrids in Support of California’s Energy and GHG Policies

Project Group 1 - Demonstration of Standardized High-DER Penetration, Renewable-Based, Resilient and Commercially Viable Microgrids Located at California Military Bases, Ports, and Native American Tribes within IOU Service Territories

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February 20, 2018

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<td>5</td>
<td>San Diego Unified Port District</td>
<td>Tenth Avenue Marine Terminal Renewable Microgrid Project</td>
<td>$4,985,272</td>
<td>$0</td>
<td>$4,629,936</td>
<td>87.84</td>
<td>Finalist</td>
</tr>
<tr>
<td>6</td>
<td>Electric Power Research Institute</td>
<td>Adaptive Microgrid (AM) with Energy Storage, Synchronous Condenser, and with AC and DC Outputs</td>
<td>$4,998,345</td>
<td>$0</td>
<td>$3,502,754</td>
<td>87.55</td>
<td>Finalist</td>
</tr>
<tr>
<td>7</td>
<td>Handbook Holdings, LLC</td>
<td>Chemehuevi Indian Reservation Microgrid</td>
<td>$4,992,359</td>
<td>$0</td>
<td>$8,401,154</td>
<td>87.25</td>
<td>Finalist</td>
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<tr>
<td>8</td>
<td>SIA Solutions 8(a) SDB, MBE, DBE</td>
<td>Edwards Air Force Base-West Wolfe Advanced Microgrid</td>
<td>$4,999,995</td>
<td>$0</td>
<td>$6,663,802</td>
<td>87.10</td>
<td>Finalist</td>
</tr>
<tr>
<td>9</td>
<td>TRC Engineers, Inc.</td>
<td>Beale Microgrid Resiliency Project (BMRP)</td>
<td>$4,999,986</td>
<td>$0</td>
<td>$6,206,412</td>
<td>82.90</td>
<td>Finalist</td>
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<tr>
<td>10</td>
<td>The Pechanga Band of Luiseno Indians</td>
<td>Tribal Energy Adoptive Microgrid System (TEAMS) – Pechanga Tribal Utility Microgrid</td>
<td>$5,000,000</td>
<td>$0</td>
<td>$1,050,000</td>
<td>79.45</td>
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<td>11</td>
<td>San Manuel Band of Mission Indians</td>
<td>High-Penetration Renewable Microgrids and DER for Community Service Infrastructure at the San Manuel Band of Mission Indians Reservation</td>
<td>$5,000,000</td>
<td>$0</td>
<td>$1,000,000</td>
<td>74.50</td>
<td>Finalist</td>
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<td>$34,975,957</td>
<td>$0</td>
<td>$31,454,058</td>
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<td></td>
<td></td>
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<td>$29,990,685</td>
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<tr>
<td></td>
<td>GRID Alternatives</td>
<td>The Renewable-Sourced Microgrid at San Pasqual Band of Mission Indians</td>
<td>$2,880,330</td>
<td>$0</td>
<td>$854,510</td>
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<td>Did Not Pass</td>
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<td></td>
<td>Consolidated Edison Solutions</td>
<td>Marine Corps Western Regional Energy Initiative (MCWREI)</td>
<td>$5,000,000</td>
<td>$0</td>
<td>$1,257,600</td>
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<td>Did Not Pass</td>
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<tr>
<td></td>
<td>Ameresco, Inc.</td>
<td>Fort Irwin National Training Center Advanced Microgrids Project</td>
<td>$4,940,062</td>
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<td>$4,442,565</td>
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<td>Did Not Pass</td>
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<td></td>
<td>Rincon Band of Luiseño Indians</td>
<td>Rincon Tribal Microgrid Demonstration Project</td>
<td>$4,995,000</td>
<td>$0</td>
<td>$1,300,000</td>
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<td>Did not pass</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
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<td><strong>$0</strong></td>
<td><strong>$7,854,675</strong></td>
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**California Energy Commission**

**GFO-17-302**

Demonstrate Business Case for Advanced Microgrids in Support of California’s Energy and GHG Policies

**Project Group 1** - Demonstration of Standardized High-DER Penetration, Renewable-Based, Resilient and Commercially Viable Microgrids Located at California Military Bases, Ports, and Native American Tribes within IOU Service Territories

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<td></td>
<td>TechFlow, Inc.</td>
<td>Demonstration of a Standardized, Scalable, High-DER Penetration, Renewable-Based, Resilient Microgrid Through the Application of TechFlow’s Secure G.R.I.D Solution at Naval Base San Diego</td>
<td>$2,982,181</td>
<td>$0</td>
<td>$308,891</td>
<td></td>
<td>Disqualified</td>
</tr>
</tbody>
</table>

| Total       | $2,982,181            | $0                          | $308,891                          |

| Grand Total | $77,773,530           | $26,985,272                 | $67,900,844                       |

Total: **$22,000,000**
## California Energy Commission

**GFO-17-302**

**Demonstrate Business Case for Advanced Microgrids in Support of California’s Energy and GHG Policies**

**Project Group 2** - Demonstration of Standardized High-DER Penetration, Renewable-Based, Resilient and Functional Microgrids located at California Disadvantaged Communities within IOU Service Territories

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<tr>
<td>1</td>
<td>Gridscape Solutions, Inc.</td>
<td>Commercializing Virtual Wide Area Urban Microgrids for Grid Resilience &amp; Disaster Readiness</td>
<td>$4,995,498</td>
<td>$4,995,498</td>
<td>$3,281,992</td>
<td>90.38</td>
<td>Awardee</td>
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<tr>
<td>2</td>
<td>Rialto Resilient Clean Power Microgrid</td>
<td>Rialto Resilient Clean Power Microgrid</td>
<td>$5,000,000</td>
<td>$5,000,000</td>
<td>$6,663,000</td>
<td>88.70</td>
<td>Awardee</td>
</tr>
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</table>

**Total Funding Recommended**

$9,995,498    $9,995,498    $9,944,992

| Passed but Not Funded                                                                                       |                                   |                                      |                                    |                       |             |       |              |
|---------------------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|------------------|-------|-------|              |
| 3        | Climatec, llc | Net-zero Energy Advanced Microgrid Demonstration Critical Infrastructure Project | $3,816,398                         | $0                          | $3,466,005          | 85.99 | Finalist     |
| 4        | CALSTART, llc | RTD Battery Electric Transit Bus – Multi-location Microgrid | $4,952,544                         | $0                          | $3,625,000          | 82.41 | Finalist     |
| 5        | The Regents of the University of California; University of California Los Angeles | Cooperative Microgrids Enabled Via Integrated Distributed Energy Resources as Applied to Disadvantaged Communities | $4,999,858                         | $0                          | $1,092,562          | 81.84 | Finalist     |

**Total**

$13,768,800    $0              $8,183,567
California Energy Commission  
GFO-17-302  
Demonstrate Business Case for Advanced Microgrids in Support of California’s Energy and GHG Policies  
Project Group 2 - Demonstration of Standardized High-DER Penetration, Renewable-Based, Resilient and Functional Microgrids located at California Disadvantaged Communities within IOU Service Territories

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<tr>
<td></td>
<td>All Power Labs, Inc</td>
<td>Carbon-Negative Energy for Disadvantaged Communities: The Business Case for a Biomass-Powered Microgrid</td>
<td>$3,211,219</td>
<td>$0</td>
<td>$4,505,319</td>
<td>Did Not Pass</td>
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<td></td>
<td>Edisun Microgrids</td>
<td>Empower California: A Cooperative Partnership Demonstration Project to Advance Clean Energy Microgrids in Rural Disadvantaged Communities</td>
<td>$4,792,744</td>
<td>$0</td>
<td>$2,369,990</td>
<td>Did Not Pass</td>
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<tr>
<td></td>
<td>Open Access Technology International</td>
<td>Community Microgrids for a Resilient Oakland Chinatown</td>
<td>$5,209,834</td>
<td>$0</td>
<td>$2,358,116</td>
<td>Did Not Pass</td>
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<tr>
<td></td>
<td>Biodico</td>
<td>Biodico Zero Net Energy Farm Microgrid(s)</td>
<td>$5,000,000</td>
<td>$0</td>
<td>$5,000,000</td>
<td>Did not pass</td>
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<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$18,213,797</strong></td>
<td><strong>$0</strong></td>
<td><strong>$14,233,425</strong></td>
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8 of 15
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<tr>
<td><strong>Disqualified</strong></td>
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<tr>
<td></td>
<td>USA Microgrids, Inc.</td>
<td>Demonstration of Microgrid Benefits for Disadvantage Communities: High Place, Santa Monica</td>
<td>$4,893,228</td>
<td>$0</td>
<td>$1,768,040</td>
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<td>Disqualified</td>
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<tr>
<td></td>
<td>C3 CA 23rd District Energy, LLC</td>
<td>Microgrid for Contra Costa County Fairground</td>
<td>$1,190,000</td>
<td>$0</td>
<td>$510,000</td>
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<tr>
<td><strong>Total</strong></td>
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<td></td>
<td>$6,083,228</td>
<td>$0</td>
<td>$2,278,040</td>
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<tr>
<td><strong>Grand Total</strong></td>
<td></td>
<td></td>
<td>$48,061,323</td>
<td>$9,995,498</td>
<td>$34,640,024</td>
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<td>1</td>
<td>Willdan Energy Solutions</td>
<td>San Jose Community Microgrid</td>
<td>$4,993,847</td>
<td>$4,993,847</td>
<td>$13,996,648</td>
<td>94.10</td>
<td>Awardee</td>
</tr>
<tr>
<td>2</td>
<td>Humboldt State University Sponsored Programs Foundation/Schatz Energy Research Center</td>
<td>ACV Airport Renewable Energy Microgrid: Demonstrating a Business Case</td>
<td>$5,000,000</td>
<td>$5,000,000</td>
<td>$6,322,728</td>
<td>93.25</td>
<td>Awardee</td>
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<tr>
<td>3</td>
<td>Sonoma County Junior College District/ Santa Rosa Junior College</td>
<td>Santa Rosa Junior College Urban Microgrid Project</td>
<td>$4,999,005</td>
<td>$4,999,005</td>
<td>$8,689,759</td>
<td>89.00</td>
<td>Awardee</td>
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| **Passed but Not Funded** | | | | | | | |
| 4 | InTech Energy, Inc. | Commercializing a Cost-Effective, Standardized, and Replicable Small-Scale Microgrid for Schools at the Ocean View School District in Oxnard, CA | $4,373,332 | $0 | $2,858,166 | 86.25 | Finalist |
| 5 | California State University - The California Maritime Academy Campus | Demonstrating a Modular and Commercially Viable Design for DER Rich Microgrids Enabling Sustainable and Resilient Communities | $4,999,845 | $0 | $1,482,939 | 84.58 | Finalist |
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<td>Prospect Silicon Valley</td>
<td>Whole Foods Market Distribution Center Microgrid Project</td>
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<td>City of Chowchilla</td>
<td>Transforming Disadvantaged Communities into Safe and Thriving Communities: The City of Chowchilla’s Microgrid Project</td>
<td>$4,951,654</td>
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<td>$3,975,948</td>
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<td>MOEV Inc.</td>
<td>Virtual Battery Energy Storage System (VBESS) Advanced Microgrid Technology Applied to Fleet Yards</td>
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<td>9</td>
<td>The Regents of the University of California (Santa Barbara campus)</td>
<td>Integrated Demand Side Management Commercial Microgrid with Enhanced Revenue Generation Capability</td>
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<td>$3,282,317</td>
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<td>10</td>
<td>The Regents of the University of California, Irvine</td>
<td>Microgrid Commercialization in California</td>
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<td>$1,766,474</td>
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<td>Cleantech San Diego Association</td>
<td>Carlsbad Emergency Services Advanced Microgrid (CESAM)</td>
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<td>$2,095,991</td>
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</table>
Demonstrate Business Case for Advanced Microgrids in Support of California’s Energy and GHG Policies

**Project Group 3** - Demonstration of Standardized High-DER Penetration, Renewable-Based, Resilient and Commercially Viable Microgrids in IOU Territories that are not Proposed Either Under Group 1 or Group 2 Projects and Where Microgrids Provide Clear and Definable Added Value to the Selected End User of IOU Customers

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February 20, 2018

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<tr>
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<td>12</td>
<td>Green Realities, llc</td>
<td>Solar Emergency Microgrids for Critical Facilities &amp; Emergency</td>
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<td>Regents of the University of California, Davis Campus</td>
<td>Demonstrating the Business Case for an Advanced Transportation and Parking Facilities Microgrid</td>
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<td>City of Hermosa Beach</td>
<td>Demonstrating Hermosa Beach’s “Adaptive Community-Renewable-Microgrid Immune System” as a Propagative Model for Vulnerable Disaster-Prone Dense Urban Areas</td>
<td>$4,838,873</td>
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<td>The Regents of the University of California, Berkeley Campus</td>
<td>EcoBlock Microgrids: Block-Level, Community Energy Systems that Scale to Neighborhoods and Cities</td>
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<td>$1,879,096</td>
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<td>16</td>
<td>TransPower</td>
<td>Taking Industrial Microgrids to the Next Level</td>
<td>$3,783,126</td>
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**Total** | **$56,889,144** | **$0** | **$24,944,835** |
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<td>Campbell Union High School District</td>
<td>Campbell Union High School District Microgrid Project</td>
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<td>Zero Net Energy Alliance</td>
<td>Lancaster Community Resiliency Network</td>
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<td>UCLA Santa Monica Hospital</td>
<td>Clean-Commute Transit Hub Microgrid</td>
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<td>Lawrence Livermore National Security, LLC</td>
<td>Emergency Management and Mission Assurance with DER-based Microgrid at LLNL</td>
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<td>Los Angeles Unified School District</td>
<td>South East High School Advanced Microgrid Project</td>
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<td>CSULB Research Foundation</td>
<td>Autonomous Management and Coordination of Microgrids for Seamless Integration of Distributed Energy Resources in Academic Facilities</td>
<td>$4,992,072</td>
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<td>California College of the Arts</td>
<td>California College of the Arts Microgrid</td>
<td>$3,253,151</td>
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<td>$1,063,557</td>
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**California Energy Commission**  
**GFO-17-302**  
**Demonstrate Business Case for Advanced Microgrids in Support of California’s Energy and GHG Policies**  

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<td>Sonoma School District</td>
<td>Microgrid for Sonoma Schools District</td>
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<td>Ocean Breeze International</td>
<td>Greenhouse Microgrid for Sustainable Agriculture</td>
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<td>Global Energy Interconnection Research Institute North America (GEIRINA)</td>
<td>Provisional Hybrid Integrated Microgrid (Phi-Microgrid) for High-tech Complex</td>
<td>$3,745,358</td>
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<td>Universal Devices, Inc.</td>
<td>ADAM: AI Assisted, Decentralized, and Automated Microgrid</td>
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<td>University of Southern California</td>
<td>USC Wrigley Institute Energy Independence Initiative</td>
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<td>Searles Valley Minerals</td>
<td>Solar Photovoltaic With Battery Storage Microgrid – Phase I of a Quad-Gen System</td>
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<td></td>
<td>GCL New Energy Inc</td>
<td>Microgrid for Car Dealership in California</td>
<td>$790,000</td>
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<td>Microgrids, Inc.</td>
<td>RNode in Bodega Bay</td>
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<td>EDF Renewable Energy</td>
<td>Innovation Drive Microgrid</td>
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<td>City of Chula Vista</td>
<td>Smart Connected, Ongoing, Resilient, Efficient (SCORE) Emergency Hub at Civic Center</td>
<td>$4,326,600</td>
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<td>$909,839</td>
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<td><strong>$14,992,852</strong></td>
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