Title: Advanced Plug Load and Smart Exterior Lighting Systems
Presenter: Felix Villanueva, Utility Engineer
Date: August 5, 2020
Housekeeping

• Muting on Zoom
• Zoom recording
• Questions
• Updates on solicitation documents including this presentation will be posted at the Grant Funding Opportunity’s webpage:
<table>
<thead>
<tr>
<th>Time</th>
<th>Item</th>
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</thead>
<tbody>
<tr>
<td>10:00 am</td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td>10:05 am</td>
<td>Solicitation Background</td>
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<tr>
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<td>• EPIC Research Program</td>
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<td>• Purpose of Solicitation</td>
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<td>• Available Funding</td>
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<tr>
<td>10:25 am</td>
<td>Application Requirements</td>
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<td>• Project Group Requirements</td>
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<td>• Attachments</td>
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<td>• Submission Process</td>
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<tr>
<td>11:00 am</td>
<td>Q&amp;As</td>
</tr>
<tr>
<td>12:00 pm</td>
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</tbody>
</table>
Commitment to Diversity

• The Energy Commission adopted a resolution strengthening its commitment to diversity in our funding programs. The Energy Commission continues to encourage disadvantaged and underrepresented businesses and communities to engage in and benefit from our many programs.

• To meet this commitment, Energy Commission staff conducts outreach efforts and activities to:
  • Engage with disadvantaged and underrepresented groups throughout the state.
  • Notify potential new applicants about the Energy Commission’s funding opportunities.
  • Assist applicants in understanding how to apply for funding from the Energy Commission’s programs.
  • Survey participants to measure progress in diversity outreach efforts.
Connect With Us
Find Partners on EmpowerInnovation.net

Empower Innovation strives to accelerate your clean tech journey with easy access to funding opportunities from the Energy Commission and other funding providers, curated resources and events, and connections to people and organizations.

**FIND A PARTNER**
Announce your interest in a funding opportunity and message other potential project partners.

**RESOURCES & TOOLS**
Browse the collection of resources including Resource Libraries, Funding Sources, Tools, and Databases.

To connect with others for this GFO please go to this link: https://www.empowerinnovation.net/en/custom/funding/view/14103
Please direct questions for the Empower Innovation platform to:

https://www.empowerinnovation.net/en/contact_us
Research Program Background

• The Electric Program Investment Charge (EPIC) Program is an electricity ratepayer surcharge established by the California Public Utilities Commission (CPUC) in December 2011

• The purpose of the EPIC program is to benefit the ratepayers of the three investor-owned utilities (IOUs)*

• The EPIC program funds clean energy technology projects that promote greater electricity reliability, lower costs, and increased safety
  o Applied research and development (ARD)
  o Technology demonstration and deployment (TDD)
  o Market facilitation (MF)
Policy Drivers

- **SB 32**: reduction of GHG emission to 40 percent below 1990 levels by 2030
- **SB 350**: California’s Renewable Portfolio Standard and Energy Efficiency for End-Use Customers
- **AB523**: Allocate 25 percent of EPIC TD&D funding for projects located in and benefiting disadvantaged communities
- **Load Management Standards**: encourages demand flexibility of the energy system – minimizing cost, improving reliability and promoting renewable energy resources.
Issues Associated with Plug Loads and Exterior Lighting

• Plug Loads
  o 40% of California residential electricity consumption and 27% of California commercial electricity consumption in 2018 due to plug loads.
  o Total energy use for plug loads is expected to increase in the future.
  o Many of these devices have no power management capabilities and are left on 24/7.

• Exterior Lighting
  o 22% of all electricity used is for exterior lighting in California which includes streetlights, parking lot lights, security lights, walkway lights, wall packs and other exterior commercial applications.
  o Poor exterior lighting is one of the main concerns among residents of low-income communities
  o Lights are on when the electric grid is not supported by renewable energy at night
Purpose of Solicitation

• The purpose of this solicitation is to fund applied research and technology demonstration projects to advance innovative technologies for controlling plug loads and exterior lighting energy use.
  o **Plug loads:** reduce electricity use of active and standby modes for residential and commercial plug load devices, provide information that may inform future updates to codes and standards, and reduce commercial plug load electricity use with advanced controls integrated with building energy management systems (BEMS)
  o **Exterior lighting:** reduce exterior lighting electricity consumption through use of hybrid solid-state lighting, and improve fixture efficiency and form factor, and controls to maximize use of carbon-free electricity.
## Available Funding

<table>
<thead>
<tr>
<th>Project Group</th>
<th>Available Funding</th>
<th>Minimum Award Amount</th>
<th>Maximum Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 1: Analyze and Test Total Energy Consumption of Plug Load Devices to Support Codes and Standards for Non-covered Products</td>
<td>$1,000,000</td>
<td>$500,000</td>
<td>$1,000,000</td>
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<tr>
<td>Group 2: Demonstrate the Integration of Smart Plug Load Controls and Building Energy Management Systems in Commercial Buildings</td>
<td>$2,000,000</td>
<td>$1,000,000</td>
<td>$2,000,000</td>
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<tr>
<td>Group 3: Develop and Demonstrate Smart Exterior Solid-State Lighting in Low-Income or Disadvantaged Communities</td>
<td>$6,500,000</td>
<td>$3,250,000</td>
<td>$6,500,000</td>
</tr>
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</table>
Match Funding – Group 1

• Match funding is optional.
• Applications that include match funding will receive additional points during the scoring phase.
• Match funding contributors must submit match funding commitment letters that meet the requirements of Attachment 10. Failure to do so will disqualify the match funding commitment from consideration.
• Refer to Section I.K. in the Solicitation Manual for more details on match funding.
Match Funding – Groups 2 and 3

• A minimum of 20% match funding is required.
• Applicants that provide more than 20% match funding may receive additional points during the scoring phase.
• Match funding contributors must submit match funding commitment letters that meet the requirements of Attachment 10. Failure to do so may disqualify the match funding commitment from consideration.
• Refer to Section I.K. in the Solicitation Manual for more details on match funding.
Group 1: Analyze and Test Total Energy Consumption of Plug Load Devices to Support Codes and Standards for Non-covered Products

Funding Amount: $1,000,000 (Applied Research and Development)

Purpose:
- Analyze devices not currently covered by California or US Standards
- Determine their total energy consumption that includes standby and active modes
- Identify those with the most potential for cost-effective energy savings
- Develops and test improvements to reduce electricity consumption.
Group 1- Requirements

• Include at least 2 groups of commercial devices and 1 group of residential devices with a total of 3 groups as indicated in Section I.C.

• Commercial Equipment:
  o Group 1c: Office equipment such as printers, multi-function devices, and fax machines,
  o Group 2c: Networking equipment such as modems, integrated access devices, and local network equipment,
  o Group 3c: Commercial lab equipment such as fume hoods, autoclaves, incubators, centrifuges;
  o Group 4c: Commercial computers

• Residential Equipment:
  o Group 1r: Networking equipment such as routers and modems
  o Group 2r: Office Equipment such as printers and multifunctional devices

• Each group must test a minimum of 5 devices
• Test a minimum of 15 different devices (5 devices per group).
• Other devices and groups of plug loads may be considered with justification as to why that group of products have high potential to be adopted through codes and standards.
Group 1- Project Narrative

Include the following in the Project Narrative (Attachment 3)

Project Approach

• Discuss why new standards or improvements to existing standards are needed, the benefits to be gained and interest of manufacturers and the plug load industry.

• Explain the approach used to develop total power consumption for device modes and the reasons for targeting specific plug load equipment.

• Explain how this analysis will be used to inform future codes and standards, including what data will be collected and how, what will be tested, amount of energy and cost savings, potential for load flexible controls for cost or carbon savings, how cost effectiveness will be determined, market size, barriers and challenges, including implementation cost, and timeframe for codes and standards implementation.

• Identify and discuss the approximate product shipment (number of units sold annually) and product stock (total number of existing units in use) for the devices that are being proposed to justify the potential for a test method.

• Please see Section I.C. and Attachment 3 for Group 1 for additional required responses for the Project Narrative
Group 2: Demonstrate the Integration of Smart Plug Load Controls and Building Energy Management Systems in Commercial Buildings

Funding Amount: $2,000,000 (Technology Demonstration and Deployment)

Purpose:

• Reduce plug load energy use in a commercial buildings by at least 20% by integrating advanced smart plug load controls with an existing BEMS
• Verify data flows between smart plug load controls and BEMS platform
• Identify additional enhancements needed to facilitate control and coordination with other building energy end-uses to reduce cost of implementation
• Increase functionality, including demand flexibility and load management
• Research results in increase market uptake and technology deployment beyond just the demonstration site
Group 2- Requirements

• Demonstration Location:
  o Large commercial buildings with at least 100,000 square feet
  o Multiple buildings that total 100,000 square feet is acceptable if connected to a single BEMS
  o Examples: Big-box retail, grocery stores, lodging, warehouses, health care, education buildings (i.e., schools and colleges), and offices
  o All pilot sites must be in electric IOU service territory

• Equipment:
  o Must have an existing BEMS that controls HVAC equipment, at a minimum, and must be able to add additional control points to accommodate plug load devices.
  o Start at TRL 6-7 and be at TRL 8-9 at the end of project
  o Conduct Site Survey of all plug loads onsite and identify which devices to control
  o Control a minimum of 50 plug load devices

• Goals:
  o At least 20% reduction in plug load energy use compared to existing use without controls.
  o Simple Payback of 7 years or less based on energy savings
Group 2- Project Narrative

Include the following in the Project Narrative (Attachment 3)

Project Approach

- Discuss the current standard system (e.g., BEMS controlling HVAC and lighting but no plug load controls) that the demonstrated technology will be interconnected to and how it will be operated to meet the research goal in Table 2 (Section I.C. in the manual). Estimate and discuss how installation and operation costs will be reduced compared to unitary controls.

- Discuss how building cybersecurity issues will be resolved.

- Identify at least one equipment manufacturer and one building owner who may have interest in demonstrating and deploying the technology if the research goals are met.

- Complete Table 3 (Section I.C.) to compare baseline and retrofitted controls

- Please see section I.C. and Attachment 3 Group 2 for a complete list of required responses for the Project Narrative.
### Table 3 Comparison of Baseline Versus Integrated Controls for Group 2 Demonstration Site

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Baseline</th>
<th>Target (Smart Plugs +Existing BEMS)</th>
<th>Evaluation Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital Equipment Cost (only Smart Plugs and additional points needed to expand BEMS for smart plugs)</td>
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<td></td>
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</tr>
<tr>
<td>Installation Cost</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimated Building Energy Use (kWh/yr.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other benefits, specify (e.g., load control (kW reduction), remote control, no cybersecurity issues)</td>
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</tr>
</tbody>
</table>
Group 3: Develop and Demonstrate Smart Exterior Solid-State Lighting in Low-Income or Disadvantaged Communities

**Funding Amount:** $6,500,000 (Applied Research and Development & Technology Demonstration and Deployment)

**Purpose:**

- Reduce energy consumption of exterior lighting by a minimum of 20%
- Provide strategies to maximize use of low carbon electricity (renewable energy)
- Address light quality and security
- Reduce glare reduction to enhance visibility for drivers and pedestrians
- Projects must be in the Applied Research and Development stage with TRL 6-7
- Goal is to move the TRL to 8-9 by the end of the research and to increase market uptake and technology deployment beyond just the demonstration sites
Group 3- Requirements

• **Performance:**
  o 20 percent reduction in energy use compared to the baseline lighting system
  o Grid flexible capabilities
  o At a minimum must meet IES performance and quality recommendations

• **Location and Sample Size:**
  o A minimum of 4 disadvantaged or low-income community.
  o Must at least submit 1 support letter for each demonstration site. Support letters from technology partners, Community Based Organizations, environmental justice organizations, or other partners.
  o A minimum of 10 luminaires per disadvantaged or low-income community.

• **Market and Cost Reduction:**
  o Minimize electricity cost and provide energy benefits to the electric grid and non-energy benefits to the community.
  o Collaborate with industry partners, manufacturers, communities, and governments agencies.
  o Identify and implement manufacturing and installation cost reductions needed to increase penetration in communities.
Group 3- Project Narrative

Include the following in the Project Narrative (Attachment 3)

Project Approach

• Discuss how the project will meet or exceed the research goals in Table 4 (section I.C., page 17 of the manual)

• Discuss the approach for ensuring that the hybrid luminaire meets the requirements in Table 4 and the requirements of the low income or the disadvantage community demonstration sites.

• Discuss how the hybrid luminaire can provide grid flexibility to maximize use of renewable energy.

• Estimate and discuss how the increase in the hybrid luminaire cost is offset by reduced energy consumption and operating cost without compromising performance, longevity and light quality.

• Include a market deployment plan indicating how this technology could be broadly deployed into the marketplace and to other communities.

• Refer to section I.C. and Attachment 3 Group 3 for a complete list of requirements.
### Technology

**Smart Exterior Solid-State Hybrid Luminaire**

- Varies between 40 watts and 250 watts per fixture depending on non-LED lighting type
- Operates 10 to 12 hours /day with no dimming potential
- Below IES recommendations
- Mercury Vapor, High Pressure Sodium, Metal Halide, Incandescent and Fluorescent lamps

### Baseline

- 20 percent reduction in energy use compared to the baseline
- Grid flexible capabilities to maximize use of low/no carbon electricity sources with potential for dimming during low use times
- At a minimum, luminaires must meet IES performance and quality recommendations.
- Luminaires, including lamps, drivers, diodes, batteries, solar panel and all other components must be of the highest quality available on the market.

### Research Goals
Eligible Applicants

• This is an open solicitation for public and private entities.
• Applicants must accept the EPIC terms and conditions.
  o Standard, UC, and DOE T&Cs available online: https://www.energy.ca.gov/funding-opportunities/funding-resources
• Applicants are required to register with the California Secretary of State and be in good standing to enter into an agreement with the Energy Commission:
  http://www.sos.ca.gov
## Application Requirements

<table>
<thead>
<tr>
<th>Each Applicant must complete and include the following:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Application Form (.pdf)</td>
<td>7. Budget (.xlsx)</td>
</tr>
<tr>
<td>2. Executive Summary (.docx)</td>
<td>8. CEQA Compliance Form (.docx)</td>
</tr>
<tr>
<td>3. Project Narrative (.docx) <strong>(Specific for each group)</strong></td>
<td>9. References and Work Product Form (.docx, .pdf)</td>
</tr>
<tr>
<td>4. Project Team (.docx, .pdf)</td>
<td>10. Commitment and Support Letters (.pdf)</td>
</tr>
<tr>
<td>5. Scope of Work (.docx)</td>
<td>12. Applicant Declaration (.docx)</td>
</tr>
<tr>
<td>6. Project Schedule (.xlsx)</td>
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</tbody>
</table>

* Note: Contact List Attachment is no longer needed
This is your opportunity to explain the entirety of the project.

• The narrative should explain:
  o Why is your project necessary and important to California?
  o What is your project approach and how will each major task be implemented?
  o How will the project be completed in the term proposed
  o How will the project outcomes benefit electric ratepayers?
  o Address the requirements for your group as described in Section I.C. Some of these requirements were discussed previously.

• Respond to the scoring criteria described in Section IV.F.
Scope of Work (Attachment 5)

• Tell us exactly what you are proposing to do in your project.
• Identify what will be delivered to the Energy Commission.
• Be sure to include in the technical tasks:
  o At least one product deliverable per task.
  o Address requirements in Section I.C. under Project Focus.
• Be sure to include in the Project Schedule (Attachment 6):
  o Product deliverables that correspond with the Scope of Work.
  o Realistic dates on when product deliverables can be completed.
• Please read new Subtask 1.12 Project Performance Metrics and Technology Transfer Task
Budget (Attachment 7)

- Identify how the Energy Commission funds and match funds will be spent to complete the project.
- Subcontractors receiving $100,000 or more Energy Commission funds must complete a separate budget workbook.
- Ensure that all rates provided are **maximum** rates for the entire project term.
- Travel Restrictions:
  - CEC funds should be limited to lodging and any form of transportation (e.g., airfare, rental car, public transit, parking, mileage).
  - If an applicant plans to travel to conferences, including registration fees, they must use match funds.
• Follow guidelines provided for commitment and support letters.
  o Commitment letters are required for entities or individuals that are committing match funding, testing/demonstration sites, including the Prime.
  o Support letters describe a project stakeholder’s interest or involvement in the project.

• If providing matching funding for Group 1, applicants must submit a letter. Group 2 and 3 applicants must submit match funding letters with a total dollar amount of at least 20% of the requested project funds.

• All applicants must submit at least one support letter. Group 3 must submit support letters from Community Based Organizations, environmental justice organizations, or other partners.

• Applicants with a test/demonstration site must submit commitment letters.

• Match funding must be supported by a match fund commitment letter.

• Any project partners that will make contributions to the project (other than match and sites) must submit a commitment letter.

• Limit to two pages per letter, excluding the cover page.
Project Performance Metrics (Attachment 11)

- Identify and communicate metric targets at the beginning stage of the agreement
- Provide constructive targets for performance of the technology or project and how the metric will be measured
- A short description of the metric
- Performance Metrics:
  - Benchmark – Current industry standard or status (If applicable)
  - Current – Performance demonstrated to date (If applicable)
  - Low Target – Low goal for successful results
  - High Target – High goal for successful results
How will my Application be Evaluated?

Application Screening

Admin Screening Process
1. Energy Commission staff screens applications per criteria in Section IV.E.
2. Criteria are evaluated on a pass/fail basis.
3. Applicants must pass all screening criteria, or the application will be disqualified.
4. For Group 3 only, all demonstration sites must be located in a disadvantaged or low-income community.

Some Reasons for Disqualification
- Application is not submitted by the specified due date and time.
- Application does not include one or more support letters.
- Application contains confidential material.
How will my Application be Evaluated?

Group 1 Application Scoring

- Evaluation Committee applies the scoring scale to the scoring criteria.
- Applications must pass project team past performance.
- Evaluation Committee applies the scoring scale to the scoring criteria.
- Applications must obtain a minimum passing score of 52.50 points for Criteria 1-4 in order to continue evaluation.
- Applications must obtain a minimum passing score of 70 points for Criteria 1-7 in order to be considered for funding.
- Review Section IV of the manual and ensure the application provides a clear and complete response to each scoring criteria.

<table>
<thead>
<tr>
<th>Scoring Criteria</th>
<th>Maximum Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Team Past Performance</td>
<td>Pass/Fail</td>
</tr>
<tr>
<td>1. Technical Merit and Need</td>
<td>15</td>
</tr>
<tr>
<td>2. Technical Approach</td>
<td>25</td>
</tr>
<tr>
<td>3. Impacts and Benefits for CA IOU Ratepayers</td>
<td>20</td>
</tr>
<tr>
<td>4. Team Qualifications</td>
<td>15</td>
</tr>
<tr>
<td>5. Budget and Cost-Effectiveness</td>
<td>10</td>
</tr>
<tr>
<td>6. Funds Spent in CA</td>
<td>10</td>
</tr>
<tr>
<td>7. Ratio of Direct Labor Costs to Loaded Labor Costs</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
</tr>
<tr>
<td><strong>Minimum Points to Pass</strong></td>
<td><strong>70</strong></td>
</tr>
</tbody>
</table>
How will my Application be Evaluated?
Group 1 Application Scoring

- Passing applications (score of 70 or more from Criteria 1-7) will be considered for bonus points. Criteria for bonus points include:
  - Match Funding

<table>
<thead>
<tr>
<th>Scoring Criteria</th>
<th>Maximum Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. Match</td>
<td>10</td>
</tr>
<tr>
<td>Total Bonus Points</td>
<td>10</td>
</tr>
</tbody>
</table>
How will my Application be Evaluated?
Group 2 Application Scoring

- Evaluation Committee applies the scoring scale to the scoring criteria.
- Applications must pass project team past performance.
- Applications must obtain a minimum passing score of 52.0 points for Criteria 1-4 in order to continue evaluation.
- Applications must obtain a minimum passing score of 70 points for Criteria 1-7 in order to be considered for funding.
- Review Section IV of the manual and ensure the application provides a clear and complete response to each scoring criteria.

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<tr>
<td><strong>Minimum Points to Pass</strong></td>
<td><strong>70</strong></td>
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</tbody>
</table>
How will my Application be Evaluated?

Group 2 Application Scoring

- Passing applications (score of 70 or more from Criteria 1-7) will be considered for bonus points. Criteria for bonus points include:
  - Match Funding
  - Disadvantaged Communities

<table>
<thead>
<tr>
<th>Scoring Criteria</th>
<th>Maximum Points</th>
</tr>
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<tbody>
<tr>
<td>8. Match</td>
<td>10</td>
</tr>
<tr>
<td>9. Disadvantaged or Low-income Communities</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Bonus Points 15
How will my Application be Evaluated? 
Group 3 Application Scoring

• Evaluation Committee applies the scoring scale to the scoring criteria.
• Applications must pass project team past performance.
• Applications must obtain a minimum passing score of 52.50 points for Criteria 1-4 in order to continue evaluation.
• Applications must obtain a minimum passing score of 70 points for Criteria 1-7 in order to be considered for funding.
• Review Section IV of the manual and ensure the application provides a clear and complete response to each scoring criteria.

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<tr>
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<td><strong>100</strong></td>
</tr>
<tr>
<td><strong>Minimum Points to Pass</strong></td>
<td><strong>70</strong></td>
</tr>
</tbody>
</table>
How will my Application be Evaluated?

Group 3 Application Scoring

• Applications must obtain both a minimum passing score of 35 points for criteria 8, and an overall total of 105 points for Criteria 1-8 in order to be considered for funding.

• Passing applications (score of 105 or more from Criteria 1-8) will be considered for bonus points. Criteria for bonus points include:
  • Match Funding

<table>
<thead>
<tr>
<th>Scoring Criteria</th>
<th>Maximum Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. Benefits to Disadvantaged/Low-Income Communities and Localized Health Impacts</td>
<td>50</td>
</tr>
<tr>
<td>Minimum Points to Pass</td>
<td>35</td>
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<table>
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<tr>
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<th>Maximum Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>9. Match</td>
<td>10</td>
</tr>
</tbody>
</table>

Total Bonus Points 10
New Criteria for Evaluating TD&D Projects: Assessing Benefits to Disadvantaged/Low-Income Communities

AB 523 requires the CEC to:

• Allocate 25 percent of EPIC TD&D funding for projects located in and benefiting disadvantaged communities

• Allocate an additional 10 percent of funding for projects located in, and benefiting low-income communities

• Take into account adverse localized health impacts of proposed projects to the greatest extent possible
### Evaluating TD&D Projects

<table>
<thead>
<tr>
<th>Proposed Scoring Criteria</th>
<th>Maximum Points</th>
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<tbody>
<tr>
<td>8. Benefits to Disadvantaged/Low-Income Communities and Localized Health Impacts</td>
<td></td>
</tr>
<tr>
<td>8.1 Benefits to Disadvantaged/Low-Income Communities</td>
<td>15</td>
</tr>
<tr>
<td>8.2 Community Engagement Efforts</td>
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<tr>
<td>8.3 Localized Health Impacts</td>
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<tr>
<td>8.4 Technology Replicability</td>
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<tr>
<td>8.5 Project Support Letters</td>
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</tr>
<tr>
<td>Total Possible Points for criteria 8 (Minimum Passing Score for criteria 8 is 70% or 35.00)</td>
<td>50</td>
</tr>
</tbody>
</table>
Scoring Weights and Minimum Passing Requirements

Pass Criteria 1 – 7
Minimum 70 out of 100 (70%)

AND

Pass Criteria 8
Minimum 35 out of 50 (70%)

Final Score
160 Maximum Points
Community Based Organization Requirements

- Has an office in the region and meets the demographic profile of the communities they serve.
- Has deployed projects and/or outreach efforts within the region.
- Have official mission and vision statements that expressly identifies serving DAC or LI communities.
- Employs staff specialized in and dedicated to – diversity, equity, inclusion, or is a 501(c)(3) non-profit.
Identifying Disadvantaged Communities

CalEnviroScreen 3.0 tool, developed by the California Environmental Protection Agency, will be used to identify disadvantaged communities.

Energy Commission staff proposes to use the existing low-income mapping tool developed by ARB to determine AB 523 low-income communities

https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/communityinvestments.htm
• Applicants may receive up to 10 additional preference points based on the criteria below:
  ○ Up to 5 points will be awarded based on the ratio of proposed Cash contributions divided by CEC grant amount requested using the Match Scoring Table in the Scoring Criteria.
  ○ The remaining 5 points may be awarded to applications that exceed the minimum match requirements up to 100 percent using the Exceeds Minimum Match Scoring table.
  ○ Group 2 and 3 projects will be considered for additional points if providing over the required 20% of match funds.
  ○ Refer to Section IV.F in the Solicitation Manual for more details on the match funding scoring criteria.
GFO Submission Requirements (Electronic)

• Preferred method of Delivery is the Energy Commission Grant Solicitation System, available at: https://gss.energy.ca.gov/

• Electronic files must be in Microsoft Office Word (.doc, .docx) and Excel (.xls, .xlsx) formats, unless originally provided in solicitation in another format.

• First-time users must register as a new user to access system.

• Electronic files submitted via e-mail will not be accepted.
• In order to be consistent with orders and recommendations from state and local officials to encourage physical distancing to slow the spread of COVID-19, in-person delivery of applications will not be allowed.

• Delivery: Due to COVID-19, application hard copies will only be accepted via U.S. Mail, Federal Express (FedEx), or United Parcel Service (UPS).

• Submit Applications with all attachments in the order specified by the due date and time listed in Section III of the manual.

• Application documents should meet formatting requirements, page limits, and number of copies specified.

• Provide one hard copy and one electronic copy (CD-ROM or USB stick) containing electronic files of the application.

• There is no need to submit a hard copy of an application that is submitted through the Grant Solicitation System as it will only cause confusion.
Signature Requirements

• The CEC waived the requirement for a signature on application materials for this solicitation for submissions. A notice, regarding CEC’s waiver of the signature requirement appears here: https://www.energy.ca.gov/funding-opportunities/solicitations

• The waiver applies to Attachments 1, 10 and 12. However, all these attachments must be completed, where indicated, and included with your application. If you are an awardee, the CEC will require wet or electronic signatures for these attachments within 30 days after posting of the Notice of Proposed Award.
Next Steps After Grant Award

- **Notice of Proposed Award:** Shows total proposed funding amounts, rank order of applicants by project group, and the amount of each proposed award.

- **Agreement Development:** Proposal documents will be processed into a legal agreement.

- **Failure to Execute:** The Energy Commission reserves the right to cancel the pending award if an agreement cannot be successfully executed with an applicant. (See Section IV.B)

- **Project Start:** Recipients may begin work on the project only after the agreement is fully executed (approved at an Energy Commission business meeting and signed by the Recipient and the Energy Commission).
## Key Dates

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solicitation Release</td>
<td>7/28/2020</td>
</tr>
<tr>
<td>Pre-Application Workshop</td>
<td>8/5/2020 at 10 a.m</td>
</tr>
<tr>
<td><strong>Deadline for Written Questions</strong></td>
<td><strong>8/10/2020 at 5:00 pm</strong></td>
</tr>
<tr>
<td>Anticipated Distribution of Questions and Answers</td>
<td>Week of 8/24/2020</td>
</tr>
<tr>
<td><strong>Deadline to Submit Applications</strong></td>
<td><strong>10/5/2020 at 5:00 pm</strong></td>
</tr>
<tr>
<td>Anticipated Notice of Proposed Award Posting</td>
<td>11/2/2020</td>
</tr>
<tr>
<td>Anticipated Energy Commission Business Meeting</td>
<td>1/13/2021</td>
</tr>
<tr>
<td>Anticipated Agreement Start Date</td>
<td>2/1/2021</td>
</tr>
<tr>
<td>Anticipated Agreement End Date</td>
<td>3/31/2025</td>
</tr>
</tbody>
</table>
Additional Questions

Please send all questions related to GFO-20-303 to:

Phil Dyer
Commission Agreement Officer
1516 Ninth Street, MS-18
Sacramento, CA 95814
Phil.Dyer@energy.ca.gov

Deadline to submit questions:
Monday, 8/10/2020 5:00 PM
Questions and Answers

• Please use the raise hand function in Zoom if you’d like to ask your question
  o Zoom Phone controls:
    ▪ *9 - Raise hand.
    ▪ *6 - Toggle mute/unmute.
• You may also use the Q&A function in Zoom to type your question
• We will answer verbal questions first, then will respond to questions in the Q&A chat
• Please introduce yourself by stating your name and affiliation.
• Keep questions under 3 minutes to allow time for others.
• Note that our official response will be given in writing and posted on the GFO webpage in about two weeks.
• Send written questions to phil.dyer@energy.ca.gov by no later than August 10, 2020 5 p.m. PST.