STATE OF CALIFORNIA
EPIC TRIENNIAL INVESTMENT PLAN 2015-17
Proposed Energy Research Initiative
Questionnaire

CALIFORNIA ENERGY COMMISSION

(This is a Request for Information only - Complete Pages 1 and 2 for each initiative)

Title of Proposed Initiative Scaling up Advanced Technology Deployment and Market Facilitation through the Regional Cooperative Procurement Solutions

Investment Areas (Check one or more) – *For definitions, see First Triennial Investment Plan, page 12*:

☐ Applied Research and Development
☒ Technology Demonstration and Deployment
☒ Market Facilitation

Electricity System Value Chain (**Check only one**): *See CPUC Decision 12-05-037, Ordering Paragraph 12.a. http://docs.cpuc.ca.gov/PublishedDocs/WORD_PDF/FINAL_DECISION/167664.PDF.*

☐ Grid operations/market design
☐ Generation
☐ Transmission
☐ Distribution
☒ Demand-side management

Issues and Barriers:

Describe the issues and barriers that are impeding full market adoption of the proposed clean energy technology or strategy (such as cost, integration, or lack of information).

1. *Access to expertise familiar with advance technologies to identify and evaluate the costs and benefits for specific applications*
2. *Cost barrier associated with advance technologies*
3. *Procurement barriers to specifying and implementing advanced technologies*
4. *Lack of staff to facilitate implementation of energy efficiency projects*
5. *Lack of financial analysis to help evaluate the life cycle benefits of advanced technologies*
6. *Lack of available funding opportunities*

Initiative Description and Purpose:

How will this technology or strategy help address the issue/issues? Describe knowledge to be advanced to overcome critical barriers. Include the recommended funding level (minimum and maximum) for each project under this initiative.

1. *The program brings together 1) third part objective energy engineering expertise familiar with the proper application, evaluation and commissioning of advanced technologies; and 2) quality contractors with demonstrated energy efficiency retrofit experience. This assures successful identification and execution of EE projects that incorporates advance technologies.*
2. *Regional program would identify and implement deep retrofits comprised of a portfolio of measures including advanced technologies that combine short-payback and long-payback measure on a facility or multi-facility basis to maximize energy savings and help overcome the first cost barrier associated with some advanced technologies.*
3. *Funding could help expand reach to areas in California not currently served by The Southern California Regional Energy Network.*

Stakeholders:

Identify the stakeholders who support the initiative.

- *CPUC has supported the initiative through the authorization of funding for the SoCalREN*
- *Over 30 public agencies are engaged and leveraging these services through the SoCalREN*
- *Los Angeles County as the program administrator for the SoCalREN*
- *SCE and SoCal Gas have supported coordination efforts through their incentive programs and Local Government Partnerships*
- *National Joint Powers Alliance (NJPA) who partnered with us to do one completive bid process to award contracts throughout 12 counties*
- *14 quality lighting and mechanical contractors ready to provide on call retrofit services through the NJPA*
- *19 premium energy consulting firms that have been trained on this program*

Background and the State-of-the-Art:

- What research development and demonstration has been done or is currently being done to advance this technology or strategy (cite past research as applicable)?
- Describe any public and/or private successes and failures the technology or strategy has encountered in its path through the energy innovation pipeline: lab-scale testing, pilot-scale testing, pre-commercial demonstration, commercial scale deployment, market research, workforce development.
- Identify other related programs and initiatives that deal with the proposed technology or strategy, such as state and federal programs or funding initiatives (DOE, ARPA-E, etc.).

Justification:

Describe how this technology or strategy will provide California IOU electric ratepayer benefits and provide any estimates of quantified annual savings/benefits in California, including:

Ratepayer Benefits (Check one or more)**:**

☒ Promote greater reliability

☒ Potential energy and cost savings

☐ Increased safety

☒ Societal benefits

☒ Environmental benefits – Lower air emissions from reduced energy use

☒ GHG emissions mitigation/adaptation in the electricity sector at the lowest possible cost

☐ Low emission vehicles/transportation

☐ Waste reduction

☒ Economic development

Describe specific benefits (qualitative and quantitative) of the proposed initiative

Public Utilities Code Sections 740.1 and 8360:

Please describe how this technology or strategy addresses the principles articulated in California Public Utilities Code Sections 740.1 and 8360. The California Public Utilities Code is available online at www.leginfo.ca.gov/cgi-bin/calawquery?codesection=puc.