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California
Energy Commission

Summarizing Distributed Energy Resources (DER) Research Roadmap

Public Workshop

Energy Research and Development Division

May 29, 2020
10:00 a.m.

Agenda

Time	Item
10:00 a.m.	**Welcome and Introduction** • Housekeeping • Commitment to Diversity • Project Background
10:15 a.m.	**Project Description/Purpose**
10:30 a.m.	**Project Approach**
10:45 a.m.	**Project Research Needs** • Load-Modifying Technology • DER Communications and Controls • DER Planning and Strategy
11:50 a.m.	**Wrap-up**
12:00 p.m.	**Adjourn**

WELCOME AND INTRODUCTION

Housekeeping

- This workshop is being recorded.
- Comments/Questions
  - Remote participants are muted; please type in your question to the host.
  - Staff will not be strictly timing comments. However, it will be considered if there is a number of people waiting in the queue.
- The CEC encourages use of its electronic commenting system by visiting: https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-MISC-01

Commitment to Diversity

The Energy Commission adopted a formal resolution strengthening its commitment to diversity in our funding programs. We continue 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.

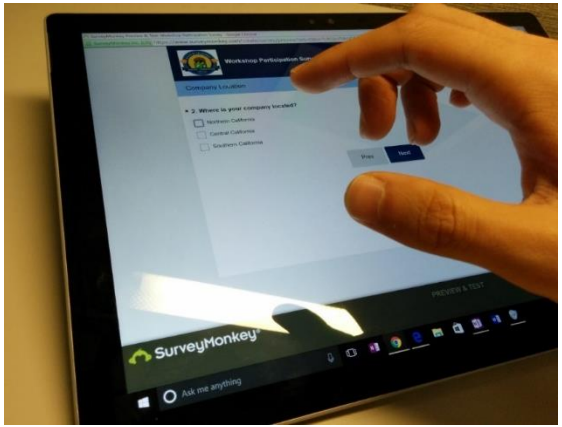
We Want to Hear From You!

1-Minute Survey

- The information supplied will be used for public reporting purposes to display anonymous overall attendance of diverse groups.

WebEx Participants, please use the link:
https://www.surveymonkey.com/r/CEC-05-29-2020

Thanks for your time!



Research Program Background

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

The purpose of EPIC Program is to:

- Benefit the ratepayers of the three largest electric investor-owned utilities*.
- Fund clean energy research, demonstration and deployment projects that support California's energy policy goals and promote greater electricity reliability, lower costs, and increased safety.
- Encourage technological advancement and breakthroughs to achieve State's statutory energy goals.

*Pacific Gas and Electric Co., San Diego Gas and Electric Co., and Southern California Edison.

Project Background

- Project started in June 2018 with Navigant Consulting as the prime contractor.
- The main project objective was to help to ensure that EPIC funds are strategically focused to make advancement on the most significant technological challenges and to identify, describe, and prioritize key research and development needs in achieving California's goals for integrating high penetrations of distributed energy resources (DER).

Past Workshops

- 3/25/19: Provided information on the publicly released DER Draft Technical Assessment and solicited feedback from stakeholders on the status of DER technologies and strategies as well as barriers currently limiting DERs.
- 7/25/19: Introduced a prioritization methodology to rank potential DER research needs and solicited input from stakeholders both to better characterize the status of DER technologies and strategies and to identify barriers to efficient integration.
- 9/17/19: Summarized the research ideas submitted by stakeholders, discussed the screening process, and presented the preliminary scores and ranks of the research ideas.

Today's Workshop

- Summarizing the Distributed Energy Resources (DER) Research Roadmap Draft Report.
  - This draft report identifies key research priorities needed to enable high penetrations of DERs.
- This workshop will provide an overview of the project approach, review the screening and prioritization process, and present the project results.

Questions for Stakeholders

- Do the research priorities identified in the Draft Final DER Research Roadmap Report accurately reflect the needs of California?
- What improvements do you suggest to the Draft Final DER Research Roadmap Report?
- Do you have any suggestions on performance targets for these research opportunities?