CALIFORNIA

Efficiency + Demand Management

COUNCIL

Advancing Our Clean Economy

Monthly Member Readout

December 2, 2022

REC

This call is being recorded. Confidential – for CEDMC members only. Do not distribute.

Today's Agenda

Council News

- EM&V Forum: February 2023
- Discount Deal for Bundling Sponsorships
- Council + AESP Happy Hour Networking
- What's Coming Up
- Solicitations
- Capitol Update

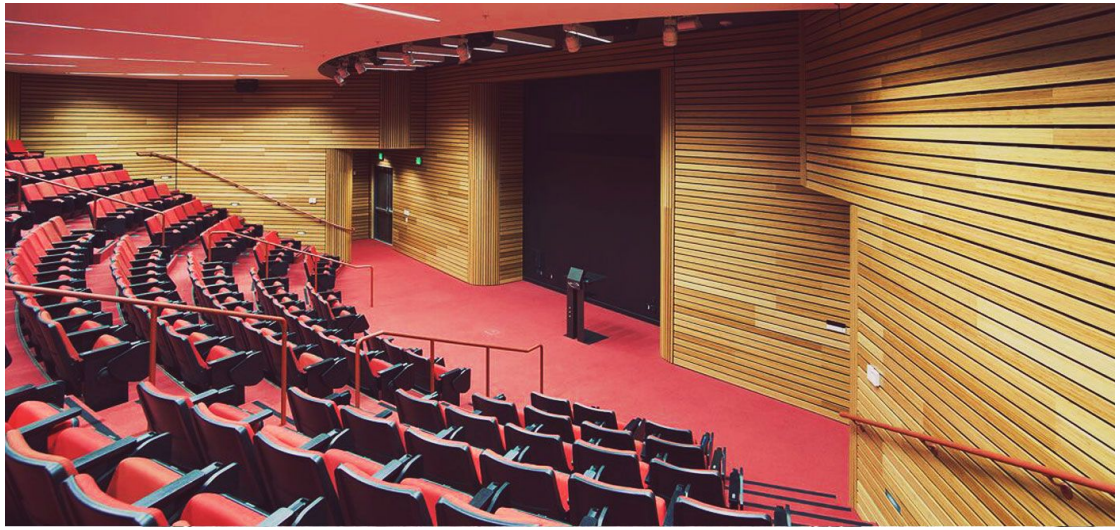
Issues/Topics

- Council Response to CEC RFI: CERIP (21-ESR-01)
- R.22-07-005 Council's Opening Comments to Scoping Memo
- New OIR: R.22-11-013

©2022 Proprietary and Confidential. All Rights Reserved.

The Council's EM&V Forum

Save the Date! Wednesday, February 15, 2023



- In-person with Online Viewing Option
- David Brower Center, Berkeley, CA
- Agenda and time detail to come

  https://cedmc.org/events/emv-forum/

©2022 Proprietary and Confidential. All Rights Reserved.

Discount Deal for Bundling Sponsorships

SPECIAL EARLY BIRD DEAL:

Bundle Your Sponsorships Early & Save!

15% discount for two events
25% discount for three events
(must commit before 12/31/2022)

CONTACT

Kira Kimick
Member Services Manager
The Council (CEDMC)
events@cedmc.org
(707) 480-1844

©2022 Proprietary and Confidential. All Rights Reserved.

Council + AESP Happy Hour Networking

The Council and AESP are co-hosting several Happy Hour Networking events across California.

- The December 1 San Francisco and San Diego Happy Hour Networking events have been postponed to early 2023 due to unforeseen circumstances.
- Look out for more information once these two events are rescheduled.

- **December 8 in Irvine, 5:30 p.m. - 7:00 p.m.:**
  - Hangar 24 Orange County in the Outdoor Patio
    17877 Von Karman Ave Unit 110, Irvine, CA 92614
  - Register here

©2022 Proprietary and Confidential. All Rights Reserved.

What's Coming Up

- **12/02: CEC Integrated Energy Policy Report (IEPR) Update Western Electricity System Integration Workshop**
  - 9:00 a.m. - 5:30 p.m. hybrid event
  - Byron Sher Auditorium, First Floor, 1516 Ninth Street, Sacramento, California 95814
  - Zoom; 1(888) 475-4499 | Webinar ID: 964 8019 8524 | Passcode: IEPR2022
- **12/05: SoCalGas Webinar Workshop: Draft Implementation Plan for Large Public Sector Program**
  - 3:00 p.m. - 4:00 p.m.
  - Microsoft Teams; 1(858) 284-1506 | ID: 289 171 302 464 | Passcode: UUJqGa
- **12/06: CalFlexHub Symposium**
  - 12/06: 9:00 a.m. - 12:00 p.m. | 12/07: 9:00 a.m. - 12:00 p.m.
  - Register here (free of charge)
- **12/07: CEC IEPR Workshop: Updates to CA Energy Demand 2022-2035 Forecast**
  - 10:00 a.m. - 5:00 p.m.
  - Zoom; 1(888) 475-4499 | Webinar ID: 957 8293 5747 | Passcode: IEPR2022
- **12/09: Demand Flexibility Working Groups Kickoff Meeting**
  - 10:00 a.m. to 11:30 a.m.
  - Microsoft Teams; Telephone: (213) 297-0156 / Passcode 884971601#
- **12/13: CEC Workshop Equitable Building Decarbonization Program**
  - 9:00 a.m. - 5:00 p.m.
  - Zoom; 1(888) 475-4499 | Webinar ID 983 8509 0575 | Passcode 781228
- **12/14: CPUC 2023 EE Potential & Goals Study Webinar**
  - 9:30 a.m. - 11:00 a.m.
  - WebEx; 1(855) 282-6330 | Meeting Number: 2485 161 8085 | Password: cpXFuhBd683
- **12/18: CEC Public Hearing - 2022 Appliance Efficiency Rulemaking for Repeal of Portable Luminaires Regulations**
  - 10:00 a.m. - 3:00 p.m.
  - Zoom; 1(888) 475-4499 | Webinar ID: 974 9492 9283 | Passcode: 416075

©2022 Proprietary and Confidential. All Rights Reserved.

Open Solicitations

12/02: CEC RFQ-22-401 questions due re: Flexible Demand Appliance Standards Advanced Research and Proposal Development
Note: There will be a pre-bid conference 11/10; submissions due 1/10/23.
12/06: SDG&E Pilot Plus and Pilot Deep 2.0 RFP and Optional Bidders Conference
12/09: NEW DEADLINE to submit CEC application due: Advancing Window Retrofits, Reducing Fireplace Air Leaks to Improve EE in Existing Buildings.
Note: Pre-Application Webinar: 10/20; questions deadline: 10/21
12/15: PG&E RFO due for 2022 DIDF Standard Offer Contract Tariff Pilot
12/16: EBCE RFP due for P4P EE Program + Additional Grid Services Program.
Note: There were two bidder webinars held in early November:
- *11/2 Webinar recording and list of attendees*
- *11/10 Webinar recording and list of attendees*

12/16: CEC RFP-22-801 Pre-Bid Conference: Energy Efficiency Technical Support 2023

1/10/23: CEC RFQ-22-401 due re: flexible demand appliance standards advanced research and proposal development
1/11/23: CEC GFO-22-302 due valuation of investments in electricity sector resilience
1/11/23: due for Residential Equity EE and Electrification Program Solicitation (extended). RFA scheduled to open 11/14/22
1/17/23: PG&E Registration & RFA due for Residential Equity EE and Electrification Program Solicitation (extended). RFA scheduled to open 11/14/22
1/23/23: CEC GFO-22-304 due for assessing the role of Hydrogen in CA's decarbonizing electric system
1/25/23: CEC GFO-22-303 due for Food Production Investment Program 2022
February '23: *Not open yet.* Food Production Investment Program GFO for $7 Million anticipated release: November 2022, anticipated application deadline: February 2023.
5/01/23: CEC GFO-21-402 submissions due: CA Automated Permit Processing Program

Ongoing: EE program 3P solicitation information and links found on the CAEECC Website

©2022 Proprietary and Confidential. All Rights Reserved.

Capitol Update from the Council Lobbyists

Erin Niemela

Tiffany Phan

©2022 Proprietary and Confidential. All Rights Reserved.

Council Response to CEC RFI: CERIP (21-ESR-01)

- According to SB 846 (Dodd), the CEC is required to craft and submit a Clean Energy Reliability Investment Plan ("CERIP") with cross-agency and stakeholder input and deliver to the Legislature by March 2023
  - RFI sought stakeholder input on:
    - Framework and scope of RFI
    - Specific qualitative and quantitative questions per recommendation
    - Feedback on the Distributed Electricity Backup Assets ("DEBA") Program
  - Over 50 responses to the RFI
- The Council submitted six recommendations in our response to the RFI:

Sector	Recommendation
Residential	Distributed energy storage fleets
	Vehicle to building deployment
Commercial	Advanced energy storage
Agricultural	Advanced pumping for small and medium agricultural facilities
Water/Wastewater Systems	Flow equalizer basins for wastewater facilities
	Grid Responsive Energy + Water Storage Systems

©2022 Proprietary and Confidential. All Rights Reserved.

Council Response to CEC RFI: CERIP (21-ESR-01) Cont.

- Addressed additional attributes the Council incorporated into our analyses
- Minimal feedback at this time on DEBA questions (limited to supply-side information - focused response on measurement & verification matters

- **Residential: Distributed energy storage fleets**
  - If customers with existing rooftop solar but no connected storage were enabled with battery storage systems, along with customers without solar, they could be connected through a virtual aggregator and in effect be “islanded” during peak load emergencies by only relying on their battery to supply their electricity needs.
  - A program that allows third-party ownership and control of storage technologies subject to certain performance obligations and sited on private property – with or without solar PV – could offer new market opportunities.
  - Storage could be managed in support of the grid generally, with a share of the savings and/or monthly rental costs associated with storage space rental.

©2022 Proprietary and Confidential. All Rights Reserved.

Council Response to CEC RFI: CERIP (21-ESR-01) Cont.

- **Residential: Vehicle to Building Deployments**
  - With the addition of in-home inverters, EVs can be connected to the home's power system through a virtual aggregator and in effect be "islanded" during peak load emergencies as the EV would supply their electricity needs.
  - The EVs would be charged during peak solar hours (10 a.m. to 3 p.m.) using existing rooftop solar systems or charging could be accomplished during these same hours at the workplace.

- **Commercial: Advanced Energy Storage**
  - Advancements in packaged cooling systems technology include self-contained ice units that produce ice during off-peak hours when net loads are low and use that ice as a coolant during on peak periods to significantly reduce non-fan electricity usage.
  - With aggressive enablement incentives and effective tariff designs, these systems could potentially offset half of a building's electrical demand during peak periods.

©2022 Proprietary and Confidential. All Rights Reserved.

Council Response to CEC RFI: CERIP (21-ESR-01) Cont.

- **Agricultural: Advanced Pumping For Small And Medium Agricultural Facilities**
  - Smaller agricultural business operating costs have increased due to pumping and irrigation inefficiencies. This program would target underserved agricultural customers with incentives and technical assistance that would lead to efficiency improvements in pumping.
  - This would effectively lead to significant load reductions during peak periods.

- **Water/Wastewater: Flow Equalizer Basins For Wastewater Facilities**
  - Build flow equalization basins (“EQ basins”) that can store incoming sewage during peak periods by not sending the sewage flow into the plant for treatment during those times.
  - This effort would advance energy and cost savings by withholding raw sewage and delaying required treatment.
  - Existing controls would allow the plant’s equipment downstream of the EQ basins to modulate down to their lowest position, reducing energy demand.

©2022 Proprietary and Confidential. All Rights Reserved.

Council Response to CEC RFI: CERIP (21-ESR-01) Cont.

- **Water/Wastewater: Grid Responsive Energy + Water Storage Systems (GREWSS)**
  - Small, modular Pumped Storage Hydropower systems (< 30MWs) powered by on-site renewables can be designed as a multi-benefit platform that operates in different modes, depending on grid needs.
    - Daily: stored energy can help the grid operate more efficiently and cost-effectively.
    - Emergencies:
      - Electric: Deliver resiliency for communities and critical infrastructure by switching to microgrid operation mode.
      - Fire: With stored water from the tanks, they provide enhanced firefighting capabilities.
  - Usually 2 storage tanks at different elevations, pumping system, hydro plant, and solar array
    - Daily: water is pumped from the lower tank to the upper tank drawing on power produced by the onsite solar system during the 10 a.m. to 3 p.m. time period.
      - 4 p.m. to 9 p.m., water is released from the upper tank through the hydroelectric plant where power is produced and sent to the electrical grid to meet peak load needs.
      - The water that flows through the hydro plant is stored in the lower tank. The process is repeated the next day.
  - Each system has the potential to supply up to 30 MW of firm dispatchable capacity.

©2022 Proprietary and Confidential. All Rights Reserved.

R.22-07-005 Council's Opening Comments

R.22-07-005: Demand Flexibility Through Electric Rates

- 11/02/2022: President Reynolds released the scoping memo for the proceeding which was kicked off in July. Comments are due today.
- The scoping memo asked five questions:
  - Input on proposed amendments to Electric Rate Design Principles ("ERDPs")
    - Prioritize ERDPs to resolve inherent conflicts, retain important principles (conservation, understandability of rates, etc.), ensure benefits to disadvantaged business entities, etc.
  - Input on proposed new Demand Flexibility Design Principles ("DFDPs")
    - General support, but DFDPs are missing: role of 3rd-parties and ease of access to data
  - Input on CPUC's support for CEC's Load Management Standards ("LMS")
    - Important for CPUC to support LMS
  - Input on expanding dynamic rate pilots
    - There are two pilots in early stages, generally too early to tell, but continued acceleration of progress is needed. SCE may establish good framework for building off of
  - Additive elements to the 6 laid out in the CalFUSE policy roadmap
    - No, elements are comprehensive and thoughtful

©2022 Proprietary and Confidential. All Rights Reserved.

New OIR: R.22-11-013

R.22-11-013: to consider distributed energy resource program cost-effectiveness issues, data use and access, and equipment performance standards

- Considered a successor to R.14-10-003 (To create a consistent regulatory framework for the guidance, planning and evaluation of integrated distributed energy resources)
- New OIR released 11/23, aligns with DER Action Plan and identified 2 pathways:
  - Phase 1:
    - **Continuing Cost-Effectiveness** (Q1 2023 - Q3 or Q4 2024): Continue regular ACC updates, determine Societal Cost Test adoption, determine how to best apply air quality research results
    - **Data Access Improvements** (Q1 2023 - Q1 2024): focus on improving the reporting, availability, privacy protections, and use of data, especially data from Smart Meters and other "smart" devices. It will also focus on collecting data on equity customers to improve customer program design, operation, and adoption.
  - Phase 2: Equipment performance standards + addressing unresolved issues from Phase 1
- Broad contextual and baseline-setting questions
- Lofty goals
- The Council will begin discussing questions next week, contact cmcisaac@cedmc.org

©2022 Proprietary and Confidential. All Rights Reserved.

Discussion & Q&A

Thank You!

Please contact us if you have any questions.

Joe Desmond – jdesmond@cedmc.org
Clark McIsaac – cmcisaac@cedmc.org
Kira Kimick – admin@cedmc.org

www.cedmc.org

Next Monthly Member Readout: December 2nd

©2022 Proprietary and Confidential. All Rights Reserved.