

DOCKETED

Docket Number:	22-BUSMTG-01
Project Title:	Business Meeting Agendas, Transcripts, Minutes, and Public Comments
TN #:	243345
Document Title:	June 8, 2022 Business Meeting Agenda
Description:	June 8, 2022 Business Meeting Agenda
Filer:	Patricia Carlos
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	5/27/2022 4:52:47 PM
Docketed Date:	5/27/2022



California Energy Commission
Business Meeting Agenda

June 8, 2022
10:00 a.m.–3:30 p.m.

In-person at:

Warren-Alquist State Energy Building
1516 Ninth Street
Art Rosenfeld Hearing Room
Sacramento, California 95814
(Wheelchair Accessible)

Option for Remote Public Access via Zoom™

<https://zoom.us/> Meeting ID: 938 6923 0237 Passcode: mtg@10am

Remote participation instructions below, after line items.

Please note that the California Energy Commission (CEC) aims to begin promptly at the start time and the end time is an estimate based on the agenda proposed. The business meeting may end sooner or later than the time indicated depending on various factors.

Pursuant to the California Code of Regulations, title 20, section 1104(e), any person may make an oral comment on any agenda item. To ensure the orderly conduct of business, such comments will be limited to three minutes or less per person. Any person wishing to comment on information items or reports (non-voting items) shall speak during the public comment portion of the meeting and have three minutes or less to address all remaining comments.

THE CEC WILL CONSIDER AND MAY TAKE ACTION ON THE FOLLOWING:

1. Consent Calendar.

Items will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.

- a. Sacramento Municipal Utility District. Proposed order approving the Executive Director's recommendation that the Sacramento Municipal Utility District's Power Purchase Agreement with Geysers Power Company LLC for the procurement of geothermal energy from a portfolio of geothermal facilities with capacity support from the Delta Energy Center be found compliant with the Emission Performance

Standard for Local Publicly Owned Electric Utilities pursuant to Senate Bill 1368 (California Code of Regulations, title 20, sections 2900-2913). Contact Michael Nyberg

- b. Electricity Resource Plans. Proposed resolution approving Forms and Instructions for Submitting Electricity Resource Plans in support of the *2023 Integrated Energy Policy Report*. Obligated load-serving entities are instructed to provide the CEC with energy and capacity requirements, generating resources projections, and other data related to electricity resource plans for historical years 2020 to 2021 and forecast years 2022 to 2031. Contact: Robert Kennedy

2. Information Item on Infrastructure Investment and Jobs Act.

Staff will provide an overview of CEC's activities related to the federal funding opportunities within the Infrastructure Investment and Jobs Act. Contact: Jennifer Martin-Gallardo (Staff Presentation: 10 minutes)

3. Proposed Joint Decision for Pecho Energy Storage Center (21-AFC-01) and Gem Energy Storage Center (21-AFC-02).

The Committees assigned to preside over the Pecho Energy Storage Center proceeding and the Gem Energy Storage Center proceeding have prepared a joint proposed decision on whether the proposed facilities are exempt from the notice of intention (NOI) process under Public Resources Code section 25540.6(a)(3). Contact: René Webster-Hawkins and Ralph Lee (Staff Presentation: 5 minutes)

- a. Pecho Energy Storage Center. Public hearing and proposed order on whether to receive documents into the hearing record and adopting the committee's proposed decision regarding whether the Pecho Energy Storage Center Application for Certification (AFC) is exempt from NOI process under Public Resources Code section 25540.6(a)(3) and should be processed as an application for certification under Public Resources Code section 25519 and following. On November 23, 2021, Pecho LD Energy Storage, LLC, a joint venture of Hydrostor, Inc. and Meridiam Infrastructure Partners, filed an AFC to construct and operate the Pecho Energy Storage Center, an advanced compressed air storage facility in San Luis Obispo County.
- b. Gem Energy Storage Center. Public hearing and proposed order on whether to receive documents into the hearing record and adopting the committee's proposed decision regarding whether the Gem Energy Storage Center AFC is exempt from the NOI process under Public Resources Code section 25540.6(a)(3) and should be processed as an application for certification under Public Resources Code section 25519 and following. On December 1, 2021, GEM A-CAES LLC filed an AFC to construct and operate the Gem Energy Storage Center, an advanced compressed air storage facility, in unincorporated Kern County.
- c. Possible closed session deliberation on the proposed joint decision. (Government Code section 11126(c)(3)).

4. Mojave Solar Project (MSP) Petition to Amend (09-AFC-05C).

Proposed order amending the CEC’s certification of the MSP to allow the installation of a hydrogen generation system, including an electrolyzer that uses electricity from the plant to decompose demineralized water into hydrogen and oxygen, and adopting staff’s determination that this action will not result in any significant effects on the environment and does not meet any of the criteria specified in Public Resources Code section 21166 that would require preparation of a subsequent or supplemental environmental document under the California Environmental Quality Act (CEQA). Contact: Elizabeth Huber (Staff Presentation: 5 minutes)

5. California Schools Healthy Air, Plumbing and Efficiency Program (CalSHAPE) (20-RENEW-01).

Proposed resolution adopting the second edition guidelines for both the CalSHAPE Ventilation and CalSHAPE Plumbing programs, and adopting staff’s determination that this action is exempt from CEQA. The CalSHAPE Ventilation program provides grants to local educational agencies (LEAs) to assess, maintain, and repair heating, ventilation, and air conditioning (HVAC) units in California schools. The CalSHAPE Plumbing program provides grants to LEAs to replace noncompliant plumbing fixtures and appliances. Contact: David Velazquez (Staff Presentation: 10 minutes)

6. Energy Conservation Manual for the 2022 Building Energy Efficiency Standards (2022 Energy Code).

Proposed resolution certifying the following portions of the energy conservation manual, which is required by Public Resources Code section 25402.1(e), and adopting staff’s determination that this action is exempt from CEQA. Contact: Che Geiser and Haile Bucaneg (Staff Presentation: 10 minutes)

- a. Compliance Documents. The 2022 Energy Code compliance documents are used by the building industry and local jurisdictions to demonstrate compliance with the Energy Code.
- b. Data Registry Requirements Manual. *The 2022 Data Registry Requirements Manual* is a resource for data registry providers to aid in the design and implementation of software procedures and user interface features for their data registries that meet the requirements of Reference Joint Appendix 7 in the 2022 Energy Code.
- c. Alternative Calculation Method Reference Manuals. *The 2022 Single-Family Residential Alternative Calculation Method Reference Manual* and *2022 Nonresidential and Multifamily Alternative Calculation Method Reference Manual* are used to document the modeling methods used to demonstrate performance compliance with the Energy Code.

7. Approval of California’s Building Energy Code Compliance Software (CBECC 2022.1.0 and CBECC-Res 2022.1.0).

Proposed resolution approving the 2022 public domain residential, nonresidential, and multifamily software as required by Public Resources Code section 25402.1(a).

The public domain compliance software has been updated, as described in the 2022 Alternative Calculation Method Reference Manuals, and will enable contractors, builders, architects, engineers, and government officials to demonstrate performance compliance with the 2022 Building Energy Efficiency Standards. Contact: RJ Wichert (Staff Presentation: 5 minutes)

8. Bringing Rapid Innovation Development to Green Energy (GFO-20-301).

This solicitation sought proposals to fund the continued development, specifically in applied research or technology demonstration and deployment, of high-potential, high-impact energy technologies. (EPIC Funding) Contact: Misa Werner (Staff Presentation: 10 minutes)

- a. Solid Energies Inc. Proposed resolution approving Agreement EPC-21-039 with Solid Energies Inc. for a \$3,000,000 grant to develop and integrate a new class of all-solid-state Lithium-ion battery cells with higher power density and better manufacturing for electric vehicle (EV) and stationary storage applications, and adopting staff's determination that this action is exempt from CEQA. This battery achieves the listed advantages with a combination of a novel polymer-composite based solid-state electrolyte, innovative composite electrodes, and a silicon-based composite anode.
- b. Enzinc Inc. Proposed resolution approving Agreement EPC-21-034 with Enzinc Inc. for a \$1,807,600 grant to scale development of Enzinc's zinc metal sponge anode and integrate and test it in a full battery cell and battery pack, and adopting staff's determination that this action is exempt from CEQA. There are two primary solutions to stationary energy storage for discharge times between two hours and twelve hours: lead-acid and lithium-based batteries, each of which has limitations. Enzinc has developed a zinc-based battery that combines the low cost and dependability of lead-acid batteries with the performance of lithium-based batteries.
- c. Lookin, Inc. Proposed resolution approving Agreement EPC-21-035 with Lookin, Inc. for a \$999,947 grant to produce a high-throughput terahertz scanner for in-line quality control of battery electrodes, which improves manufacturing capability to deliver high power batteries with better shelf life, increased safety, lower cost, and decreased production lead-time, and adopting staff's determination that this action is exempt from CEQA. Lookin's breakthrough terahertz scanner technology addresses the limitations of existing terahertz scanners by providing 1000-times higher sensitivity and scanning speed through a patented terahertz transceiver technology.
- d. Element 16 Technologies, Inc. Proposed resolution approving Agreement EPC-21-036 with Element 16 Technologies, Inc. for a \$1,000,000 grant to enable electrification of industrial processes with low-cost sulfur electric thermal energy storage, and adopting staff's determination that this action is exempt from CEQA. The proposed research and development activities and pilot testing will validate the capability of molten sulfur thermal energy storage to store electricity and

discharge heat for various industrial applications including process heat, cooling, and electricity generation.

- e. Pyro-E, Inc. Proposed resolution approving Agreement EPC-21-040 with Pyro-E, Inc. for a \$1,548,602 grant to deploy a novel Auto-Modulating Power Source (AMPS) device that will demonstrate water and cost savings across approximately 150 affordable housing units in Los Angeles, and adopting staff's determination that this action is exempt from CEQA. The AMPS technology powers wireless data sensors indefinitely by harnessing energy from water pressure. The bill savings from water and avoidance of lithium battery replacements will be scalable to over two-thirds of California households to meet Assembly Bill 758 mandates and municipal green initiatives.

9. Research to Support a Climate Resilient Transition to a Clean Electricity System (GFO-21-302).

This solicitation sought proposals to incorporate climate change into electricity system modeling, with particular attention to climate extremes that threaten reliability. Research will also explore emerging relationships between climate, supply, and demand over the next few decades, as the electricity system evolves to support 2030 and 2045 decarbonization goals. Results will provide foundational models and data to support a resilient, reliable transition to a zero-carbon electricity system. (EPIC Funding) Contact: Alexandra Kovalick (Staff Presentation: 5 minutes)

- a. Eagle Rock Analytics. Proposed resolution approving Agreement EPC-21-037 with Eagle Rock Analytics for a \$900,000 grant to develop stakeholder-informed data products and research on climate-related changes to availability and distribution of solar, wind, and hydroelectric generation through mid-century, and adopting staff's determination that this action is exempt from CEQA. This research will leverage state-of-the-art climate projections and expand the understanding of climate-related phenomena that affect solar and wind resources in California, including climate extremes, compound and cascading events, and high-stress weather and climate events to support a high-renewables, reliable, and cost-effective electricity grid.
- b. Eagle Rock Analytics. Proposed resolution approving Agreement EPC-21-038 with Eagle Rock Analytics for a \$750,000 grant to enhance the Cal-Adapt's web application to accommodate an increase in the volume of climate-related data produced through Electric Program Investment Charge initiatives, develop and execute new stakeholder-informed scientifically rigorous climate visualizations and tools, and adopting staff's determination that this action is exempt from CEQA. The effort will advance California's electricity sector's capacity to incorporate climate into investments, planning, and rulemaking, including supporting California's Fifth Climate Change Assessment.
- c. Energy & Environmental Economics, Inc. Proposed resolution approving Agreement EPC-21-041 with Energy & Environmental Economics, Inc. for a \$1,950,000 grant to provide a foundation to assess and improve the climate resilience of California's electricity system in transition through the creation of

novel datasets and tools that support energy system planning, and adopting staff's determination that this action is exempt from CEQA. Energy & Environmental Economics will update energy system models to incorporate climate data, increase the spatial extent to best capture climate impacts, and incorporate uncertainty and risk modeling to address climate uncertainty.

10. Advancing Cost and Efficiency Improvements for Low Carbon Hydrogen Production (GFO-21-502).

This solicitation sought proposals for applied research and development and technology demonstration and deployment projects that will address the technical and economic challenges of producing hydrogen from carbon-neutral production pathways. (Gas R&D Funding) Contact: Baldomero Lasam (Staff Presentation: 5 minutes)

- a. Southern California Gas Company. Proposed resolution approving Agreement PIR-21-003 with Southern California Gas Company for a \$750,000 grant to address key challenges associated with developing a low carbon hydrogen production system that is also cost-effective and scalable, and adopting staff's determination that this project is exempt from CEQA.
- b. Electro-Active Technologies Inc. Proposed resolution approving agreement PIR-21-007 with Electro-Active Technologies Inc. for a \$573,714 grant to develop and advance a microbial electrolysis technology for conversion of 100 percent renewable organic waste into low carbon hydrogen, and adopting staff's determination that this project is exempt from CEQA. This project will significantly reduce electricity consumption for hydrogen production compared to water electrolysis, use food waste, reduce GHGs, and provide a modularized system for onsite or near-site application.

11. The Regents of the University of California, on behalf of the Los Angeles Campus.

Proposed resolution approving Agreement PIR-21-006 with The Regents of the University of California, on behalf of the Los Angeles Campus, for a \$1,000,000 grant to integrate corrosion detection technologies, corrosion risk assessment methodologies, and risk management optimization approaches to create a new corrosion risk management approach, and adopting staff's determination that this action is exempt from CEQA. (Gas R&D Funding) Contact: Jeffrey Sunquist (Staff Presentation: 5 minutes)

12. The Regents of the University of California as Management and Operating Contractor for the Ernest Orlando Lawrence Berkeley National Laboratory.

Proposed resolution approving Agreement PIR-21-008 with The Regents of the University of California as management and operating contractor for the Ernest Orlando Lawrence Berkeley National Laboratory for a \$2,000,000 grant to conduct applied research to improve the characterization of residential methane emissions in California homes, and adopting staff's determination that this action is exempt from CEQA. The study will help improve California's methane emission inventory, quantify

the benefits of decarbonization in buildings, and inform the development of cost-effective programs to reduce methane emissions from the residential building sector. (Gas R&D Funding) Contact: Maninder Thind (Staff Presentation 5 minutes)

13. Arup US, Inc.

Proposed resolution approving Agreement 400-21-005 with Arup US, Inc. for a three-year, \$1,800,000 contract to lead a team of professional architectural and engineering consultants to provide technical support for evaluating and implementing strategies to advance the decarbonization of residential and nonresidential buildings and to increase Energy Code compliance. (COIA Funding) Contact: Elizabeth Thomsen (Staff Presentation 5 minutes)

14. IDEAL ZEV Workforce Pilot (GFO-21-602).

This solicitation sought proposals for workforce training and development that support zero-emission vehicles (ZEV), ZEV infrastructure, and ZEV-related commercial technologies in priority communities of California. (CTP Funding) Contact: Larry Rillera (Staff Presentation: 5 minutes)

- a. Municipal Equipment Maintenance Association, Inc. Proposed resolution approving Agreement ARV-21-068 with the Municipal Equipment Maintenance Association, Inc. for a \$500,000 grant to develop curricula and conduct technician training on ZEV and charging infrastructure for public and private fleets in and near the City of Long Beach, and adopting staff's determination that this action is exempt from CEQA.
- b. The Latino Equity Advocacy & Policy Institute (The LEAP Institute). Proposed resolution approving Agreement ARV-21-069 with The LEAP Institute for a \$499,957 grant to develop and conduct EV and electric vehicle supply equipment assessment, training, and outreach, and adopting staff's determination that this action is exempt from CEQA.
- c. SunLine Transit Agency. Proposed resolution approving Agreement ARV-21-070 with SunLine Transit Agency for a \$500,000 grant to plan and conduct ZEV transit training workshops throughout the state, and adopting staff's determination that this action is exempt from CEQA.

15. Minutes.

Possible approval of the May 11 and May 24, 2022, Business Meeting minutes.

16. Lead Commissioner or Presiding Member Reports.

A lead commissioner on a policy matter and a presiding member on a delegated committee may report to the CEC on relevant matters and discussion may follow.

17. Executive Director's Report.

18. Public Advisor's Report.

19. Public Comment.

Pursuant to the California Code of Regulations, title 20, section 1104(e), any person may make an oral comment on any agenda item. To ensure the orderly conduct of business, comments will be limited to three minutes or less per person and one representative per organization. The CEC notes that any person wishing to comment on non-voting items such as information items or reports shall provide comments during this period.

20. Chief Counsel's Report.

Pursuant to Government Code section 11126(e), the CEC may adjourn to closed session with its legal counsel to discuss any of the following matters to which the CEC is a party:

- i. *Interlink Products International, Inc. v. Xavier Becerra, Drew Bohan, Melissa Rae King (United States District Court for the Eastern District of California, Case No. 2:20-cv-02283).*

In-Person Instructions

Visitors will need to sign in with security and receive a pink or green temporary visitor badge to enter the primary meeting location in the Rosenfeld Hearing Room. The sign-in sheet at the security desk is for security purposes only and is not retained by the CEC as a public record. Any sign-in sheet in the Rosenfeld Hearing Room will be voluntary. Visitors are not permitted on any floor or room other than the hearing rooms and restrooms without a visitor badge and staff escort. Masks and social distancing are encouraged but not required.

Remote Access Instructions

Remote access for the public is available by either internet or call-in options.

Zoom: Click the link below to participate and provide public comment via Zoom.

<https://energy.zoom.us/j/93869230237?pwd=Zm96c09ULzdXTjd4eldtUXdnUGErzd09>.

Zoom may also be accessed at <https://zoom.us/join>. To join, enter the **meeting ID 938-6923-0237** and the **password mtg@10am**. To participate by phone, dial (669) 900-6833 or toll free at (888) 475-4499 and enter **meeting ID 938-6923-0237**. For Zoom technical support dial (888) 799-9666 ext. 2, or contact the CEC's Public Advisor for help at publicadvisor@energy.ca.gov and (916) 957-7910.

Public comment periods will be available throughout the business meeting and is expected to be three minutes or less per speaker and one person per organization. Depending on the number of members of the public seeking to make a comment, the Chair may adjust the total time allotted for public comment and the time allotted for each comment.

If participating via Zoom’s online platform, use the “raise hand” feature to indicate you would like to make a comment. The Public Advisor will open your line to speak. Please restate and spell your name for the record; indicate if you have an affiliation and begin your comments.

If participating by telephone, press *9 to “raise your hand” and *6 to mute/unmute. The Public Advisor will announce the last three digits of the phone number listed and open your line. Make sure to unmute your phone before speaking then restate and spell your name for the record, indicate if you have an affiliation; and begin your comments.

Verizon: The CEC’s Verizon phone line will solely be available if the Zoom service disconnects and shuts down. If that situation arises, the CEC Verizon line will be available for the public to listen and make public comment. Call the CEC’s Verizon line at (888) 823-5065 and enter the passcode: business meeting. To make public comment about a specific item, please provide your name, affiliation if any, and the item number to the operator. Once connected, press *0 for help or to speak with the operator. The operator will open your line when it is your turn to speak. Restate and spell your name for the record. The operator will mute your line when you are finished commenting.

Zoom’s closed captioning service will be enabled for CEC business meetings. Attendees can use the service by clicking on the “live transcript” icon and then choosing either “show subtitle” or “view full transcript.” The closed captioning service can be stopped by exiting out of the “live transcript” or selecting the “hide subtitle” icon. If using a phone, closed captioning is automatic and cannot be turned off. While the closed captioning is available in real-time, it typically includes errors. A full and formal transcript rendered by a professional court reporter will be posted in the CEC’s business meeting docket and the CEC’s business meeting webpage.

Public Advisor Assistance. Direct questions about how to participate in the business meeting or to request interpreting services or other reasonable modification and accommodations to the Public Advisor at publicadvisor@energy.ca.gov or by phone at (916) 957-7910. Requests for interpreting services, reasonable accommodations, and other modifications should be made as soon as possible and at least five days in advance. The CEC will work diligently to meet all requests based on the availability of the service or resource needed. Additionally, the Public Advisor may upon the request of public participants who may be absent from the CEC’s place of business or during the business meeting when a matter of interest to them is being considered, neutrally and publicly relate those participants’ points to the CEC on behalf of members of the public. If you are interested in this service, please email concise comments, specifying your main points, before the start of the business meeting to the Public Advisor. Comments submitted after the business meeting starts will be filed in the business meeting docket.

Direct media inquiries to (916) 654-4989 or mediaoffice@energy.ca.gov.

Subscribe to Electronic Mail Lists at <https://www.energy.ca.gov/proceedings/business-meetings> to have the business meeting agenda emailed to you. Enter your contact information under “Subscribe.”

Adjournment. Depending on time and the orderly management of proceedings, the CEC may adjourn, recess, or postpone any noticed hearing or meeting to be continued the next day, another specific date or time, or the next business meeting. Any such adjournment will be noticed at the time the order of adjournment is made. (Government Code sections 11128.5, 11129)