

DOCKETED

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California Energy Commission

Business Meeting Agenda

August 9, 2023
10:00 a.m. – 3:30 p.m.

In-person at:

California Natural Resources Agency Building
715 P Street
First Floor Auditorium
Sacramento, California 95814
(Wheelchair Accessible)

Remote Access via Zoom™

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

Remote participation instructions are below, after line items.

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

Pursuant to the California Code of Regulations (CCR), 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 two minutes or less per person.

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

1. Public Comment.

Any person wishing to comment on information items (non-voting items) shall provide comments during this period.

2. Agency Announcements.

The Chair may announce relevant matters to the public and the CEC, including agency updates, events, and other opportunities. Discussion may follow.

3. 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. The Board of Trustees of the Leland Stanford Junior University. Proposed resolution approving agreement 800-23-001 with The Board of Trustees of the Leland Stanford Junior University for a \$25,000 one-year contract for the CEC to continue to be a member of the Energy Modeling Forum (EMF) Affiliates Program. The purpose of the membership is to participate in an energy-environmental network of experts and modelers currently working on the EMF 37 Deep Decarbonization & High Electrification Scenarios for North America study, which seeks to explore the opportunities, limitations, trade-offs, and robustness of results associated with high electrification in North America. (ERPA Funding) Contact: Nicholas Janusch
- b. Energy Conservation Assistance Act (ECAA) Loan Program – PON-22-001. Proposed resolutions approving five ECAA-Ed loans at zero percent interest totaling \$16,287,373. (ECAA-Ed Funding) Contact: Sean Lockwood
 - i. Red Bluff Union Elementary School District. Proposed resolution approving agreement 007-23-ECG with Red Bluff Union Elementary School District for a \$3,000,000 loan at zero-percent interest and adopting staff's determination this action is exempt from the California Environmental Act (CEQA). The loan will finance solar photovoltaic (PV) arrays totaling 470 kW-AC at three sites in Tehama County. Upon project completion, it is estimated to reduce 732,656 kWh of electricity consumption in the first year of solar production, saving approximately \$185,317 in utility costs per year. The simple payback period is 16.2 years.
 - ii. Tulare County Office of Education. Proposed resolution approving agreement 008-23-ECG with Tulare County Office of Education for a \$5,000,000 loan at zero-percent interest and adopting staff's determination this action is exempt from CEQA. The loan will finance a carport solar PV array with battery energy storage, one ground mounted solar PV array, and six electric vehicle (EV) chargers in Tulare County. Upon project completion, it is estimated to reduce 1,269,894 kWh of electricity consumption in the first year of solar production, saving \$265,262 in utility costs per year. The simple payback period is 18.8 years.
 - iii. Guadalupe Union School District. Proposed resolution approving agreement 009-23-ECG with Guadalupe Union School District for a \$3,143,496 loan at zero-percent interest and adopting staff's determination this action is exempt from CEQA. The loan will finance two carport solar PV arrays totaling 248.4 kW, LED lighting retrofits, programmable thermostat and HVAC replacements, and one EV charger at two sites in Santa Barbara County. Upon project completion, it is estimated to reduce 439,426 kWh of electricity consumption in the first year, saving approximately \$160,024 in utility costs per year. The simple payback period is 19.6 years.
 - iv. Oak Valley Union Elementary School District. Proposed resolution approving agreement 010-23-ECG with Oak Valley Union Elementary School District for a \$2,143,877 loan at zero-percent interest and adopting staff's determination

- this action is exempt from CEQA. The loan will finance a 279.6 kW ground mounted PV array in Tulare County. Upon project completion, it is estimated to reduce approximately 571,746 kWh of electricity consumption in the first year of solar production, saving approximately \$114,023 in utility costs per year. The simple payback period is approximately 18.8 years.
- v. Pacheco Union Elementary School District. Proposed resolution approving agreement 011-23-ECG with Pacheco Union Elementary School District for a \$3,000,000 loan at zero-percent interest and adopting staff's determination this action is exempt from CEQA. The loan will finance two carport PV arrays totaling 280 kW, upgraded LED lighting, and HVAC systems at two sites in Shasta County. Upon project completion, it is estimated to reduce 527,678 kWh of electricity consumption in the first year of the project, saving approximately \$156,833 in utility costs per year. The simple payback period is 19.1 years.
- c. Energy Conservation Assistance Act (ECAA) Loan Program – PON-22-002. ECAA-Reg loans at one percent interest totaling \$3,974,168. (ECAA-Reg Funding) Contact: Sean Lockwood
- i. Alpine Fire Protection District. Proposed resolution approving agreement 001-23-ECI with the Alpine Fire Protection District for a \$473,790 loan at one percent interest and adopting staff's determination that this action is exempt from CEQA. The loan will finance an 84 kW carport solar PV array in San Diego County. Upon project completion, it is estimated to reduce 132,800 kWh of electricity consumption in the first year of solar production, saving approximately \$27,870 in utility costs per year. The simple payback period is 17.0 years.
 - ii. City of Clayton. Proposed resolution approving agreement 002-23-ECI with City of Clayton for a \$1,902,113 loan at one-percent interest and adopting staff's determination that this action is exempt from CEQA. The loan will finance a carport shade structure with a 119.1 kW PV array, a 60 kW EV fast-charging station, LED lighting upgrades, and HVAC and control system upgrades in Contra Costa County. Upon project completion, it is estimated to reduce 575,805 kWh of electricity consumption in the first year, saving approximately \$139,953 in utility costs per year. The simple payback period is 13.6 years.
 - iii. City of Newark. Proposed resolution approving agreement 003-23-ECI with the City of Newark for a \$1,598,265 loan at one percent interest, and adopting staff's determination this action is exempt from CEQA. The loan will finance high efficiency LED luminaires replacement streetlights in Alameda County. Upon project completion, it is estimated to save 828,494 kWh annually, saving approximately \$218,696 in utility costs per year. The simple payback period is 7.3 years.

4. Information Item – ARPA-E Partnership and MOU.

Staff will provide an overview of the CEC’s successful partnership with the Advanced Research Projects Agency – Energy (ARPA-E). In June 2013, the CEC and ARPA-E signed a Memorandum of Understanding (MOU) to provide a framework for the two agencies to collaborate with a goal of maximizing investments in cutting-edge clean energy technologies. A decade later, the two agencies have re-committed to this partnership and signed an updated MOU, solidifying joint efforts to advance breakthrough energy technologies. Contact: Erik Stokes (Staff Presentation: 10 minutes)

5. Information Item – Summer 2023 Grid Reliability Update.

Staff will provide an update on 2023 summer grid reliability including an overview of reliability conditions going into the summer, actions taken to prepare for the summer, new clean energy resources that have come online, an update on contingency resources available for an extreme event, and an overview of once-through cooling generating units being considered in the Department of Water Resources’ (DWR) Investment Plan. Contact: David Erne (Staff Presentation: 10 minutes)

6. DWR Investment Plan.

In accordance with Assembly Bill (AB) 205, DWR is required to notify the CEC of the terms, costs, and scope of contracts DWR entered into after October 31, 2022 pursuant to its Electricity Supply Strategic Reliability Reserve Program. DWR requests the CEC to approve the Investment Plan consistent with the terms of California Water Code Section 80710(i). Contact: Delphine Hou (Staff Presentation: 10 minutes)

7. Information Item – Update to Land-Use Screens for Electric System Planning.

Staff will provide an overview of the revised land-use screens for electric system planning. Updated screens and a detailed staff report replace the current screens available to planning agencies. Staff will provide an overview of the changes to the screens, an available interactive data viewer, and anticipated use cases over the coming year. Contact: Erica Brand (Staff Presentation: 10 minutes)

8. Order Instituting Rulemaking.

Proposed resolution to initiate an order instituting rulemaking to consider establishing efficiency standards, test procedures, marking requirements, certification requirements, and any other appropriate regulations for the appliances within the commercial foodservice equipment classification (i.e., commercial steam cookers, convection ovens, dishwashers, and fryers). Contact: Alejandro Galdamez (Staff Presentation: 10 minutes)

9. Title 20 Home Energy Rating System Regulations – 23-HERS-01.

Proposed resolution approving amendments to portions of CCR, title 20, sections 1670-1675 regarding the Home Energy Rating System (HERS) program and adopting staff’s determination that this action is exempt from CEQA. The proposed

amendments will remove certain administrative regulations pertaining to field verification and diagnostic testing, a separate program from HERS, so that they can be added to the title 24 Energy Code. This rulemaking complements and will go into effect on the same date as the 2025 Energy Code rulemaking to avoid any regulatory gap. Contact: Joe Loyer (Staff Presentation: 10 minutes)

10. Antora Energy, Inc.

Proposed resolution approving agreement EPC-23-010 with Antora Energy, Inc. for a \$2,999,695 grant to expand their pilot-scale manufacturing line in Sunnyvale for thermophotovoltaic (TPV) cells that convert radiant heat into electricity, and adopting staff's determination that this action is exempt from CEQA. The novel TPV cells are combined with inexpensive thermal storage to create a cost-effective long-duration energy storage system capable of providing 200 hours of capacity. This project will develop and scale new TPV cell manufacturing techniques, to reduce system costs. (EPIC Funding) Contact: Anthony Ng (Staff Presentation: 5 minutes)

11. Triton Anchor LLC.

Proposed resolution approving agreement EPC-23-007 with Triton Anchor LLC for a \$3,447,131 grant to develop a floating offshore wind turbine anchor system, and adopting staff's determination that this action is exempt from CEQA. The anchor system will be specifically designed for California's dynamic soil conditions, based on technology involving helical piles grouped together to provide greater holding capacity. (EPIC Funding) Contact: Mark Danielson (Staff Presentation: 5 minutes)

12. Gas Pipeline Safety and Integrity Research to Support Decarbonization – GFO-22-503.

This solicitation sought to fund gas pipeline integrity research to assess and monitor risk due to natural force damages, advance technologies for plastic pipeline inspections to reduce leakage, and inform gas system decommissioning opportunities. This item includes two projects totaling \$3,992,228. (Gas R&D Funding) Contact: Sean Anayah (Staff Presentation: 5 minutes)

- a. Institute of Gas Technology dba GTI Energy. Proposed resolution approving agreement PIR-23-005 with Institute of Gas Technology dba GTI Energy for a \$999,319 grant to test a non-destructive evaluation tool to identify cracks in the wall of plastic pipes and defects in fusion joints, and adopting staff's determination that this action is exempt from CEQA. The project will combine historic and new inspection data to enhance decision support tools and improve cost-effectiveness of plastic pipeline integrity management.
- b. The Regents of the University of California, on behalf of the Los Angeles Campus. Proposed resolution approving agreement PIR-23-004 with The Regents of the University of California, on behalf of the Los Angeles Campus for a \$2,992,909 grant to demonstrate a novel approach to monitor ground motion and impacts on gas pipeline integrity, and adopting staff's determination that this action is exempt from CEQA. The project will develop an integrated platform

using remote and embedded sensing technologies and models to monitor, predict, and reduce the risk of natural hazard impacts to gas pipelines.

13. Light-Duty Vehicle and Multi-Use Hydrogen Refueling Infrastructure – GFO-22-607.

This solicitation sought proposals for projects that would provide publicly available hydrogen refueling stations to enable continued growth of the California fuel cell electric vehicle market. Solicitation objectives included bringing hydrogen fueling to areas of California currently without a hydrogen refueling station, and supporting fuel cell deployment in multiple vehicle market segments including fuel cell electric trucks and buses. This item includes two projects totaling \$5,780,123. (General Fund Funding) Contact: Jane Berner (Staff Presentation: 5 minutes)

- a. Air Products and Chemicals, Inc. Proposed resolution approving agreement ZVI-23-002 with Air Products and Chemicals, Inc., for a \$2,780,123 grant to develop one multi-use hydrogen refueling station with multiple fueling positions for both light-duty and heavy-duty vehicles in Galt, and adopting staff's determination that this action is exempt from CEQA.
- b. FirstElement Fuel, Inc. Proposed resolution approving agreement ZVI-23-003 with FirstElement Fuel, Inc. for a \$3,000,000 grant to develop one multi-use hydrogen refueling station with multiple fueling positions for both light-duty and heavy-duty vehicles in Kettleman City, and adopting staff's determination that this action is exempt from CEQA.

14. Minutes.

Possible approval of the July 26, 2023, Business Meeting minutes.

15. 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.

16. Executive Director's Report.

17. Public Advisor's Report.

18. Chief Counsel's Report.

In-Person Instructions

Visitors of the CNRA building attending the business meeting held in the first-floor auditorium should proceed directly to the auditorium and do not need to sign in at the lobby security desk. Please note that visitors are solely permitted in the auditorium, restrooms, and cafeteria without a visitor badge or staff escort. Masks and social distancing are encouraged but not required.

Remote Access Instructions

Remote access 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=Zm96c09ULzdXTjd4eldtUXdnUGErDz09>.

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 comments are welcomed at the business meeting during announced times. Comments will be limited to two minutes or less per speaker and one speaker per entity depending on the proposed agenda and number of commenters.

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 any 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, restate and spell your name for the record, indicate any affiliation, and begin your comments.

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

Public Advisor Assistance. Direct questions about how to participate in the business meeting or requests for interpreting services or other reasonable modifications 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 when a matter of interest to them is being considered, neutrally read their comments into the record during the public comment period. If you are interested in this service, please email concise comments before the start of the business meeting to the Public Advisor. Comments submitted after the business meeting starts or that cannot be read within a two-minute timeframe will be filed in the business meeting docket.

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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)