

**DOCKETED**

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<b>Project Title:</b>	2024 Business Meeting Agendas, Transcripts, Minutes, and Public Comments
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## California Energy Commission **Business Meeting Agenda**

**December 11, 2024  
10:00 a.m. – 3:00 p.m.**

**In-person at:**

Warren-Alquist State Energy Building  
1516 Ninth Street  
Art Rosenfeld Hearing Room  
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 the agenda items.

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. Commissioners may attend remotely in accordance with Government Code section 11123.2(j). Agenda items may be taken out of order as needed.

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.

Please visit the CEC [Business Meeting web page](#) for more information and backup materials for all voting items at <https://www.energy.ca.gov/proceedings/business-meetings>.

**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. Local Ordinance for the City of Brisbane. Proposed resolution finding the application submitted by the City of Brisbane meets the requirements of Public Resources Code, Section 25402.1(h)(2) and Section 10-106 of the 2022 Energy Code. The ordinance is estimated to save more energy than the 2022 Energy Code, and the City of Brisbane has determined that the ordinance is cost-effective. The ordinance introduces additional electric readiness requirements, hot water temperature requirements for space conditioning systems in non-residential buildings and more stringent source energy compliance margins with varying margins beyond the 2022 Energy Code. Contact: Anushka Raut
- b. Local Ordinance for the City of Santa Monica. Proposed resolution finding the application submitted by the City of Santa Monica meets the requirements of Public Resources Code, Section 25402.1(h)(2) and Section 10-106 of the 2022 Energy Code. The ordinance is estimated to save more energy than the 2022 Energy Code, and the City of Santa Monica has determined that the ordinance is cost-effective. The ordinance introduces additional electric readiness requirements, solar pool heating requirements, hot water temperature requirements for space conditioning systems in nonresidential buildings, and more stringent source energy compliance margins with varying margins beyond the 2022 Energy Code. Contact: Anushka Raut
- c. National Wind Technology Consortium, Inc. dba National Offshore Wind Research & Development Consortium (NOWRDC). Proposed resolution approving agreement 300-24-001 with NOWRDC for \$25,000 for contract for a one-year membership. NOWRDC is a national, non-profit collaborating with industry, state, and federal government on research and development to reduce the levelized-cost of offshore wind energy while maximizing economic and social benefits. (EPIC Funding) Contact: Michelle Slocombe
- d. Interstate Renewable Energy Council, Inc. (200-24-005). Proposed resolution approving agreement 200-24-005 with Interstate Renewable Energy Council, Inc. for a \$5,000 contract for a one-year membership. The membership allows CEC staff to connect with key stakeholders in the solar industry. (ERPA Funding) Contact: Eunice Lemos-Adair
- e. Interstate Renewable Energy Council, Inc. (200-24-006). Proposed resolution approving agreement 200-24-006 with IREC for a \$5,000 sponsorship contract to support research and implement the 2023 National Solar Jobs Census, with a focus on California-specific data. (ERPA Funding) Contact: Carissa Peri
- f. American Council for an Energy Efficient Economy (ACEEE). Proposed resolution approving agreement 200-24-003 with ACEE for a \$25,000 contract for a one-year membership. Membership allows CEC staff access to a network of energy efficiency experts, leaders, and decision makers. (ERPA Funding)

Contact: Diana Grady

- g. CivicWell. Proposed resolution approving agreement 200-24-004 with CivicWell for a \$15,000 contract for a one-year membership. Membership allows CEC staff to meet with key stakeholders and participate in forums to pursue innovative smart-growth and climate resilience strategies. (ERPA Funding) Contact: Carissa Peri
- h. Clean Energy States Alliance, Inc. (CESA) Proposed resolution approving agreement 500-24-002 with CESA for a \$50,000 contract for a one-year membership. CESA is a national, nonprofit coalition of state, municipal and regional clean energy agencies and organizations working to advance clean energy markets, and the development of clean energy technology. Membership includes a CEC seat on the CESA Board of Directors, participation in national energy work groups, and informational resources. (ERPA Funding) Contact: Lucio Hernandez
- i. Aspen Environmental Group. Proposed resolution approving Amendment 04 to Contract 700-22-004 with Aspen Environmental Group to augment the existing agreement by \$500,000 to support Assembly Bill 3 (Stats. 2023, ch. 314.) California Offshore Wind Advancement Act work. Additional funds will support preparation of a second-phase plan and strategy for a seaport readiness report, and a report on the feasibility of achieving 50% and 65% in-state assembly and manufacturing of offshore wind energy projects. These reports are due to the Governor and the Legislature by December 31, 2026, and December 31, 2027, respectively. (ERPA Funding) Contact: Sharon Purewal
- j. Los Angeles Cleantech Incubator. Proposed resolution approving agreement ARV-24-006 with Los Angeles Cleantech Incubator for a \$4,999,720 grant, and adopting staff's recommendation that this action is exempt from the California Environmental Quality Act (CEQA). This agreement will install 62 electric vehicle (EV) direct current fast charging ports at two facilities in Vernon and Wilmington to support the zero-emission medium- and heavy-duty vehicle fleets. Three battery energy storage systems for added fleet support will also be installed at the Wilmington site to reduce demand charge costs and provide backup power for uninterrupted operations. (Clean Transportation Program Funding) Contact: Claudia Eyzaguirre
- k. Bidirectional Energy Inc. Proposed resolution approving agreement EPC-24-029 with Bidirectional Energy Inc. for a \$2,172,061 grant, and adopting staff's recommendation that this action is exempt from CEQA. This agreement will develop and demonstrate a bidirectional EV charger that will be interoperable with multiple EV models and an aggregator platform to enable backup power and grid-supportive load shifting at residential homes across California. (EPIC Funding) Contact: Antonio Gomez
- l. Weave Grid, Inc. Proposed resolution approving agreement EPC-24-023 with Weave Grid, Inc. for a \$2,455,187 grant, and adopting staff's determination that this action is exempt from CEQA. This agreement will demonstrate a smart

charging platform at sites in Los Angeles County to optimize EV charging schedules based on local distribution grid constraints and bulk grid benefits. The demonstration will also show how software optimization of EV battery discharge capabilities with bidirectional equipment can provide further local distribution grid value. (EPIC Funding) Contact: Katelynn Dinius

#### **4. IEP Camp Pendleton Energy Storage 1, LLC.**

Proposed resolution adopting a Mitigated Negative Declaration (MND), and a Mitigation Monitoring and Reporting Program (MMRP) for the Haybarn Energy Resiliency Center project, and approving agreement LDS-24-004 with IEP Camp Pendleton Energy Storage 1, LLC. (LDES Funding) Contact: Kevin Mallon (Staff Presentation: 10 minutes)

- a. Proposed resolution adopting the MND and MMRP. The CEC prepared the MND in accordance with CEQA to evaluate the environmental effects of the construction and operation of the Haybarn Energy Resiliency Center on Marine Corps Base Camp Pendleton (Base) in San Diego County. Following a 30-day public comment period on the initial study and MND, the CEC proposes to adopt the MND and MMRP and make findings that all project-related environmental impacts will be less than significant or reduced to less than significant with the incorporation and implementation of the mitigation measures.
- b. IEP Camp Pendleton Energy Storage 1, LLC's Haybarn Energy Resiliency Center. Proposed resolution approving agreement LDS-24-004 with IEP Camp Pendleton Energy Storage 1, LLC for a \$42,000,000 grant to deploy and operate the Haybarn Energy Resiliency Center, a 48 MWh zinc hybrid cathode battery energy storage system, to support the Base. During normal operations, the system will provide grid services; during grid outages, the system will support the Base's essential energy needs for up to fourteen days.

#### **5. Eos Energy Storage, LLC.**

Proposed resolution approving agreement LDS-24-003 with Eos Energy Storage, LLC for an \$8,028,175 grant, and adopting staff's recommendation that this action is exempt from CEQA. The agreement will fund deployment of a 1 MW/8 MWh non-lithium-ion long duration energy storage (LDES) system to support Naval Base San Diego's Energy Resiliency Conservation Investment Program's renewable microgrid project, serving a portion of their critical facilities. The project aims to enhance energy resilience and serve as a blueprint for LDES system installations for renewable microgrids at naval facilities. (LDES Funding) Contact: Caitlin Planchard (Staff Presentation: 5 minutes)

#### **6. Informational Item – Petroleum: Year in Review.**

CEC Energy Assessments Division staff will present on gasoline inventories, production levels, and the work that has been done year-to-date relating to petroleum. Contact: Jeremy Smith (Staff Presentation: 10 minutes)

#### **7. 2024-2025 Investment Plan Update for the Clean Transportation Program.**

Proposed resolution approving the 2024-2025 Investment Plan Update for the Clean Transportation Program, and adopting staff's recommendation that this is not a project under CEQA or, in the alternative, if deemed to be a project, that it is exempt. The program provides funding to support innovation and accelerate the development and deployment of zero-emission and other advanced fuels and transportation technologies. The 2024-2025 Investment Plan Update establishes funding allocations based on transportation needs and opportunities, including a focus on zero-emission vehicle infrastructure and prioritization of jobs, economic stimulus, and equity. Contact: Benjamin Tuggy (Staff Presentation: 15 minutes)

**8. Proposed Resolution for a Deviation from the 2023 Integrated Energy Policy Report (IEPR) Forecast for the California Independent System Operator's 2024-25 Transmission Planning Process (TPP).**

Staff proposes a resolution confirming the CEC's approval of joint-agency staff determination for the California ISO (CAISO) to deviate from the 2023 IEPR Forecast, in order to accommodate new information about the U.S. Navy's planned replacement of three aircraft carriers and the associated load growth at Naval Base Coronado. The CAISO's deviation is necessary to support its 2024-25 TPP, and associated upgrades. Contact: Heidi Javanbakht (Staff Presentation: 5 minutes)

**9. Local Government Building Decarbonization Challenge – GFO-23-403.**

This solicitation sought to fund planning grants to local governments that are not eligible for direct federal Energy Efficiency and Conservation Block Grant (EECBG) funding and prioritized rural, low income, and disadvantaged communities. Projects will support community and municipal building decarbonization planning, and improve municipal operations to support building decarbonization and decarbonization education. Projects will also support workforce development and creating or updating local codes, ordinances, and volunteer decarbonization measures. This item includes two agreements totaling \$1,400,000. (EECBG Funding) Contact: Lien Huynh (Staff Presentation: 5 minutes)

- a. County of Santa Clara. Proposed resolution approving agreement EECBG-24-003 with County of Santa Clara for a \$700,000 grant, and adopting staff's recommendation that this action is exempt from CEQA. This agreement will support development of the Neighborhood Electrification Planning Pilot Program, Permit Support Pilot and Modernization Program, and planning for the replacement of county domestic hot water heaters and gas heat packaged units with more sustainable alternatives.
- b. City of Pinole. Proposed resolution approving agreement EECBG-24-004 with City of Pinole for a \$700,000 grant, and adopting staff's recommendation that this action is exempt from CEQA. This agreement will support the Pinole Energy Enhancement Rebate Pilot Program and development of a virtual all-electric building resource center, draft building performance standard program, municipal building decarbonization plan, permitting compliance program, water heater loaner program, green workforce training program, and photovoltaic microgrid system design for the City of Pinole's wastewater treatment plant.

## **10. California Air Resources Board (CARB).**

Proposed resolution approving Interagency Agreement 500-24-003 with CARB for \$22,692,308.27, and adopting staff's recommendation that this action is exempt from CEQA. Pursuant to Assembly Bill 205 (Stats. 2022, ch. 61), this agreement will transfer the calculated mitigation costs of excess emissions associated with the dispatch of fossil fueled resources in response to the 2022 extreme heat event to CARB for the Climate Heat Impact Response Program. (Distributed Electricity Backup Assets Funding) Contact: Payam Narvand (Staff Presentation: 5 minutes)

## **11. Carlsbad Energy Center Project – Petition to Amend (Docket No. 07-AFC-06C).**

Proposed order to amend the CEC's certification of the Carlsbad Energy Center Project by modifying Air Quality (AQ) Conditions of Certification (COC), and adopting staff's determination that the project changes will not result in any significant effects on the environment. The petition to amend requests changes to the definition of turbine shutdown condition without a change in permitted emissions limits, an increase of the permitted carbon monoxide startup mass emissions limits, conformation of the CEC AQ COCs with the San Diego Air Pollution Control District permit modifications, and administrative changes related to equipment not built and requirements for initial construction. Staff has determined that despite a minor increase in the hourly carbon monoxide emission limit, the proposed modifications to the AQ COCs would not result in significant impacts to the ambient air quality and the environment, and the facility would continue to comply with all applicable laws, ordinances, regulations, and standards. Contact: Anwar Ali (Staff Presentation: 10 minutes)

## **12. DNV USA INC.**

Proposed resolution approving agreement EPC-24-028 with DNV USA INC. for a \$2,460,222 grant, and adopting staff's recommendation that this action is exempt from CEQA. This agreement will fund the development and demonstration of an advanced, computer software prediction model for managing and reducing the corrosion and scaling impacts of geothermal fluids on geothermal power plant components. The model will be developed in laboratories in Los Angeles and Sonoma counties and field tested at a geothermal power plant in the Salton Sea region. (EPIC Funding) Contact: Nathan Lubega (Staff Presentation: 5 minutes)

## **13. California Clean Energy Fund DBA CalCEF Ventures.**

Proposed resolution approving Concept Award small grants from the EPIC California Sustainable Energy Entrepreneur Development (CalSEED) Initiative, as competitively selected and proposed by the CalSEED Technical Advisory Committee, and adopting staff's recommendation that this action is exempt from CEQA. This item includes seventeen agreements totaling \$3.4 million (EPIC Funding). Contact: Josh Croft (Staff Presentation: 5 minutes)

- a. Three Rivers Power, LLC, \$200,000. The goal of this project is to dramatically increase the power density of power conversion electronics used in battery storage systems to enable placement of the inverter, charger, and battery

management system circuitry directly onto the battery cells.

- b. SolGraph, Inc., \$200,000. The goal of this project is to demonstrate the efficacy of a clean, cylindrically layered graphite that significantly enhances the life and recyclability of lithium-ion batteries via a single-component woven anode produced by solar synthesis.
- c. Aris Hydronics Inc., \$200,000. The goal of this project is to develop and test a modular heat pump system for multi-family buildings that combines heating, cooling, and hot water and can work on a 20 Amp 110 V panel slot.
- d. Wayside, \$200,000. The goal of this project is to develop a battery pack made from a recyclable enclosure that simplifies construction and end-of-life material recovery via an integrated enclosure, cooling system, and mounting device.
- e. We Think Global Inc., \$200,000. The goal of this project is to demonstrate a portable, photovoltaic-enabled, physio-chemical clarification system that can recover, isolate, and purify a large range of metals and critical minerals from a variety of waste streams including mine tailings, industrial waste, brine, and other sources.
- f. Cryodrives, LLC, \$200,000. The goal of this project is to design, build, and test a heavy-duty variable frequency electric drive system that could replace a diesel engine in heavy duty truck and trailer applications with reliable heavy duty electric drives.
- g. AmpTrans Inc., \$200,000. The goal of this project is to develop a medium and heavy-duty electric fleet charging optimization platform. This platform balances each vehicle's needs with the peak load of the charging station considering time-of-use rates, demand charges, vehicle scheduling, and battery health – integrating the site's solar energy and battery storage.
- h. KVA Technologies, \$200,000. The goal of this project is to develop electrified production of high-performance alloys for a variety of industries and reduce or eliminate the need for fossil-fueled heat treatments.
- i. Calctra, Inc., \$200,000. The goal of this project is to develop an electrically conductive, air-stable brick that will act as both the heating and storage element in a low-cost high-temperature process heat and thermal storage system.
- j. OpenRoad Technologies Inc., \$200,000. The goal of this project is to validate the feasibility of a fast-charging battery system for EVs, which can be installed using consumer-grade wiring and outlets without costly upgrades.
- k. 17, Inc, \$200,000. The goal of this project is to develop technology that uses excess intermittent clean energy to produce green ammonia.
- l. Gridwave, PBC, \$200,000. The goal of this project is to develop a low-cost, modular, solar EV charging station for medium- and heavy-duty vehicles.
- m. Navion Energy, Inc., \$200,000. The goal of the project is to design an onsite rapid charging system using sodium batteries to deliver rapid, safe, and cost-



effective charging for electric trucks.

- n. Coulomb Technology, \$200,000. The goal of this project is to test a zinc-ion based battery energy storage system to support medium- and heavy-duty vehicle charging stations.
- o. Sol Robotics, Inc., \$200,000. The goal of this project is to develop a compact wireless inductive charging system that can harvest energy directly from the electromagnetic field generated by overhead power lines.
- p. EcoRecycleTech, \$200,000. The goal of this project is to design a solid-state lithium-ion battery cell and pack that facilitates easy repair, repurposing, and automated disassembly of the pack and cell without shredding.
- q. Manara Materials LLC, \$200,000. The goal of this project is to demonstrate an environmentally-friendly method of recovering over 99% of high-purity nickel and vanadium from California's spent catalyst oil refinery waste.

#### **14. Lead Commissioner and Presiding Member Reports.**

Lead commissioners on policy matters and presiding members on delegated committees may report to the CEC on relevant matters and discussion may follow.

#### **15. Executive Director's Report.**

#### **16. Public Advisor's Report.**

#### **17. Chief Counsel's Report.**

- a. Pursuant to Government Code section 11126(a)(1), the CEC may adjourn to closed session with its legal counsel to consider the appointment, employment, evaluation of performance, or dismissal of a public employee or to hear complaints or charges brought against that employee by another person or employee.
- b. Pursuant to Government Code section 11126(e)(1), the CEC may adjourn to closed session with its legal counsel to discuss the following pending litigation:
  - i. Shasta County and Pit River Tribe, et al. vs. California Energy Commission (Shasta County Superior Court, Case No. 23CV-0203737).
  - ii. California Fuels and Convenience Alliance v. California Energy Commission, et al. (Sacramento Superior Court, Case No. 24WM000058).
  - iii. Ernest Vardanyan v. City of Burbank, et al. (Los Angeles Superior Court, Case No. 24NNCV04047).
- c. Pursuant to Government Code section 11126(c)(3), Commissioners may adjourn to closed session to deliberate on a decision to be reached in the following proceedings the state body is required by law to conduct:
  - i. Morton Bay Geothermal Project, Docket 23-AFC-01
  - ii. Elmore North Geothermal Project, Docket 23-AFC-02
  - iii. Black Rock Geothermal Project, Docket 23-AFC-03

- d. Pursuant to Government Code section 11126(e), the CEC may also discuss any judicial or administrative proceeding that was formally initiated after this agenda was published; or determine whether facts and circumstances exist that warrant the initiation of litigation, or that constitute a significant exposure to litigation against the CEC, which might include personnel matters.

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<https://energy.zoom.us/j/93869230237?pwd=Zm96c09ULzdXTjd4eldtUXdnUGErDz09>.

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Public comments are welcomed at the business meeting during announced times. Comments may 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 the 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.

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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)