

DOCKETED

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Project Title:	2024 Business Meeting Agendas, Transcripts, Minutes, and Public Comments
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**California Energy Commission
Business Meeting Agenda
February 14, 2024
10:00 a.m. to 3:00 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 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).

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](https://www.energy.ca.gov/proceedings/business-meetings) for more information and materials 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. Tribal Consultation Policy. Proposed resolution making ministerial revisions to the CEC Tribal Consultation Policy. The revised CEC Tribal Consultation Policy will allow the Lead Commissioner for Tribal Affairs, or the Chair if no lead is assigned, to designate the CEC Tribal Liaison. Contact: Mona Badie.
- b. National Energy Management Institution Committee (NEMIC) Amendment to Provider Application. Proposed order approving NEMIC's proposed amendment to its Acceptance Test Technician Certification Provider (ATTCP) application in compliance with the *2022 Building Energy Efficiency Standards*. The proposed amendment would remove a third party quality assurance audit firm, streamline quality assurance audit procedures, and declare the use of NEMIC's ATTCP database for its program. Contact: Cheng Moua.
- c. California Clean Energy Fund dba CALCEF Ventures. Proposed resolution approving six grants totaling \$3,000,000 from the Electric Program Investment Charge (EPIC) program's California Sustainable Energy Entrepreneur Development (CalSEED) Initiative 2023 Prototype Award Competition, and adopting staff's determination that this action is exempt from the California Environmental Quality Act (CEQA). These grant awards are for \$500,000 each. (EPIC Funding) Contact: Ayat Osman
 - i. Community Energy Labs, Inc. Piloting a Grid-interactive, Autonomous, Clean Energy Building Control System at School Campuses, Tanya Barham, \$500,000. This project will develop a grid-interactive, autonomous clean energy building control system for small to mid-sized commercial building operators. The lower-cost system will be faster and easier to install and autonomously manage complex energy and building performance objectives within the comfort bounds set by operators.
 - ii. Tyfast Energy Corp., Building High-Performance Lithium-ion Batteries (LIBs) to Obsolete Diesel in Heavy Duty, Construction and Military Vehicle Applications, G.J. la O', \$500,000. This project will scale up a vanadium-based anode lithium-ion battery to a five amp-hour pouch cell. The proprietary vanadium-based anode replaces standard graphite anodes to deliver sub ten-minute fast charging and 10 times more cycle life (greater than 10,000 cycles) and can charge in below-freezing temperatures.
 - iii. Solvari, Demonstrating Automated Assembly of a Ready-to-Install All-in-One Residential Solar Panel, Samuel Truthseeker, \$500,000. This project will verify and certify a solar photovoltaic system that installs four times faster and is 25 percent cheaper than what is available. The all-in-one, single solar panels ship directly to the installation site and can be installed using a single common household tool by any labor skill level, resulting in a 50 percent reduction in operation and installation costs.
 - iv. Ariya Energy, Prototyping a Low-Cost, Next Level Zinc Battery for Stationary Storage, Arthur Kariya, \$500,000. This project will further develop a water and zinc-based low-cost, non-flammable battery for stationary storage with a membrane-less design and unique electrochemistry to inhibit the growth of

the dendrites, unlike other low-cost zinc-based batteries.

- v. Aeromutable Corporation, Demonstrating a Real-Time Aerodynamic Modification Technology to Improve Energy Efficiency for the Trucking Industry, Sandra Manosalvas-Kjono, \$500,000. This project will build and test a real-time software-adjusted aerodynamic modification technology for the trucking industry with an add-on device to improve energy efficiency by up to 16 percent. The technology will change the aerodynamic signature of a tractor trailer to reduce energy consumption and emissions by injecting air to optimize energy consumption.
- vi. Climformatics Inc., Energy Utilities Decision Support Tool: Highly Accurate Localized Near-to-Long Term Prediction of Extreme Weather Events, Subarna Bhattacharyya, \$500,000. This project will further develop a machine learning technology that uses climate data to predict localized near-to long-term extreme climate, fire weather, solar power, and net load up to a year in advance. The platform offers a decision-making tool that combines weather forecasting with energy distribution models to bridge the gap between short-term weather and long-term climate modeling to make energy supply and shut-off decisions.
- d. The Leland Stanford Junior University (Stanford). Proposed resolution approving agreement 300-23-001, a sole source contract with The Leland Stanford Junior University for \$550,000. Stanford will support technical synthesis of ERDD-funded applied research to inform analytical and policy initiatives such as the Energy Assessments Division's California Energy Demand Forecast, Senate Bill (SB) 100 (De Leon, 2018) activities, CEC's participation in the Joint Agency Steering Committee, CEC's Order Instituting Informational Proceeding on Gas System Decarbonization, and the activities related to the Integrated Energy Policy Report. Stanford will also serve as a technical resource and strategic advisor to support the use of research insights in energy policy and decision-making. (EPIC and Gas R&D Funding) Contact: Susan Wilhelm.
- e. StratosFuel, Inc. Proposed resolution approving agreement ZVI-23-008 with StratosFuel, Inc. for a \$4,000,000 grant to develop and demonstrate an innovative and cost-effective hydrogen refueling station, and adopting staff's determination that this action is exempt from CEQA. The proposed hydrogen refueling station in Victorville will be fed by a new hydrogen pipeline from an adjacent renewable hydrogen plant to support emerging medium- and heavy-duty on-road vehicle applications. (General Fund Funding) Contact: Andrew Alvarez
- f. California Employment Training Panel. Proposed resolution approving interagency agreement 600-23-007 for a \$3,000,000 contract to provide training and certification of electricians as part of the Electric Vehicle Infrastructure Training Program (EVITP), and adopting staff's determination that this action is exempt from CEQA. The agreement will increase the number of EVITP certified electricians available to meet the growing demand for electric vehicle charging

infrastructure. (Clean Transportation Program Funding) Contact: Jana McKinny

- g. Sacramento Municipal Utility District (SMUD). Proposed resolution approving agreement ZVI-23-010 with SMUD for a \$2,812,421 grant to deploy at least 15 direct current fast chargers to support the Sacramento region's access to charging infrastructure for high mileage on-demand transportation services, car sharing enterprises, car rental agencies, and the public, and adopting staff's determination that this action is exempt from CEQA. (General Fund Funding) Contact: Matthew Jumps

4. Information Item – Independent Consumer Fuels Advisory Committee (ICFAC) Roles and Responsibilities (Docket No. 23-ICFAC-01)

Staff will present the Roles and Responsibilities document for the ICFAC. The ICFAC was created pursuant to SB X1-2 (Stats. 2023, 1st Ex Sess. 2023, ch. 1) to provide expert advice and insight to the CEC regarding the factors, conditions, and impacts of petroleum market price fluctuations. The CEC has delegated the authority to prescribe the ICFAC's duties, organization, and schedule of meetings to the Executive Director. The Roles and Responsibilities detail the organization, meetings, attendance requirements, and other necessary information for the ICFAC. Contact: Jeremy Smith (Staff Presentation: 5 minutes)

5. Emergency Rulemaking Adopting Revised SBX1-2 Spot Market Reporting Requirements (Docket No. 23-OIR-03).

Proposed resolution adopting amendments to CCR, title 20, including amendments to sections 1362.2, 1364, and 1366, and the addition of Appendix D in Article 3 of Chapter 3, to implement revisions to the SBX1-2 requirements for spot market transaction reporting set forth in Public Resources Code section 25354(l). The resolution also adopts staff's determination that this action is exempt from CEQA. Public Resources Code section 25367 provides for the adoption of these regulations as emergency regulations. Contact: Jeremy Smith (Staff Presentation: 5 minutes)

6. Order Instituting Informational Proceeding (OIIP) (Docket No. 24-OIIP-02)

Proposed OIIP to authorize the lead commissioner and executive director to gather and assess information focused on the Lithium Valley Vision and California's Lithium Economy. The OIIP will engage state, federal, and local agencies, and stakeholders in planning for a lithium ecosystem in the Salton Sea region. One focus of the OIIP is to assess progress in implementing recommendations from The Blue Ribbon Commission on Lithium Extraction in California Report. CEC staff will use the input received through this OIIP to develop a strategic plan for the Lithium Valley. Contact: Erik Stokes (Staff Presentation: 5 minutes)

7. California Energy Demand 2023-2040 Forecast of Electricity and Gas Consumption.

Proposed resolution adopting the California Energy Demand 2023-2040 Forecast of Electricity and Gas Consumption, as well as Hourly and Peak Electricity Demand for

California and for Certain Utility Planning Areas within California. The forecast includes estimates of achievable energy efficiency, fuel substitution, and transportation electrification to provide managed forecast scenarios. The adopted forecast will be used in planning processes, including the California Independent System Operator's transmission planning and the California Public Utilities Commission's integrated resource and distribution planning. Contact: Nick Fugate (Staff Presentation: 10 minutes)

8. 2023 Integrated Energy Policy Report (Docket No. 23-IEPR-01)

Proposed resolution adopting the 2023 Integrated Energy Policy Report (2023 IEPR) and adopting staff's determination that this is not a project under CEQA or, in the alternative, if deemed to be a project that it is exempt. The CEC is required to prepare a biennial integrated energy policy report that assesses major energy trends and forecasts, and issues facing the state's electricity, natural gas, and transportation fuel sectors. The report provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety. Contact: Heather Raitt (Staff Presentation: 15 minutes)

9. CalCERTS Application to Register Low-rise Multifamily Projects for 2022 Energy Code Compliance

Proposed order to (1) recertify CalCERTS as a Home Energy Rating System provider, and (2) approve the CalCERTS application to modify its residential data registry to incorporate low-rise multifamily projects for compliance with the 2022 Building Energy Efficiency Standards. Contact: Armando Ramirez (Staff Presentation: 5 minutes)

10. Convenient, High-Visibility, Low-Cost Level 2 Charging (Chill-2) - GFO-22-610.

This solicitation sought proposals for projects to improve public awareness and confidence in Level-2 charging access through high-density, high-visibility installations and demonstrate replicable and scalable business and technology models to deploy Level 2 electric vehicle chargers. This item includes two projects totaling \$10,455,506 (Clean Transportation Funding) Contact: Sara Sanders (Staff Presentation: 10 minutes)

- a. Eneridge Inc. Proposed resolution approving agreement ARV-23-002 with Eneridge Inc. for a \$4,627,904 grant to install at least 400 19.2kW high-speed Level 2 charging ports at 13 sites in Irvine to enhance perception of Level 2 charging access and test and demonstrate business models through high-density Level 2 charger installations, and adopting staff's determination that this action is exempt from CEQA.

- b. FlashParking, Inc. Proposed resolution approving agreement ARV-23-003 with FlashParking, Inc. for a \$5,827,602 grant to install at least 446 Level 2 electric vehicle charging ports and two battery energy storage systems across 14 sites in downtown Oakland, and adopting staff's determination that this action is exempt from CEQA. This project will provide highly visible charging to Oakland's downtown community to enhance driver confidence in locating Level 2 chargers.

11. California Pollution Control Financing Authority.

Proposed resolution approving interagency agreement 600-23-008 with the California Pollution Control Financing Authority (CPCFA) for a \$5,000,000 contract to establish a loan loss reserve account for the construction of zero-emission medium- and heavy-duty (MDHD) vehicle charging and fueling infrastructure, participation in CPCFA's California Capital Access Program (CalCAP) as an Independent Contributor and adopting staff's determination that this action is exempt from CEQA. Under CalCAP, the CEC will offer loan loss reserve contributions as a credit enhancement to participating financial institutions that enroll qualified loans for zero-emission MDHD charging and fueling infrastructure. The pilot project will be administered in coordination with the California Air Resources Board, who will provide funding through CPCFA for the zero-emission MDHD vehicles. (Clean Transportation Program Funds) Contact: Marc Perry (Staff Presentation: 5 minutes)

12. California Department of Transportation.

Proposed resolution approving interagency agreement RMB600-23-009 for Caltrans to provide up to \$60,418,469 to the CEC to administer California's Electric Vehicle Charger Reliability and Accessibility Accelerator (EVC RAA) Program, and adopting staff's determination that this action is exempt from CEQA. The CEC will provide \$483,532 in match funds for the EVC RAA Program and will work with Caltrans to ensure charging infrastructure investments are strategic, coordinated, efficient, and equitable while meeting applicable laws and regulations. (Federal EVC RAA Funding, CTP Match Funding) Contact: Ben De Alba (Staff Presentation: 5 minutes)

13. BYD Coach & Bus LLC dba RIDE Coach & Bus (RIDE).

Proposed resolution adopting CEQA findings for RIDE (Real Innovation Delivered with Excellence) Battery Electric School Bus Manufacturing Facility, and approving agreement ZVI-23-009 with RIDE (General Fund Funding) Contact: Pilar Magaña (Staff Presentation: 5 minutes)

- a. CEQA. Findings based on the lead agency Lancaster Planning Commission's (LPC) Initial Study and Mitigated Negative Declaration (IS/MND, SCH# 2023100285), and Mitigation Monitoring and Reporting Program approved by LPC on November 13, 2023, through General Plan Amendment No. 17-007, Zone Change No. 17-006, work under the project presents no new or substantially more severe environmental impacts beyond those already considered and mitigated; and that following LPC's adoption of the IS/MND, none of the circumstances within CCR, title 14, section 15162 are present.

- b. RIDE Battery Electric School Bus Manufacturing Facility. Proposed resolution approving agreement ZVI-23-009 with RIDE for a \$30,000,000 grant for the construction of a manufacturing facility in Lancaster to produce battery-electric powered school buses. At full capacity, the manufacturing facility will be capable of producing up to 4,000 battery-electric school buses annually.

14. 2023–2024 Investment Plan Update for the Clean Transportation Program.

Proposed resolution approving the 2023–2024 Investment Plan Update for the Clean Transportation Program, and adopting staff's determination that this is not a project under CEQA or, in the alternative, if deemed to be a project that it is exempt. The program plays an important role in achieving California's ambitious goals on climate change, air quality, petroleum reduction, and adoption of zero-emission vehicles. The annual Investment Plan Update determines program priorities, describes how funding will complement existing public and private efforts and serves as a guide for funding decisions. Contact: Benjamin Tuggy (Staff Presentation: 15 minutes)

15. Assembly Bill 2127 Second Electric Vehicle Charging Infrastructure Assessment.

Proposed resolution approving the Assembly Bill 2127 Second Electric Vehicle Charging Infrastructure Assessment Revised Staff Report, and adopting staff's determination that this is not a project under CEQA or, in the alternative, if deemed to be a project that it is exempt. Assembly Bill 2127 (Ting, Chapter 365, Statutes of 2018) requires the CEC to publish a biennial report assessing California's electric vehicle charging infrastructure needs to support the state's zero-emission vehicle goals. The report examines the charging needs to support California's plug-in electric vehicles (PEVs) in 2030 and 2035. Report analysis projects that California will need 1 million chargers to support 7.1 million light-duty PEVs in 2030 and 2.1 million chargers to support 15.2 million light-duty PEVs in 2035. To support medium- and heavy-duty PEVs, California will need about 115,000 chargers for 155,000 vehicles in 2030, and 264,000 chargers for 377,000 vehicles in 2035. In addition, the report discusses the relationship between charging and the grid and workforce training and development. Contact: Adam Davis (Staff Presentation: 10 minutes)

16. Department of the Air Force.

Proposed resolution approving a Memorandum of Understanding (MOU) (MOU-23-002) between CEC and the Department of the Air Force. The MOU fosters collaboration between the participants on energy issues of mutual interest in support of each organization's respective goals in the areas of energy assurance and resilience, climate initiatives, greenhouse gas reduction, fossil fuel reduction, energy efficiency, renewable energy, and zero-emission vehicles. No funds will be committed by either the CEC or the Department of the Air Force under the MOU. Contact: Mike Gravely (Staff Presentation: 5 minutes)

17. Minutes.

Possible approval of the January 24, 2024, Business Meeting minutes.

18. 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.

19. Executive Director's Report.

20. Public Advisor's Report.

21. 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. State of California Department of Industrial Relations Division of Labor Standards Enforcement Legal Section: In the Matter of the Request for Appeal from Citation Issued Against: California Energy Commission; Anheuser-Busch, LLC, Respondents, State Case Number: 48-76293.
 - iii. Nuclear Regulatory Commission: License Renewal Application, Pacific Gas and Electric Company, Diablo Canyon Nuclear Power Plant, Units 1 and 2 (NRC2023-0192).

In-Person Instructions

Visitors to the NRHQ 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 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.

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. 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)