



**JANUARY 25, 2021**  
**10 a.m.**

Instructions for remote participation can be found below and by clicking [here](#).

The California Energy Commission's (CEC) January 25, 2021 Business Meeting will be held remotely, consistent with Executive Orders N-25-20 and N-29-20 and the recommendations from the California Department of Public Health to encourage physical distancing to slow the spread of COVID-19. The public may participate consistent with the direction in these Executive Orders.

Pursuant to California Code of Regulations Title 20 section 1104(e), any person may make 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 general 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. **THE SOLAR FOUNDATION.** Proposed resolution approving Agreement 200-20-013 with The Solar Foundation for a \$5,000 sponsorship contract to support the research and implementation of the 2020 National Solar Jobs Census, including California-specific data. (ERPA funding) Contact: Michael Poe.
- b. **SACRAMENTO MUNICIPAL UTILITY DISTRICT (20-EPS-01).** Consideration and possible adoption of proposed order approving the Executive Director's recommendation that the Sacramento Municipal Utility District's Power Purchase Agreement with Roseburg Forest Products Co. for the procurement of bioenergy from the Weed Cogeneration Plant 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.
- c. **EVERGREEN ECONOMICS, INC.** Proposed resolution approving Amendment #1 to Agreement 400-19-002 with Evergreen Economics, Inc. for a \$45,000 budget augmentation. This augmentation would allow the maximum number of Standardized Regulatory Impact Assessment (SRIA) reports produced to

increase from 9 to 12. Amendment #1 also includes expanded details on "knowledge transfer" tasks involved with the development of each SRIA. (COIA funding) Contact: Carlos Baez.

- d. UNIVERSITY OF CALIFORNIA, BERKELEY, ENERGY INSTITUTE AT HAAS SCHOOL OF BUSINESS. Proposed resolution approving Agreement 800-20-002 with University of California, Berkeley, Energy Institute at Haas School of Business for a \$12,500 contract to co-sponsor the 2021 POWER Conference on Energy Research and Policy in Berkeley on March 16-19, 2021, and adopting staff's determination that this item is exempt from CEQA. The 2021 POWER Conference will be the 26th annual conference focusing on electricity markets and systems. (ERPA funding) Contact: Lynn Marshall.

## **2. Janea A. Scott.**

Proposed resolution recognizing and commending Vice Chair Scott for her leadership at the CEC and for the contributions she has made in advancing California's equitable and clean energy policies. Contact: Rhetta DeMesa. (Staff Presentation: 5 minutes)

## **3. California Energy Demand Forecast Update, 2020-2030.**

Proposed resolution adopting the *California Energy Demand 2020-2030 Forecast Update*. This update to the previously adopted electricity demand forecast incorporates an additional year of historical data, more recent economic and demographic outlooks, and revised vehicle electrification, self-generation and battery storage forecasts. The forecast update also includes revised hourly and monthly peak electricity demand for the California Independent System Operator control area. If adopted, the forecast update would be used in various planning processes, including the California Independent System Operator's transmission planning studies and the California Public Utilities Commission's Integrated Resource Plan. Contact: Nick Fugate. (Staff presentation: 15 minutes)

## **4. Redwood Energy.**

Proposed resolution approving Agreement EPC-20-004 with Redwood Energy for a \$2,043,755 grant to demonstrate an advanced heat pump water heater load control technology that will achieve load flexibility for central water heating systems in multifamily buildings, and adopting staff's determination that this action is exempt from CEQA. (EPIC funding) Contact: Kadir Bedir. (Staff presentation: 5 minutes)

## **5. Climate Scenarios and Analytics to Support Electricity Sector Vulnerability Assessment and Resiliency Planning – GFO-19-311.**

The purpose of this solicitation was to support the development of next-generation climate projections for California's Climate Change Assessments and delivery of data in a manner that informs the energy sector planning and research through stakeholder engagement, data analytics, and development of a data platform. (EPIC funding) Contact: Alex Horangic. (Staff presentation: 5 minutes)

- a. THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, ON BEHALF OF THE SAN DIEGO CAMPUS'S SCRIPPS INSTITUTION OF

OCEANOGRAPHY. Proposed resolution approving Agreement EPC-20-006 with The Regents of the University of California, on behalf of the San Diego Campus's Scripps Institution of Oceanography, for a \$1,500,000 grant to develop the next generation of downscaled climate projections, guided by stakeholder engagement, to support electricity sector resilience by informing energy sector planning and research, and adopting staff's determination that this action is exempt from CEQA.

- b. EAGLE ROCK ANALYTICS. Proposed resolution approving Agreement EPC-20-007 with Eagle Rock Analytics for a \$3,500,000 grant to develop a stakeholder-informed, state-of-the-art climate data platform, generating actionable, user-informed climate data and analytics tailored for electricity sector climate adaptation and resilience planning, and adopting staff's determination that this action is exempt from CEQA.

#### **6. Energy Conservation Assistance Act-Education Subaccount (ECAA-Ed) Competitive Loan Program – PON-19-101.**

Proposed resolutions approving 13 ECAA-Ed loans to local educational agencies (LEAs) at zero percent interest to finance energy efficiency and renewable energy projects. Program Opportunity Notice 19-101 evaluated applications from LEAs on a competitive basis based on priority criteria: number of students, geographic region, percent of students eligible for free or reduced-price meals, and energy savings. (Clean Energy Job Creation Fund) Contact: Camille Remy-Obad. (Staff presentation: 5 minutes)

- a. Proposed resolution approving Agreement 015-20-ECG with the South Bay Union School District for a \$257,600 zero percent interest loan to install a 70 kW roof-mounted solar photovoltaic (PV) array and retrofit exterior lighting fixtures with energy efficient LEDs at the Pine Hill Elementary School, and adopting staff's determination that this action is exempt from CEQA. The proposed solar project is estimated to generate 90,050 kWh of electricity and the lighting measure is estimated to save 6,544 kWh, resulting in a combined annual energy cost savings of \$23,191.
- b. Proposed resolution approving Agreement 014-20-ECG with the Redwood Coast Montessori School for a \$125,600 zero percent interest loan to install a 10 kW roof-mounted solar PV array and replace seven propane furnaces with energy efficient heat pumps at the Redwood Coast Montessori School, and adopting staff's determination that this action is exempt from CEQA. The proposed project is estimated to generate 12,632 kWh of electricity and save 3,012 gallons of propane, resulting in an annual energy cost savings of \$9,371.
- c. Proposed resolution approving Agreement 012-20-ECG with the Pacific Union School District for a \$437,343 zero percent interest loan to install a 125kW roof-mounted solar PV array at the Pacific Union School and adopting staff's determination that this action is exempt from CEQA. The proposed solar project is estimated to generate 148,593 kWh of electricity, resulting in an annual energy cost savings of \$25,984.

- d. Proposed resolution approving Agreement 013-20-ECG with the Pierce Joint Unified School District for a \$1,974,850 zero percent interest loan to install three carport-mounted solar PV arrays, totaling 256 kW, at Pierce High School, and adopting staff's determination that this action is exempt from CEQA. The proposed solar project is estimated to generate 430,700 kWh of electricity, resulting in an annual energy cost savings of \$105,522.
- e. Proposed resolution approving Agreement 003-20-ECG with the Buttonwillow Union Elementary School District for a \$792,352 zero percent interest loan to install a 132kW ground-mounted solar PV shade structure at the Buttonwillow Elementary School and adopting staff's determination that this action is exempt from CEQA. The proposed project is estimated to generate 275,373 kWh of electricity, resulting in an annual energy cost savings of \$60,693.
- f. Proposed resolution approving Agreement 004-20-ECG with the Chualar Union School District for a \$599,427 zero percent interest loan to install a 98.3 kW ground-mounted solar PV shade structure at the Chualar Union Elementary School and adopting staff's determination that this action is exempt from CEQA. The proposed project is estimated to generate 159,200 kWh of electricity, resulting in an annual energy cost savings of \$30,583.
- g. Proposed resolution approving Agreement 005-20-ECG with the Golden Valley Unified School District for a \$1,712,180 zero percent interest loan to install various energy efficient devices at the District Office, Liberty High School, Ranchos Middle School, and Webster Elementary School, and adopting staff's determination that this action is exempt from CEQA. This project will: (1) upgrade existing interior lighting (mostly fluorescent lighting) to high efficiency LED lighting at all four sites, (2) install a plug load management system at all four sites, and (3) upgrade HVAC controls at two sites. The proposed project is estimated to save 732,572 kWh of electricity resulting in an annual energy cost savings of \$134,745.
- h. Proposed resolution approving Agreement 006-20-ECG with the Hanford Elementary School District for a \$2,473,151 zero percent interest loan to install a total of 522 kW ground-mounted shade structure solar PV systems at Monroe, Joseph Simas, and Martin Luther King Jr Elementary Schools, and adopting staff's determination that this action is exempt from CEQA. The proposed project is estimated to generate 1,066,112 kWh of electricity, resulting in an annual energy cost savings of \$140,082.
- i. Proposed resolution approving Agreement 007-20-ECG with the Pixley Union Elementary School for a \$1,465,747 zero percent interest loan to install a 396 kW ground-mounted solar PV systems to serve both Pixley Elementary School and Pixley Middle School, and adopting staff's determination that this action is exempt from CEQA. The proposed project is estimated to generate 840,727 kWh of electricity, resulting in an annual energy cost savings of \$115,559.
- j. Proposed resolution approving Agreement 008-20-ECG with the Upland Unified School District for a \$2,987,865 zero percent interest loan for the installation of open-rack ground-mounted carport solar PV systems totaling 892 kW at five separate school sites, and adopting staff's determination that this action is

- exempt from CEQA. The proposed project is estimated to generate 1,523,011 kWh of electricity, resulting in an annual energy cost savings of \$171,563.
- k. Proposed resolution approving Agreement 010-20-ECG with Provisional Accelerated Learning Academy for a \$238,028 zero percent interest loan to install a 51.705 kW PV array at Provisional Accelerated Learning Academy, a school in San Bernardino, California, and adopting staff's determination that this action is exempt from CEQA. The proposed project is estimated to generate 94,491 kWh of electricity, resulting in an annual energy cost savings of \$19,371.
  - l. Proposed resolution approving Agreement 011-20-ECG with School of Arts and Enterprise for a \$610,822 zero percent interest loan to install a 65.239 kW PV array on the rooftop of the high school and a 96.123 kW PV array on the rooftop of the junior high school, and adopting staff's determination that this action is exempt from is CEQA. The proposed project is estimated to generate 294,889 kWh of electricity, resulting in an annual energy cost savings of \$71,408.
  - m. Proposed resolution approving Agreement 009-20-ECG with Palo Verde Unified School District for a \$2,981,800 zero percent interest loan to install a 582 kW carport PV array at Palo Verde High School and a 295 kW carport PV array at Felix J. Appleby Elementary School, and adopting staff's determination that this action is exempt from CEQA. The proposed project is estimated to generate 1,547,148 kWh of electricity resulting in an annual energy cost savings of \$215,339.

## **7. Local Ordinance Application (19-BSTD-06).**

Possible approval of resolutions to approve five applications submitted by local jurisdictions for energy ordinances that exceed the energy efficiency requirements of the 2019 Energy Code (Title 24, Part 6). Contact: Danuta Drozdowicz. (Staff presentation: 5 minutes)

- a. CITY OF CAMPBELL. New ordinance requiring that newly constructed residential building units use electricity for space and water heating with natural gas permitted for cooking appliances and fireplaces.
- b. CITY OF MILLBRAE. New ordinance requiring that newly constructed buildings are all-electric with natural gas permitted for cooking appliances and fireplaces in low-rise residential units and exceptions allowed for applications such as commercial kitchens and laboratories in nonresidential buildings. Photovoltaic systems are required on all new buildings and prewiring for electric appliances is required where gas appliances are installed.
- c. CITY OF SUNNYVALE. New ordinance requiring that newly constructed buildings and substantial renovations and additions are all-electric with exceptions allowed for applications such as emergency centers and commercial kitchens. Photovoltaic systems are required on all new buildings and prewiring for electric appliances is required where gas appliances are installed.

- d. CITY OF CHULA VISTA. New ordinance requiring that homes and condominiums built prior to 2006 implement prescriptive or performance-based energy efficiency improvements when adding to or remodeling the building.
- e. CITY OF LOS ALTOS. New ordinance requiring that accessory dwelling and low-rise residential units are all-electric with natural gas allowed for cooking appliances and fireplaces. New nonresidential and multifamily buildings are required to be all-electric with exceptions allowed for applications such as laboratories and commercial kitchens. Prewiring for electric appliances is required where gas appliances are installed.

**8. Report from Committee and Possible Additional Direction to Committee Regarding Progress on Small Power Plant Exemption Application for the Sequoia Backup Generating Facility (19-SPPE-03).**

C1-Santa Clara, LLC filed an application for a small power plant exemption (application) that proposes to construct and operate the Sequoia Backup Generating Facility, consisting of 54 diesel-fired backup generators to provide an uninterrupted power supply to the Sequoia Data Center during interruptions of the electrical supply. On November 16, 2020, the CEC voted to affirm a prior order remanding the matter to the Committee appointed to conduct proceedings on the Application. As part of the order remanding the proceeding, the CEC directed the Committee to report at the January 2021 business meeting on progress made in resolving the remaining issues. After receiving the report from the Committee, the CEC may provide additional direction to the Committee on the conduct of the proceedings. Contact: Susan Cochran. (No formal Staff presentation)

- a. Possible closed session deliberation on the above described SPPE. Government Code Section 11126(c)(3).

**9. Minutes.**

Possible approval of the December 22, 2020 business meeting minutes.

**10. 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.

**11. Executive Director's Report.**

**12. Public Advisor's Report.**

**13. Public Comment.**

Pursuant to California Code of Regulations Title 20 section 1104(e), any person may make 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.

#### 14. Chief Counsel's Report.

- a. 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. *In the Matter of U.S. Department of Energy (High Level Waste Repository)*, (Atomic Safety Licensing Board, CAB-04, 63-001-HLW); *State of California v. United States Department of Energy* (9th Cir. Docket No. 09-71014).
  - ii. *Communities for a Better Environment and Center for Biological Diversity v. Energy Resources Conservation and Development Commission, and California State Controller* (Alameda County Superior Court, Case No. RG13681262).
  - iii. *State Energy Resources Conservation and Development Commission v. Electricore, Inc. and ZeroTruck* (Sacramento County Superior Court, Case No. 34-2016-00204586).
  - iv. *Natural Resources Defense Council, Inc., et al. v. United States Department of Energy* (Federal District Court, Northern District of California, Case No. 17-cv-03404).
  - v. *In re: PG&E Corporation and in re: Pacific Gas and Electric Company* (United States Bankruptcy Court, Northern District of California, San Francisco Division, Case No. 19-30088).
  - vi. *State Energy Resources Conservation and Development Commission v. HyGen Industries, Inc* (Sacramento County Superior Court, Case No. 34-2019-00252543).
  - vii. *Olson-Ecologic Testing Laboratories, LLC v. CEC*. (Orange County Superior Court, Case No. 30-2019-01115513).
  - viii. *Interlink Products International, Inc. v. Xavier Becerra, Drew Bohan, Melissa Rae King* (United States District Court for the District of New Jersey, Case No. 2:20-cv-10566).
  - ix. *Southern California Gas Company v. California State Energy Resources Conservation and Development Commission* (Orange County Superior Court, Case No. 30-2020-01152336-CU-WM-CXC).
- b. Pursuant to Government Code sections 11126 (a) and (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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#### Remote Attendance Instructions.

**Zoom: Click the address below to view and listen via Zoom.** Public comments cannot be made 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 listen only via Zoom, dial (669) 900-6833 or (888) 475-4499 (toll free) and enter meeting ID **938-69230237**. For Zoom technical support dial (888) 799-9666 ext. 2, or contact the CEC's Public Advisor's Office for help at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov) or (800) 822-6228.

**Verizon: To participate by telephone and provide public comment**, call the CEC's Verizon line at (888) 823-5065 on January 25, 2021, after 9:50 a.m. (Pacific Time). Enter the passcode **business meeting**. To make public comment about a specific item, 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. To avoid audio feedback, mute Zoom or do not join Zoom when calling via Verizon.

**Public Advisor Assistance.** Direct questions about how to participate in the business meeting or to request interpreting services or other reasonable accommodations to the Public Advisor's Office at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov), by phone at (916) 654-4489 or toll free at (800) 822-6228. Requests for interpreting services and reasonable accommodations should be made at least five days in advance. 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's Office. Comments submitted after the business meeting starts will be filed in the business meeting docket. The CEC will work diligently to accommodate all requests.

**Direct media inquiries** to (916) 654-4989 or [mediaoffice@energy.ca.gov](mailto:mediaoffice@energy.ca.gov).

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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)