

State of California
California Energy Commission
Minutes of the August 9, 2017, Energy Commission Business Meeting

The meeting was called to order by Chair Weisenmiller. The Pledge of Allegiance was led by Chair Weisenmiller.

Present:

Robert B. Weisenmiller, Chair
Karen Douglas, Commissioner
J. Andrew McAllister, Commissioner

David Hochschild, Commissioner
Janea A. Scott, Commissioner

The Chair announced that Item 2 will be held.

THE COMMISSION WILL CONSIDER AND MAY TAKE ACTION ON THE FOLLOWING ITEMS:

1. CONSENT CALENDAR. (Items on the Consent Calendar 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. SUNFOLDING, INC. Proposed resolution approving Amendment 1 to Agreement EPC-14-025 with Sunfolding, Inc. for a budget reallocation amounting to a total of \$67,737 from materials and travel categories distributed over labor, fringe benefits, indirect overhead, and general and administrative costs, to enable the project team to successfully complete data collection and performance evaluation in accordance with the scope of work and revised project schedule. (EPIC funding) Contact: Silvia Palma-Rojas.
 - b. INTERRA ENERGY, INC. Proposed resolution approving mutual termination of Agreement EPC-14-034 with Interra Energy, Inc., a \$2,000,000 grant to install and demonstrate a modular bioenergy technology. The project faced technological challenges and Interra Energy, Inc. was unable to demonstrate progress towards meeting the requirements of the Agreement. (EPIC funding) Contact: Silvia Palma-Rojas.
 - c. SIERRA INSTITUTE FOR COMMUNITY AND ENVIRONMENT. Proposed resolution approving Amendment 1 to Agreement EPC-14-082 with Sierra Institute for Community and Environment to reduce California Energy Commission funding by \$217,967 and proportionally reduce match funding by \$59,084. The size and scope of this combined heat and power demonstration is being scaled down to serve smaller electrical and thermal loads than originally planned. In addition, the project term is being extended by 17 months until December 31, 2019. (EPIC funding) Contact: Mike Kane.
 - d. REGENTS OF THE UNIVERSITY OF CALIFORNIA, IRVINE. Proposed resolution approving a Purchase Order with the Regents of the University of California, on behalf of the Irvine campus, for \$4,999 to co-sponsor the 9th International Conference on Energy Efficiency in Domestic Appliances and Lighting; and approving use of the California Energy Commission logo in conference advertisements. The conference will take place in Irvine, California on

September 13-15, 2017. The conference provides an opportunity for the Energy Commission to share information about its research program and energy efficiency activities. (EPIC funding) Contact: Bradley Meister.

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 1. The vote was unanimous (5-0).

2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (Staff presentation: 5 minutes)

Item 2 was held. No action taken.

3. MAGNOLIA POWER PROJECT PETITION TO AMEND (01-AFC-06C). Possible approval of an order granting the Southern California Public Power Authority's Petition to Amend the California Energy Commission Decision and errata to allow modifications to the startup and shutdown operation of the Magnolia Power Project, including an increase in startup duration, number of startups and shutdowns, and duct burner operation. Contact: Dale Rundquist. (Staff presentation: 10 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 3. The vote was unanimous (5-0).

4. PALMDALE ENERGY PROJECT PETITION TO AMEND (08-AFC-09C). Contact: Kenneth Celli. (Staff presentation: 5 minutes)
 - a. Consideration and possible approval of an order adopting the Presiding Member's Proposed Decision (PMPD) on the Petition to Amend the Palmdale Energy Project and errata. The Committee issued the PMPD on July 3, 2017. The Amended Palmdale Energy Project is a 645 megawatt power generation facility. The proposed project would be located at 950 East Avenue M in Palmdale, California.
 - b. Possible closed session deliberation on the above described PMPD. [Government Code Section 11126(c)(3)].

Commissioner Douglas moved and Commissioner McAllister seconded approval of Item 4. The vote was unanimous (5-0).

5. PROPOSED ADOPTION OF GUIDELINES FOR PUBLICLY OWNED UTILITY INTEGRATED RESOURCE PLANS. Proposed resolution adopting guidelines and any errata to govern the submission of information, data, and reports needed to support the California Energy Commission's review of publicly owned utilities' integrated resource plans pursuant to SB 350. Contact: Garry O'Neill-Mariscal. (Staff presentation: 10 minutes)

Commissioner Hochschild moved and Commissioner McAllister seconded approval of Item 5. The vote was unanimous (5-0).

6. APPLIANCE ENERGY EFFICIENCY REGULATIONS - AIR FILTER LABELING AND POOL PUMP MOTOR CONSTRUCTION TYPES. Proposed resolution adopting regulations to delay the effective date of testing, certification, and marking requirements for residential air filters for use in forced-air heating or forced-air cooling equipment and to expand the list of permissible motor construction types for residential pool pump motors in Title 20, sections 1602, 1606, and 1607 of the California Code of Regulations. The proposed regulations would make permanent the amendments previously adopted as emergency regulations on March 8, 2017. Contact: Patrick Saxton. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 6. The vote was unanimous (5-0).

7. NEWCOMB ANDERSON MCCORMICK, INC. Proposed resolution approving Agreement EPC-17-014 with Newcomb Anderson McCormick, Inc. for a \$5,000,000 grant to deploy advanced plug load controls and management for computer workstations at more than 30 community colleges to reduce electricity energy use and costs. The project is estimated to cumulatively save approximately 10 GWh or \$850,000 annually at the community college sites. (EPIC funding) Contact: Brad Williams. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Douglas seconded approval of Item 7. The vote was unanimous (5-0).

8. FEDERAL COST SHARE UNDER THE ELECTRIC PROGRAM INVESTMENT CHARGE, PON-14-308. This solicitation sought proposals to provide cost share funding to eligible applicants that apply for and receive an award from eligible Federal Funding Opportunity Announcements (FOAs) and meet the requirements stipulated in this solicitation. (EPIC funding)
 - a. DOE-LAWRENCE BERKELEY NATIONAL LABORATORY. Proposed resolution approving Agreement EPC-17-010 with the US Department of Energy's (DOE) Lawrence Berkeley National Laboratory for a \$125,000 grant. Funding provides cost-share to leverage a \$1,250,000 DOE award to enhance a building envelope heat transfer modeling tool. The MOISTHERM software will integrate both heat and moisture analyses into envelope strategies that support energy efficiency while avoiding perceived and actual health, safety, and durability risks. The updated MOISTHERM software will be available at no cost to building professionals. Contact: Karen Perrin. (Staff presentation: 5 minutes)
 - b. NEVADOS ENGINEERING, INC. Proposed resolution approving Agreement EPC-17-015 with Nevados Engineering, Inc. for a \$999,822 grant. Funding provides cost-share to leverage a \$1,999,644 DOE award to support the development of Nevados' novel Horizontal Single Axis Tracker components which aims to reduce manufacturing costs to enable market entry, and prepare manufacturing facilities for equipment supply. The tracker can fit to sloped and rolling terrains, dramatically reducing construction costs by eliminating the need for grading soil thereby reducing environmental damage and mitigation costs. Contact: Hassan Mohammed. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 8. The vote was unanimous (5-0).

9. DEVELOPMENT, DEMONSTRATION AND DEPLOYMENT OF ENVIRONMENTALLY AND ECONOMICALLY SUSTAINABLE BIOMASS-TO ENERGY SYSTEMS FOR THE FOREST AND FOOD WASTE SECTOR, GFO-15-325. This solicitation sought proposals to fund applied research and development (AR&D) and technology demonstration and deployment (TD&D) activities to advance bioenergy electricity generation. Consistent with the 2015-2017 EPIC Investment Plan and in coordination with the California Public Utilities Commission, the solicitation addresses three bioenergy funding initiatives. This solicitation is also responsive to the Governor's 10-30-2015 Proclamation of a State of Emergency to protect communities against unprecedented tree die-off. (EPIC funding) Contact: Gina Barkalow. (Staff presentation: 5 minutes)

- a. HZIU KOMPOGAS SLO, INC. Proposed resolution adopting California Environmental Quality Act Findings for HZIU Kompogas SLO, Inc. to construct, demonstrate, and operate a community-scale bioenergy facility in San Luis Obispo, and approving grant agreement EPC-17-011 with HZIU Kompogas SLO, Inc.
 - i. CALIFORNIA ENVIRONMENTAL QUALITY ACT FINDINGS. Findings that based on the lead agency, San Luis Obispo's Initial Study, Mitigation Monitoring Program, and approved Mitigated Negative Declaration, the work under the proposed project presents no new significant or substantially more severe environmental impacts beyond those already considered.
 - ii. Proposed resolution approving Agreement EPC-17-011 with HZIU Kompogas SLO, Inc. for a \$4,000,000 grant to develop, demonstrate, and operate an innovative, state-of-the-art, community-scale bioenergy facility designed to convert organic waste from San Luis Obispo County into renewable electricity via anaerobic digestion. The community-scale bioenergy system will utilize local food waste and green waste to create renewable electricity, compost, and liquid fertilizer.
- b. REGENTS OF THE UNIVERSITY OF CALIFORNIA, DAVIS. Proposed resolution approving Agreement EPC-17-016 with the Regents of the University of California, on behalf of the Davis campus for a \$1,222,284 grant to develop an online siting tool that allows users to evaluate economic feasibility of feedstock collection and transportation costs, performance and costs of various biopower technologies and environmental trade-offs of residual woody biomass facilities at particular locations. The project team will perform a case study analysis at multiple locations, with a focus on those in fire hazard severity zones in California.

Commissioner Douglas disclosed that she is a professor at UC Davis King Hall and that UC Davis is involved in Item 9b. Commissioner McAllister disclosed that his wife is a professor at UC Davis King Hall and that UC Davis is involved in Item 9b. Commissioner Douglas moved and Commissioner McAllister seconded approval of Item 9. The vote was unanimous (5-0).

10. LINDE LLC. Proposed resolution approving Amendment 4 to Agreement ARV-14-018 with Linde LLC for a station location change and a 15 month no-cost time extension. The purpose of this grant agreement is to install and operate two hydrogen refueling stations to support the roll out of fuel cell vehicles in California. Linde LLC is requesting to change one of their originally proposed stations, a new station at Oakland Airport, to an upgrade of AC Transit's Emeryville light-duty station. An upgrade would improve station performance to 350kg per day and comply with the standards and fueling protocols under solicitation PON-13-607. (ARFVTP funding) Contact: Andrew Hom.

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 10. The vote was unanimous (5-0).

11. EQUILON ENTERPRISES LLC (DBA SHELL OIL PRODUCTS US). The California Energy Commission is providing capital expense grants to Equilon Enterprises LLC (dba Shell Oil Products US) for the following hydrogen refueling stations to serve the growing number of hydrogen powered zero emission vehicles deployed in California. (ARFVTP funding) Contact: Miki Crowell. (Staff presentation: 5 minutes)
 - a. Proposed resolution approving Agreement ARV-17-001 for a \$2,337,500 grant to develop a hydrogen refueling station at 6141 Greenback Lane, Citrus Heights, CA 95621.

- b. Proposed resolution approving Agreement ARV-17-002 for a \$2,337,500 grant to develop a hydrogen refueling station at 3510 Fair Oaks Boulevard, Sacramento, CA 95864.
- c. Proposed resolution approving Agreement ARV-17-003 for a \$2,337,500 grant to develop a hydrogen refueling station at 1250 University Avenue, Berkeley, CA 94702.
- d. Proposed resolution approving Agreement ARV-17-004 for a \$2,337,500 grant to develop a hydrogen refueling station at 2900 N Main Street, Walnut Creek, CA 94597.
- e. Proposed resolution approving Agreement ARV-17-005 for a \$2,337,500 grant to develop a hydrogen refueling station at 551 Third Street, San Francisco, CA 94107.
- f. Proposed resolution approving Agreement ARV-17-006 for a \$2,337,500 grant to develop a hydrogen refueling station at 1201 Harrison Street, San Francisco, CA 94103.
- g. Proposed resolution approving Agreement ARV-17-007 for a \$2,337,500 grant to develop a hydrogen refueling station at 3550 Mission Street, San Francisco, CA 94110.

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 11. The vote was unanimous (5-0).

12. DISCUSSION OF ENERGY COMMISSION PROGRESS RE IMPLEMENTATION OF THE CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SB 350). Staff presentation regarding progress on implementation of SB 350 requirements, including administration of the California Renewables Portfolio Standard program, review of local publicly owned electric utility integrated resource plans, revision of Commission data collection regulations to improve demand forecasting, identification of progress in meeting the bill's goals of 50% renewables procurement and doubling of energy efficiency, implementation of widespread transportation electrification, and preparation and publication of the study required by Public Resources Code section 25327 regarding barriers for low-income customers to energy efficiency, weatherization, and renewable energy investments. Contact: Michael Sokol. (Staff presentation: 5 minutes)
- a. CLEAN ENERGY EQUITY INDICATORS FOR THE SB 350 LOW-INCOME BARRIERS STUDY, PART A. Presentation regarding status of implementation of Recommendation 5 of the SB 350 Low-Income Barriers Study, Part A - Establish Metrics and Leverage Data to Increase Program Performance. This presentation will address progress on development of energy equity indicators and revision of the May 2017 California Clean Energy Equity Framework and Indicators draft staff report, in preparation for the release of an updated draft report in August 2017. Contact: Akua McLeod. (Staff presentation: 5 minutes)

Staff presented Information Item 12.

13. **Minutes:** Possible approval of the July 12, 2017 Business Meeting minutes.

Commissioner McAllister moved and Commissioner Douglas seconded approval of Item 13. The vote was unanimous (5-0).

14. **Lead Commissioner or Presiding Member Reports.** The Commissioners reported on their recent activities.

15. **Chief Counsel's Report:** The Chief Counsel gave a report. The Chair announced the Commissioners will go into closed session with Legal Counsel pursuant to Government Code Section 11126(e) on the following two items set forth in the agenda: Item 15.
- Energy Commission v. SoloPower, Inc. and SPower, LLC.
 - Alternative and Renewable Fuel and Vehicle Technology Program grant ARV-10-016 with the City of San Jose, including its subcontractor JUM Global, and the lawsuit between the two

The Chair announced the Commission will return to open session at 1:30 PM. Upon returning from closed session with Commissioner Douglas and Commissioner Scott, the Chair announced the Commissioner has authorized Chief Counsels office to take all necessary steps to obtain all funds the Commission is owed under agreement ARV-10-016, including initiation of litigation, with the City of San Jose, including its subcontractor J.U.M. Global. The Chair then announced the meeting is adjourned.

16. **Executive Director's Report.** The Executive Director gave a report.
17. **Public Adviser's Report.** The Public Adviser gave a report.
18. **Public Comment:** None.

Appearances:

(*by telephone)

Gia Vacin, Office of the Governor

*Jennifer Hamilton, California Fuel Cell Partnership

*Steve Ellis, Honda

*Mathew Forest, Mercedes Benz

*Matt McCoory, Toyota

*Frank Messineo, Burbank Power and Water

*Susie Berlin, Northern California Power Agency

Yezin Taha, Nevados Engineering

William Skinner, Hitachi Zosen INOVA

Andrew Martinez, California Air Resources Board

Scott Galati, Palmdale Energy LLC

Justin Wynne, California Municipal Utilities Association

Sarah Taheri, Southern California Public Power Authority

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Claudia Ferro, Environmental Management Professionals, LLC
Krishna Nand, Environmental Management Professionals, LLC
Wayne Leighty, Shell New Energies

There being no further business, the meeting was adjourned.

Respectfully submitted,

Cody Goldthrite

CODY GOLDTHRITE
Secretariat

