

State of California
California Energy Commission
Minutes of the January 25, 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

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. VERDEXCHANGE. Proposed resolution approving a Purchase Order with the Verdexchange, for \$4,999 to co-sponsor the 2017 Verdexchange Conference in Los Angeles, California taking place January 29 - 31, 2017; and approving use of the California Energy Commission logo in co-sponsorship advertisements. (EPIC funding) Contact: Lorraine Gonzalez.
 - b. UNIVERSITY OF CALIFORNIA, BERKELEY. Proposed resolution approving Agreement 800-16-001 with the Regents of the University of California, on behalf of the Berkeley campus's Energy Institute at Haas School of Business for a \$10,000 contract to co-sponsor the 2017 POWER Conference on Energy Research and Policy scheduled in Berkeley, California on March 24, 2017. The 2017 POWER Conference will be the 22nd annual conference focusing on electricity markets and systems. (ERPA funding) Contact: Lynn Marshall.
 - c. UNIVERSITY OF CALIFORNIA, BERKELEY. Proposed resolution approving Amendment 1 to grant Agreement EPC-14-013 with the Regents of the University of California, on behalf of the Berkeley campus to reallocate \$201,801 among budget categories. In the original budget, Student Fee Remissions were incorrectly listed under Fringe Benefits. The reallocation correctly places Student Fee Remissions under Miscellaneous Expenses. No budget increase nor time extension are being requested. (EPIC funding) Contact: Heather Bird.

Commissioner Douglas moved the consent items and Commissioner McAllister seconded. 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. SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY. Proposed order approving the Executive Director's recommendation that the Southern California Public Power Authority's Power Purchase Agreement with Ormesa LLC for the procurement of

geothermal energy from the Ormesa Geothermal Complex Energy Project be found compliant with the Emissions 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. (Staff presentation: 5 minutes)

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

4. PROPOSED ADOPTION OF REVISIONS TO THE RENEWABLES PORTFOLIO STANDARD ELIGIBILITY GUIDEBOOK (RPS GUIDEBOOK, NINTH EDITION). Proposed resolution adopting revisions to the Renewables Portfolio Standard (RPS) Eligibility Guidebook. The revisions are reflected in the RPS Guidebook, Ninth Edition. The RPS Guidebook describes the eligibility requirements and processes for certifying renewable resources as eligible for California's RPS and describes how the Energy Commission will track and verify compliance with the RPS. The RPS Guidebook, Ninth Edition includes revisions required by Senate Bill 350 (De León, Chapter 547, Statutes of 2015), Senate Bill 1393 (De León, Chapter 677, Statutes of 2016), and Energy Commission decisions adopted in 2016. The RPS Guidebook, Ninth Edition also includes additional programmatic changes, including transitioning to the RPS Online System which was developed to streamline the RPS certification application and annual reporting processes. Contact: Camille Remy-Obad. (Staff presentation: 10 minutes)

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

5. RENEWABLES PORTFOLIO STANDARD POU VERIFICATION RESULTS REPORTS. Consideration of a resolution adopting the Renewables Portfolio Standard Verification Results Lead Commissioner Reports (RPS Verification Results Reports) for 42 local publicly owned utilities (POUs) for Compliance Period 1 (2011-2013). The RPS Verification Results Reports were prepared by Energy Commission staff as part of its RPS administrative responsibilities, and include information on the Portfolio Content Category classification of the eligible renewable energy, the procurement target and portfolio balance requirements, optional compliance measures, and additional procurement above requirements. Following adoption of the RPS Verification Results Reports, Energy Commission staff will begin the process to determine POU compliance with RPS requirements for Compliance Period 1 in accordance with the "Enforcement Procedures for the Renewables Portfolio Standard for Local Publicly Owned Electric Utilities." Contact: Theresa Daniels. (Staff presentation: 10 minutes)

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

6. CALIFORNIA ENERGY DEMAND UPDATED FORECAST, 2017-2027. Proposed resolution adopting the California Energy Demand Updated Forecast, 2017-2027. The staff report presents updated baseline forecasts of electricity consumption and peak demand for California and for utility planning areas within the state as well as "managed" forecasts that incorporate additional achievable energy efficiency. The adopted forecast update will be used in a number of planning proceedings, including the California Independent System Operator's transmission planning and the California Public Utilities Commission's long-term procurement planning. Contact: Chris Kavalec. (Staff presentation 15 minutes)

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

7. BRUCE A. WILCOX, P.E. Proposed resolution approving Amendment 1 to contract 400-15-007 with Bruce A. Wilcox, P.E. to (1) add \$250,000 in Air Pollution Control Funds in support of Senate Bill 350, and (2) update invoicing requirements for SB 350 tracking purposes. The contract scope of work currently includes tasks relevant to SB 350 purposes and additional funds will be used to support existing building related Standards development and implementation. (Air Pollution Control Fund) Contact: Adrian Ownby. (Staff presentation: 5 minutes)

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

8. IMPROVING PERFORMANCE AND COST EFFECTIVENESS OF SMALL HYDRO, GEOTHERMAL AND WIND ENERGY TECHNOLOGIES, GFO-16-301. This solicitation sought proposals to fund applied research and development projects to develop advanced technologies and strategies that will help expand California's use of in-conduit hydrokinetic power, improve the cost-effectiveness of geothermal energy generation, and upgrade California's aging wind turbines. The agreements will enable higher penetrations of renewable energy into California's electricity mix. (EPIC funding) Contact: Silvia Palma-Rojas. (Staff presentation: 10 minutes)
 - a. SAN GABRIEL VALLEY WATER COMPANY. Proposed resolution approving Agreement EPC-16-024 with San Gabriel Valley Water Company for a \$500,000 grant to design, develop and demonstrate a modular, cost-effective in-conduit hydroelectric system designed for the sub-100-kW in-conduit hydroelectric market that will decrease the civil, mechanical, electrical and interconnection costs. The project's small, modular "plug and play" in-conduit hydroelectric station will provide a model that can be deployed to many undeveloped, small sub-100 kW in-conduit sites throughout the state.
 - b. STANTEC CONSULTING SERVICES, INC. Proposed resolution approving Agreement EPC-16-025 with Stantec Consulting Services, Inc. for a \$400,000 grant to conduct a comprehensive assessment of in-conduit hydropower generation potential in California and develop a guidebook and a business case assessment tool that will assist municipal, agricultural, and industrial water purveyors in the cost effective implementation of in-conduit hydropower generation projects.

The Chair left the room during the presentation. Commissioner Scott moved and Commissioner McAllister seconded approval of Item 8. The vote was 4-0.

9. 2016 NATURAL GAS ENERGY EFFICIENCY RESEARCH GRANTS FOR RESIDENTIAL AND COMMERCIAL BUILDINGS, GFO-16-502. This solicitation sought proposals to fund research, development, and demonstration projects that focus on improving energy efficiency, reducing natural gas use, and reducing greenhouse gas emissions and other emissions in buildings. Phase 1 specifically targeted projects in the Los Angeles Basin area affected by Aliso Canyon storage facility. (PIER NG funding) Contact: Jeffrey Doll. (Staff presentation: 10 minutes)

- a. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement PIR-16-001 with Institute of Gas Technology dba Gas Technology Institute (GTI) for a \$864,294 grant to fund the demonstration of an advanced gas fired heat pump for commercial hot water and space cooling at two restaurants in the Los Angeles Basin. This technology uses an integrated system for hot water and supplemental air conditioning and could reduce natural gas use for water heating and deliver free cooling to offset air conditioning needs of the restaurants.
- b. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement PIR-16-002 with GTI for a \$750,000 grant to fund field demonstrations and testing of home performance envelope measures coupled with advanced, high-efficiency, low capacity HVAC systems. The project has the potential to reduce natural gas and electricity use in residential heating and air conditioning systems. The measures and HVAC systems will be demonstrated in homes located within the Los Angeles Basin.
- c. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement PIR-16-003 with Institute of Gas Technology dba Gas Technology Institute (GTI) for a \$1,084,230 grant to advance the commercialization of a residential gas-fired heat pump water heater through field demonstrations, extended-life laboratory testing, development of modeling tools, and stakeholder outreach events. The technology will be field tested in homes in the Los Angeles Basin.
- d. ADVANCED MICROGRID SOLUTIONS, INC. Proposed resolution approving Agreement PIR-16-004 with Advanced Microgrid Solutions, Inc. for a \$1,216,707 grant to demonstrate an efficient, advanced air distribution design approach that will reduce natural gas energy use through the real time application of indoor air quality sensor technologies, advanced fault detection and diagnostic software, and monitoring-based commissioning. The technology will be demonstrated at a hospital within the Los Angeles Basin.
- e. ENERGX CONTROLS, INC. Proposed resolution approving Agreement PIR-16-005 with Energx Controls, Inc. for a \$753,605 grant to demonstrate the integration of a high efficiency natural gas engine heat pump with a high efficiency solar thermal evacuated tube collector that could reduce domestic hot water energy use. The project will also demonstrate a hot water controller that could reduce distribution line losses. The project will be demonstrated in an existing residential multifamily building in Los Angeles County.

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 9. The vote was unanimous (5-0).

10. DISCUSSION OF ENERGY COMMISSION PROGRESS RE IMPLEMENTATION OF THE CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (Senate Bill 350).

- a. Staff presentation and Commissioner discussion regarding Energy Commission progress on and planned actions for implementation of Senate Bill 350 requirements, including but not limited to 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)
- b. TRANSPORTATION ELECTRIFICATION UPDATE. Senate Bill 350 calls for widespread transportation electrification across California. In support of this goal, the Energy Commission has recently hosted a number of public workshops and stakeholder meetings to discuss plans for expansion of electric vehicle charging infrastructure and the challenges associated with vehicle-grid integration. Energy Commission representatives have also regularly participated in multi-agency workgroup meetings to exchange information and seek consensus on joint electric transportation analyses. Staff will provide a brief update on these activities. Contact: Tim Olson. (Staff Presentation: 5 minutes)

Staff presented Information Item 10 and the Chair announced that Commissioner Scott will be the Lead Commissioner for Senate Bill 350 Low-Income Barriers Study implementation.

11. **Minutes:** Possible approval of the December 14, 2016 Business Meeting minutes.

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

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

13. **Chief Counsel's Report:** The Chief Counsel gave a report.

14. **Executive Director's Report.** None.

15. **Public Adviser's Report.** None.

16. **Public Comment:** David Greenfader, Envision Solar.

Appearances:

(*by telephone)

David Greenfader, Envision Solar

Pam Seidenman, Advanced Microgrid Solutions

Tanya DeRivi, Southern California Public Power Authority

Lisa McGhee, San Diego Airport Parking Co.

Catherine Hackney, Southern California Edison

Louis Ting, Los Angeles Department of Water and Power

Daniel Velasquez, Imperial Irrigation District

Daniel Hashimi, Southern California Public Power Authority

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There being no further business, the meeting was adjourned.

Respectfully submitted,

Cody Goldthrite

CODY GOLDTHRITE
Secretariat

