

State of California
California Energy Commission
Minutes of the February 15, 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 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. STANFIELD SYSTEMS, INC. Proposed resolution approving Purchase Order #16-409.00-006 for \$183,688 to support and maintain the DynaSim modeling software, which houses the transportation demand forecast models. Technical support will be provided for the underlying database, not changes to the models. (ERPA funding) Contact: Jesse Gage.
 - b. FOURTH WALL EVENTS. Proposed resolution approving a Purchase Order with Fourth Wall Events, for \$4,999 to co-sponsor the 2017 Emerging Technologies Summit in Ontario, California taking place April 19-21, 2017; and approving use of the California Energy Commission logo in co-sponsorship advertisements. The Summit provides an opportunity for the Energy Commission to share information about its research program and energy efficiency activities. (EPIC funding) Contact: Heather Bird.

Commissioner Scott moved the consent items and Commissioner Douglas 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. 2016 INTEGRATED ENERGY POLICY REPORT. Proposed resolution approving "Final Lead Commissioner 2016 Integrated Energy Policy Report Update" (CEC-100-2016-003-CMF). Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the Energy Commission to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and 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 (Public Resources Code § 25301 (a)). The Energy Commission prepares these assessments and associated policy

recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report. Contact: Heather Raitt. (Staff presentation: 15 minutes)

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

4. NV5, INC. Proposed resolution approving Agreement 700-16-003 with NV5, Inc. for a \$0 contract to provide Delegate Chief Building Official (DCBO) services for the Alamitos Energy Center (13-AFC-1) and Huntington Beach Energy Project (12-AFC-02C). NV5, Inc will carry out design review and construction inspections on behalf of the Energy Commission. NV5, Inc. will be compensated by the project owner of the Alamitos Energy Center and Huntington Beach Energy Project for DCBO services. Contact: Joe Douglas. (Staff presentation: 5 minutes)

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

5. DOE – NATIONAL RENEWABLE ENERGY LABORATORY. Proposed resolution approving Amendment 2 to Contract 600-15-001 with the Department of Energy's National Renewable Energy Laboratory (NREL) to: (1) expand the scope of work to analyze electric vehicle charging data at National Parks and analyze market trends in vehicle attributes and technologies; (2) augment the budget by \$152,000; and (3) extend the term by 12 months. (\$100,000 ARFVTP funding; \$52,000 ERPA funding) Contact: Pierre duVair. (Staff Presentation: 5 minutes)

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

6. DOE – NATIONAL RENEWABLE ENERGY LABORATORY. Proposed resolution approving Agreement 800-16-002 with NREL for a \$500,000 contract to provide technical support to build a California specific version of its distributed energy resources adoption model (dGen). (ERPA funding) Contact: Asish Gautam. (Staff presentation: 5 minutes)

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

7. DOE – AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) of 2009. Proposed resolutions approving amendments to agreements set to expire. (ARRA-SEP funding) Contact: Daniel Johnson. (Staff presentation: 10 minutes)
 - a. DEPARTMENT OF GENERAL SERVICES. Proposed resolution approving Amendment 3 to Interagency Agreement 400-09-005 with the Department of General Services to extend the term of the agreement 13 years from April 30, 2017, to April 30, 2030. The Department of General Services administers the Energy Efficient State Property Revolving Fund, which provides loans for energy efficiency and renewable energy upgrades to state-owned buildings.
 - b. CALIFORNIA RURAL HOME MORTGAGE FINANCE AUTHORITY HOMEBUYERS FUND (CHF). Proposed resolution approving Amendment 6 to Contract 400-09-016 with the CHF to update the contractor name to Golden State Finance Authority, and extend the term of the agreement 11 years from April 30, 2017, to April 30, 2028. CHF's Moderate Income Sustainable Technology program provided grants, low interest revolving loan funds, and loan loss reserves for energy efficiency and renewable energy upgrades for moderate-income homeowners in CHF member and associate member counties throughout California. The time added through this amendment is solely for Golden State

Finance Authority to service remaining loans and report on existing loans. No new activities will be performed.

- c. COUNTY OF LOS ANGELES INTERNAL SERVICES DEPARTMENT. Proposed resolution approving Amendment 5 to Contract 400-09-024 with the County of Los Angeles Internal Services Department to reallocate \$4,250,000 of existing contract funds to implement two new programs: Southern California Regional Energy Network Revolving Loan Fund and Existing Buildings Action Plan Support Programs. The amendment would also extend the term of the agreement from March 31, 2017, to April 30, 2030.

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

8. NOVEL SOLUTIONS TO ACCELERATE DEPLOYMENT OF SMALL AND MICRO-SCALE COMBINED COOLING HEATING AND POWER SYSTEMS, GFO-16-503. This solicitation sought proposals to fund enabling technologies for combined cooling, heating, and power systems in California. (PIER NG funding) Contact: Kevin Uy. (Staff presentation: 10 minutes)
 - a. BE POWER TECH, INC. Proposed resolution approving Agreement PIR-16-006 with Be Power Tech, Inc. for a \$1,440,000 grant to conduct lab testing and a field demonstration of electricity producing heating, ventilation, and air conditioning. This is a new class of combined cycle natural gas powered, combined cooling, heating, and power, with thermal energy storage (CCHP-TES). The system replaces the packaged rooftop unit with micro-fuel cell and internal combustion based CCHP-TES solutions, with the potential to permanently reduce peak load in California while adding on-site distributed generation capacity.
 - b. UNIVERSITY OF CALIFORNIA, MERCED. Proposed resolution approving Agreement PIR-16-007 with The Regents of the University of California, on behalf of the Merced campus for a \$816,659 grant to develop a novel, low-cost, high-efficiency solar combined heating and power system.
 - c. ICF INCORPORATED, LLC. Proposed resolution approving Agreement PIR-16-008 with ICF Incorporated, LLC for a \$200,000 grant to perform a comprehensive assessment of small and micro-scale combined heating and power for technical and market potential in California.
 - d. ELEMENT 16 TECHNOLOGIES, INC. Proposed resolution approving Agreement PIR-16-009 with Element 16 Technologies, Inc. for a \$1,500,000 grant to demonstrate a low-cost, highly flexible thermal energy storage system for integration with combined cooling, heating, and power systems.
 - e. ALL POWER LABS, INC. Proposed resolution approving Agreement PIR-16-010 with All Power Labs, Inc. for a \$1,500,000 grant to develop and demonstrate an innovative micro-scale combined cooling, heating, and power (CCHP) system integrated with and powered by two 20kWe biomass waste-to-energy gasifiers. The pilot demonstration site is a commercial facility located in the Los Angeles Basin. This project will provide a solution to reduce natural gas and electricity usage in the site host's facility by employing the biomass gasifier CCHP unit powered by woody biomass waste from municipal tree management and construction.

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

9. SAN DIEGO COMMUNITY COLLEGE DISTRICT. Proposed resolution approving Amendment 1 to Contract 600-15-008 with San Diego Community College District, host for the Advanced Transportation Technology Energy (ATTE) Center, an initiative of the California Community Colleges Chancellor's Office, to augment the budget by \$1,000,000 for a total budget of \$3,000,000. Nine California community colleges from seven regions throughout California were previously awarded funding from an ATTE Grant Funding Opportunity under this contract. Six additional California community colleges received passing scores, but were not awarded due to a lack of available funds. Funds proposed in this amendment will be used to fund specialized educational training courses in alternative fuels and alternative fuel vehicles at these six additional California community colleges which include: Copper Mountain College, Foothill-De Anza Community College District, Hartnell College, Los Angeles Trade Technical College, Saddleback College, and Victor Valley College. (ARFVTP funding) Contact: David Nichols. (Staff presentation: 5 minutes)

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

10. DC FAST CHARGERS FOR CALIFORNIA'S INTERREGIONAL CORRIDORS, GFO-15-603. This solicitation sought proposals to fund installations of direct current (DC) fast charging stations on California corridors. (ARFVTP funding) Contact: Thanh Lopez. (Staff presentation: 10 minutes)
- a. RECARGO, INC. Proposed resolution approving Agreement ARV-16-010 with Recargo, Inc. for a \$2,450,000 grant to install direct current fast charging stations with both CHAdeMO and SAE Combined Charging System connectors, as well as level 2 charging stations at sites along United States Highway 101 and State Route 152. These electric vehicle charging stations will now allow electric vehicle drivers to travel the entire length of each corridor with an increased confidence in their vehicle's range capability and quick re-charging capabilities.

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

11. NATURAL GAS FUELING INFRASTRUCTURE, GFO-16-602. This solicitation sought proposals to fund projects that will establish or expand infrastructure to store, distribute and dispense compressed natural gas (CNG) for use in natural gas vehicles. (ARFVTP funding) Contact: Sarah Williams. (Staff presentation: 10 minutes)
- a. KINGS CANYON UNIFIED SCHOOL DISTRICT. Proposed resolution adopting California Environmental Quality Act findings for Kings Canyon Unified School District's Central California Air Restoration Project, and approving Agreement ARV-16-007 with Kings Canyon Unified School District (KCUSD). (ARFVTP funding)
- i. CALIFORNIA ENVIRONMENTAL QUALITY ACT FINDINGS. Findings that, based on the lead agency KCUSD Final Environmental Impact Report, the work under the proposed project presents no new significant or substantially more severe environmental impacts beyond those already considered and mitigated.
- ii. KINGS CANYON UNIFIED SCHOOL DISTRICT CENTRAL CALIFORNIA AIR RESTORATION PROJECT. Agreement with KCUSD for a \$500,000 grant to expand the natural gas fueling infrastructure at the Central Valley Transportation Center (CVTC). The CVTC serves as a centralized transportation hub supporting the natural gas

fueling fleets at the KCUSD, City of Reedley, and public entities from surrounding areas.

- b. LEMOORE UNION HIGH SCHOOL DISTRICT. Proposed resolution approving Agreement ARV-16-008 with Lemoore Union High School District (LUHSD) for a \$500,000 grant to provide LUHSD with an expanded CNG fueling facility that will enable reliable CNG fueling for the LUHSD bus fleet, the City of Lemoore's fleet and members of the public. The compression capacity of the existing plant will be doubled, ensuring a complete fill of vehicles at the time-fill station and enhancing the reliability of the fueling facility.
- c. EXETER UNIFIED SCHOOL DISTRICT. Proposed resolution approving Agreement ARV-16-009 with Exeter Unified School District (EUSD) for a \$500,000 grant to construct a CNG fueling facility with 8 slow fill and 2 fast fill dispensers at the EUSD Transportation Yard. The EUSD fleet currently has 5 CNG buses with plans to expand as diesel-powered buses are replaced.

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

- 12. ASPEN ENVIRONMENTAL GROUP. Proposed resolution approving Agreement 800-16-003 with Aspen Environmental Group for a \$4,000,000 contract to provide technical assistance and training to the Energy Assessments Division in the areas of generation, distributed energy resources, electricity, natural gas, and transportation forecasting and analysis. Julio Gutierrez. (Staff Presentation: 5 minutes)

Commissioner Douglas moved and Commissioner McAllister seconded approval of Item 12. The vote was unanimous (5-0).

- 13. 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. SETTING TARGETS FOR ENERGY EFFICIENCY DOUBLING. SB 350 requires the Energy Commission to establish targets by November 2017 that achieve a statewide cumulative doubling of energy efficiency savings in 2030. Staff will provide an update on recent activities in support of this effort and the proposed schedule for moving forward to establish these targets. Contact: Bryan Early. (Staff presentation: 5 minutes)
 - b. TITLE 20 DATA COLLECTION RULEMAKING UPDATE. On January 13, 2016, the Energy Commission adopted an Order Instituting Rulemaking to support the implementation of SB 350 and improvements to energy demand forecasting. Draft regulatory language was discussed with stakeholders at a series of workshops and stakeholder meetings in late 2016. Staff will provide an update on the effort and the schedule for next steps in the rulemaking process. Contact: Malachi Weng-Gutierrez. (Staff presentation: 5 minutes)

Staff presented Information Item 13.

14. **Minutes:** Possible approval of the January 13, 2017 and January 25, 2017 Business Meeting minutes.

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 14. The vote was unanimous (5-0).

15. **Lead Commissioner or Presiding Member Reports.** The Commissioners reported on their recent activities.
16. **Chief Counsel's Report.** None.
17. **Executive Director's Report.** None.
18. **Public Adviser's Report.** The Deputy Public Advisor gave a report.
19. **Public Comment.** None.

Appearances:

(*by telephone)

Spencer Olinek, Pacific Gas and Electric Company

Ray Jenks, Recargo

John Quinto, Kings Canyon Unified

Jason Flores, Kings Canyon Unified

There being no further business, the meeting was adjourned.

Respectfully submitted,

CODY GOLDTHRITE
Secretariat