

State of California
California Energy Commission
Minutes of the December 13, 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

David Hochschild, Commissioner
J. Andrew McAllister, 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. THE GOVERNMENT OF SCOTLAND. Proposed resolution approving a Memorandum of Understanding with The Government of Scotland to share knowledge, experiences, data, and best practices relevant to the development of offshore wind energy. Contact: Jennifer Nelson.
 - b. NATIONAL ASSOCIATION OF STATE ENERGY OFFICIALS (NASEO). Proposed resolution approving Agreement 160-17-001 with National Association of State Energy Officials for a \$23,059 contract to formalize the California Energy Commission's membership. This one-year membership allows the Energy Commission staff to connect with key policy and decision makers; and officials from other state and territorial energy offices, and affiliates from the private and public sectors. The membership also provides a forum for exchanging information, ideas and resources, and to learn about new funding and partnership opportunities. Contact: Gretchen Kocinsky.
 - c. BLYTHE ENERGY PROJECT PETITION TO AMEND (99-AFC-08C). Proposed order approving a petition to modify existing Air Quality Condition of Certification AQ-T7, making conforming changes for consistency with permit language issued by the Mojave Desert Air Quality Management District, and deleting Air Quality Condition of Certification AQ-T7a. The proposed changes to the license would not result in significant environmental impacts, and the facility would remain in compliance with all applicable laws, ordinances, regulations, and standards. Contact: John Heiser.
 - d. PALOMAR ENERGY CENTER PROJECT PETITIONS TO AMEND (01-AFC-24C). Contact: Leonidas Payne.
 - i. Proposed order approving a petition to: (1) modify multiple air quality conditions of certification to ensure consistency with the San Diego County Air Pollution Control District air permit language; and (2) upgrade to the advanced gas path technology for two existing General

Electric Frame 7-FA combined-cycle gas turbines. The proposed changes to the license would not result in significant environmental impacts, and the facility would remain in compliance with all applicable laws, ordinances, regulations, and standards.

- ii. Proposed order approving a petition augmenting cooling tower makeup water with fire hydrant flushing water and storm water captured onsite. The order would approve changes to Conditions of Certification SOIL&WATER-5 and 6. The proposed changes to the license would not result in significant environmental impacts, and the facility would remain in compliance with all applicable laws, ordinances, regulations, and standards.
- e. **VOLUNTARY CALIFORNIA QUALITY LIGHT-EMITTING DIODE (LED) LAMP SPECIFICATION VERSION 3.1.** Proposed resolution adopting minor changes (Version 3.1) to the Energy Commission's Voluntary California Quality LED Lamp Specification (Specification). Version 3.1 aligns the Specification's reporting requirements for LED lamp lifetime with the new mandatory reporting requirements for state-regulated LED lamps and the LED versions of small-diameter directional lamps. The changes permit manufacturers to report estimated LED lamp lifetime pending completion of the lifetime test for both tier 1 and tier 2 of the Specification. Staff Contact: Patrick Saxton.
- f. **CITY OF DEL MAR.** Proposed resolution approving Amendment 1 to Grant Agreement LGC-16-003 with the City of Del Mar to transfer \$173,135 from equipment costs to a subcontractor that will be determined by bid, to install a 62.6 kW photovoltaic system on the roof of the new city hall currently under construction with a completion date of May 2018, and install a battery energy storage system to provide a minimum of 5 hours backup or supplemental power. The total cost of the project is \$388,893. Contact: Daniel Johnson.

Commissioner McAllister moved and Commissioner Douglas seconded approval of Items 1a and 1c-f. The vote was 4-0. Chair Weisenmiller announced that Commissioner Scott is absent and Commissioner McAllister announced he is recusing himself from Item 1b because he is Vice-Chair of the National Association of State Energy Officials. Commissioner McAllister left the room, Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 1b. The vote was 3-0.

- 2. **PROPOSED ADOPTION OF THE CHARTER ESTABLISHING THE SENATE BILL 350 DISADVANTAGED COMMUNITIES ADVISORY GROUP.** Proposed resolution adopting the Charter Establishing the Senate Bill 350 Disadvantaged Communities Advisory Group. Senate Bill 350, de León, mandates that the California Public Utilities Commission and the Energy Commission establish an Advisory Group consisting of representatives from disadvantaged communities. The Advisory Group shall review and provide advice on proposed clean energy and pollution reduction programs and determine whether those proposed programs will be effective and useful in disadvantaged communities. Contact: Alana Mathews. (Staff presentation: 5 minutes)

Commissioner McAllister reentered the room. Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 2. The vote was 4-0.

- 3. **CALIFORNIA ENERGY COMMISSION TRIBAL CONSULTATION POLICY.** Proposed resolution approving the Energy Commission's revised Tribal Consultation Policy. The Commission's current Policy (approved in December 2014) has been updated

to reflect amendments to the California Environmental Quality Act (CEQA) and the publication of the Governor's Office of Planning and Research *Technical Advisory: AB 52 and Tribal Cultural Resources in CEQA*. The revised Tribal Consultation Policy also includes changes based on comments solicited from California Native American tribes through three meetings held by Energy Commission staff. Staff Contact: Thomas Gates. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 3. The vote was 4-0.

4. CITY OF DAVIS. Proposed resolution finding that the city of Davis's locally adopted energy standards will require all new single-family residences to be 30 percent more energy efficient and all new multifamily dwellings to be 25 percent more energy efficient than required by the 2016 Building Energy Efficiency Standards. These compliance margins correspond to meeting CALGreen Tier 2 for energy efficiency. The city of Davis will require that these targets be met by a combination of additional energy efficiency measures as well as installation of solar photovoltaics (PV) where solar PV size is determined by the amount which would offset 80 percent of the total estimated building electricity use for a combined fuel residence. Contact: Ingrid Neumann. (Staff presentation: 5 minutes)

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

5. CITY OF CLOVIS. Proposed resolution approving Agreement 002-17-ECD with the City of Clovis for a \$1,840,035 1% interest loan to convert city building interior and exterior lighting to LED lights. The lighting project is estimated to reduce a total of 769,302 kilowatt-hours annually saving approximately \$128,114 for the City of Clovis. The simple payback period is 14.3 years based on the loan amount. (ECAA Program funding) Contact: Hally Cahssai. (Staff presentation: 5 minutes)

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

6. INNOVATIVE MOBILITY DEMONSTRATIONS WITH ZERO-EMISSION VEHICLES, GFO-16-605. This solicitation sought proposals to fund projects that will demonstrate innovative electric vehicle mobility services in four specified areas in California. (ARFVTP funding) Contact: Shaun Ransom. (Staff presentation: 5 minutes)
 - a. STRATOSFUEL, INC. Proposed resolution approving Agreement ARV-17-010 with StratosFuel, Inc. for a \$684,421 grant to develop and demonstrate a car-sharing platform using fuel cell electric vehicles in Riverside and Ontario.
 - b. CALSTART, INC. Proposed resolution approving Agreement ARV-17-011 with CALSTART, Inc. for a \$750,000 grant to develop and demonstrate a ridesharing service using battery electric vehicles for community college students from rural Fresno County who are attending Fresno City College.
 - c. ENVOY TECHNOLOGIES, INC. Proposed resolution approving Agreement ARV-17-012 with Envoy Technologies, Inc., for a \$749,957 grant to develop and demonstrate a carsharing program using battery electric vehicles for affordable housing developments and senior housing projects in the Sacramento Metropolitan and North San Joaquin Valley areas.
 - d. ENVOY TECHNOLOGIES, INC. Proposed resolution approving Agreement ARV-17-013 with Envoy Technologies, Inc., for a \$749,957 grant to develop and demonstrate a carsharing program using battery electric vehicles for affordable housing developments and senior housing projects in the San Francisco Bay Area.

Commissioner Hochschild moved and Commissioner McAllister seconded approval of Item 6. The vote was 4-0.

7. GLOBAL ALGAE INNOVATIONS INC. Proposed resolution approving Agreement FRD-17-003 with Global Algae Innovations Inc. for a \$600,000 grant to research, develop and design a pilot-scale algal oil cultivation and processing facility, which is the first step in scaling the process up to reach commercial scale. Research will also be conducted to expand the algae strand library and identify local algae strands for optimal bio-oil production. This project also includes \$1,200,000 in federal cost share funding from the Department of Energy. (CCTRD funded) Contact: Pilar Magana. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 7. The vote was 4-0.

8. RESEARCH AND DEMONSTRATIONS TO DECARBONIZE TRANSPORTATION FUEL, GFO-16-901. This solicitation sought proposals to support pilot scale demonstration of thermochemical conversion systems that use California's organic waste streams to produce bio-based intermediate fuels that can be upgraded or refined to low-carbon, drop-in renewable fuels. The renewable final fuel product will be fungible with pipeline and fuel dispensing infrastructure and vehicle technologies. (CCTRD funding) Contact: Pilar Magana. (Staff presentation: 5 minutes)
 - a. LAWRENCE LIVERMORE NATIONAL SECURITY LLC. Proposed resolution approving Agreement FRD-17-002 with Lawrence Livermore National Security LLC for a \$5,700,000 grant to fund the pre-commercial demonstration of an innovative autothermal pyrolysis technology that converts wood to bio-oil. This system will be capable of processing 50 tons per day of woody biomass on-site at Sierra Pacific Industries' sawmill facility in Camino, CA.

Commissioner McAllister moved and Commissioner Douglas seconded approval of Item 8. The vote was 4-0.

9. 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)

Staff presented Information Item 9.

10. **Minutes:** Possible approval of the November 8, 2017 Business Meeting minutes.

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 10. The vote was 4-0.

11. **Lead Commissioner or Presiding Member Reports.** The Commissioners reported on their recent activities.
12. **Chief Counsel's Report.** None.

13. **Executive Director's Report.** The Executive Director gave a report.
14. **Public Adviser's Report.** None.
15. **Public Comment:** Larry McLaughlin, Inland Empire/Desert Region Colleges

Appearances:

(*by telephone)

Gregory C. Mahoney, City of Davis

*Joseph Oldham, CALSTART Clean Transportation Center

There being no further business, the meeting was adjourned.

Respectfully submitted,

CODY GOLDTHRITE
Secretariat