

**STATE OF CALIFORNIA**  
**California Energy Commission**

Minutes of the June 17, 2009, Energy Commission Business Meeting.

The meeting was called to order by Chairman Karen Douglas. The Pledge of Allegiance was led by Chairman Douglas.

Present:

Karen Douglas, Chairman  
James D. Boyd, Vice Chair  
Arthur H. Rosenfeld, Commissioner  
Jeffrey D. Byron, Commissioner  
Julia A. Levin, Commissioner (by teleconference)

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.)

*At the request of Chairman Douglas, the Consent Calendar items were moved to discussion.*

- a. UNIVERSITY OF FLORIDA. Possible approval of Amendment 1 to Contract 500-06-002 with University of Florida for a no-cost time extension to continue work on *Climate Change and Sea Level Rise: Implications for the California Coast*. The University of Florida proposes to subcontract with the Scripps Institution of Oceanography to measure seacliff erosion and coastal landslide. The data will be used to test the coastal evolution model being developed for this project. Contact: Guido Franco.

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 1a was not taken up.*

- b. MERCEDES-BENZ USA, LLC. Possible approval of Amendment 2 to Contract 600-05-001 with Mercedes-Benz USA, LLC, for a one-year no-cost time extension of the agreement with the Department of General Services, California Air Resources Board and Mercedes-Benz USA, LLC, for the continued use of one Mercedes-Benz hydrogen fuel cell vehicle by the Energy Commission. Contact: Mike Trujillo.

*Vice Chair Boyd moved and Commissioner Byron seconded approval of Amendment 2 to Contract 600-05-001. The vote was unanimous. (5-0)*

- c. GOVERNOR'S OFFICE OF PLANNING AND RESEARCH. Possible approval of Contract 150-09-001 for \$45,000 with the Governor's Office of Planning and Research. This is an interagency agreement to provide writing and research services for planning and policy discussion documents regarding the state's future energy-related issues. (ERPA funding.) Contact: Cheryl Raedel.

*Vice Chair Boyd moved and Commissioner Rosenfeld seconded approval of Contract 150-09-001. The vote was unanimous. (5-0)*

- d. NEW BUILDINGS INSTITUTE, INC. Possible approval of Contract 400-08-007 for \$15,000 with New Buildings Institute, Inc., for renewal of the Energy Commission's membership for one year. Membership provides access to nationwide data and research results that have direct relevance to California's building standards development and implementation. (ERPA funding.) Contact: Martha Brook.

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 1d was not taken up.*

- e. KEMA, INC. Possible approval of Amendment 1 to Contract 400-07-031 with Kema, Inc., to make an administrative change to the method of payment from time-and-materials to task-based invoicing. Contact: Sylvia Bender.

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 1e was not taken up.*

2. ALMOND 2 POWER PLANT (09-AFC-2). Contact: Eileen Allen. (10 minutes)

- a. Possible approval of the Executive Director's data adequacy recommendation for the Turlock Irrigation District's (TID) Application For Certification of the Almond 2 Power Plant. The project is a 174 megawatt (MW) net generation gas-fired peaking facility to supply electric power to customers within TID's service territory. The project is located adjacent to the 48 MW TID Almond Power Plant in Ceres, Stanislaus County.

*Vice Chair Boyd moved and Commissioner Byron seconded approval of the Executive Director's recommendation that the AFC be found data inadequate at this time. The vote was unanimous. (5-0) Therefore, no action was taken on Item 2b.*

- b. Possible appointment of a siting committee for the Almond Power Plant project.

3. ADMINISTRATIVE SUBPOENA. Possible approval of an administrative subpoena directing the California Independent System Operator (California ISO) to provide generation and transmission data needed by Energy Commission staff in assessing resource adequacy for summer 2009 and beyond. Contact: Caryn Holmes. (5 minutes)

*Vice Chair Boyd moved and Commissioner Rosenfeld seconded approval of the administrative subpoena. The vote was unanimous. (5-0)*

4. 2010 PEAK DEMAND FORECAST. Possible approval of a revised forecast of 2010 peak demand. This forecast would be used as the reference case for California Public Utilities Commission-jurisdictional forecasts used to establish 2010 Resource Adequacy requirements. Contact: Sylvia Bender. (5 minutes)

*Item 4 was moved to the June 24 Business Meeting agenda.*

5. SMITHERS SCIENTIFIC SERVICES, INC. Possible approval of Amendment 1 to Contract 600-07-006 with Smithers Scientific Services, Inc., adding \$500,000 and a one-year time extension for continuing technical support for the Energy Commission's fuel-efficient tire program. Contract tasks include tire testing and analysis, evaluation of tire-testing facilities, investigations and studies of rolling resistance and participation in

workshops, hearings, seminars, proceedings and conferences. (ERPA funding.) Contact: Mike Smith. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 5 was not taken up.*

6. CALIFORNIA DEPARTMENT OF GENERAL SERVICES. Possible approval of Contract 600-09-001, for \$612,500 with Department of General Services to retrofit up to 50 state-owned hybrid vehicles to operate as plug-in hybrid electric vehicles. The modified vehicles will have an extended range of operation while using battery-only power, and will be fitted with a GPS/telematics system to record performance, operating information and other data. They will replace older, less efficient vehicles currently in use. (ARFVTF funding.) Contact: Mike Smith. (5 minutes)

*Vice Chair Boyd moved and Commissioner Byron seconded approval of Contract 600-09-001. The vote was unanimous. (5-0)*

7. ICF INCORPORATED, LLC. Possible approval of Contract 600-08-010 for \$721,388 with ICF Incorporated, LLC, to provide technical analysis support for the Alternative and Renewable Fuel and Vehicle Technology Program. The work includes evaluation of four aspects of the alternative and renewable fuel industry: infrastructure and distribution development; investments; vehicle market assessments; and, existing sustainability certification programs. The Energy Commission will use these analyses to develop strategies to expand the growth of alternative and renewable fuel markets in California. (ERPA /ARFVTF funding.) Contact: Mike Smith. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 7 was not taken up.*

8. TETRA TECH INC. Possible approval of Contract 600-08-011 for \$400,000 with Tetra Tech, Inc. to provide engineering and technical support for the Alternative and Renewable Fuel and Vehicle Technology Program. The contractor will assist the Energy Commission in evaluating the engineering and technical merit of project proposals submitted for possible funding under the program. In addition, the contractor will provide assistance in troubleshooting problems that arise in the development of projects approved for funding and in implementing solutions to such problems. (ERPA/ARFVTF funding.) Contact: Mike Smith. (5 minutes)
9. CALIFORNIA COMMUNITY COLLEGES CHANCELLOR'S OFFICE. Possible approval of Contract 600-08-009 for \$4.5 million with California Community Colleges to develop training programs in transportation technology and alternative fuel use for California community colleges. The project will provide statewide and regional labor market information to guide future workforce development funding decisions for the Alternative and Renewable Fuels and Vehicle Technology Program. (ARFVTF funding.) Contact: Mike Smith. (10 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 9 was not taken up.*

10. ECOLOGY AND ENVIRONMENT, INC. Possible approval of Contract 600-08-012 for \$249,573 with Ecology and Environment, Inc., to acquire background information and develop design criteria for wind farm and related infrastructure development in Baja

California, Mexico. The project will establish standards for optimal wind farm design and minimum distances between wind developments, as well as other infrastructure considerations such as roads and settlements. This project will support a cooperative initiative between the State of California and Baja California, Mexico. (ERPA funding.) Contact: Mike Smith. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 10 was not taken up.*

11. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Contract 500-08-052 for \$1,959,879 with Lawrence Berkeley National Laboratory to develop an improved software tool to track and verify building energy savings. The project will develop publicly available building system diagnostic tools, measurement and evaluation systems and fan system tools, and integrate those elements into an upgraded universal translator framework that can be used by commissioning agents, utility program energy analysts and others to track and verify energy savings. (PIER electricity funding.) Contact: Chris Scruton. (10 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 11 was not taken up.*

12. BENNINGFIELD GROUP. Possible approval of grant PIR-08-016 for \$178,370 to Benningfield Group to obtain real-world data to measure the performance of PIER-developed, high performance package air conditioning systems compared to conventional package air conditioning systems in two identical school buildings. (PIER electricity funding.) Contact: Chris Scruton. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 12 was not taken up.*

13. CONSOL CONSULTING. Possible approval of grant PIR-08-021 for \$292,173 to ConSol Consulting to estimate, through simulation and input from builders and designers, the most cost-effective ways to meet zero net energy goals for new residential buildings in 16 California climate zones. (PIER electricity funding.) Contact: Norm Bourassa. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 13 was not taken up.*

14. CAMBRIA SOLUTIONS. Possible approval of Purchase Order 08-409.00-015 for \$333,813 with Cambria Solutions to develop a tracking and reporting tool for funding awards under the American Recovery and Reinvestment Act of 2009. The project will identify technical and non-technical options for fraud prevention and detection, provide outreach and communications services, and assist with overall program support. (ERPA funding.) Contact: Mark Hutchison. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 14 was not taken up.*

15. H. T. HARVEY AND ASSOCIATES. Possible approval of Grant PIR-08-027 for \$732,411 to H. T. Harvey and Associates for research to test techniques to assess nocturnal bird and bat activity at wind energy facilities. (PIER electricity funding.) Contact: Linda Spiegel. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 15 was not taken up.*

16. CALIFORNIA WIND ENERGY ASSOCIATION. Possible approval of Grant PIR-08-028 for \$442,078 to California Wind Energy Association for research to improve the accuracy of methods for estimating the number of bird and bat fatalities at wind energy facilities. (PIER electricity funding.) Contact: Linda Spiegel. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 16 was not taken up.*

17. EDM INTERNATIONAL, INC. Possible approval of Grant PIR-08-026 for \$165,516 to EDM International, Inc., to evaluate the effectiveness of an avian electrocution risk calculator and of distribution pole retrofitting methods used by utilities. (PIER electricity funding.) Contact: Linda Spiegel. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 17 was not taken up.*

18. UC DAVIS WILDLIFE, FISH AND CONSERVATION BIOLOGY DEPARTMENT. Possible approval of grant PIR-08-029 for \$441,787 to UC Davis Wildlife, Fish and Conservation Biology Department to enhance tools for balancing hydropower generation and environmental protection for a fish species of special concern. The project will study water temperature tolerances from hydroelectric power flow releases for this indicator species to inform and expedite the Federal Energy Regulatory Commission licensing process. (PIER electricity funding.) Contact: Joe O'Hagan. (5 minutes)

*Vice Chair Boyd moved and Commissioner Rosenfeld seconded approval of grant PIR-08-029. The vote was unanimous. (5-0)*

19. LOS ANGELES COMMUNITY COLLEGE DISTRICT. Possible approval of Grant PIR-08-031 for \$2 million to Los Angeles Community College District for energy efficiency upgrades and curriculum development. Solar PV, solar thermal, lithium-ion batteries, hot water storage, T8 LED lighting retrofits and management and control technologies will be installed on campus to reduce energy consumption during peak demand. The project also will develop certification programs and course materials for energy technology education. (PIER electricity funding.) Contact: Ken Koyama. (10 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 19 was not taken up.*

20. SONOMA COUNTY WATER AGENCY. Possible approval of Grant PIR-08-038 for \$1 million to Sonoma County Water Agency to develop and demonstrate a model that integrates five mature renewable resources and conversion technologies with efficiency measures and demand response. The project is designed to prepare Sonoma County to implement a locally-owned, cost-effective renewable energy portfolio. (PIER electricity funding.) Contact: Ken Koyama. (10 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 20 was not taken up.*

21. SOUTHERN CALIFORNIA EDISON. Possible approval of Grant PIR-08-037 for \$200,000 to Southern California Edison for a study of high penetration of renewable energy on Santa Catalina Island. (PIER electricity funding.) Contact: Ken Koyama. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 21 was not taken up.*

22. UNIVERSITY OF CALIFORNIA SAN DIEGO. Possible approval of grant PIR-08-043 for \$999,949 to University of California San Diego to demonstrate equipment that integrates renewables, energy storage, demand response and energy efficiency. (PIER Electricity and natural gas funding.) Contact: Ken Koyama. (5 minutes)

*Commissioner Byron moved and Vice Chair Boyd seconded approval of grant PIR-08-043. The vote was unanimous. (5-0)*

23. LOCAL POWER, INC. Possible approval of grant PIR-08-032 for \$198,167 to Local Power, Inc., to facilitate local renewable energy development in San Luis Obispo County. The project will identify barriers, assess supply and demand of local resources, construct a framework analysis and an energy supply model, and prepare alternative technology configurations. (PIER electricity funding.) Contact: Ken Koyama. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 23 was not taken up.*

24. REDWOOD COAST ENERGY AUTHORITY. Possible approval of grant PIR-08-034 for \$199,988 to Redwood Coast Energy Authority to develop a strategic energy plan for Humboldt County. The goal is to meet 75- to 100 percent of local electricity demand and a significant fraction of heating and transportation energy needs by using an integrated mix of local renewable energy resources, energy efficiency and demand management. (PIER electricity funding.) Contact: Ken Koyama. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 24 was not taken up.*

25. SUMMERS CONSULTING, LLC. Possible approval of grant PIR-08-041 for \$999,925 to Summers Consulting, LLC, to develop independent, scientific performance data related to dairy biogas power systems for renewable energy generation and environmental pollution control. (PIER natural gas funding.) Contact: Ken Koyama. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 25 was not taken up.*

26. GAS TECHNOLOGY INSTITUTE. Possible approval of grant PIR-08-044 for \$1 million to Gas Technology Institute to develop a heavy-duty natural gas engine using advanced technologies to improve performance and reduce emissions. Exhaust gas recirculation, three-way catalyst and spark ignition technology will be incorporated in a new heavy duty truck (Class 8) engine. (PIER natural gas funding.) Contact: Ken Koyama. (10 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 26 was not taken up.*

27. VOLVO TECHNOLOGY OF AMERICA. Possible approval of grant PIR-08-046 for \$999,970 to Volvo Technology of America to further develop high pressure direct injection technology in a natural gas engine. The resulting engine is expected to increase performance, and meet or exceed California Air Resources Board emissions standards for 13- liter truck engines. (PIER natural gas funding.) Contact: Ken Koyama. (5 minutes)

*Consistent with Executive Order S-09-09 and the June 12, 2009, Department of Finance letter, Item 27 was not taken up.*

28. CHULA VISTA ENERGY UPGRADE PROJECT (07-AFC-04). Possible adoption of the Presiding Member's Proposed Decision for the Chula Vista Energy Upgrade Project, a simple-cycle electrical power plant facility in the city of Chula Vista, San Diego County. Contact: Raoul Renaud. (60 minutes)

*Vice Chair Boyd moved and Commissioner Byron seconded approval of the Presiding Member's Proposed Decision, as modified by the previously-distributed Errata and the amended language discussed in today's meeting. The vote was unanimous.*

29. **Minutes:** Approval of the June 3, 2009, Business Meeting Minutes.
30. **Commission Committee Presentations/Discussion:** A discussion by the Commissioners regarding Committee Oversight matters may be held.
31. **Chief Counsel's Report:** None.
32. **Executive Director's Report:** Executive Director Melissa Jones gave the report.
33. **Public Adviser's Report:** Public Adviser Elena Miller gave the report.
34. **Public Comment:**

There being no further business, the meeting was adjourned to a closed session pursuant to Government Code Section 11126(a).

Appearances:

Mr. Jeffery D. Harris, Ellison, Schneider & Harris  
Ms. Jane Luckhardt, Downey Brand, LLP  
Mr. Kevin P. Bundy, Environmental Health Coalition  
Mr. Rudy Ramirez, Chula Vista City Council (representing himself)  
Ms. Diana Vera  
Ms. Theresa Acerro, Southwest Chula Vista Civic Association  
Ms. Laura Hunter, Environmental Health Coalition

Respectfully submitted,

HARRIET KALLEMEYN  
Secretary to the Commission