

STATE OF CALIFORNIA
California Energy Commission

Minutes of the April 7, 2010, Energy Commission Business Meeting.

The meeting was called to order at 10:08 a.m. by Chairman Karen Douglas. The Pledge of Allegiance was led by Chairman Douglas.

Present:

Karen Douglas, Chairman

James D. Boyd, Commissioner

Robert B. Weisenmiller, 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. MICROPAS 8.0. Possible extension of the interim approval of MICROPAS 8.0 to June 30, 2010. MICROPAS are a computer simulation program used to demonstrate compliance with the *2008 Building Energy Efficiency Standards*. Contact: Rob Hudler.
 - b. ENERGY PRO 5. Possible extension of the interim approval of Energy Pro 5 to June 30, 2010. Energy Pro is a computer simulation program used to demonstrate compliance with the *2008 Building Energy Efficiency Standards*. Contact: Rob Hudler.
 - c. HESCHONG MAHONE GROUP. Possible approval of Amendment 1 to Contract 500-06-039 with Heschong Mahone Group for an 8-month no cost time extension to complete remaining research and development tasks. Contact: Dustin Davis.
 - d. ALTERNATIVE ENERGY SYSTEMS CONSULTING, INC. Possible approval of Amendment 2 to Contract 500-07-020 with Alternative Energy Systems Consulting, Inc., for a 12-month no cost time extension to complete data gathering and analysis. Contact: Jamie Patterson.

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of the Consent Calendar. The vote was unanimous. (3-0)

2. CALIFORNIA ALTERNATIVE ENERGY AND ADVANCED TRANSPORTATION FINANCING AUTHORITY. Possible approval of Contract 600-09-013 for up to \$100 million with the California Alternative Energy and Advanced Transportation Financing Authority (State Treasurer's Office). This inter-agency agreement is for the development and management of three transportation financing programs. (ARFTF funding.) Contact: Larry Rillera. (10 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Contract 600-09-013. The vote was unanimous. (3-0)

3. PERRY-SMITH, LLP. Possible approval of Contract 150-09-004 for \$3.75 million with Perry-Smith, LLP, to provide auditing and consulting services to the Energy Commission for programs funded under the American Recovery and Reinvestment Act of 2009 (ARRA). Perry-Smith will review internal controls and provide recommendations to improve controls, conduct risk assessments and audits of ARRA funding recipients, and provide other management consulting and communication services. (ARRA funding.) Contact: Mark Hutchison. (10 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Contract 150-09-004. The vote was unanimous. (3-0)

4. CALIFORNIA STATE CONTROLLERS OFFICE. Possible approval of Contract 400-09-010 for \$334,000 with the California State Controller's Office to issue checks on behalf of the Energy Commission to eligible California citizens for the California Cash for Appliances Program. (ARRA funding.) Contact: Lorraine White. (5 minutes)

Commissioner Weisenmiller moved and Vice Chair Boyd seconded approval of Contract 400-09-010. The vote was unanimous. (3-0)

5. ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT PROGRAM (EECBG) – DIRECT EQUIPMENT PURCHASE. Possible approval of 23 EECBG program Grant agreements awarding \$2,209,297 in American Recovery and Reinvestment Act of 2009 funds. These awards provide funding to small cities and counties in California for eligible and cost-effective Direct Equipment Purchase projects. Contact: Deborah Godfrey. (10 minutes)
 - a. CITY OF SCOTTS VALLEY. Grant agreement CBG-09-001, awarding \$61,709 to replace high-pressure sodium street lights with new induction fixtures
 - b. CITY OF SOLEDAD. Grant agreement CBG-09-002, awarding \$154,426 to replace existing high pressure sodium cobra-head street light fixtures with induction cobra-head fixtures.
 - c. CITY OF GREENFIELD. Grant agreement CBG-09-004, awarding \$82,019 to implement energy efficiency projects including, but not limited to street lighting retrofits, other exterior lighting retrofits.
 - d. CITY OF ALBANY. Grant agreement CBG-09-005, awarding \$88,846 funds to replace existing High Pressure Sodium Vapor street lights located within the public right of way with LED lights.
 - e. CITY OF TEHAMA. Grant agreement CBG-09-012, awarding \$25,000 to replace HVAC units, install programmable thermostats, and replace existing lighting with energy efficient lighting in various buildings.
 - f. CITY OF LAFAYETTE. Grant agreement CBG-09-014, awarding \$137,000 to retrofit existing streetlight fixtures with energy-efficient fixtures or bulbs.
 - g. CITY OF HOLLISTER. Grant agreement CBG-09-022, awarding \$199,674 to replace and retrofit existing city equipment with energy-efficient equipment, including induction street lighting, LED lights in parking lots, and exterior lighting and high-efficiency HVAC system upgrades to city buildings.

- h. CITY OF LATHROP. Grant agreement CBG-09-023, awarding \$93,700 to replace the existing HVAC to a high efficiency HVAC, update the street light fixture equipment with more energy efficient upgrades of the same type of equipment, and convert standard light switches to high efficiency occupancy sensors.
- i. CITY OF CAPITOLA. Grant agreement CBG-09-024, awarding \$52,651 to replace existing street light fixture equipment with more energy efficient induction lighting fixtures.
- j. CITY OF SAN MARINO. Grant agreement CBG-09-027, awarding \$71,904 to upgrade/replace inefficient HVAC systems at City Hall, the Police Department, the Fire Department and Public Works.
- k. CITY OF SEASIDE. Grant agreement CBG-09-036, awarding \$185,293 to replace high pressure sodium streetlights with induction lighting and incandescent signals with LED signals.
- l. CITY OF PINOLE. Grant agreement CBG-09-043, awarding \$103,455 to replace high pressure sodium streetlights with LED lighting fixtures.
- m. TOWN OF FAIRFAX. Grant agreement CBG-09-044, awarding \$38,178 to replace high pressure sodium vapor decorative lamps in streetlights with higher efficiency options including induction or light emitting diodes.
- n. CITY OF GOLETA. Grant agreement CBG-09-045, awarding \$159,293 to retrofit lighting at city hall, the community center and four elementary schools.
- o. CITY OF WILLOWS. Grant agreement CBG-09-047, awarding \$36,351 to replace metal halide walkway and streetlights with LED and induction lighting fixtures.
- p. CITY OF CALIMESA. Grant agreement CBG-09-048, awarding \$35,958 to retrofit three city buildings with energy efficient lighting. Such improvements include installation of energy efficient lamps and ballasts, occupancy sensors, LED exit signs, and outdoor LED light fixtures with photocell controls.
- q. CITY OF ORLAND. Grant agreement CBG-09-049, awarding \$25,000 to replace the HVAC system for Orland City Hall, Orland Free Library, and the Public Corp Yard building.
- r. CITY OF ARTESIA. Grant agreement CBG-09-058, awarding \$91,098 to replace the HVAC and lighting retrofit, replacing T12 with T8 in the library and community center.
- s. CITY OF BELMONT. Grant agreement CBG-09-059, awarding \$133,973 to replace high pressure sodium streetlights with LED lighting fixtures.
- t. CITY OF LARKSPUR. Grant agreement CBG-09-060, awarding \$63,132 to replace high pressure sodium streetlights with induction lighting
- u. TOWN OF WINDSOR. Grant agreement CBG-09-062, awarding \$223,700 to the collaborative of Windsor, Cotati and Cloverdale to replace high pressure sodium

- v. CITY OF PIEDMONT. Grant agreement CBG-09-065, awarding \$58,369 to replace existing high pressure sodium cobra-head street light fixtures with LED fixtures.
- w. CITY OF AMERICAN CANYON. Grant agreement CBG-09-067, awarding \$88,498 to replace high pressure sodium cobra-head fixtures with LED fixtures.

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of the 23 grant agreements. The vote was unanimous. (3-0)

- 6. ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT PROGRAM (EECBG) – ENERGY EFFICIENCY PROJECTS. Possible approval of six EECBG Program Grant agreements awarding \$1,203,539 in American Recovery and Reinvestment Act of 2009 funds. These awards provide funding for eligible small cities and counties in California for energy efficiency projects. Contact: Deborah Godfrey. (10 minutes)
 - a. SANTA CRUZ COUNTY. Grant agreement CBG-09-003, awarding \$746,372 to upgrade the ozone laundry, mechanical and pump controls, motors and HVAC at ten county facilities.
 - b. CITY OF RIPON. Grant agreement CBG-09-011, awarding \$81,861 to install a split AC unit in the police department’s dispatch area; upgrade existing HVAC and lighting systems in the old library building; and retrofit street lighting by replacing sodium vapor lights around the city with induction type lights.
 - c. CITY OF DEL MAR. Grant agreement CBG-09-013, awarding \$25,000 to purchase a storage array network that will consolidate storage of the city’s data into one physical device, resulting in reduced energy usage.
 - d. COUNTY OF YOLO. Grant agreement CBG-09-035, awarding \$129,238 to replace High Pressure Sodium Pole Lights with LED lighting fixtures and install a building management system at the Yolo County courthouse.
 - e. CITY OF BURLINGAME. Grant agreement CBG-09-042, awarding \$150,010 to install sensors, lighting retrofit, HVAC, variable speed drives and motors at the fire station, police department, corporate yard, city garage and library; and upgrade streetlights to induction lamps.
 - f. CITY OF GROVER BEACH. Grant agreement CBG-09-066, awarding \$71,058 for lighting and building control replacements at seven city-owned buildings.

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of the six grant agreements. The vote was unanimous. (3-0)

- 7. CITY OF TORRANCE. Possible approval of Agreement 026-09-ECE-ARRA for a loan of \$3 million to the City of Torrance for multiple energy efficiency upgrades. These projects are expected to save the city an estimated 2.2 million kilowatt hours of electricity and 31,000 therms of natural gas annually, which is equivalent to \$261,300 in reduced energy costs. (ARRA funding.) Contact: Adel Suleiman. (5 minutes)

Commissioner Weisenmiller moved and Vice Chair Boyd seconded approval of Agreement 026-09-ECE-ARRA. The vote was unanimous. (3-0)

8. FALLBROOK PUBLIC UTILITY DISTRICT. Possible approval of Agreement 002-09-ECA for a loan of \$2,745,600 to the Fallbrook Public Utility District to install a one-megawatt alternating current photovoltaic system. This project is expected to save the district \$249,600 annually in reduced energy costs with a simple payback of 11 years based on the loan amount. (ECAA funding.) Contact: Adel Suleiman. (5 minutes)

Commissioner Weisenmiller moved and Vice Chair Boyd seconded approval of Agreement 002-09-ECA. The vote was unanimous. (3-0)

9. TOWN OF YUCCA VALLEY. Possible approval of Agreement 001-09-ECA for a loan of \$65,000 to the Town of Yucca Valley for energy efficiency upgrades. These projects will save the town an estimated 67,000 kilowatt hours of electricity and 25 therms of natural gas annually, which is equivalent to \$10,142 in reduced energy costs, with a simple payback of 6.4 years based on the loan amount. (ECAA funding.) Contact: Adel Suleiman. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Agreement 001-09-ECA. The vote was unanimous. (3-0)

10. RC CONSULTING. Possible approval of Purchase Order 09-409.009 for \$145,000 to provide vehicle reports and data for transportation energy demand forecasting and consulting services to transition the analysis of vehicle databases from consultants to Energy Commission staff. (ERPA funding.) Contact: Gerald Zipay. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Purchase Order 09-409.009. The vote was unanimous. (3-0)

11. DEPARTMENT OF PARKS AND RECREATION. Possible approval of Contract RMB 600-09-014 to receive \$105,000 from the Department of Parks and Recreation over three fiscal years. The Energy Commission will manage the co-funded joint agency support contract to analyze Department of Motor Vehicles registration data. The Department of Parks and Recreation will receive vehicle database reports for four-wheel drive and off-highway vehicles that will be used for off-highway transportation planning purposes for state parks. (Reimbursement funding.) Contact: Gerald Zipay. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Contract RMB-600-09-014. The vote was unanimous. (3-0)

12. UNIVERSITY OF CALIFORNIA, DAVIS. Possible approval of Contract 500-09-033 for \$299,949 with the Regents of the University of California, Davis, to assess how changes in the magnitude and timing of the Sierra Nevada spring snowmelt will affect hydropower operations and downstream ecological processes. (PIER electricity funding.) Contact: Joe O'Hagan. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Contract 500-09-033. The vote was unanimous. (3-0)

13. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Contract 500-09-034 for \$490,000 with Lawrence Berkeley National Laboratory to evaluate the potential effects of pressure changes from sequestering carbon in saline aquifers

underlying the San Joaquin Valley. (PIER natural gas funding.) Contact: Joe O'Hagan. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Contract 500-09-034. The vote was unanimous. (3-0)

14. UNIVERSITY OF CALIFORNIA, DAVIS. Possible approval of Contract 500-09-035 for \$700,000 with the Regents of the University of California, Davis, to determine the efficacy of adding biochar to California's agricultural soil as a carbon offset for energy generators in future cap and trade markets. (PIER natural gas funding.) Contact: Sarah Pittiglio. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Contract 500-09-035. The vote was unanimous. (3-0)

15. SACRAMENTO MUNICIPAL UTILITY DISTRICT. Possible approval of Contract 500-09-030 for \$50,000 with Sacramento Municipal Utility District to demonstrate the results of Public Interest Energy Research (PIER) projects at the 2010 Emerging Technologies Summit November 7-9, 2010 in Sacramento. The demonstration will show how advanced lighting, heating, ventilating and air conditioning, and other technologies can increase energy efficiency in California buildings and homes. This contract, needed now to pay for the planning of the demonstration projects, satisfies the technology transfer requirements of SB 1250. (PIER electricity funding.) Contact: Virginia Lew. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Contract 500-09-030. The vote was unanimous. (3-0)

16. ANDES CONSULTING, LLC. Possible approval of Purchase Order 09-409.00-008 in the amount of \$109,250 to Andes Consulting, LLC, for Quality Management (QM) contract services to manage and coordinate the continued design, development, testing, and pilot phases for the Dynamic Simulation Transportation Energy Model (DynaSim) modeling project. (ERPA funding.) Contact: Laura Lawson. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Purchase Order 09-409.00-008. The vote was unanimous. (3-0)

17. CALIFORNIA BUILDING PERFORMANCE CONTRACTORS ASSOCIATION (CBPCA) AND ENALASYS. Possible approval of CBPCA as a Home Energy Rating System (HERS) provider for those HERS Raters conducting field verification and diagnostic testing on Alterations to demonstrate compliance with the 2008 Building Energy Efficiency Standards, including the Enalaysys Third-Party Quality Control Program. Contact: Jim Holland. (5 minutes)

Commissioner Weisenmiller moved and Vice Chair Boyd seconded approval of CBPCA as a HERS provider and Enalaysys as a third-party quality control program. The vote was unanimous. (3-0)

18. EMERGING RENEWABLES PROGRAM GUIDEBOOK. Possible adoption of revisions to the Energy Commission's *Emerging Renewables Program Guidebook*. Contact: Tony Goncalves. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded adoption of the revisions to the Emerging Renewables Program Guidebook. The vote was unanimous. (3-0)

19. NEW SOLAR HOMES PARTNERSHIP GUIDEBOOK. Possible adoption of revisions to the *New Solar Homes Partnership Guidebook*. Contact: Tony Goncalves. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded adoption of the revisions to the New Solar Homes Partnership Guidebook. The vote was unanimous. (3-0)

20. WASTE HEAT AND CARBON EMISSIONS REDUCTION ACT GUIDELINES. Possible modification of the Energy Commission *Final Guidelines for Certification of Combined Heat and Power Systems* under Public Utilities Code section 2840. It is proposed that the *Guidelines* be modified to change the bottoming cycle combined heat and power system efficiency level from no less than 62 percent, to no less than 60 percent. Contact: Art Soinski. (15 minutes)

Commissioner Weisenmiller moved and Vice Chair Boyd seconded approval of modifying the Guidelines. The vote was unanimous. (3-0)

21. **Minutes:** Approval of the March 24, 2010, Business Meeting Minutes.

Approval of the Minutes was postponed to the next Business Meeting.

22. **Commission Committee Presentations and Discussion:** None.
23. **Chief Counsel's Report:** Assistant Chief Counsel Jonathan Bles gave the report.
24. **Executive Director's Report:** Chief Deputy Director Claudia Chandler gave the report.
25. **Public Adviser's Report:** None.
26. **Public Comment:** Mr. Jim Rothstein.
27. **Internal Organization and Policy.** None.

Appearances:
Mr. Jim Rothstein

There being no further business, the meeting was adjourned.

Respectfully submitted,

HARRIET KALLEMEYN
Secretary to the Commission