

STATE OF CALIFORNIA
California Energy Commission

Minutes of the May 5, 2010, Energy Commission Business Meeting.

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. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Amendment 1 to Agreement PNG-07-004 with Lawrence Berkeley National Laboratory for a 12-month no-cost time extension, and a change of subcontractors and microturbine. Elliott Energy Systems and Professional Energy Solutions will be replaced by University of California Combustion Laboratory and SCS Engineers, respectively. An Elliott microturbine will be replaced with a Capstone microturbine. Contact: Prab Sethi.
 - b. COUNTY OF MARIN. Possible approval of the County of Marin's proposed locally adopted energy standards for residential and nonresidential newly constructed buildings and additions and alterations to existing buildings to require greater energy efficiency than the 2008 Building Energy Efficiency Standards. Contact: Joe Loyer.
 - c. CITY OF SAN RAFAEL. Possible approval of the City of San Rafael's proposed locally adopted energy standards for residential and nonresidential newly constructed buildings and additions and alterations to existing buildings to require greater energy efficiency than the 2008 Building Energy Efficiency Standards. Contact: Joe Loyer.
 - d. CITY OF REDWOOD CITY. Possible approval of the City of Redwood City's proposed locally adopted energy standards for residential and nonresidential newly constructed buildings and additions and alterations to existing buildings to require greater energy efficiency than the 2008 Building Energy Efficiency Standards. Contact: Joe Loyer.
 - e. CITY OF LOS ALTOS. Possible approval of the City of Los Altos' proposed locally adopted energy standards for residential and nonresidential newly constructed buildings and additions and alterations to existing buildings to require greater energy efficiency than the 2008 Building Energy Efficiency Standards. Contact: Joe Loyer.
 - f. NCPA-2 POWER PLANT (79-AFC-2C). Possible approval of a petition by the Department of Interior, U.S. Geological Survey (USGS) to amend the Energy Commission's Decision on the NCPA-2 Power Plant by removing the USGS as the primary compliance agency of authority for the power plant's license and terminating the Memorandum of Understanding with the Energy Commission. Contact: Chris Marxen.

Commissioner Byron moved and Vice Chair Boyd seconded approval of the Consent Calendar. The vote was unanimous. (5-0)

2. CALIFORNIA EMPLOYMENT TRAINING PANEL. Possible approval of Contract 600-09-016 for \$6 million with the California Employment Training Panel to train current employees (through businesses) and unemployed individuals (through training agencies) in alternative and renewable fuels and vehicle technologies program-specific training. The California Employment Training Panel will develop and execute subcontracts with private sector businesses and workforce training entities to complete this contract. (ARFVT funding.) Contact: Darcie Chapman. (5 minutes)

Vice Chair Boyd moved and Commissioner Eggert seconded approval of Contract 600-09-016. The vote was unanimous. (5-0)

3. SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. Possible approval of Agreement ARV-09-002, awarding \$5,142,000 to the South Coast Air Quality Management District to replace up to 180 heavy-duty diesel drayage trucks used at the Ports of Los Angeles and Long Beach with commercially available new 2009 or 2010 model year heavy-duty state-of-the-art ultra clean natural gas powered trucks. The U. S. Department of Energy is providing \$9,408,389 of American Recovery and Reinvestment Act funding. (ARFVTF funding) Contact: Jennifer Allen. (5 minutes)

Commissioner Byron moved and Vice Chair Boyd seconded approval of Agreement ARV-09-002. The vote was unanimous. (5-0)

4. CALIFORNIA RURAL HOUSING MUNICIPAL FINANCE AUTHORITY HOMEBUYERS FUND. Possible approval of Contract 400-09-016 for \$16.5 million with California Rural Housing Municipal Finance Authority Homebuyers Fund) to establish the Moderate Income Sustainable Technology (MIST) Program. The MIST program will create a sustainable revolving loan program, facilitate Federal Housing Administration 203(k) program financing, and provide partial grants for comprehensive Third Tier energy efficiency retrofit projects for rural California homeowners in low-to-moderate income sectors. (ARRA funding.) Contact: Adrian Ownby. (5 minutes)

Commissioner Weisenmiller moved and Commissioner Byron seconded approval of Contract 400-09-016. The vote was unanimous. (5-0)

5. SAN FRANCISCO MAYOR'S OFFICE OF HOUSING. Possible approval of Contract 400-09-019 for \$2,993,029 with the San Francisco Mayor's Office of Housing to establish the Affordable Multifamily Retrofit Initiative in the City and County of San Francisco, the City of Berkeley and the City of Oakland. The Initiative will create a revolving loan fund that will provide capital for energy efficiency and water conservation improvements for affordable multifamily projects, and thereby preserve the affordability of thousands of units of multifamily housing serving low-income tenants throughout the San Francisco Bay Area. (ARRA funding.) Contact: Adrian Ownby. (5 minutes)

Commissioner Eggert moved and Commissioner Weisenmiller seconded approval of Contract 400-09-019. The vote was unanimous. (5-0)

6. SAN FRANCISCO PUBLIC UTILITIES COMMISSION. Possible approval of Contract 400-09-018 for \$2,080,000 with the San Francisco Public Utilities Commission to establish the GreenFinanceSF Program in the City and County of San Francisco. The program will allow the City of San Francisco to sell microbonds for Tier II and Tier III residential retrofit projects to bond buyers, who will receive a solid return on an investment in real estate improvements that benefit the environment and the community. (ARRA funding.) Contact: Adrian Ownby. (5 minutes)

Commissioner Byron moved and Commissioner Eggert seconded approval of Contract 400-09-018, contingent upon the outcome of judicial proceedings in the matter of Western Riverside Council of Governments v. California Energy Commission. The vote was unanimous. (5-0)

7. COUNTY OF HUMBOLDT. Possible approval of Contract 400-09-017 for \$4,384,349 with the County of Humboldt to franchise the Sonoma County Energy Independence Program's municipal financing program design, marketing strategies and financing concepts throughout the North Coast region. This will enable property owners in Mendocino, Lake, Humboldt, Del Norte, Trinity and Siskiyou counties to finance permanent energy efficiency, water conservation or clean generation improvements on their property. (ARRA funding.) Contact: Angela Gould. (5 minutes)

Commissioner Eggert moved and Commissioner Byron seconded approval of Contract 400-09-017 contingent upon the outcome of judicial proceedings in the matter of Western Riverside Council of Governments v. California Energy Commission. The vote was unanimous. (5-0)

8. MCKINLEYVILLE COMMUNITY SERVICES DISTRICT. Possible approval of Agreement 013-09-ECE-ARRA for a \$165,100 loan to the McKinleyville Community Services District to upgrade old pumps at the Grant Ramey Pump Station. This portion of the project will save the district approximately 56,900 kilowatt hours or \$12,700 annually, in addition to approximately 48,900 pounds of carbon dioxide equivalent greenhouse gas emission. Based on the loan amount, the simple payback is approximately 13 years. (ARRA funding.) Contact: Shahid Chaudhry. (5 minutes)

Vice Chair Boyd moved and Commissioner Eggert seconded approval of Agreement 013-09-ECE-ARRA. The vote was unanimous. (5-0)

9. ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT AWARDS. Possible approval of 11 Energy Efficiency and Conservation Block Grant (EECBG) Program grant agreements awarding \$1,037,133 in American Recovery and Reinvestment Act of 2009 funds. These awards provide grant funding to eligible small cities and counties in California to install eligible cost-effective energy efficiency retrofits within their jurisdictions. The EECBG program allows for the purchase and installation of specific energy efficiency measures. The following proposals are Direct Equipment Purchase projects. Contact: Deborah Godfrey. (10 minutes)
 - a. CITY OF PISMO BEACH. Grant agreement CBG-09-116, awarding \$46,402 to upgrade streetlights, install variable frequency drives, retrofit interior lighting, install occupancy sensors, and retrofit exterior lighting to induction.
 - b. CITY OF SAN JUAN CAPISTRANO. Grant agreement CBG-09-018, awarding \$189,031 to retrofit existing City-wide high pressure sodium streetlights and parking lights with induction lighting.
 - c. TOWN OF COLMA. Grant agreement CBG-09-088, awarding \$25,000 to replace 32 high pressure sodium streetlights with LED replacement fixtures and replace 30 high pressure sodium pedestrian streetlights with induction streetlights.
 - d. CITY OF IMPERIAL BEACH. Grant agreement CBG-09-104, awarding \$145,393 to replace 159 high pressure sodium, low pressure sodium and mercury

vapor streetlights with induction streetlights.

- e. CITY OF GRAND TERRACE. Grant agreement CBG-09-072, awarding \$69,640 to upgrade lighting, and replace eight HVAC units totaling 40 tons.
- f. CITY OF SAN PABLO. Grant agreement CBG-09-112, awarding \$169,886 to replace high pressure sodium and metal halide streetlights and parking lights with LED lights, upgrade interior lights, and install occupancy sensor controls.
- g. TOWN OF LOOMIS. Grant agreement CBG-09-115, awarding \$37,403 to retrofit streetlights from high pressure sodium to induction lamps.
- h. CITY OF CANYON LAKE. Grant agreement CBG-09-069, awarding \$57,674 to upgrade two HVAC units, convert regular thermostats to programmable units, install dual technology sensors, convert 39 traffic signals from incandescent to LED, and upgrade 450 T12 and 250 ballasts to T8 and electronic ballasts.
- i. CITY OF LA HABRA HEIGHTS. Grant agreement CBG-09-113, awarding \$32,860 to replace HVAC units, upgrade lighting, replace incandescent exit signs, upgrade T-12 lamps to T8 with electronic ballasts, and install photo cell control sensors.
- j. CITY OF WILDOMAR. Grant agreement CBG-09-114, awarding \$134,140 to replace incandescent vehicle traffic signals and old vehicle LED traffic signals. Also replacing existing high pressure sodium parking lot lighting with induction lighting.
- k. CITY OF BLYTHE. Grant agreement CBG-09-110, awarding \$129,704 to upgrade lighting and install Dual Technology Occupancy Sensors and LED exit signs.

Item 9k was moved to the May 12 agenda. Commissioner Byron moved and Vice Chair Boyd seconded approval of the remaining 10 agreements. The vote was unanimous. (5-0)

10. ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT AWARDS. Possible approval of seven Energy Efficiency and Conservation Block Grant (EECBG) Program grant agreements awarding \$1,576,506 in American Recovery and Reinvestment Act of 2009 (ARRA) funds. These awards provide grant funding to eligible small cities and counties within California to install eligible cost-effective energy efficiency retrofits within their jurisdictions. The EECBG program allows for the purchase and installation of specific energy efficiency measures. The following Energy Efficiency Projects are proposed for the following jurisdictions. Contact: Deborah Godfrey. (10 minutes)

- a. CITY OF DINUBA. Grant agreement CBG-09-055 awarding \$114,827 to retrofit existing street lighting, install occupancy sensors and daylight controllers, and install network thermostat to control HVAC system at various locations.
- b. CITY OF LAGUNA WOODS. Grant agreement CBG-09-008, awarding \$99,416 to retrofit the lighting and roof mounted HVAC systems at City Hall to a more energy efficient system, and replace south facing single pane windows with energy efficient, dual pane, low E2 windows.

- c. CITY OF VILLA PARK. Grant agreement CBG-09-077, awarding \$32,411 to retrofit the lighting systems and the 10-ton HVAC unit and controls at City Hall to a more energy efficient systems and controls.
- d. CITY OF DEL REY OAKS. Grant agreement CBG-09-108, awarding \$15,811 to retrofit the lighting systems and controls at multiple city owned facilities to a more energy efficient lighting system. Single pane windows on the south facing side of City Hall building will be replaced with the latest energy efficient, dual pane, low E2 windows.
- e. COUNTY OF STANISLAUS. Grant agreement CBG-09-111, awarding \$671,249 to replace the HVAC systems at the County's Juvenile Detention Facility. In addition, 276 street light fixtures will be retrofitted from the existing high pressure sodium and mercury vapor technologies to induction technology.
- f. COUNTY OF SANTA CLARA. Grant agreement CBG-09-105, awarding \$553,438 to retro-commission and install lighting controls at four county owned facilities.
- g. TOWN OF TRUCKEE. Grant agreement CBG-09-109, awarding \$89,354 to retrofit T12 fluorescent light fixtures to T8, and install daylight controls, premium efficiency motors, and network thermostat controls.

Commissioner Eggert moved and Commissioner Weisenmiller seconded approval of the seven agreements. The vote was unanimous. (5-0)

- 11. TOWN OF MAMMOTH LAKES. Possible approval of Agreement 05-09-ECA for a \$60,000 loan to the Town of Mammoth Lakes to install three high efficiency boilers. This project is estimated to save \$10,265 annually in reduced energy costs with a simple payback of 5.85 years based on the loan amount. (ECAA funding.) Contact: Anne Fisher. (5 minutes)

Vice Chair Boyd moved and Commissioner Byron seconded approval of Agreement 05-09-ECA. The vote was unanimous. (5-0)

- 12. SOMIS UNION ELEMENTARY SCHOOL DISTRICT: Possible approval of Agreement 009-09-ECA for a loan of \$245,369 to the Somis Union Elementary School District for energy efficiency upgrades to school lighting systems and installation of a PV system at Somis Elementary School. These projects are estimated to save the District 156,433 kilowatt hours annually, which is equivalent to \$22,307 in reduced energy costs. (ECAA funding.) Contact: Haile Bucaneg. (5 minutes)

Commissioner Byron moved and Commissioner Eggert seconded approval of Agreement 009-09-ECA. The vote was unanimous. (5-0)

- 13. COUNTY OF MARIN: Possible approval of Agreement 008-09-ECA for a loan of \$1,398,441 to the County of Marin to implement energy efficiency measures. Projects include upgrades of HVAC systems, insulation, and LED lighting at county facilities. These projects will save the County of Marin approximately 547,565 kWh and 55,682 therms annually, resulting in energy cost savings of \$127,131. (ECAA funding.) Contact: Haile Bucaneg. (5 minutes)

Commissioner Eggert moved and Vice Chair Boyd seconded approval of Agreement 009-09-ECA. The vote was unanimous. (5-0)

14. TOWN OF MORAGA: Possible approval of Agreement 007-09-ECA for a loan of \$198,935 for the Town of Moraga to implement several energy efficiency measures including HVAC upgrades, lighting controls, installation of LED lights and installation of a 35 kW photovoltaic system at the city Police Department. These projects will save the Town of Moraga approximately 120,000 kWh and 5156 therms annually, resulting in annual energy cost savings of \$18,085. (ECAA funding.) Contact: Haile Bucaneg. (5 minutes)

Commissioner Eggert moved and Commissioner Byron seconded approval of Agreement 007-09-ECA. The vote was unanimous. (5-0)

15. CALIFORNIA WIND ENERGY COLLABORATIVE. Possible approval of Contract 400-09-015 for \$65,000 with the UC Davis California Wind Energy Collaborative to develop the Small Wind Energy Estimation Tool (SWEET) to evaluate the performance of small wind turbines and provide an economic analysis of the payback on investment. (RRTF funding.) Contact: Tony Goncalves. (5 minutes)

Commissioner Byron moved and Vice Chair Boyd seconded approval of Contract 400-09-015. The vote was unanimous. (5-0)

16. UNIVERSITY OF CALIFORNIA, SAN DIEGO. Possible approval of Contract 500-09-043 for \$1.3 million with the University of California, San Diego, to collect particulate data and analyze the interaction between airborne particles, clouds and precipitation. The data will be used to test and improve regional climate models. Scientists will also study the magnitude of the effects of black carbon on snow reflectivity in a laboratory setting to understand the impact of black carbon on California's hydrological cycle. (PIER electricity funding.) Contact: Guido Franco. (5 minutes)

Vice Chair Boyd moved and Commissioner Byron seconded approval of Contract 500-09-043. The vote was unanimous. (5-0)

17. LAWRENCE BERKELY NATIONAL LABORATORY. Possible approval of Contract 500-09-042 for \$1,263,300 with Lawrence Berkeley National Laboratory to evaluate the exposure to unvented combustion gases in California homes, and emissions from advanced technology residential water heaters. The project will collect data from a minimum of 100 homes. (PIER natural gas funding.) Contact: Marla Mueller. (5 minutes)

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of Contract 500-09-042. The vote was unanimous. (5-0)

18. UNIVERSITY OF CALIFORNIA, IRVINE. Possible approval of Contract 500-09-040 for \$499,980 with the University of California, Irvine Advanced Power and Energy Program to evaluate the potential air quality implications of the California renewable portfolio standard. (PIER electricity funding.) Contact: Marla Mueller. (5 minutes)

Commissioner Weisenmiller moved and Vice Chair Boyd seconded approval of Contract 500-09-040. The vote was unanimous. (5-0)

19. CALIFORNIA REPORTING, LLC. Possible approval of Contract 170-09-001 for \$200,000 with California Reporting, LLC, to provide Hearing Reporter services for siting case hearings and workshops for three years. (ERPA funding.) Contact: Katherine Nicholls. (5 minutes)

Item 19 was removed from the agenda.

20. **Minutes:** Approval of the April 7, 2010, Business Meeting Minutes.

Vice Chair Boyd moved and Commissioner Weisenmiller seconded approval of the Minutes. The vote was 3-0-2. Commissioners Byron and Eggert abstained.

21. **Commission Committee Presentations and Discussion:**

Vice Chair Boyd reported on the recent meeting of the AB 118 Advisory Committee.

Commissioner Byron reported that the State Water Resources Control Board has adopted a once-through cooling policy for power plants.

Commissioner Eggert reported on the recent Hydrogen Conference and Expo in Long Beach and challenged Energy Commission staff to participate in Bike Month during May.

Commissioner Weisenmiller reported on the recent Earth Day event at California State University, Sacramento.

22. **Chief Counsel's Report:** None.
23. **Executive Director's Report:** Chief Deputy Director Claudia Chandler gave the report.
24. **Public Adviser's Report:** None.
25. **Public Comment:** None.
26. **Internal Organization and Policy.** No discussion.

Appearances:

Mr. Brian McMahon, Employment Training Panel

Ms. Peggy Jenkins, California Air Resources Board

There being no further business, the meeting was adjourned.

Respectfully submitted,

HARRIET KALLEMEYN
Secretary to the Commission