

**State of California**  
California Energy Commission  
Minutes of the June 12, 2013 Energy Commission Business Meeting

The meeting was called to order by Chair Robert W. 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

*Commissioner Douglas disclosed for the record that she is an adjunct professor at King Hall, the U. C. Davis School of Law. King Hall is a different department than the UC departments interested in agreements to be considered today, and therefore there is no conflict of interest. She further disclosed that she is team teaching with Chief Counsel Michael Levy, and therefore the disclosure relates to him as well.*

*Commissioner Hochschild stated that his wife has recently been appointed a tenured faculty member at U. C. Davis, King Hall, and therefore the same disclosure applies to him with respect to agenda items involving the U. C. system.*

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. CLEAN ENERGY STATES ALLIANCE. Possible approval of Agreement 400-12-001 for a \$48,000 membership contract with the Clean Energy States Alliance to renew the Energy Commission's membership for one year. Clean Energy States Alliance is a unique multistate collaboration of public clean energy funds and state agencies working together to develop and promote clean energy and low-carbon technologies and expand the market for these technologies. (RRTF funding) Contact: Otto Tang.
  - b. CITY OF RIVERSIDE. Possible approval of the Executive Director's recommendation that the City of Riverside's contract with CalEnergy, LLC, and an amendment to an existing contract with Salton Sea Power, LLC, be found compliant with the Emission Performance Standard for Local Publicly Owned Electric Utilities pursuant to SB 1368 (California Code of Regulations, Title 20, Sections 2900-2913). Contact: Michael Nyberg.
  - c. NATIONAL ASSOCIATION OF STATE ENERGY OFFICIALS. Possible approval of Agreement 160-12-002 for a \$19,759 membership contract with the National Association of State Energy Officials (NASEO) for a two-year membership which allows 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 to exchange information, ideas and resources; and to learn about new funding and partnership opportunities. (ERPA funding) Contact: Mary Cole.
  - d. BIODIESEL INDUSTRIES OF VENTURA, LLC. Possible approval of Amendment 1 to Grant Agreement PIR-11-030 with Biodiesel Industries of Ventura, LLC to delete references to the former biodiesel demonstration project

- site at Navy Base in Port Hueneme, CA. The total agreement amount and term remain unchanged. (PIER natural gas funding) Contact: Felix Villanueva.
- e. VENTYX. Possible approval of Purchase Order 12-435.01-026 for \$73,416 to renew the Energy Commission's subscription to the Ventyx Velocity Suite through March 2014. Electricity Analysis Office staff use the Energy Velocity data service to analyze energy system operations and market trends, respond to energy-related inquiries, and develop model inputs regarding various aspects of electricity systems throughout the Western grid. (ERPA funding)  
Contact: Christopher McLean.
  - f. ENERGY EXEMPLAR. Possible approval of Purchase Order 12-435.01-028 for \$95,865 to renew the Energy Commission's license to the PLEXOS for Power Systems software, produced by Energy Exemplar, through June 2014. Electricity Analysis Office staff use the PLEXOS production cost modeling software to simulate the California and Western United States electric grids, analyze energy system operations and market trends, and inform California energy policy decisions through the IEPR process and other forums. (ERPA funding)  
Contact: Christopher McLean.
  - g. PACIFIC COAST REGIONAL SMALL BUSINESS DEVELOPMENT CORPORATION. Possible approval of Agreement 600-12-015 with Pacific Coast Regional Small Business Development Corporation for a \$275,000 contract to provide loan servicing and financial review for the existing Clean Energy Business Financing Program through the end term of each loan. (CEBFP Revolving Loan Funding) Contact: Jacob Orenberg.
  - h. CALIFORNIA INSTITUTE FOR ENERGY AND ENVIRONMENT. Possible approval of Agreement 500-12-011 with the Regents of the University of California on behalf of the California Institute for Energy and Environment (CIEE) for a \$751,928 Interagency Agreement to assist the Energy Commission in the technical assessments, tracking of field activities, and other associated duties for the U.S. Department of Energy-funded West Coast Regional Carbon Sequestration Partnership (WESTCARB) grant. This contract is part of the DOE required costs share for the WESTCARB grant. (PIER electricity Funding)  
Contact: Mike Gravely.
  - i. UC BERKELEY. Possible approval of Agreement 500-12-013 with the Regents of the University of California on behalf of the Berkeley campus for a \$515,000 Interagency Agreement to update and enhance the Cal-Adapt website and to manage the Fourth California Climate Assessment. This agreement does not include any match funding. (ERPA funding) Contact: Janna Franks.
  - j. ELECTRIC POWER RESEARCH INSTITUTE. Possible approval of Amendment 1 to Grant Agreement ARV-11-013 with the Electric Power Research Institute (EPRI) to augment the grant by \$220,908 for a new total agreement amount of \$1,185,118, correct an administrative error made under the original grant agreement, and change its fleet partners to the City of Sacramento, City of Los Angeles, and City of San Francisco for the demonstration of five Odyne pre-commercial Gen2 Advanced Technology Plug-In Hybrid Electric work trucks. This agreement will include \$671,571 in match funds. (Alternative and Renewable Fuel and Vehicle Technology (ARFVTP) funding) Contact: Aida Escala.

- k. MACRO INTERNATIONAL. Possible approval of Amendment 2 to Contract 600-10-011 with Macro International to augment the agreement by \$67,000. The purpose of the agreement is to complete a survey of both commercial and residential vehicle owners in California, collect survey data, and estimate light duty vehicle choice models that are used in forecasting commercial and residential vehicle demand and transportation energy policy analysis. The additional funds will be used to improve sample productivity of commercial vehicle survey and increase the number of completed surveys of commercial fleet owners. This agreement does not include any match funding. (ERPA funding) Contact: Aniss Bahreinian.
- l. CITILABS, INC. Possible approval of Purchase Order 12-445.01-022 with Citilabs, Inc. for \$18,025 for software license and maintenance agreements to run the Caltrans California Statewide Travel Demand Model (CSTDM) at the Energy Commission. Using CSTDM data will improve fuel demand forecasting for the Integrated Energy Policy Report and allow staff to conduct a more detailed analysis of travel behavior. (ERPA funding) Contact: Bob McBride.
- m. STANFIELD SYSTEMS, INC. Possible approval of Purchase Order 12-409.00-014 with Stanfield Systems, Inc. for \$177,789 to provide data management and consulting services to improve fuel demand forecasting for the Integrated Energy Policy Report. Services include a Data Solutions Report proposing recommendations on how staff will manage and update fuel demand forecasting model data in the future. The Stanfield Systems team includes travel and goods movement demand modeling consultants from Cambridge Systematics. (ERPA funding) Contact: Bob McBride.
- n. UC DAVIS. Possible approval of Agreement 600-12-012 with the Regents of University of California, Davis for a \$74,800 Interagency Agreement to evaluate options to integrate personal light duty vehicle choice and utilization models, using the survey results of the newly integrated 2013 Caltrans and Commission's travel and vehicle surveys of California households. The feasibility study will result in a set of final recommendations for model improvements that will improve forecast quality. (ERPA funding) Contact: Aniss Bahreinian.
- o. CALSTART, INC. Possible approval of Agreement 600-12-014 with CALSTART, Inc. for a \$14,997 membership in the California Plug-In Electric Vehicle Collaborative (PEVC) for three fiscal years (2012/13, 2013/14, and 2014/15). Annual membership fees are \$4,999. Future fiscal year memberships are contingent upon the availability of funds for these purposes. This membership allows the Energy Commission to participate in PEVC working groups which will assist in the Energy Commission's strategic deployment of electric vehicle service equipment under the ARFVTP program. (ARFVTP funding) Contact: Jennifer Allen.
- p. COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS, INC. Possible approval of Agreement 600-12-017 with Collaborative for High Performance Schools, Inc., (CHPS) for a \$14,997 membership in CHPS for three fiscal years (2012/13, 2013/14, and 2014/15). Annual membership fees are \$4,999. Future fiscal year memberships are contingent upon the availability of funds for these purposes. This membership allows the Energy Commission a seat on the Board of Directors. Continued membership is essential to ensure school energy efficiency

concerns are adequately addressed. (ERPA and ECAA funding.) Contact: Elizabeth Shirakh.

- q. REDWOOD CITY UNIFIED SCHOOL DISTRICT. Possible approval of Agreement 015-12-ECD with the Redwood City Unified School District for a \$1,439,914 loan at 1% interest to retrofit lighting and install occupancy sensors at 17 schools in the district. Based on the loan amount, the simple payback is approximately 13 years. The District expects to receive \$37,378 in utility rebates from Pacific Gas and Electric. This project is estimated to save \$110,763 annually. (ECAA program funding) Contact: Anne Fisher.

*Commissioner Douglas moved and Commissioner McAllister seconded approval of the Consent Calendar. 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. (5 minutes)

*No action was taken on Item 2.*

3. MEMORANDUM OF UNDERSTANDING (MOU) BETWEEN THE ADVANCED RESEARCH PROJECTS AGENCY – ENERGY (ARPA-E) AND THE CALIFORNIA ENERGY COMMISSION. Possible adoption of an MOU between ARPA-E and the California Energy Commission to strategically coordinate research and development programs. Contact: Grant Mack. (5 minutes)

*Commissioner Douglas moved and Commissioner McAllister seconded adoption of the MOU. The vote was unanimous. (5-0)*

4. SUMMER 2013 ASSESSMENT. Joint presentation by the Electricity Supply Analysis Division (ESAD) and the California Independent System Operator on 2013 reserve and operating margins, information related to the outage at the San Onofre Nuclear Generating Station, and ESAD's transition to multi-year summer planning. Contact: Marc Pryor. (15 minutes)

*Item 4 was presented for information only.*

5. ENFORCEMENT PROCEDURES FOR THE RENEWABLES PORTFOLIO STANDARD FOR LOCAL PUBLICLY OWNED ELECTRIC UTILITIES (RPS Proposed Regulations). Possible approval of proposed regulations specifying rules and procedures for enforcement of the Renewables Portfolio Standard (RPS) for local publicly owned electric utilities (POUs) pursuant to Public Utilities Code section 399.30(I). Possible approval of a proposed Negative Declaration for these proposed regulations in accordance with the California Environmental Quality Act. Contact: Angie Gould. (45 minutes)

*Commissioner Douglas moved and Commissioner Hochschild seconded approval of the regulations. The vote was unanimous. (5-0)*

6. MARIPOSA ENERGY PROJECT (09-AFC-3C). Possible approval of a petition to amend the Mariposa Energy Project (MEP) to change the maximum allowable hourly and daily fuel throughput and heat throughput rate for the MEP combustion turbines, and increase the electrical output of MEP on hot days by approximately four megawatts, without physical alteration or modification. The project applicant is not requesting any changes to the hourly, daily, or annual emission limits. Air emissions would increase slightly but stay well within the permitted limits for all pollutants. Contact: Craig Hoffman. (10 minutes)

*Commissioner Douglas moved and Commissioner Hochschild seconded approval of the petition. The vote was unanimous. (5-0)*

7. EL SEGUNDO ENERGY CENTER (00-AFC-14C). Possible assignment of a committee to oversee an amendment to the El Segundo Energy Center (ESEC). On April 23, 2013, El Segundo Energy Center, LLC filed a petition with the California Energy Commission to replace utility boiler Units 3 and 4 with one new combined cycle generator (Unit 9), one steam turbine generator (Unit 10) and two simple-cycle gas turbines (Units 11 and 12) for the ESEC project totaling 449 MW. Contact: Craig Hoffman. (10 minutes)

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

8. VICTORVILLE 2 HYBRID POWER PROJECT (07-AFC-1C). Possible approval of a Petition to Extend the Deadline for the Start of Construction for an additional five years, from July 16, 2013 to July 16, 2018. Contact: Mary Dyas (10 minutes).

*Commissioner McAllister moved and Commissioner Douglas seconded approval of the petition. The vote was unanimous. (5-0)*

9. 2013 BUILDING ENERGY EFFICIENCY STANDARDS COMPLIANCE MANUALS. Contact: Maziar Shirakh. (15 minutes)

- a. Possible certification of the Residential Compliance Manual and associated compliance documents for the 2013 Building Energy Efficiency Standards as required by Public Resources Code Section 25402.1(e).
- b. Possible certification of the Nonresidential Compliance Manual and associated compliance documents for the 2013 Building Energy Efficiency Standards as required by Public Resources Code Section 25402.1.(e).

*Commissioner McAllister moved and Commissioner Scott seconded approval of the Compliance Manuals. The vote was 4-0, Commissioner Douglas having left the dais.*

10. 2013 BUILDING ENERGY EFFICIENCY STANDARDS RESIDENTIAL AND NONRESIDENTIAL ALTERNATIVE CALCULATION METHOD (ACM). Contact: Martha Brook. (45 minutes)

- a. 2013 RESIDENTIAL ACM REFERENCE MANUAL. Possible certification of the 2013 Residential ACM Reference Manual, as required by Public Resources Code Section 25402.1(e). The Residential ACM Reference Manual documents the modeling methods to be used in the 2013 Residential Compliance Software used to demonstrate performance compliance with the Residential provisions of the 2013 Building Energy Efficiency Standards.
- b. 2013 NONRESIDENTIAL ACM REFERENCE MANUAL. Possible certification of the 2013 Nonresidential ACM Reference Manual as required by Public Resources Code Section 25402.1(e). The Nonresidential ACM Reference Manual documents the modeling methods to be used in the 2013 Residential Compliance Software used to demonstrate performance compliance with the Nonresidential provisions of the 2013 Building Energy Efficiency Standards. .
- c. 2013 PUBLIC DOMAIN RESIDENTIAL ACM. Possible conditional approval of the 2013 Public Domain Residential ACM software used to demonstrate performance compliance with the Residential provisions of the 2013 Building Energy Efficiency Standards. (Public Resources Code Section 25402.1(a)). Possible direction to the Executive Director to approve updates of the software to ensure the software accurately reflects the requirements of the 2013 Building Energy Efficiency Standards.
- d. PUBLIC DOMAIN NONRESIDENTIAL ACM. Possible conditional approval of the 2013 Public Domain Nonresidential ACM Software used to demonstrate

performance compliance with the Nonresidential provisions of the 2013 Building Energy Efficiency Standards. (Public Resources Code Section 25402.1(a).) Possible direction to the Executive Director to approve updates of the software to ensure the software accurately reflects the requirements of the 2013 Building Energy Efficiency Standards.

*Commissioner Douglas returned to the Dais. Items 10e and 10d were removed from the agenda. Commissioner Hochschild moved and Commissioner Douglas seconded approval of the reference manuals, Items 10a and 10b. The vote was unanimous. (5-0)*

11. NONRESIDENTIAL AND RESIDENTIAL BUILDING ENERGY SCIENCE TECHNICAL SUPPORT, RFQ-12-401 AND RFQ-12-402. These solicitations sought proposals from qualified consultants to provide technical support for revising the 2013 California Building Efficiency Standards for 2016, developing Compliance Tools for 2013 and 2016 for building standards and developing and implementing the Comprehensive Energy Efficiency Program for Existing Buildings. (ERPA and SEP funding) Contact: Samuel Lerman. (5 minutes)
  - a. ARCHITECTURAL ENERGY CORPORATION. Possible approval of Agreement 400-12-003 with Architectural Energy Corporation for a \$3,993,879 contract to provide technical assistance for the development of the 2016 Nonresidential Building Energy Efficiency Standards (Nonresidential Standards), develop compliance tools for the 2013 and 2016 Nonresidential Standards, and develop and implement the nonresidential portions of the Comprehensive Energy Efficiency Program for Existing Buildings (AB 758).
  - b. BRUCE A. WILCOX, P.E. Possible approval of Agreement 400-12-002 with Bruce A. Wilcox, P.E., for a \$4,493,879 contract to provide technical assistance for the development of the 2016 Residential Building Energy Efficiency Standards (Residential Standards), develop compliance tools for the 2013 and 2016 Residential Standards, and develop and implement the residential portions of the Comprehensive Energy Efficiency Program for Existing Buildings (AB 758).

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

The meeting was recessed for one hour beginning at 12 noon, and reconvened at 1:00 p.m.

12. ALTERNATIVE AND RENEWABLE FUEL AND VEHICLE TECHNOLOGY PROGRAM INVESTMENT PLAN UPDATE. Possible approval of modifications to funding allocations for the 2012-2013 Investment Plan Update for the Alternative and Renewable Fuel and Vehicle Technology Program. The modifications total \$8 million and provide additional funding for the deployment of light-duty plug-in electric vehicles. Contact: Jim McKinney. (20 minutes)
13. CALIFORNIA AIR RESOURCES BOARD. Possible approval of Amendment 1 to Contract 600-12-004 with California Air Resources Board to add \$8 million in FY 2012-2013 funds to provide additional funding for the Clean Vehicle Rebate Project for qualified electric drive vehicles, and to allow an additional \$5 million to be added in FY 2013-2014, as contemplated by the 2013-2014 Investment Plan Update. (ARFVTP funding) Contact: Jennifer Masterson. (10 minutes)

*Commissioner McAllister recused himself and left the room before consideration of Items 12 and 13, stating that his former employer will receive incentive funds if the investment plan is approved.*

*Commissioner Scott moved and Commissioner Hochschild seconded approval of 12 and 13. The vote was unanimous. (4-0)*

*Commissioner McAllister returned to the dais.*

14. HYDROGEN FUEL INFRASTRUCTURE, PON-12-606. This grant solicitation sought proposals to develop infrastructure necessary to dispense hydrogen transportation fuel. These stations will help build an early commercial network of hydrogen fueling stations to supply fuel cell vehicles with hydrogen fuel. Hydrogen fuel cell technology for transportation represents a significant option to reduce greenhouse gas emissions and displace the use petroleum fuels in California. (ARFVTP funding) Contact: Tobias Muench. (20 minutes)
  - a. LINDE, LLC. Possible approval of Agreement ARV-12-057 with Linde, LLC for a \$4.5 million grant to install three hydrogen fueling stations in the cities of Mountain View, Cupertino and Foster City, California. The agreement includes \$3,069,948 in match funding.
  - b. AIR PRODUCTS AND CHEMICALS, INC. Possible approval of Agreement ARV-12-059 with Air Products and Chemicals, Inc. for a \$2,999,172 grant to install two hydrogen fueling stations and to automate trailer loading operations at the Southern California Fill System. The agreement includes \$1,614,927 in match funding.
  - c. HYDROGEN FRONTIER, INC. Possible approval of Agreement ARV-12-061 with Hydrogen Frontier, Inc. for a \$3 million grants to build a 100% renewable hydrogen fueling station in Chino, CA. This agreement includes \$1,615,385 in match funding.
  - d. AIR LIQUIDE INDUSTRIAL US LP. Possible approval of Agreement ARV-12-062 with Air Liquide Industrial US LP for a \$1.5 million grant to build a hydrogen fueling station in Anaheim, CA. This agreement includes \$933,996 in match funding.

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

15. SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. Possible approval of Agreement 600-12-018 with the South Coast Air Quality Management District for a \$6,690,828 contract to assess, upgrade, test, and evaluate existing, publicly-accessible hydrogen fueling stations in California. (ARFVTP funding) Contact: Phil Cazel. (5 minutes)

*Commissioner Scott moved and Commissioner Douglas seconded approval of Item 15. The vote was unanimous. (5-0)*

16. SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. Possible approval of Agreement 600-12-011 with South Coast Air Quality Management District for a \$1.6 million contract to retrofit five Class 8 heavy duty electric trucks for use with the proprietary Siemens pantograph system. (ARFVTP funding) Contact: Isaiah Larsen. (5 minutes)

*Commissioner Scott moved and Commissioner Hochschild seconded approval of Item 16. The vote was unanimous. (5-0)*

17. SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. Possible approval of Agreement 500-12-012 with the South Coast Air Quality Management District for a \$2 million contract to collaborate with the Energy Commission and additional funding partners to develop and implement a solicitation for the development and demonstration of advanced natural gas engine(s) for heavy-duty vehicles with near zero nitrogen oxide emissions. (PIER natural gas funding) Contact: Pilar Magana. (5 minutes)

*Commissioner Scott moved and Commissioner Douglas seconded approval of Item 17. The vote was unanimous. (5-0)*

18. ALTERNATIVE FUELS INFRASTRUCTURE: ELECTRIC, NATURAL GAS, PROPANE, E85 & DIESEL SUBSTITUTES TERMINALS, PON-11-602. This grant solicitation sought proposals for projects that establish infrastructure necessary to store, distribute and dispense the following alternative transportation fuels: 1) Electricity; 2) Ethanol (E85); 3) Propane; 4) Diesel Substitutes; and 5) Natural gas (compressed or liquefied). (ARFVTP funding) Contact: Lindsee Tanimoto. (10 minutes)
- a. FIRSTCNG, LLC. Possible approval of Agreement ARV-12-058 with FirstCNG, LLC for a \$300,000 grant to construct a compressed natural gas fueling station to support fuel requirements of local taxis, commercial services, vans, trucks, and transport vehicles. This project is projected to displace 202,500 gallons of imported diesel fuel per year and reduce transportation related greenhouse gas emissions by over 725 metric tons per year in California. This agreement includes \$945,000 in match funding.
  - b. SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. Possible approval of Agreement ARV-12-053 with South Coast AQMD for a \$300,000 grant to install, commission, collect data, and assess the performance of a smart grid enabled fast charging network. The 20 sites will be located at Ralph and Albertsons grocery stores in the South Coast Air Basin. This agreement includes \$600,000 in match funding.
  - c. WASTE MANAGEMENT OF CALIFORNIA, INC. Possible approval of Agreement ARV-12-060 with Waste Management of California, Inc., for a \$300,000 grant to construct a compressed natural gas fueling station in Oceanside, CA. This station will support the fuel requirements of the existing and planned expansion of refuse collection, transfer vehicles, and other fleets in the region. This project is projected to displace 382,200 gallons of imported diesel fuel per year and reduce transportation related greenhouse gas emissions by over 1,373 metric tons per year in the air basin. This agreement includes \$1.7 million in match funding.
  - d. BONITA USD. Possible approval of Agreement ARV-12-042 with Bonita Unified School District for a \$300,000 grant to build, own, and operate a new compressed natural gas (CNG) fueling station in the existing school bus parking lot which will provide both time-fill and fast-fill CNG fueling for school buses and maintenance vehicles. Fleet miles traveled will be reduced by 16,000 per year by avoiding trips for fueling off campus. This agreement includes \$210,962 in match funding.
  - e. AEROVIRONMENT, INC. Possible approval of Amendment 1 to Grant Agreement ARV-12-023 with AeroVironment, Inc. (Cal Electric Residential EVSE Deployment Program ) to augment the agreement by \$1,707,847 for a new total of \$3,707,847 and extend the term by twelve months. This grant augmentation will be used to increase the number of installed Level 2 Electric Vehicle Supply Equipment (EVSE) base units from 770 to 1425 in single family and multi-unit dwellings throughout California.

*Commissioner Douglas moved and Commissioner Scott seconded approval of Items 18a-18e. The vote was unanimous. (5-0)*

- f. HARVEST POWER TULARE, LLC. Possible approval of Agreement ARV-12-063 with Harvest Power Tulare, LLC for a \$300,000 grant to build, own, and operate a compressed natural gas (CNG) fueling station. The CNG station will

be supplied primarily with biomethane generated from an on-site anaerobic digester. This agreement includes \$1,027,590 in match funding.

*Commissioner Scott moved to adopt CEQA findings as recited by staff, including the statement of overriding considerations, and to approve Item 18f. Commissioner Douglas seconded. The vote was unanimous. (5-0)*

19. HARVEST POWER TULARE, LLC. Possible approval of Agreement ARV-12-064 with Harvest Power Tulare, LLC for a \$4,787,694 grant to build, own, and operate a biofuel facility that will convert organic waste to biomethane via anaerobic digestion. The biomethane will be cleaned, compressed, and used as transportation fuel at a compressed natural gas fueling station to be constructed on site. This agreement includes \$8,958,143 in match funding. (ARFVTP funding) Contact: Darren Nguyen. (5 minutes)

*Commissioner Scott moved and Commissioner McAllister seconded approval of Item 19, including the CEQA findings as applied to Item 18f. The vote was unanimous. (5-0)*

20. NATURAL GAS FUELING INFRASTRUCTURE, PON-12-605. This grant solicitation sought proposals for projects that establish infrastructure necessary to store, distribute and dispense compressed or liquefied natural gas. (ARFVTP funding) Contact: Isaiah Larsen (5 minutes)
- a. LODI USD. Possible approval of Agreement ARV-12-054 with Lodi Unified School District for a \$300,000 grant to install a CNG fueling station. The station will serve the school district's current CNG fleet of 27 CNG buses and support their fleet expansion to 54 CNG buses. The station will also serve nearby CNG school and public transit vehicles. This agreement includes \$808,648 in match funding.
- b. GARDEN CITY SANITATION, INC. Possible approval of Agreement ARV-12-055 with Garden City Sanitation, Inc. (GCS) for a \$300,000 grant to partially offset the cost of a new CNG fleet fueling station that will support GCS's expanding fleet of CNG refuse trucks. Once operational, the station is expected to displace over 350,000 gallons of diesel fuel annually and significantly reduce harmful emissions. This agreement includes \$750,522 in match funding.
- c. ALAMEDA COUNTY INDUSTRIES, LLC. Possible approval of Agreement ARV-12-056 with Alameda County Industries, LLC. (ACI) for a \$300,000 grant to partially offset the cost of a new CNG fleet fueling station that will support ACI's expanding fleet of CNG refuse trucks. Once operational, the station is expected to displace over 179,000 gallons of diesel fuel annually and significantly reduce harmful emissions. This agreement includes \$652,664 in match funding.
- d. CALIFORNIA CLEAN FUELS. Possible approval of Agreement ARV-12-049 with R. F. Dickson Co., Inc. dba California Clean Fuels for an \$83,000 grant to upgrade an existing 24-hour, 7-day per week public access CNG station with a new 2,000 standard cubic foot per minute dispenser. This upgraded fuel dispenser will improve the station's ability to service increasing numbers of heavy-duty vehicles and provide faster service for existing CNG fleets. The agreement includes \$91,543 in match funding.

*Commissioner Scott moved and Commissioner Douglas seconded approval of Item 20. The vote was unanimous. (5-0)*

21. ALTERNATIVE AND RENEWABLE FUEL VEHICLE BUY-DOWN INCENTIVES. Possible approval of a total of \$5,252,000 in vehicle buy-down incentive reservations. (ARFVTP funding) Contact: Andre Freeman. (5 minutes)

- a. GREENKRAFT INC. (OEM - Greenkraft Inc.) (BDIR-12-25), in the amount of \$400,000 for the buydown of 20 natural gas vehicles of 14,001 to 26,000 pounds gross vehicle weight and \$884,000 for the buydown of 34 natural gas vehicles of 26,001 pounds gross vehicle weight and greater (fuel tank capacity less than 190 LNG or 90 DGE), for a total reservation amount of \$1,284,000.
- b. AMERICAN HONDA MOTOR COMPANY INC. (OEM – Honda) (BDIR-12-26), in the amount of \$198,000 for the buydown of 66 natural gas vehicles of up to 8,500 pounds gross vehicle weight.
- c. PETERBILT MOTORS COMPANY (OEM – PETERBILT) (BDIR-12-27), in the amount of \$208,000 for the buydown of eight natural gas vehicles of 26,001 pounds gross vehicle weight and greater (fuel tank capacity less than 190 LNG or 90 DGE).
- d. GRECH MOTORS, LLC (OEM – Grech Motors, LLC) (BDIR-12-28), in the amount of \$224,000 for the buydown of seven natural gas vehicles of 26,001 pounds gross vehicle weight and greater (fuel tank capacity less than 190 LNG or 90 DGE).
- e. BONANDER BUICK-GMC (OEM – General Motors) (BDIR-12-29), in the amount of \$20,000 for the buydown of two propane vehicles of 14,001 to 26,000 pounds gross vehicle weight.
- f. AMERICAN CHEVROLET (OEM – General Motors) (BDIR-12-30), in the amount of \$20,000 for the buydown of two propane vehicles of 14,001 to 26,000 pounds gross vehicle weight.
- g. CREATIVE BUS SALES, INC. (OEM – Starcraft Bus) (BDIR-12-31), in the amount of \$400,000 for the buydown of 40 propane vehicles of 14,001 to 26,000 pounds gross vehicle weight.
- h. CREATIVE BUS SALES, INC. (OEM – El Dorado National) (BDIR-12-32), in the amount of \$200,000 for the buydown of 20 propane vehicles of 14,001 to 26,000 pounds gross vehicle weight.
- i. BIG VALLEY FORD, INC. (OEM – Ford Motor Company) (BDIR-12-33), in the amount \$48,000 for the buydown of eight propane vehicles of 8,501 to 14,000 pounds gross vehicle weight and \$150,000 for the buydown of 15 propane vehicles of 14,001 to 26,000 pounds gross vehicle weight, for a total reservation amount of \$198,000.
- j. ISUZU COMMERCIAL TRUCK OF AMERICA, INC. (OEM – Isuzu) (BDIR-12-34), in the amount of \$200,000 for the buydown of 20 propane vehicles of 14,001 to 26,000 pounds gross vehicle weight.
- k. GALPIN MOTORS, INC dba GALPIN FORD (OEM – Ford Motor Company) (BDIR-12-35), in the amount of \$150,000 for the buydown of 25 propane vehicles of 8,501 to 14,000 pounds gross vehicle weight and \$120,000 for the buydown of 12 propane vehicles of 14,001 to 26,000 pounds gross vehicle weight, for a total reservation amount of \$270,000.
- l. HARPER MOTORS (OEM – Ford Motor Company) (BDIR-12-36), in the amount of \$60,000 for the buydown of 6 propane vehicles of 14,001 to 26,000 pounds gross vehicle weight.

- m. A-Z BUS SALES, INC. (OEM – Micro Bird, Inc.) (BDIR-12-37), in the amount of \$280,000 for the buydown of 14 propane school buses of 14,000 pounds gross vehicle weight and greater.
- n. A-Z BUS SALES, INC. (OEM – Blue Bird Corporation) (BDIR-12-38), in the amount of \$1,160,000 for the buydown of 58 propane school buses of 14,000 pounds gross vehicle weight and greater.
- o. TOM’S TRUCK CENTER NORTH COUNTY LLC dba CARMENITA TRUCK CENTER (OEM – Ford Motor Company) (BDIR-12-39), in the amount of \$30,000 for the buydown of three propane vehicles of 14,001 to 26,000 pounds gross vehicle weight.
- p. A-Z BUS SALES, INC. (OEM – Collins Bus Corporation) (BDIR-12-40), in the amount of \$500,000 for the buydown of 25 propane school buses of 14,000 pounds gross vehicle weight and greater.

*Commissioner Scott moved and Commissioner McAllister seconded approval of Item 21. The vote was unanimous. (5-0)*

- 22. CONCURRENT TECHNOLOGIES CORPORATION. Possible approval of Agreement 600-12-016 with Concurrent Technologies Corporation for a \$2 million contract to share cost in a large Department of Defense vehicle-to-grid demonstration. The demonstration will include converting a portion of the non-tactical fleet to electric drive vehicles and will explore vehicle-to-grid revenue generating capabilities. (ARFVTP funding)  
Contact: Rhetta deMesa. (10 minutes)

*Commissioner McAllister moved and Commissioner Hochschild seconded approval of Item 22. The vote was unanimous. (5-0)*

- 23. HARPER CONSTRUCTION COMPANY, INC. Possible approval of Agreement PIR-12-033 with Harper Construction Company, Inc. for a \$1,722,890 grant to demonstrate a set of intelligent microgrids that uses community scale renewable resources within an existing utility grid at Camp Pendleton. This agreement includes \$1,172,428 in match funding. (PIER electricity funding) Contact: Prab Sethi. (5 minutes)

*Commissioner McAllister moved and Commissioner Scott seconded approval of Item 23. The vote was unanimous. (5-0)*

- 24. BUILDING ENERGY EFFICIENCY RESEARCH AND TECHNOLOGY GRANT PROGRAM, PON-12-503. This grant solicitation sought proposals for both electricity and natural gas research projects which will improve the energy efficiency in residential and commercial buildings and communities. Contact: Brad Meister. (15 minutes)
  - a. CHROMASUN, INC. Possible approval of Agreement PIR-12-023 with Chromasun, Inc. for a \$935,100 grant to demonstrate the Solar Thermal Heat Pump system for reducing natural gas used for domestic hot water and cooling in the hospitality industry. This agreement will include \$404,192 in match funds. (PIER natural gas funding)
  - b. VIEW, INC. Possible approval of agreement PIR-12-024 with View, Inc. for a \$1,542,233 grant to demonstrate an integrated design for renovating an existing commercial building with eight emerging and mature energy technologies to achieve Zero Net Energy and result in a higher return on investment than conventional construction. This agreement includes \$1,553,326 in match funding. (PIER electricity and natural gas funding)

- c. ELECTRIC POWER RESEARCH INSTITUTE. Possible approval of Agreement PIR-12-025 with Electric Power Research Institute for a \$1,351,283 grant to research, install, measure, and evaluate cost effective deep energy efficiency retrofits for the low-income multifamily housing industry. The agreement includes \$1,142,800 in match funding. (PIER electricity and natural gas funding)
- d. CALIFORNIA INSTITUTE FOR ENERGY AND ENVIRONMENT. Possible approval of Agreement PIR-12-026 with the Regents of the University of California, on behalf of the California Institute for Energy and Environment (CIEE), for a \$1,629,399 grant to demonstrate the use of plug-in low energy personal comfort systems that will allow optimized control of heating, ventilation and air conditioning (HVAC) systems in integrated building applications. The work will be done by University of California, Berkeley. This agreement includes \$192,500 in match funding. (PIER electricity and natural gas funding)
- e. UC DAVIS. Possible approval of Agreement PIR-12-027 with The Regents of the University of California on behalf of the Davis campus for a \$1,167,103 grant to conduct detailed field studies to document and verify actual performance, energy savings, and cost characteristics for advanced lighting, lighting controls, HVAC, and other emerging technologies. The data will be used to create a guide for conducting technology assessments. This agreement includes \$121,600 in match funding. (PIER electricity and natural gas funding)
- f. UC LOS ANGELES. Possible approval of Agreement PIR-12-032 with the Regents of the University of California on behalf of the Los Angeles Campus, for a \$1,335,074 grant to conduct research in new phase change materials for wall assemblies and develop associated software tools. Both of these can contribute to Zero Net Energy commercial buildings. (PIER electricity and natural gas funding)
- g. THE LEVY PARTNERSHIP. Possible approval of Agreement PIR-12-028 with The Levy Partnership, Inc. for a \$1,433,568 grant to develop cost-effective advanced envelope systems for factory built homes. This agreement includes \$299,781 in match funding. (PIER electricity and natural gas funding).
- h. ENOVATIVE GROUP. Possible approval of Agreement PIR-12-030 with Enovative Group, Inc. for a \$1,061,800 grant to develop approaches and best practices for mitigating excessive boiler natural gas use in pumped domestic hot water distribution systems in large multifamily residential complexes. This agreement includes \$12,000 in match funding. (PIER natural gas funding)
- i. ALTEX TECHNOLOGIES CORPORATION. Possible approval of Agreement PIR-12-029 with Altex Technologies Corporation for a \$1,582,817 grant to develop and demonstrate a waste heat and solar heat driven cooling and heating system, called the Building Energy Efficient Cooling and Heating (BEECH) System for commercial buildings. This agreement includes \$176,900 in match funding. (PIER natural gas funding)
- j. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Agreement PIR-12-031 with the US Department of Energy Lawrence Berkeley National Laboratory for a \$2 million grant to develop and demonstrate an innovative web-based tool for small and medium-sized businesses to determine building energy performance, identify operational improvements using conventional and emerging energy efficiency technologies, and assess impacts of these improvements on indoor environmental quality. The tool will be field tested to verify its accuracy. This agreement includes \$254,790 in match funding. (PIER electricity and natural gas funding)

*Commissioner McAllister moved and Commissioner Douglas seconded approval of Item 24. The vote was unanimous. (5-0)*

25. RENEWABLE ENERGY AND CONSERVATION PLANNING GRANTS, PON-12-403. This grant solicitation sought proposals from qualified counties for the development or revision of rules and policies that facilitate the development of eligible renewable energy resources, and their associated electric transmission facilities, and the processing of permits for eligible renewable energy resources. The goal of this work is to add certainty to the eligible renewable energy resource development process, which will reduce permitting costs for renewable energy, and ensure conservation of priority natural resources. (RRTF funding) Contact: Eli Harland. (10 minutes)
- a. COUNTY OF SAN LUIS OBISPO. Possible approval of Agreement REN-12-001 with County of San Luis Obispo for a \$638,152 grant to create a permit streamlining program by revising the county's policies and ordinances related to renewable energy development. The County will create a renewable energy overlay, supported by extensive data gathering and public input, that will identify areas in the County as renewable energy combining designations. Allowable land uses in these areas will prioritize eligible renewable energy resource development over other land uses and will consist of areas with available infrastructure and eligible renewable energy resources.
  - b. COUNTY OF SAN BERNARDINO. Possible approval of Agreement REN-12-002 with the County of San Bernardino for a \$700,000 grant to create an entirely new Renewable Energy and Conservation Element (RECE) as part of the County's development of a new General Plan. The County will also make strategic refinements to the components of the county regulatory system that govern eligible renewable energy resource development and natural resource conservation. The goal of this project is to develop the County's comprehensive vision for eligible renewable energy resource development while being consistent with the conservation strategies of the Desert Renewable Energy Conservation Plan.
  - c. COUNTY OF LOS ANGELES. Possible approval of Agreement REN-12-003 with County of Los Angeles for a \$603,000 grant for the County to create a renewable energy ordinance and programmatic Environmental Impact Report (EIR) to facilitate eligible renewable energy resource development and mitigate programmatic development issues, like cumulative impacts. The County will update renewable energy policies as they update the General Plan and Antelope Valley Area Plan and the policies will serve as the foundation for the Renewable Energy Ordinance.
  - d. COUNTY OF INYO. Possible approval of Agreement REN-12-004 with the County of Inyo for a \$700,000 grant to update the County's Renewable Energy General Plan Amendment (REGPA) and prepare an Environmental Impact Report (EIR) for the REGPA. The goal of the project is to update the REGPA to reflect the County's comprehensive vision for eligible renewable energy resource development while being consistent with the conservation strategies of the Desert Renewable Energy Conservation Plan.
  - e. COUNTY OF IMPERIAL. Possible approval of Agreement REN-12-005 with the County of Imperial for a \$700,000 grant to update and amend the County's 2006 Geothermal/Alternative Energy and Transmission Element of the County of Imperial General Plan in order to facilitate future development of eligible

renewable energy resource projects seeking to locate in Imperial County. The project will also include revisions to the Implementing Ordinances, Overlay Zones and Maps, and the required environmental documents. The goal of the project is to expand renewable energy opportunities in the County while being consistent with the conservation strategies of the Desert Renewable Energy Conservation Plan.

*Commissioner Douglas moved and Commissioner Scott seconded approval of Item 25. The vote was unanimous. (5-0)*

26. **Minutes:** Possible approval of the May 8, 2013, Business Meeting Minutes.

*Commissioner McAllister moved and Commissioner Hochschild seconded approval of the Minutes. The vote was unanimous. (5-0)*

27. **Lead Commissioner or Presiding Member Reports.**

Commissioner Scott reported on her recent site visits to Stockton and San Joaquin Regional Transit to view electric vehicles and other projects and technologies funded by the Energy Commission.

Commissioner McAllister reported meetings in Washington D.C., including Clean Energy States Alliance and the National Association of State Energy Officials, Congressional briefings on energy-related issues, and highlighted the appliance efficiency standards workshops that took place last week.

Chair Weisenmiller reported on the IEPR workshop on climate change, and site visits to the Ivanpah solar facility and San Onofre Nuclear Generating Station.

Commissioner Douglas discussed the MOU adopted today and its importance to the DRECP agencies.

Commissioner Hochschild reported on his recent site visits, including the California Lighting Technology Center.

28. **Chief Counsel's Report:** None.

29. **Executive Director's Report.** Executive Director Rob Oglesby gave the report.

30. **Public Adviser's Report.** None

31. **Public Comment:** Mr. Patrick Splitt, App-Tech, Inc.

Appearances:

Mr. Anthony Andreani, California Municipal Utilities Association

Mr. Eric Bates, Roush Clean Technology

Ms. Susie Berlin, Northern California Public Power Association

Mr. Robert Bienenfeld, American Honda Motor Company

Mr. Charles Botsford, Aero Environment

Mr. Geoffrey Budd, Hydrogen Frontier

Mr. Gil Castillo, Hyundai Motor America

Ms. Angela Das, Power Tech

Mr. Ben Davis Jr.,

Mr. Steve Eckhardt, Linde

Mr. Robert Emmert, California ISO

Mr. Thomas Enslow, Adams Broadwell Joseph & Cardozo for TABB and CALCTP

Mr. Matt Forrest, Mercedes-Benz

Mr. Tom Garcia, CALBO

Ms. Lesley Garland, Western Propane Gas Association  
Ms. Rachel Gold, Large-Scale Solar Association  
Mr. Camron Gorduinpour, Department of Defense  
Mr. James Hendry, San Francisco Public Utilities Commission  
Mr. Oscar Herrera, Southern California Public Power Association  
Mr. Ed Heydorn, Air Products  
Ms. Bonnie Holmes-Gen, American Lung Association in California  
Ms. Reiko Kerr, City of Riverside  
Mr. Steve Jones, Partner Hydrogen Refueling  
Ms. Cheryl Martin, Advanced Research Project for Energy  
Mr. Matt McClory, Toyota  
Mr. Matt Miyasato, South Coast Air Quality Management District  
Mr. John McKinsey, Locke Lord LLP  
Mr. Neil Millar, California ISO  
Mr. Simon Mui, Natural Resources Defense Council  
Mr. Bob Oesterreich, Air Liquide  
Mr. George L. Piantka, NRG Energy, Inc.  
Mr. Dan Poppe, Hydrogen Frontier Inc  
Mr. Dipankar Sarkar, South Coast Air Quality Management District  
Mr. Patrick Splitt, App-Tech, Inc.  
Ms. Mary-Ann Tiette, Lawrence Berkley National Lab  
Mr. Brandon Tinianov, View Inc  
Mr. Mike Webster, Los Angeles Department of Water and Power  
Mr. Erik White, California Air Resources Board  
Ms. Valerie Winn, Pacific Gas and Electric Company  
Ms. Laura Wisland, Union of Concerned Scientists  
Mr. Steve Zuretti, Solar Energy Industries Associations

There being no further business, the meeting was adjourned.

Respectfully submitted,

HARRIET KALLEMEYN  
Secretary to the Commission