

DOCKETED

Docket Number:	21-BUSMTG-01
Project Title:	Business Meeting Agendas, Transcripts, Minutes, and Public Comments
TN #:	236821
Document Title:	February 10, 2021 Business Meeting Orders and Resolutions
Description:	N/A
Filer:	Cody Goldthrite
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	2/17/2021 9:41:52 AM
Docketed Date:	2/17/2021

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: AKER OFFSHORE WIND USA LLC/AKER SOLUTIONS, INC.

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves a novation substituting Aker Offshore Wind USA LLC for Aker Solutions Inc. under Agreement EPC-19-008 as set forth in the attached Novation Agreement. All aspects of the grant project including the project team, scope of work, project schedule, deliverables, budget, and terms and conditions will remain the same; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: U.S. DEPARTMENT OF ENERGY'S (DOE) LAWRENCE
BERKELEY NATIONAL LABORATORY (LBNL).

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement 300-20-001 with LBNL to receive one vehicle for use in EPIC-related research projects. This vehicle was previously managed under EPIC agreement EPC-16-059, which will fund transport of the vehicle from the Los Angeles Air Force Base (LAAFB) to the new location. Vehicle ownership will be transferred from CEC to LBNL; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, SAN
DIEGO CAMPUS (UCSD)

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement 300-20-002 with UCSD to receive 10 vehicles for use in EPIC-related research projects. These vehicles were previously managed under EPIC agreement EPC-16-059, which will fund transport of the vehicles from LAAFB to the new location. Vehicle ownership will be transferred from the CEC to UCSD; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: REDWOOD CITY ELEMENTARY SCHOOL DISTRICT

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Amendment 3 to Agreement ARV-19-065 with Redwood City Elementary School District to augment the grant award by \$392,009 and increase the number of all-electric school buses and supporting infrastructure from six to seven; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: DEL NORTE COUNTY UNIFIED SCHOOL DISTRICT

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves approving Agreement ARV-20-005 with Del Norte County Unified School District for a \$762,368 grant to replace two diesel powered school buses with two clean, all-electric school buses and install supporting charging infrastructure; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: RESIDENTIAL ENERGY SERVICES NETWORK, INC. (RESNET)

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement 400-20-001 with RESNET for a no-cost sponsorship contract for the virtual national RESNET 2021 Conference related to cultivating policies for energy efficiency related initiatives; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

**STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

RESOLUTION APPROVING §10-109(k) DETERMINATION THAT THE SOLAR PHOTOVOLTAIC REQUIREMENT IN THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS §150.1(c)14 SHALL NOT APPLY TO CITY OF NEEDLES

RESOLUTION: California Energy Commission (CEC) determination that solar photovoltaic (PV) requirements in the *2019 Building Energy Efficiency Standards* (Energy Code) §150.1(c)14 shall not apply to the City of Needles (Needles), pursuant to California Code of Regulations, Title 24, Part 6, and associated administrative regulations in Part 1, Chapter 10.

WHEREAS, California Code of Regulations, Title 24, Part 1, Chapter 10, §10-109(k) and §10-110, establishes a process for the CEC to determine that the solar PV requirement in §150.1(c)14 shall not apply to particular buildings where “implementation of public agency rules regarding utility system costs and revenue requirements, compensation for customer-owned generation, or interconnection fees, causes the Commission’s cost effectiveness conclusions [...] to not hold for particular buildings;” and

WHEREAS, on August 13, 2019, Needles conducted a public hearing and approved the decision to seek a solar PV system requirement determination under §10-109(k); and

WHEREAS, on August 14, 2019, Needles submitted an application to the CEC pursuant to Title 24, California Code of Regulations, Part 1, §10-109(k) stating that its low-cost energy rates cause the solar PV system requirement to not be cost-effective; and

WHEREAS, CEC staff analyzed whether Needles’ public agency rules cause the CEC’s cost-effectiveness conclusions to not hold, and determined that the solar PV requirement is not cost-effective within the meaning of Public Resources Code §25402(b)(3) as a result of the implementation of Needles’ public agency rules regarding utility system costs and revenue requirements; and

WHEREAS, on December 23, 2020, CEC staff published its analysis regarding Needles’ application for a solar photovoltaic determination and received no comments during the comment period, which ended January 25, 2021,

THEREFORE, BE IT RESOLVED, the CEC finds that the Needles application meets §10-09(k) requirements and therefore determines that the solar PV requirements in the 2019 Energy Code, §150.1(c)14 shall not apply to newly constructed low-rise residential buildings within the city of Needles; and

THEREFORE, BE IT FURTHER RESOLVED, that on February 10, 2021, the CEC grants the approval of the application from Needles; and

THEREFORE, BE IT FURTHER RESOLVED, that the CEC directs the executive director to take all actions necessary to implement this Resolution.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION CONFIRMING THAT THE SOLAR PHOTOVOLTAIC REQUIREMENT
IN THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS §150.1(c)14 DO NOT
APPLY TO BUILDINGS THAT CANNOT COMPLY WITH THE CALIFORNIA
BUILDING CODE AND CALIFORNIA RESIDENTIAL CODE SNOW LOAD
STRUCTURAL REQUIREMENTS

RESOLUTION: California Energy Commission (CEC) confirmation that the solar photovoltaic requirement in the *2019 Building Energy Efficiency Standards* (Energy Code) §150.1(c)14 do not apply to buildings that cannot comply with the California Building Code and California Residential Code snow load structural requirements, provided in California Code of Regulations, Title 24, Part 6.

WHEREAS, The Administrative Regulations of the California Building Standards Commission (CBSC) (California Code of Regulations, Title 24, Part 1, §1-313) include provisions under which any local government agency, firm, or member of the public may petition the CBSC for the proposal, adoption, amendment, or repeal of any building standard or administrative regulation in Title 24 of the California Code of Regulations; and

WHEREAS, the Town of Truckee and its local building working group submitted a petition pursuant to California Code of Regulations, Title 24, Part 1, §1-313; and

WHEREAS, the Town of Truckee, in its petition regarding the 2019 Energy Code, stated that certain building sites have design snow loads that are greater than what PV panels are rated to withstand, based on the American Society of Civil Engineers Standard 7-16, Chapter 7 Snow Loads (ASCE Standard 7-16); and

WHEREAS, the California Building Code (CBC, Title 24, Part 2) and the California Residential Code (CRC, Title 24, Part 2.5) require PV systems, including panels, supports and attachments, to meet the design and installation requirements to meet snow loads in ASCE Standard 7-16; and

WHEREAS, CEC staff has analyzed and found that whether PV systems can be installed safely to meet snow loads depends heavily on site-specific conditions, and building permit applicants should address issues under their control to design and install PV systems that meet snow load structural requirements where possible; and

WHEREAS, simultaneous compliance with the pertinent code requirements of the 2019 Energy Code, the CBC, and the CRC should be accomplished in as many newly constructed, low-rise residential buildings, as feasible and achievable; and

WHEREAS, local enforcement agencies should take care to ensure that practical approaches to design homes to facilitate the installation of solar panels, occur if at all possible; and

WHEREAS, recent extreme weather events and raging wildfires up and down the state demonstrate that the consequences of climate change are upon us and properly installed PV systems represent an important opportunity for achieving state and local climate change goals for reducing greenhouse gas emissions, including in snow country; and

WHEREAS, CEC staff informed the Town of Truckee that, due to conflict between the 2019 Energy Code and the California Building and Residential Codes, Section 150.1(c)14 is not applicable where PV panels cannot be installed to withstand the snow load conditions in high-snow-load areas and documented its analysis and findings in a *Notice of Final Conclusions for Town of Truckee Petition*,

THEREFORE, BE IT RESOLVED, the CEC confirms that the solar photovoltaic requirements in the 2019 Energy Code §150.1(c)14 do not apply to buildings that cannot comply with the California Building Code and California Residential Code snow load structural requirements; and

THEREFORE, BE IT FURTHER RESOLVED, that the CEC directs the executive director to take all actions necessary to implement this Resolution.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the California Energy Commission held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: DOE-NATIONAL RENEWABLE ENERGY LABORATORY (NREL)

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement 800-20-003 with NREL for a \$350,000 contract to provide technical support to forecast distributed energy resources in emerging market segments, and forecast energy storage for all market segments in California for the Integrated Energy Policy Report (IEPR). NREL will make use of a version of its nationwide distributed generation market penetration model (dGen) adapted specifically for California. NREL will also deliver the adapted dGen model to the CEC and provide direct assistance to staff in setting up and running the model; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

**RESOLUTION - RE: NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF
SANDIA, LLC (SANDIA NATIONAL LABORATORIES)**

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves a zero-cost Memorandum of Understanding (MOU) 20-001 between the CEC and Sandia National Laboratories to work cooperatively to advance energy storage technologies through energy storage research and development activities. At the request of the CEC, Sandia National Laboratories will provide the CEC with energy storage technical expertise to assist with implementing EPIC. The MOU establishes a framework for how the CEC and Sandia National Laboratories will coordinate to advance energy storage technologies; and

FURTHER BE IT RESOLVED, that Chair David Hochschild or the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, ON
BEHALF OF THE SAN DIEGO CAMPUS (UCSD)

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement EPC-20-009 with UCSD for a \$1,028,125 grant to demonstrate the integration of advanced Smart Plug Load Controls with the existing Building Energy Management System to provide cost-effective reduction in building energy use; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: CALIFORNIA ENERGY ALLIANCE

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement EPC-20-010 with California Energy Alliance for a \$996,974 grant to conduct a study to: 1) evaluate the energy consumption of selected commercial and residential plug load device types, 2) quantify their statewide market size and energy use, 3) determine potential energy and cost savings, and 4) consider future energy codes and standards; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

RESOLUTION NO: 21-0210-9

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

**RESOLUTION - RE: CALIFORNIA CLEAN ENERGY FUND DBA CALCEF
VENTURES**

WHEREAS, pursuant to Public Resources Code section 25710 et seq. the State Energy Resources Conservation and Development Commission (“CEC”) is authorized to establish and administer the Electric Program Investment Charge (“EPIC”) Program; and

WHEREAS, the CEC has recognized that California’s electricity ratepayers benefit from energy research, development and demonstration (“RD&D”) activities conducted by individuals, small businesses, academics and small non-profit institutions; and

WHEREAS, the CEC has created the California Sustainable Energy Entrepreneur Development (“CalSEED”) Initiative within the EPIC Program to provide funding for the aforementioned public interest RD&D activities; and

WHEREAS, the California Clean Energy Fund (“CalCEF”) is the administrator of the CalSEED Initiative under CEC Agreement Number 300-15-007 and is responsible for soliciting grant applications, recommending grant awards to the CEC, and managing approved grant projects; and

WHEREAS, CalCEF, in compliance with its duties under Agreement Number 300-15-007, completed the third CalSEED Prototype Award Plan Competition in August 2020, a competitive solicitation, and as a result has proposed to CEC small grant projects for funding; and

WHEREAS, CEC staff has reviewed the projects CalCEF has proposed, and recommends the following 6 small grant projects for funding:

1. \$450,000 is being requested for the “Decentralized Conversion of Plant-Based Residues into Bioproducts” project with Takachar Inc., a project to advance a portable, low-cost technology that produces high-performance filtration media from crop and forest residues for wastewater treatment; and
2. \$450,000 is being requested for the “Hybrid Photovoltaic/Thermal (PVT) Advanced Solar Plus Storage System” project with Icarus RT Inc., a project to demonstrate a low-cost hybrid solar photovoltaic/thermal system co-located with commercial and larger solar PV arrays that have the potential to increase power availability 25 percent and reduce costs by more than 50 percent over current systems; and

3. \$450,000 is being requested for the “Safe, Low-Cost, Light Energy Storage“ project with EnZinc Inc., a project to develop and test an innovative battery chemistry that combines a proprietary zinc sponge anode with nickel, silver, or carbon for different applications; and
4. \$450,000 is being requested for the “Fast Battery Diagnostics“ project with ReJoule Inc., a project to validate a portable battery diagnostic system that can be embedded in a battery pack management system to continuously monitor battery health without the need for disassembly; and
5. \$450,000 is being requested for the “Silicon-Carbon Power“ project with SiLi-ion Inc., a project to continue the development of commercial lithium-ion batteries by developing a silicon-carbon composite which will be used in place of graphite as an anode material; and
6. \$450,000 is being requested for the “Inexpensive, Long-Duration Energy Storage“ project with Antora Energy Inc., a project to build an inexpensive thermal energy storage system by storing energy as heat in inexpensive raw materials and converting that heat back to electricity with high-efficiency photovoltaic modules exposed to light radiating from the hot storage medium; and

WHEREAS, CEC staff has reviewed the 6 projects and determined that each project is exempt from CEQA, as described in CEC staff’s “California Environmental Quality Act (“CEQA”) Compliance Analysis For Proposed Subawards Under the California Sustainable Energy Entrepreneur Development Initiative, Agreement No. 300-15-007” Memorandum (“Memorandum”) dated January 26, 2021, a document that is included in the backup materials to this Business Meeting item.

THEREFORE BE IT RESOLVED, that the CEC adopts CEC staff’s CEQA findings contained in the Memorandum for the 6 projects; and

FURTHER BE IT RESOLVED, that the CEC approves the 6 projects for a total of \$2,700,000; and

FURTHER BE IT RESOLVED, that the CEC directs CalCEF to execute grant agreements with the approved awardees pursuant to Agreement Number 300-15-007.

CERTIFICATION

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the California Energy Commission held on February 10, 2021.

AYE: Hochschild, Douglas, McAllister, Monahan, Gunda
NAY: None
ABSENT: None
ABSTAIN: None

Cody Goldthrite

Cody Goldthrite,
Secretariat