

DOCKETED

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STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

IN THE MATTER OF:

*Imperial Irrigation District
Emission Performance Standard
Compliance Filing*

Docket No. 20-EPS-01

I. INTRODUCTION

Pursuant to Public Utilities Code section 8341(e)(1), the California Energy Commission (CEC) established a greenhouse gases emission performance standard (EPS) of 1,100 pounds carbon dioxide per megawatt hour, as codified in Title 20 of the California Code of Regulations, section 2900 et seq. The CEC is responsible for reviewing all long-term financial commitments entered into by local publicly owned electric utilities for compliance with the EPS.

II. FINDINGS

- a. On May 28, 2020, the Imperial Irrigation District (IID) submitted a compliance filing requesting that the CEC find that IID's Power Purchase Agreement with GeoGenCo Project #501, LLC. for electricity from the GeoGenCo Project #501 geothermal power plant be determined to be compliant with the EPS;
- b. CEC staff reviewed IID's filing and found it complete. Based on its review, staff recommended that the procurement be found to be in compliance with the EPS; specifically, staff concluded that the facility listed in the PPA is determined to be compliant with the EPS under section 2903(b)(1) of the Public Resources Code; and
- c. The CEC concurs with staff's recommendation that IID's compliance filing is complete and that the contract with GeoGenCo Project #501, LLC, as described in the compliance filing, complies with the EPS.

III. CONCLUSION AND ORDER

The CEC hereby adopts staff's recommendation and orders that the long-term financial commitment described in IID's compliance filing complies with the CEC's Greenhouse Gases Emission Performance Standard, as codified in Title 20 of the California Code of Regulations, section 2900 et seq. Should the final facility design significantly change

from the specifications provided in the compliance filing, IID must submit a subsequent compliance filing providing the updated information.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of an Order duly and regularly adopted at a meeting of the CEC held on July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: VELOZ

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 600-19-012 with Veloz for a \$50,000 contract which provides the CEC membership for six months. Membership allows the CEC to participate in member meetings, working groups, workshops, briefings, and other events; and provide input on electric vehicle awareness campaigns. Veloz membership provides a forum for the CEC to collaborate with stakeholders in the electric vehicle community; 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 July 8, 2020.

AYE: Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: Hochschild

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

IN THE MATTER OF:

**LAFAYETTE BACKUP
GENERATING FACILITY**

Docket No. 20-SPPE-02

On May 20, 2020, Digital Realty filed a small power plant exemption (SPPE) application for the Lafayette Backup Generating Facility, which would provide backup generation support to the proposed Lafayette Data Center (collectively, the project). The project would be located in the City of Santa Clara and include a three-story, 576,120 square foot data center building, electric distribution substation, generator equipment yard, surface parking, and landscaping. The project would also include the demolition of existing improvements on the site, including two existing office buildings. The backup generating facility would provide up to 99.8 MW of energy for use during a loss of utility power to the data center. Pursuant to Public Resources Code section 25211 and California Code of Regulations, title 20, sections 1204 and 1205, the California Energy Commission (CEC) hereby establishes the Lafayette Backup Generating Facility SPPE Committee to preside over the small power plant exemption proceedings and any other proceedings arising from the application.

The committee shall have the authority and duties necessary to conduct this proceeding as set forth in CEC regulations, including the authority of a presiding member to manage the proceeding in accordance with California Code of Regulations, title 20, section 1203. Unless otherwise ordered by the CEC, this Committee will dissolve 35 days after final action in this proceeding.

The Committee members are as follows:

Presiding: Douglas
Associate: Hochschild

IT IS SO ORDERED.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the CEC held on July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

IN THE MATTER OF:

***SOLAR ENERGY GENERATING
SYSTEMS VIII***

***SOLAR ENERGY GENERATING
SYSTEMS IX & X***

**Docket Nos. 88-AFC-01C
89-AFC-01C**

**ORDER APPROVING
PETITION FOR MODIFICATION**

On July 26, 2019, Luz Solar Partners VIII and IX, LLC (facility owner) submitted a Petition for Modification (petition) to the California Energy Commission (CEC) for the Solar Energy Generating Systems (SEGS) VIII and IX facilities. As outlined in the petition, the facility owner proposes to construct a battery energy storage system (BESS), with a maximum capacity of up to 80 MW, between the SEGS VIII and IX facilities.

The BESS would be constructed entirely within the footprint of the SEGS VIII and IX solar thermal facilities and would share the existing switchyard, control room, and staff with the SEGS VIII and IX facilities. The facility owner would operate the BESS and SEGS VIII and IX facilities together, in coordination with the California ISO, to ensure overall electrical coordination and greater flexibility in response to the needs of the electrical grid.

STAFF RECOMMENDATION

CEC staff reviewed the petition and concluded that it meets all of the filing criteria of Title 20, California Code of Regulations, section 1769, concerning post-certification project modifications. Furthermore, staff concluded that, with the adoption of amended Transmission Line Safety and Nuisance, Transmission System Engineering, and Worker Safety and Fire Protection conditions of certification, the proposed changes would not cause significant impacts on the environment or an environmental justice population, and would not cause the facility to fail to comply with any applicable laws, ordinances, regulations, or standards (LORS). Staff filed its

analysis recommending CEC approval of the petition and the amended Transmission Line Safety and Nuisance, Transmission System Engineering, and Worker Safety and Fire Protection conditions of certification to the SEGS VIII and IX dockets on May 22, 2020.

ENERGY COMMISSION FINDINGS

Based on the record, including staff's analysis, the CEC finds that:

- The petition meets all of the filing criteria of Title 20, California Code of Regulations, section 1769(a), concerning post-certification project modifications;
- With the adoption of the revised Transmission Line Safety and Nuisance, Transmission System Engineering, and Worker Safety and Fire Protection conditions of certification in the staff analysis, the project modification would not cause the SEGS VIII or IX facilities to fail to comply with any applicable laws, ordinances, regulations, and standards;
- With the adoption of the revised Transmission Line Safety and Nuisance, Transmission System Engineering, and Worker Safety and Fire Protection conditions of certification in the staff analysis, there would be no new or additional unmitigated significant environmental impacts associated with the project modification or any significant impacts to an environmental justice population; and
- The project modification would not change any of the findings the CEC adopted in the Final Commission Decisions for SEGS VIII or SEGS IX & X pursuant to Title 20, California Code of Regulations, section 1748(b).

CONCLUSION AND ORDER

The CEC hereby adopts staff's recommendations and approves the Petition for Modification and amended Transmission Line Safety and Nuisance, Transmission System Engineering, and Worker Safety and Fire Protection conditions of certification. The amended conditions of certification shall be added to the Final Commission Decisions for the SEGS VIII and SEGS IX facilities in the manner set forth by the staff analysis.

IT IS SO ORDERED.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the CEC held on July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES CONSERVATION AND
DEVELOPMENT COMMISSION

RESOLUTION APPROVING AN APPLICATION FOR CONSIDERATION OF
IMPROVED ENERGY MODELING FOR HEAT PUMP WATER HEATER DEMAND
MANAGEMENT SYSTEMS IN THE 2019 ENERGY CODE

WHEREAS, California Public Resources Code Section 25402.1(b) requires the California Energy Commission (CEC) to, among other things, establish a process for certifying new products, materials, and calculation methods for demonstrating compliance with its building energy efficiency standards; and

WHEREAS, California Code of Regulations, Title 24, Part 1, Chapter 10, §10-109(h) permits the CEC to “authorize alternative procedures or protocols that demonstrate compliance with Part 6”; and

WHEREAS, California Code of Regulations, Title 24, Part 6 (2019 Energy Code) specifies that a building complies with the performance standards if the energy consumption calculated for the Proposed Design Building is no greater than the energy budget calculated for the Standard Design Building as specified in Section 150.1(b); and

WHEREAS, on August 9, 2019, the Natural Resources Defense Council (NRDC) submitted a Revised Application requesting approval of a compliance option for Heat Pump Water Heater (HPWH) Demand Management Systems as an alternative procedure for demonstrating compliance with these provisions; and

WHEREAS, the proposed Joint Appendix JA13 specification includes criteria necessary to model the energy impacts of specific demand management features on hot water energy use; and

WHEREAS, staff has evaluated NRDC’s Revised Application and concluded that the proposed JA13 specification is technically feasible and that JA13 compliant HPWHs should result in reduction in Time Dependent Valuation energy;

THEREFORE BE IT RESOLVED that the Energy Commission approves NRDC’s application and authorizes the use of the JA13 specification as an “alternative procedure or protocol” for demonstrating compliance with applicable performance standards within the 2019 Energy Code.

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 CEC held on July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION ADOPTING
RENEWABLES PORTFOLIO STANDARD 2014-2016 VERIFICATION RESULTS
REPORT FOR SAN FRANCISCO PUBLIC UTILITIES COMMISSION - HETCH
HETCHY POWER FOR COMPLIANCE PERIOD 2

WHEREAS, Public Utilities Code Section 399.25(b) requires the California Energy Commission to design and implement an accounting system to verify compliance with California's Renewables Portfolio Standard (RPS) by retail sellers and local publicly owned electric utilities (POUs), to ensure that electricity generated by an eligible renewable energy resource is counted only once for the purpose of meeting the renewables portfolio standard of this state or any other state, and for verifying retail product claims in this state or any other state; and

WHEREAS, the California Energy Commission, in collaboration with the California Public Utilities Commission, has adopted regulations and guidelines addressing its responsibilities under Public Utilities Code Section 399.25(b) as well as other provisions of the law governing California's RPS, the *Enforcement Procedures for the Renewables Portfolio Standard Local Publicly Owned Electric Utilities* (RPS POU Regulations) and the *Renewables Portfolio Standard Eligibility Guidebook, Ninth Edition (Revised)* (RPS Eligibility Guidebook), respectively; and

WHEREAS, in furtherance of Public Utilities Code Section 399.25(b) the California Energy Commission prepares a Renewables Portfolio Standard Verification Results report on its findings on the amount of eligible renewable energy procured each compliance period by POUs subject to California's RPS; and

WHEREAS, the Renewables Portfolio Standard Verification Results reports apply the statutory requirements as specified in Public Utilities Code Section 399.11, et seq., the RPS POU Regulations, RPS Eligibility Guidebook, and the Energy Commission staff *Renewables Portfolio Standard Verification Methodology Report, Second Edition*, in determining the amount of renewable energy procurement that qualifies toward each POU's California RPS procurement requirements; and

WHEREAS, California Energy Commission staff have prepared the Compliance Period 2 (2014-2016) verification report for San Francisco Public Utilities Commission (SFPUC) – Hetch Hetchy Power, entitled the *California Energy Commission Staff Draft*

Report Renewables Portfolio Standard Verification Results San Francisco Public Utilities Commission – Hetch Hetchy Power Compliance Period 2 (2014-2016) (hereinafter the *Staff Draft Report Renewables Portfolio Standard Verification Results*); and

WHEREAS, California Energy Commissions staff have determined that SFPUC – Hetch Hetchy Power meets the requirements in Public Utilities Code Section 399.30(j) and RPS POU Regulations Section 3207(a)(7) to qualify for alternative annual procurement targets as detailed in the *Staff Draft Report Renewables Portfolio Standard Verification Results*; and

WHEREAS, the scope of the *Staff Draft Report Renewables Portfolio Standard Verification Results* includes RPS procurement verification findings for SFPUC - Hetch Hetchy Power; and

WHEREAS, the *California Energy Commission Staff Draft Report Renewables Portfolio Standard Verification Results* for SFPUC - Hetch Hetchy Power address the following items:

- The POU's procurement targets.
- The amount of eligible renewable energy retired, and the amount applied to meet the RPS procurement requirements, both shown by Portfolio Content Category (PCC) and other classifications.
- Any deficits in meeting the RPS procurement requirements.
- Any optional compliance measures being applied by the POU.
- A summary of the POU's excess procurement and historic carryover, if any, including any prior balance, the amount accumulated and used in each of the compliance years, and the ending balances; and

WHEREAS, the California Energy Commission has considered the *Staff Draft Report Renewables Portfolio Standard Verification Results* for SFPUC - Hetch Hetchy Power, including any minor non-substantive changes noted during the July 8, 2020 Business Meeting, and accepts and approves the *Staff Draft Report Renewables Portfolio Standard Verification Results* for SFPUC - Hetch Hetchy Power, with any noted minor, non-substantive changes; and

THEREFORE BE IT RESOLVED, the California Energy Commission hereby adopts the *Staff Draft Report Renewables Portfolio Standard Verification Results* for SFPUC - Hetch Hetchy Power, and authorizes the Executive Director, or his designee, to finalize the report as an Energy Commission adopted report, including making any necessary minor typographical edits, and distribute and post on the California Energy Commission website as necessary.

CERTIFICATION

The undersigned Secretariat to the California Energy 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: IMPERIAL WESTERN PRODUCTS, INC.
A CALIFORNIA CORPORATION

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 FPI-19-033 with Imperial Western Products, Inc. a California Corporation for a \$2,117,678 grant to design, install, and operate a microgrid system that will produce and store renewable electricity at the recipient's animal food processing facility in Coachella. The microgrid system will produce and store renewable electricity, providing reliability while reducing operating costs and greenhouse gas emissions at the facility. This project is expected to provide benefits to priority populations through workforce development; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: ENERGY AND ENVIRONMENTAL ECONOMICS, 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 Agreement EPC-19-056 with Energy and Environmental Economics, Inc. for a \$1,500,000 grant to fund the analysis of different scenarios to help understand the role that long-duration energy storage (LODES) will play in the future of California's grid. Additionally, the recipient will develop and provide a publicly available modeling toolkit to provide various regulators, policy-makers, and stakeholders with the ability to appropriately value the role of LODES; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

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 MERCED CAMPUS

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-19-060 with The Regents of the University of California, Merced for a \$1,254,955 grant to understand the role and cost targets for long-duration storage options and evaluate actions that California could take to aid the state of California to reach zero-carbon and related goals by 2045. The project will improve existing grid expansion modeling tools, determine the role of emerging energy storage resources in the expansion of California's energy grid, and evaluate the cost targets for long duration energy storage under different scenarios; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: RINCON BAND OF LUISEÑO INDIANS

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-19-050 with Rincon Band of Luiseño Indians for a \$7,282,496 grant to demonstrate the integration of two types of non-lithium ion energy storage technologies. The energy storage technologies are vanadium redox flow battery and flywheel storage systems, which will each provide 400kW of load for up to 12 hours. The two technologies will be interconnected with solar photovoltaic to create a microgrid that will provide resiliency and cost savings for multiple buildings, including a wastewater treatment plant and an emergency public shelter; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: INDIAN ENERGY LLC

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-19-051 with Indian Energy LLC for a \$5,002,334 grant to demonstrate a long duration energy storage solution based on mixed integration of energy storage technologies, including vanadium redox flow battery, zinc hybrid cathode battery, and mechanical flywheel, at Camp Pendleton; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: GRID ALTERNATIVES

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-19-045 with GRID Alternatives for a \$1,710,494 grant to demonstrate a solar plus vanadium redox flow battery storage system to provide energy resiliency for the Soboba Band of Luiseño Indians fire station. The project will validate system performance, such as: long duration energy storage, load shifting, peak shaving, and resiliency during utility power outages. The data obtained on capital cost, operating cost, performance and lessons learned will support commercial deployment; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: INDIAN ENERGY LLC

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-19-046 with Indian Energy LLC for a \$1,218,374 grant to fund the development and demonstration of a flywheel energy storage technology that stores and discharges electrical energy for 10 hours or more at a power level of at least 50 kW. This demonstration will help the Viejas Band of Kumeyaay Indians and their communities by providing increased resiliency, higher reliability, lower energy costs, and support to local critical facilities; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: MISSION PRODUCE, 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 Agreement EPC-19-048 with Mission Produce, Inc. for a \$2,000,000 grant to improve existing vanadium redox flow battery technology and demonstrate the improvements at scale for a refrigeration facility in a disadvantaged community; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: ANTELOPE VALLEY WATER STORAGE, LLC

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-19-058 with Antelope Valley Water Storage, LLC for a \$2,000,000 grant to fund a behind-the-meter demonstration of an aquifer pumped-hydro (APH) system. The project will assist in better understanding APH and define the value and benefits that longer duration APH energy storage can provide, especially when applied in disadvantaged communities and low-income communities; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

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, RIVERSIDE**

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-19-059 with The Regents of the University of California, Riverside for a \$939,232 grant. This project will develop and demonstrate a new technology for optimal coordination of a network of autonomous, plug and play, behind-the-meter solar-battery units for residential homes. The units will be designed to perform demand-side management such as load shifting, maximizing solar use, and backup power. Each unit, called 4-Quadrant Plug and Play Cooperative Unit (PQ-CU), is based on solid-state-technology supported by small-scale solar and battery; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: BOXPOWER 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 Agreement EPC-19-047 with BoxPower Inc. for a \$999,099 grant to demonstrate a modular containerized solar plus energy storage system at residential customer sites. The project will demonstrate the system performance as an integrated hardware and software platform with the ability to provide: customer energy cost savings; emissions savings; grid services; and resiliency during utility power outages. The data obtained will support commercial deployment; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: ELECTRIC POWER RESEARCH INSTITUTE, 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 Agreement EPC-19-054 with Electric Power Research Institute, Inc. for a \$999,841 grant to install and evaluate the performance of commercially available energy storage in new construction single-family homes and multifamily affordable housing. This Agreement will also assess the values of energy storage for the customer and determine whether any future changes to the Title 24 building code would be valuable; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: SAN DIEGO STATE UNIVERSITY RESEARCH FOUNDATION

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-19-053 with San Diego State University Research Foundation for a \$2,837,672 grant to fund the development and integration of cost-effective second-life EV batteries with a solar photovoltaic system; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: REJOULE INCORPORATED

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-19-055 with ReJoule Incorporated for a \$2,970,774 grant to develop novel battery grading tools to more quickly and accurately assess the health of repurposed EV batteries for stationary storage. This project will also validate the ability of second-life EV batteries to integrate solar and provide resiliency benefits at two pilot sites: a homeless shelter and a commercial building that supports multiple small businesses; 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 July 8, 2020.

AYE: Hochschild, Scott, Douglas, McAllister, Monahan

NAY: None

ABSENT: None

ABSTAIN: None

Cody Goldthrite

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Secretariat