

| DOCKETED | |
|-------------------------|---|
| Docket Number: | 23-BUSMTG-01 |
| Project Title: | Business Meeting Agendas, Transcripts, Minutes, and Public Comments |
| TN #: | 252247 |
| Document Title: | Resolutions and Orders of the September 13, 2023 Business Meeting |
| Description: | N/A |
| Filer: | Ngoc Tran |
| Organization: | California Energy Commission |
| Submitter Role: | Commission Staff |
| Submission Date: | 9/14/2023 11:59:37 AM |
| Docketed Date: | 9/14/2023 |

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: National Association of State Energy Officials (NASEO)

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 400-23-001 with NASEO for a \$27,380 one-year membership. The membership gives staff the opportunity to connect with key policy and decision makers, officials from other state and regional energy offices, and affiliates from private and public sectors. Membership also provides a forum for exchanging information, ideas, and resources, as an opportunity to learn about funding and partnership opportunities; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, Monahan
NAY: NONE
ABSENT: NONE
ABSTAIN: McAllister, Gallardo

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Women of Renewable Industries and Sustainable Energy (WRISE)

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 100-23-001 with WRISE for \$18,000 contract to co-sponsor the WRISE Leadership Forum to be held October 10-12, 2023 in Minneapolis, MN. The WRISE Leadership Forum will bring together professionals from across the country to discuss current renewable energy trends and policy issues. The forum will provide staff the opportunity to learn and share strategies and ideas on how to advance and inspire systemically excluded communities in pursuing a sustainable and equitable future; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo

NAY: NONE

ABSENT: NONE

ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION APPROVING THE DETERMINATION THAT THE SOLAR
PHOTOVOLTAIC REQUIREMENTS IN THE 2022 BUILDING ENERGY EFFICIENCY
STANDARDS §140.10 SHALL NOT APPLY

RESOLUTION: California Energy Commission (CEC) approval of the determination that the solar photovoltaic (PV) requirements in the 2022 Building Energy Efficiency Standards (Energy Code) §140.10 and §170.2(g) shall not apply to the Trinity Public Utility District (Trinity PUD) service territory, 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 requirements in §140.10 and §170.2(g) shall not apply to particular buildings; and

WHEREAS, on November 10, 2022, the Trinity PUD conducted a public hearing and approved the decision to seek a solar PV system requirements determination; and

WHEREAS, the Trinity PUD submitted an application to the CEC for the solar PV and battery storage system requirements determination pursuant to California Code of Regulations, Title 24, §10-109(k) on November 21, 2022; and

WHEREAS, the Trinity PUD, in its application to the CEC, presented evidence that its low energy rates cause the solar PV system and battery storage system requirements to not be cost-effective for its service area; and

WHEREAS, CEC staff has considered the application of CEQA to the proposed determination and concluded that (1) approval of Trinity PUD's application is not a project within the meaning of CEQA and (2) even if it is, it is subject to the Common-Sense Exception.

WHEREAS, CEC staff analyzed whether Trinity PUD public agency rules causes the CEC's cost-effectiveness conclusions to not hold, and determined that the solar PV and battery storage requirements are indeed not cost-effective as a result of Trinity PUD public agency rules, pursuant to Public Resources Code 25402(b)(3).

WHEREAS, that documents and other materials that constitute the determination record can be found online at [Docket Number 22-BSTD-04](https://efiling.energy.ca.gov/Lists/DocketLog.aspx?doctetnumber=22-BSTD-04), <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?doctetnumber=22-BSTD-04>; and

THEREFORE, THE CALIFORNIA ENERGY COMMISSION FINDS:

With regard to the California Environmental Quality Act (CEQA):

- The CEC has considered the application of CEQA to the proposed determination and concluded that approval of Trinity PUD's November 21, 2022 application is not an activity that may cause a direct or reasonably foreseeable indirect physical change to the environment within the meaning of CEQA Guidelines § 15378 and therefore not a project under CEQA, and that it can be seen with certainty to have no possibility for causing a significant effect on the environment within the meaning of CEQA Guidelines § 15061(b)(3), and therefore subject to the Common-Sense Exception even if it is a project under CEQA; and

With regard to the requirements of 10-109(k):

- The Trinity PUD application meets all applicable §10-109(k) requirements, and determines that the solar PV requirements in the 2022 Energy Code, §140.10 and §170.2(g), shall not apply to newly constructed nonresidential and high-rise residential buildings within Trinity PUD service territory; and

THEREFORE BE IT RESOLVED, that the CEC adopts the findings of staff that the approval of Trinity PUD's November 21, 2022 application has met all of the applicable requirements of 10-109(k).

FURTHER BE IT RESOLVED, that the CEC hereby grants the approval of the November 21, 2022 application from Trinity PUD, effective solely for the 2022 Energy Code cycle; and

FURTHER BE IT RESOLVED, that the Executive Director or their designee shall take all actions 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo

NAY: NONE

ABSENT: NONE

ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Ocean Protection Council

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 OSW-23-001 with the Ocean Protection Council for the CEC to receive \$124,900.62 to collect and compile cultural resources data for California North Coast offshore wind energy development affecting state lands and waters. CEC staff will compile cultural resources data into a geographic information system as a common platform for state agencies and North Coast California Native American tribes to make management decisions concerning cultural resources on shore, near shore, and offshore that may be affected by offshore wind development; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo

NAY: NONE

ABSENT: NONE

ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Ocean Protection Council

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 OSW-23-002 with the Ocean Protection Council for the CEC to receive \$172,124.80 to collect and compile cultural resources data for California Central Coast offshore wind energy development affecting state lands and waters. CEC staff will compile cultural resources data into a geographic information system as a common platform for state agencies and California Native American tribes south of San Francisco Bay to make management decisions concerning cultural resources on shore, near shore, and offshore that may be affected by offshore wind development; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo

NAY: NONE

ABSENT: NONE

ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Aspen Environmental Group

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 1 to contract 700-22-003 with Aspen Environmental Group to increase the agreement's budget by \$1,000,000 and amend the scope of work to support an environmental impact assessment in the regulatory matter of the Replacement Tire Efficiency Program rulemaking; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo
NAY: NONE
ABSENT: NONE
ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Recurve Analytics, 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 800-23-004 with Recurve Analytics, Inc., for up to \$1,992,447 to analyze customer energy use data, including advanced meter infrastructure data. The agreement will initially be for \$1,000,000. Additional funding, up to the \$1,992,447 total, will require approval from the CEC's Executive Director through an amendment. This agreement will help the CEC better understand the state's energy load, the impact of decarbonization actions and equipment on the grid, buildings, ratepayer energy costs or burden, and energy usage, and the performance of decarbonization equipment and measures, including distributed energy resources; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo

NAY: NONE

ABSENT: NONE

ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: ADM Associates, 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 800-23-002 with ADM for a \$350,000 contract to provide technical support for updating the Commercial Forecast Model. ADM will migrate forecast model code to modern software, revise key inputs (e.g., energy use intensities, saturations), improve forecasting capabilities, create a user manual, and provide training to staff; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo
NAY: NONE
ABSENT: NONE
ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Porifera, 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-23-011 with Porifera, Inc. for a \$4,998,521 grant to install Porifera Forward Osmosis Recycler System to maximize reclamation of hard-to-treat paper pulp wastewater for on-site reuse at the Procter & Gamble Paper Products Company facility in Oxnard; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo

NAY: NONE

ABSENT: NONE

ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Element 16 Technologies, 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-23-012 with Element 16 Technologies, Inc. for a \$3,000,000 grant to fund the technology development and demonstration of sulfur thermal energy storage and demonstrating flexible operation to support economically feasible electrification and decarbonization of industrial processes in Trona; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo
NAY: NONE
ABSENT: NONE
ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Caliskaner Water Technologies, 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-23-013 with Caliskaner Water Technologies, Inc. for a \$7,190,593 grant to implement and demonstrate three innovative advanced sludge separation treatment technologies to reduce wastewater treatment plant energy consumption and greenhouse gas emissions at a facility in Olivehurst; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo
NAY: NONE
ABSENT: NONE
ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: Capture6 Corp.

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-23-014 with Capture6 Corp. for a \$8,153,623 grant to use the waste brine from Palmdale Water District's Pure Water Antelope Valley augmentation program to produce sodium hydroxide for Capture6's direct-air-capture of carbon dioxide technology in Palmdale; and

FURTHER BE IT RESOLVED, that the Executive Director or their 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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo

NAY: NONE

ABSENT: NONE

ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: 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, New Energy Nexus dba California Clean Energy Fund or CalCEF Ventures (“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, in Q1 2023 held an open application period, Solicitation 23-01, a competitive solicitation, and received 68 applications that passed initial screening, and as a result has proposed to CEC small grant projects for funding; and

WHEREAS, CEC staff has reviewed the small grant projects CalCEF has proposed, and recommends the following 27 small grant projects for funding:

- a. \$150,000 is being requested for the Liquid Adsorbed CO2 Energy Storage (LACES) project with Activated Energy, LLC, a project to design and demonstrate a long duration energy storage system for urban environments; and
- b. \$150,000 is being requested for the Low-Cost, Abundant, Ph-Neutral, Aqueous-Soluble Organic Redox-Active Electrolytes (redoxolytes) for RFBs project with BioZen Batteries, Inc., a project to further develop a low-cost, carbon-based electrolyte fluid for redox flow batteries; and
- c. \$150,000 is being requested for the Project Phoenix- an Early Wildfire Detection and Mitigation System project with Ceja Engineering Solutions LLC, a project to develop a self-powered, line-mounted wildfire detection system

- that will employ embedded vibration, carbon dioxide, and infrared sensors to provide ultra-long range wildfire monitoring; and
- d. \$150,000 is being requested for the Permanent Load Shifting Using Consumer Refrigeration as Renewable Energy Storage project with Conusant, Inc., a project to develop and implement a micro-controller in residential refrigerators to efficiently store thermal energy and shift load; and
 - e. \$150,000 is being requested for the Next-Generation Cementitious Materials from Non-Carbonate Rocks project with C-Crete Technologies LLC, a project to develop a process that turns naturally-occurring, abundant “non-carbonate” rocks such as zeolite to cementitious binders with significant energy savings, affordability, flexibility, and emissions reductions while maintaining similar comfort level and performance for end users; and
 - f. \$150,000 is being requested for the Ionocaloric Heat Pumping project with Calion Technologies, Inc., a project to develop a zero global warming potential carbon-negative heat pump using ionocaloric heat pumping technology that will provide a drop-in replacement for vapor compression technologies; and
 - g. \$150,000 is being requested for the Carbon Blade: Renewable Energy, Self-Powered, Distributed Direct-Air Carbon Capture System project with Carbon Blade Corporation, a project to build a self-powered, distributed direct-air-capture system that uses commercial components combined with patent pending technology to reduce carbon dioxide concentrations in the atmosphere; and
 - h. \$150,000 is being requested for the Flexible CO₂ Based Thermo-Mechanical Energy Storage project with EarthEn, a project to develop a flexible energy storage solution that uses carbon dioxide in a closed loop to store energy cheaply and safely; and
 - i. \$150,000 is being requested for the Electrifying Lithium Extraction: Transforming Unconventional Brines into Economically Feasible Sources project with EELI Technology, Inc., a project to develop an economical, efficient, and scalable direct lithium extraction platform technology using electricity rather than carbon-intensive reagent chemicals; and
 - j. \$150,000 is being requested for the Empowering Affordable Home Electrification through Intelligent Load Management by ENAMP project with ENAMP Inc., a project to advance a distributed energy resources management and electric vehicle charging hub for residential buildings with limited utility power capacity; and
 - k. \$150,000 is being requested for the Applied AI for EV Charger Reliability project with EnergizedAI, Inc., a project to increase EV fast charger uptime through the development of a predictive maintenance algorithm, allowing service to occur before failure; and
 - l. \$150,000 is being requested for the Next-Generation Recycling/Upcycling of Lithium-Ion Batteries by Integrated Process project with ExPost Technology, Inc. a project to develop a reuse and recycling process for end-of-life lithium-ion batteries that is closed-loop, free from toxic substances, and uses little wastewater; and

- m. \$150,000 is being requested for the Hydrogen-Fueled and Nimble with Recycled Fines: Modular Cement Plants for the 21st Century project with Furno Materials Inc., a project to produce carbon-neutral Portland cement using hydrogen fuel and recycled concrete fines; and
- n. \$150,000 is being requested for the AI Value Targeting to Accelerate DER project with Grid Science, LLC, a project to determine the value of behind-the-meter DER such as battery storage using supply and demand conditions, load capacity, and reliability of the local utility circuit; and
- o. \$150,000 is being requested for the Intelligent Adaptive Heat Pump Controller for Space Heating and Cooling project with Helios Climate Industries Inc., a project to develop a variable-speed heat pump controller to maximize comfort, minimize operating costs, and provide demand response capabilities; and
- p. \$150,000 is being requested for the Integrated Reluctance Motor with Carbon Fiber Flywheel Energy Storage System project with Kinetix Energy Storage Corporation, a project to engineer an integrated reluctance motor with a carbon fiber flywheel energy storage system to fit two complete 500 kW/1 MWh flywheel energy storage systems inside a 20 foot shipping container for short-duration energy storage applications; and
- q. \$150,000 is being requested for the Microwave-Assisted Manufacturing of Battery Cathode Materials project with Leeta Materials, Inc., a project to develop and demonstrate a microwave-assisted manufacturing process for battery cathode materials; and
- r. \$150,000 is being requested for the Smart Algorithm for Greenhouse Energy and Food Production project with Mirai Solar Corp., a project to develop, implement, and test a self-learning control logic for enhancing the energy use efficiency of greenhouses through the automation of retractable photovoltaic shade screens; and
- s. \$150,000 is being requested for the K4LE: Potassium (K)-Ion Batteries for Lithium-Free, Low-Cost, Long-Lived, Large-Scale, Energy-Efficient Energy Storage project with Project K Energy, Inc., a project to develop a potassium-ion battery that replaces lithium, cobalt, nickel, and copper with inexpensive and ubiquitous potassium, iron, and aluminum for grid-scale energy storage; and
- t. \$150,000 is being requested for the Data-Accelerated Sodium-Ion Cathode Manufacturing for Domestically Resilient and Affordable Batteries project with Root 121, Inc., a project to demonstrate a high energy density sodium-ion cathode manufacturing technology; and
- u. \$150,000 is being requested for the Fully Modular Drive System for Medium and Heavy-Duty Vehicles project with Scalvy Inc., a project to design and demonstrate a fully modular drivetrain system for medium- and heavy-duty vehicles; and
- v. \$150,000 is being requested for the Lynx MPower project with Sea Dragon Energy, Inc., a project to develop an energy management system for homeowners to monitor and control circuits using their existing circuit breaker panel; and

- w. \$150,000 is being requested for the Solar Thermal Absorption Cooling for a Warming World project with Solar Ice LLC, a project to build a prototype of a solar thermal-powered air conditioning and hot water heating system using high efficiency solar collectors, modern absorption chillers, and state-of-the-art phase change material storage; and
- x. \$150,000 is being requested for the Nano Filters for the Precision Separation of Critical Metals project with Sunchem LLC, a project to develop and scale up a low-cost nano-filtration device that can continuously capture critical metals used for the clean energy transition from complex water mixtures; and
- y. \$150,000 is being requested for the Thermoshade project with ThermoShade Solutions Inc., a project to develop a passive cooling panel that can be installed above outdoor spaces, creating a shady space that feels up to 20°F cooler without requiring electricity or water; and
- z. \$150,000 is being requested for the Repurposing Desalination Salt for Thermal Energy Storage in Pilot Scale project with Waste Salt Technologies LLC, a project to demonstrate a process that repurposes unseparated and minimally processed salt from desalination for use in thermal energy storage; and
- aa. \$150,000 is being requested for the Advanced Manufacturing for Aerogel Technologies project with Westwood Aerogel Co., a project to incorporate aerogel technology into energy efficient window designs and provide a retrofit solution for single-pane windows; and

WHEREAS, CEC staff has reviewed the projects and determined that each project is exempt from the California Environmental Quality Act, as described in CEC staff's "Project Summaries and California Environmental Quality Act (CEQA) Analysis For Proposed Concept Small Grant Awards Under the California Sustainable Energy Entrepreneur Development (CalSEED) Initiative, Agreement No. 300-15-007" Memorandum ("Memorandum") dated September 1, 2023, 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 27 small grant projects; and

FURTHER BE IT RESOLVED, that the CEC approves the 27 small grant projects for a total of \$4,050,000; and

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

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 September 13, 2023.

AYE: Hochschild, Gunda, McAllister, Monahan, Gallardo
NAY: NONE
ABSENT: NONE
ABSTAIN: NONE

Dated: September 14, 2023

SIGNED BY:

Kristine Banaag
Secretariat