

DOCKETED

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STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION APPROVING THE CITY OF CARLSBAD'S LOCAL BUILDING
ENERGY EFFICIENCY STANDARDS ORDINANCE CS-347 and CS-348, ABSENT
AMENDMENTS TO SECTIONS 140.5(b)2C AND 150.1(c)8Biii

RESOLUTION: California Energy Commission approval of the City of Carlsbad's locally adopted building energy standards, Ordinances CS-347 and CS-348, to require greater or equivalent energy efficiency than the *2019 Energy Code*, provided in California Code of Regulations, Title 24, Part 6, and associated administrative regulations in Part 1, Chapter 10.

WHEREAS, on March 12, 2019, the City of Carlsbad adopted an ordinance to exceed the *2019 Energy Code* (the Ordinance); and

WHEREAS, Public Resources Code Section 25402.1, Subdivision (h)(2), and California Code of Regulations, Title 24, Section 10-106, establish a process for local governments to apply to the Energy Commission for approval of local energy standards that are different from, but which must be at least as stringent as, the *2019 Energy Code*; and

WHEREAS, the City of Carlsbad submitted an application to the Energy Commission for the Ordinance that meets all of the documentation requirements pursuant to Public Resources Code Section 25402.1, Subdivision (h)(2), and California Code of Regulations, Title 24, Section 10-106; on April 23, 2019; and

WHEREAS, the City of Carlsbad, in their application to the Energy Commission, indicated that there is no possibility that the implementation of the Ordinance will have a significant negative impact on the environment, and therefore the adoption of the ordinance is exempt from the California Environmental Quality Act codified in California Public Resources Code section 21000 et seq. (CEQA), pursuant to Subdivision (b)(3) of Section 15061 of the CEQA Guidelines, codified in Title 14 of the California Code of Regulations; and

WHEREAS, the City of Carlsbad has made a written commitment to actively enforce compliance with both the *2019 Energy Code* and with the amendments in its

Ordinances, with the exception of the amendments to Sections 140.5(b)2C and 150.1(c)8Biii; and

WHEREAS, the Energy Commission has analyzed whether the Ordinance will require the diminution of energy consumption levels permitted by the *2019 Energy Code*.

THEREFORE BE IT RESOLVED, the Energy Commission finds that the City of Carlsbad's Ordinance will require the diminution of energy consumption levels permitted by the *2019 Energy Code*; and

THEREFORE BE IT FURTHER RESOLVED, that the Energy Commission finds that granting the application of the City of Carlsbad regarding the Ordinance will not result in a direct or reasonably foreseeable indirect physical change to the environment, and is therefore exempt from CEQA pursuant to Subdivision (b)(3) of Section 15061 of the CEQA Guidelines, codified in Title 14 of the California Code of Regulations; and

THEREFORE BE IT FURTHER RESOLVED, the Energy Commission applauds the City of Carlsbad for seeking to achieve additional energy demand reductions, energy savings and other benefits exceeding those of the *2019 Energy Code*; and

THEREFORE BE IT FURTHER RESOLVED, that on August 14, 2019, the Energy Commission grants the application of the City of Carlsbad; and

THEREFORE BE IT FURTHER RESOLVED, that the Energy Commission directs the Executive Director to take all actions necessary to implement this Resolution, including but not limited to filing the appropriate notices with the Office of Planning and Research. (See, e.g., Cal. Code Regs., Tit 14, § 15062.)

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None



Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION APPROVING THE CITY OF DAVIS'S LOCAL BUILDING
ENERGY EFFICIENCY STANDARDS ORDINANCE NO. 2554

RESOLUTION: California Energy Commission approval of the City of Davis's locally adopted building energy standards, Ordinances CS-347 and CS-348, to require greater or equivalent energy efficiency than the *2019 Energy Code*, provided in California Code of Regulations, Title 24, Part 6, and associated administrative regulations in Part 1, Chapter 10.

WHEREAS, on April 23, 2019, the City of Davis adopted an ordinance to exceed the *2019 Energy Code* (the Ordinance); and

WHEREAS, Public Resources Code Section 25402.1, Subdivision (h)(2), and California Code of Regulations, Title 24, Section 10-106, establish a process for local governments to apply to the Energy Commission for approval of local energy standards that are different from, but which must be at least as stringent as, the *2019 Energy Code*; and

WHEREAS, the City of Davis submitted an application to the Energy Commission for the Ordinance that meets all of the documentation requirements pursuant to Public Resources Code Section 25402.1, Subdivision (h)(2), and California Code of Regulations, Title 24, Section 10-106; on May 14, 2019; and

WHEREAS, the City of Davis, in their application to the Energy Commission, indicated that there is no possibility that the implementation of the Ordinance will have a significant negative impact on the environment, and therefore the adoption of the ordinance is exempt from the California Environmental Quality Act codified in California Public Resources Code section 21000 et seq. (CEQA), pursuant to Subdivision (b)(3) of Section 15061 of the CEQA Guidelines, codified in Title 14 of the California Code of Regulations; and

WHEREAS, the City of Davis has made a written commitment to actively enforce compliance with both the *2019 Energy Code* and with the amendments in its Ordinances, and

WHEREAS, the Energy Commission has analyzed whether the Ordinance will require the diminution of energy consumption levels permitted by the *2019 Energy Code*.

THEREFORE BE IT RESOLVED, the Energy Commission finds that the City of Davis's Ordinance will require the diminution of energy consumption levels permitted by the *2019 Energy Code*; and

THEREFORE BE IT FURTHER RESOLVED, that the Energy Commission finds that granting the application of the City of Davis regarding the Ordinance will not result in a direct or reasonably foreseeable indirect physical change to the environment, and is therefore exempt from CEQA pursuant to Subdivision (b)(3) of Section 15061 of the CEQA Guidelines, codified in Title 14 of the California Code of Regulations; and

THEREFORE BE IT FURTHER RESOLVED, the Energy Commission applauds the City of Davis for seeking to achieve additional energy demand reductions, energy savings and other benefits exceeding those of the *2019 Energy Code*; and

THEREFORE BE IT FURTHER RESOLVED, that on August 14, 2019, the Energy Commission grants the application of the City of Davis; and

THEREFORE BE IT FURTHER RESOLVED, that the Energy Commission directs the Executive Director to take all actions necessary to implement this Resolution, including but not limited to filing the appropriate notices with the Office of Planning and Research. (See, e.g., Cal. Code Regs., Tit 14, § 15062.)

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 August 14, 2019.

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



Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

RESOLUTION - RE: ESNA EXPO, LLC

RESOLVED, that the State Energy Resources Conservation and Development Commission (Energy Commission) finds that the following categorical exemptions exempt the purchase order under CEQA: (1) 14 CCR 15322, Educational or Training Programs Involving No Physical Changes, because the event consists of educational presentations and tutorials which involve no physical alteration in the area affected; and (2) 14 CCR 15323, Normal Operations of Facilities for Public Gatherings, because the event consists of the normal operation of existing facilities for public gatherings at the conference center for which the facilities were designed and there is a past history of the facilities being used for the same or similar events.

RESOLVED, that the Energy Commission approves a \$5,000 purchase order with ESNA EXPO, LLC to co-sponsor their 2019 Energy Storage North America Conference and Exhibition. This unique conference brings together the investment community, end users, and energy storage technology providers from inside and outside California who are actively working on field projects in California. Additionally, Energy Commission staff will host a half-day workshop to review the energy storage research activities at the Energy Commission over the last five years; and

RESOLVED, that the Energy Commission approves the use of the California Energy Commission logo in co-sponsorship advertisements of the aforementioned 2019 Energy Storage North America Conference and Exhibition;

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

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None



Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: WEST COAST CODE CONSULTANTS, INC.

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

RESOLVED, that the Energy Commission approves Agreement 700-19-002 with West Coast Code Consultants, Inc. (WC3, Inc.) for a \$0 contract to provide delegate chief building official (DCBO) services for the Carlsbad Energy Center Project (07-AFC-06C) in regards to the demolition of the Encina Power Station. WC3, Inc. will carry out demolition plan review and the inspection of demolition activities to ensure compliance with reasonable demolition practices and safety requirements on behalf of the Energy Commission. WC3, Inc. will be compensated by the project owner of the Carlsbad Energy Center Project for the DCBO services; and

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

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

**RESOLUTION FINDING PASADENA WATER AND POWER INTEGRATED
RESOURCE PLAN CONSISTENT WITH PUBLIC UTILITIES CODE SECTION 9621**

WHEREAS, Public Utilities Code Sections 9621 and 9622 require specified local publicly owned electric utilities to adopt Integrated Resource Plans at least once every five years and submit them to the California Energy Commission; and

WHEREAS, Public Utilities Code Section 9622 requires that the California Energy Commission review the local publicly owned electric utilities' Integrated Resource Plans for consistency with the requirements of Section 9621, and to provide recommendations to correct deficiencies; and

WHEREAS, on December 18, 2018, Pasadena Water and Power (Pasadena) submitted an Integrated Resource Plan and supporting documentation (the IRP Filing); and

WHEREAS, on January 3, 2019, the Energy Commission notified Pasadena that the IRP Filing was complete, as described in the Publicly Owned Utilities' Integrated Resource Plan Guidelines adopted by the Energy Commission; and

WHEREAS, the Energy Commission posted the IRP Filing on its website for public comment and accepted comments for at least 30 days and did not receive any public comment; and

WHEREAS, on April 17, 2019, the Energy Commission Executive Director signed a letter informing Pasadena that he had determined the IRP Filing is consistent with the requirements of Public Utilities Code Section 9621, which was posted on the Energy Commission website along with a supporting staff paper on April 19, 2019 for a 45 day comment period; and

WHEREAS, the Energy Commission received one comment from Pasadena providing minor clarifications on the staff paper, in response to which the Energy Commission updated the staff report to reflect the clarifications; and

THEREFORE BE IT RESOLVED, that the Energy Commission adopts the determination of the Executive Director, that the IRP Filing is consistent with the requirements of Public Utilities Code Section 9621.

CERTIFICATION

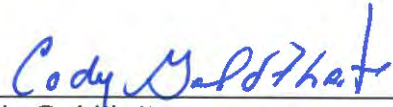
The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the California Energy Commission held on August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None



Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

**RESOLUTION FINDING VERNON PUBLIC UTILITIES INTEGRATED RESOURCE
PLAN CONSISTENT WITH PUBLIC UTILITIES CODE SECTION 9621**

WHEREAS, Public Utilities Code Sections 9621 and 9622 require specified local publicly owned electric utilities to adopt Integrated Resource Plans at least once every five years and submit them to the California Energy Commission; and

WHEREAS, Public Utilities Code Section 9622 requires that the California Energy Commission review the local publicly owned electric utilities' Integrated Resource Plans for consistency with the requirements of Section 9621, and to provide recommendations to correct deficiencies; and

WHEREAS, on January 10, 2019, Vernon Public Utilities (Vernon) submitted an Integrated Resource Plan and supporting documentation (the IRP Filing); and

WHEREAS, on January 18, 2019, the Energy Commission notified Vernon that the IRP Filing was complete, as described in the Publicly Owned Utilities' Integrated Resource Plan Guidelines adopted by the Energy Commission; and

WHEREAS, the Energy Commission posted the IRP Filing on its website for public comment and accepted comments for at least 30 days and did not receive any public comment; and

WHEREAS, on May 13, 2019, the Energy Commission Executive Director signed a letter informing Vernon that he had determined the IRP Filing is consistent with the requirements of Public Utilities Code Section 9621, which was posted on the Energy Commission website along with a supporting staff paper on May 13, 2019 for a 45 day comment period; and

THEREFORE BE IT RESOLVED, that the Energy Commission adopts the determination of the Executive Director, that the IRP Filing is consistent with the requirements of Public Utilities Code Section 9621.

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None



Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

**RESOLUTION FINDING RIVERSIDE PUBLIC UTILITIES INTEGRATED RESOURCE
PLAN CONSISTENT WITH PUBLIC UTILITIES CODE SECTION 9621**

WHEREAS, Public Utilities Code Sections 9621 and 9622 require specified local publicly owned electric utilities to adopt Integrated Resource Plans at least once every five years and submit them to the California Energy Commission; and

WHEREAS, Public Utilities Code Section 9622 requires that the California Energy Commission review the local publicly owned electric utilities' Integrated Resource Plans for consistency with the requirements of Section 9621, and to provide recommendations to correct deficiencies; and

WHEREAS, on December 18, 2018, Riverside Public Utilities (Riverside) submitted an Integrated Resource Plan and supporting documentation (the IRP Filing); and

WHEREAS, on January 3, 2019, the Energy Commission notified Riverside that the IRP Filing was complete, as described in the Publicly Owned Utilities' Integrated Resource Plan Guidelines adopted by the Energy Commission; and

WHEREAS, the Energy Commission posted the IRP Filing on its website for public comment and accepted comments for at least 30 days and did not receive any public comment; and

WHEREAS, on April 17, 2019, the Energy Commission Executive Director signed a letter informing the City of Anaheim that he had determined the IRP Filing is consistent with the requirements of Public Utilities Code Section 9621, which was posted on the Energy Commission website along with a supporting staff paper on April 17, 2019 for a 45 day comment period; and

WHEREAS, the Energy Commission received one comment from Anaheim clarifying the base year it used for energy efficiency estimates in the IRP Filing, in response to which the Energy Commission updated the staff report to reflect the appropriate base year for energy efficiency estimates; and

THEREFORE BE IT RESOLVED, that the Energy Commission adopts the determination of the Executive Director, that the IRP Filing is consistent with the requirements of Public Utilities Code Section 9621.

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

IN THE MATTER OF:

**SPRAY SPRINKLER BODIES
APPLIANCE EFFICIENCY
RULEMAKING**

Docket No. 19-AAER-01

**RESOLUTION ADOPTING
REGULATIONS**

WHEREAS, on April 25, 2019, the Commission published a Notice of Proposed Action (NOPA) formally notifying the public of the Energy Commission's intent to adopt proposed regulations for spray sprinkler bodies, the Express Terms of the proposed regulations, an Initial Statement of Reasons (ISOR) describing the rationale for the proposal, Appendix B of the U.S. EPA WaterSense Specification for Spray Sprinkler Bodies, incorporated by reference, Standardized Regulatory Impact Assessment (SRIA), Final Staff Report; and

WHEREAS, on April 26, 2019, the NOPA was published in the California Regulatory Notice Register; and

WHEREAS, on May 9, 2019, the Commission published a Notice of Extension of Comment Period, extending the comment period to June 17, 2019; and

WHEREAS, on May 16, 2019, the Commission published an Initial Study and Proposed Negative Declaration for Spray Sprinkler Bodies and a Notice of Availability, concluding that the proposed regulations would result in water and energy savings and reductions in air pollution, and there would be no significant adverse impacts to the environment as a result; and

WHEREAS, on June 18, 2019, the Commission held a Public Hearing to hear comments on the proposed regulations; and

WHEREAS, each of these documents and notices was provided to every person on the Energy Commission's Appliances list server and to every person who had requested notice of such matters, and was posted to the Commission's website; and

WHEREAS, on August 2, 2019, the Commission provided notice designating August 14, 2019, as the date for the hearing to consider adoption of the proposed regulations and on this date the Commission held a public hearing to receive comments on the proposed regulations and to consider their adoption and did so adopt the regulations; and

THEREFORE, THE CALIFORNIA ENERGY COMMISSION FINDS:

With regard to the California Environmental Quality Act:

- The California Energy Commission has considered the application of the California Environmental Quality Act (CEQA) to the proposed regulations and concluded that the proposed energy efficiency regulations for spray sprinkler bodies will not have any direct, indirect, or cumulatively considerable significant adverse effect on the environment; and

With regard to the Warren-Alquist Act:

- The proposed regulations will reduce the wasteful, uneconomic, inefficient, and unnecessary consumption of water and energy for appliances that require a significant amount of water on a statewide basis; and
- The proposed regulations are technologically feasible and attainable; and
- The proposed regulations do not result in any added total costs to the consumer over the designed life of the appliances concerned; and
- In adopting these regulations, the Commission considered the Irrigation Association's Smart Water Application Technology Program testing protocols, and ultimately determined that Appendix B of the U.S. EPA WaterSense Specification for Spray Sprinkler Bodies was a preferable test procedure for purposes of these regulations; and

With regard to the Administrative Procedure Act:

- The proposed regulations will not create new businesses, eliminate existing businesses, or have an effect on the expansion of businesses in California and will not result in a significant statewide adverse impact directly affecting business, including the ability of California businesses to compete with businesses in other states; and
- The proposed regulations will not create or eliminate a significant number of jobs within California; and
- The proposed regulations will impose no direct costs, or direct or indirect requirements or mandates, on state agencies, local agencies, or school districts, including but not limited to costs that are required to be reimbursed under Part 7

(commencing with Section 17500) of Division 4 of the Government Code, when savings accruing over the lifetime of the appliance is considered; and.

- The proposed regulations will result in no costs or savings in federal funding to the State of California; and
- The proposed regulations will not result in cost or savings to any state agency in reasonable compliance with these regulations; and
- The proposed regulations will result in no nondiscretionary costs or savings to local agencies or school districts when savings accruing over the lifetime of the appliance is considered; and
- The proposed regulations will have no impact on housing costs; and
- The proposed regulations will have no significant, statewide adverse effect on businesses in general or small businesses in particular; and
- The proposed regulations will impose no net costs on private persons when savings from reduced water use are taken into account; and
- The proposed regulations will result in some costs that a representative business would necessarily incur in reasonable compliance with the regulations, but any costs will be passed on to consumers and outweighed by savings resulting from reduced water use; and
- The proposed regulations will result in non-economic benefits, on a statewide level, such as reduction in air pollution, greenhouse gas emissions, water use and demand, and energy generation demand; and
- The proposed regulations have no alternatives that would be more effective in carrying out the purposes of the Warren-Alquist Act, that would be as effective and less burdensome to affected private persons in carrying out those purposes, or that would be more cost effective to affected private persons and equally effective in implementing those purposes; and
- The proposed regulations require completion of certain reports regarding the efficiency and performance of the regulated appliances; this information is necessary for consumers and the Energy Commission to confirm that the standards are met and that the appliances consume no more water or energy than allowed, so that the anticipated water savings, and energy, environmental, and cost benefits will actually be achieved. Accordingly, it is necessary that these reporting requirements apply to businesses in order to protect the health, safety and welfare of the people of California, as required by Government Code section 11346.3, subdivision (d); and
- None of the comments received during the comment period or at the adoption hearing, and nothing else in the record, justified any changes to the proposed regulations as published on April 25, 2019.

THEREFORE BE IT RESOLVED, after considering the Initial Study, and all related materials in the record, the Energy Commission finds that (1) there is no substantial evidence that the adoption of the proposed amendments to the Appliance Efficiency Regulations will have a significant effect on the environment, and (2) the Negative Declaration reflects the Commission's independent judgment and analysis. The Commission hereby adopts the Negative Declaration and Initial Study published May 16, 2019. Documents and other materials that constitute the record of proceedings upon which the decision to adopt the negative declaration is based can be found at the California Energy Commission, 1516 9th Street, Sacramento, California, 95814 in the custody of the Docket Unit.

RESOLVED, additionally, after considering all comments received and the staff's responses, and based on the entire record of this proceeding, the California Energy Commission hereby adopts the amendments to its appliance efficiency regulations, as set forth in the express terms that were published on April 25, 2019 (Cal. Code of Regs., tit. 20, §§ 1601-1607). We take this action under the authority of, and to implement, interpret, and make specific, sections 25213, 25218(e), 25401.9 and 25402 of the Public Resources Code.

FURTHER BE IT RESOLVED, the Energy Commission delegates the authority and directs Commission staff to take, on behalf of the Commission, all actions reasonably necessary to have the adopted regulations go into effect, including but not limited to making any appropriate non-substantive changes to the regulations; preparing all appropriate documents, such as the Final Statement of Reasons; compiling and submitting the rulemaking file to the Office of Administrative Law (OAL); making any changes to the rulemaking file required by OAL; and preparing and filing the Notice of Determination with the State Clearinghouse.

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: CITY OF GUSTINE

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

RESOLVED, that the Energy Commission approves Agreement 002-19-ECA with the City of Gustine for a \$2,249,604 loan at one percent interest to install various energy efficiency and renewable energy measures at its facilities, and adopting staff's determination that this action is exempt from CEQA. Upon completion, the project will reduce about 877,665 kilowatt hours (kWh) of grid electricity consumption annually saving the City about \$140,320 in utility costs. Based on the loan amount, the simple payback is 16.0 years; and

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

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: COUNTY OF SANTA BARBARA

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

RESOLVED, that the Energy Commission approves Agreement 003-19-ECA with the County of Santa Barbara for a \$2,736,751 loan at one percent interest for two lighting improvement measures and two PV systems totaling 767 kW and adopting staff's determination that this action is exempt from CEQA. The project is estimated to save the County 1,738,961 kWh of electricity, resulting in annual energy cost savings of \$283,601. Based on the loan amount, the simple payback is 9.7 years; and

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

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 August 14, 2019.

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


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

**RESOLUTION - RE: RENEWABLE ENERGY FOR AGRICULTURE PROGRAM -
LANE AND MICHELE DAVIS JOINT VENTURE**

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

RESOLVED, that the Energy Commission approves Agreement REA-19-003 with Lane and Michele Davis Joint Venture for a \$25,733 grant to install an 11.52 kW solar PV system to serve an almond and rice farm in Colusa County; and

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

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

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

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

WHEREAS, the Energy Commission 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 Energy Commission 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 Agreement Number 300-15-007 and is responsible for soliciting grant applications, recommending grant awards to the Energy Commission, and managing authorized grant projects; and

WHEREAS, CalCEF has completed Solicitation 19-01 and has requested a total of \$3,750,000 for the following twenty five small grant projects:

1. \$150,000 is being requested for the “Decentralized, Rural Co-Production of Filtration Precursor Chemical and Industrial Power” project with Takachar, a project to design and demonstrate a prototype of a portable, low cost technology that processes crop and forest residues into precursors that can be used for water and air filtration media.

2. \$150,000 is being requested for the “Bi-facial, Low-profile, Solar Rooftop Tracking” project with P-Kap Systems LLC, a project to design and demonstrate a low profile, lightweight, laminate photovoltaic tracking system that has

the potential to increase energy output per unit-area by 25 percent and specific energy yield by 50 percent without increasing cost for a rooftop system.

3. \$150,000 is being requested for the “Advanced Solid State Lighting for Better Performance” project with RAF Electronics Corp., a project to develop an ecosystem of efficient and compact solid-state lighting fixtures that has the potential to increase safety and reduce electrical costs in theatrical and agriculture buildings.

4. \$150,000 is being requested for the “Rechargeable CFx Battery” project with DAE Technologies Inc., a project to research and develop a low-cost rechargeable lithium carbon fluoride (LiCFx) battery that surpasses the current state-of-the-art energy density of lithium-ion and lithium sulfur batteries.

5. \$150,000 is being requested for the “Lithium Ion Battery Fire Suppression System” project with RePurpose Energy, Inc., a project to design and demonstrate a lithium-ion battery fire suppression system that combats fires and thermal runaway without internal short-circuiting of the batteries cells. The proposed innovation injects non-conductive liquid into the battery enclosure in a way that does not damage control electronics or additional battery cells.

6. \$150,000 is being requested for the “Sierra Wall System” project with SierraCrete LLC, a project to improve the design of the highly insulating Green Energy Brick that has the potential to achieve insulating values that allow for the construction of zero net energy homes without the additional cost burden required for traditional wall framing systems.

7. \$150,000 is being requested for the “Heat Pump Water Heating Optimization using Hot Water Storage Management” project with ZYD Energy, Inc., a project to develop an optimized electric water heating solution by integrating heat pump water heaters with a hot water storage management technology to achieve high efficiency operation, lower operational cost, and provide energy storage services.

8. \$150,000 is being requested for the “Ivy Energy Software – Enabling Multi Unit Shared Solar” project with Ivy Energy, a project to design and demonstrate a software platform that enables multi-unit building owners to install a shared solar system that equitably rewards residents for using energy when it is cheap or provided by the solar system. The Ivy platform will have a 15-minute interval load algorithm that can identify each housing unit’s “true” solar energy and EV charging usage considering real time-of-use.

9. \$150,000 is being requested for the “Icarus Hybrid Energy Storage and Power Boost for Photovoltaic Systems” project with Icarus RT, Inc., a project to design and demonstrate a low-cost hybrid solar photovoltaic/thermal system co-located with commercial and larger Solar PV arrays that has the potential to increase power availability 25 percent, and reduce costs by more than 50 percent over current systems.

10. \$150,000 is being requested for the “High Efficiency Density Variable HP Integrated Motor and Drive” project with GreenTech Motors Corp., a project to design and demonstrate a High Efficiency Density (HED) motor that has the potential to

dramatically reduce end-use industrial electricity consumption through reduced efficiency losses, size, and weight of the electric motor.

11. \$150,000 is being requested for the “High Thermal Conductivity, Broadband Emitting Nitride Ceramic Downconverters for Lighting Applications” project with Luciant Inc., a project to further the development of a ceramic downconverter for LED/Laser driven lighting that eliminates the need for color mixing and has the potential to dramatically improve thermal management which will provide significant improvements in temperature variation and energy efficiency.

12. \$150,000 is being requested for the “Lithium-carbon based rechargeable batteries” project with EndLis Energy, a project to design and demonstrate low-cost, environmentally-sustainable, lithium carbon based rechargeable batteries for electric vehicles and grid storage applications that has the potential to double EV range capacity and decrease grid energy storage costs.

13. \$150,000 is being requested for the “Third Generation LED with Diffusion Lens” project with Optec LED, Inc., a project to design and demonstrate LED street lights and parking lot lights that have the potential to reduce energy consumption by 70 to 90 percent while also reducing maintenance costs. A unique slim-line housing with specialized heat sinks will eliminate the need for integrated cooling fans and will provide 100,000 hours of use before chips will need to be changed.

14. \$150,000 is being requested for the “Thermal Energy Storage using Ultra-High Osmotic Pressure Polymers” project with T2M Global, LLC, a project to develop Thermal Energy Storage in Osmotic Polymers (TESOP), which stores low-temperature (less than 200 degrees Celsius) thermal energy indirectly through thermo-chemical reactions.

15. \$150,000 is being requested for the “Low-Cost, Safer, Cobalt-free, Nanostructured Lithium Ion Battery Cathode Material” project with NanoDian, Inc., a project to develop prototype Li-ion battery packs that replace the cobalt in the cathode portion of the battery with nanostructured lithium manganese oxide - a safer, cheaper, and non-toxic chemistry.

16. \$150,000 is being requested for the “Energy Storage with NaFe Flow Batteries” project with Nrgtek Inc., a project to develop a small scale prototype sodium-iron flow battery with significantly better power density while maintaining excellent cycle life and low cost.

17. \$150,000 is being requested for the “High Efficiency, Scalable Power Generating Windows for Urban Centers” project with Luminescent Energy, a project to create a small prototype power-generating window that uses microscale PV cells and quantum dot technology to produce electricity.

18. \$150,000 is being requested for the “Rapidly Deployable Ground-Mounted Photovoltaic Solar Array” project with SolarFlexes LLC, a project to engineer a low cost, easy-to-assemble ground mounted photovoltaic system that can be stowed flat to withstand winds up to 150 mph.

19. \$150,000 is being requested for the “Impedance-Based Battery Health Management for Large Format Lithium-ion Battery Packs” project with ReJoule Incorporated, a project to develop a portable battery diagnostic system that can be embedded in an EV battery pack management system to continuously monitor battery health while detecting and preventing thermal runaway.

20. \$150,000 is being requested for the “Rechargeable Carbon-Oxygen Battery” project with Noon Energy, Inc., a project to develop and test a closed system, passive-flow prototype battery that uses carbon and oxygen.

21. \$150,000 is being requested for the “Thin-Film Battery Electrode Coating Technology” project with Coreshell Technologies, Inc., a project to collect demonstration data on a battery electrode coating technology expected to lower the cost of lithium ion batteries by 35 percent while doubling the battery’s life.

22. \$150,000 is being requested for the “Solid State Thermal Battery” project with Antora Energy, a project to prototype 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 PV modules exposed to light radiating from the hot storage medium, the technology delivers energy storage for less than \$10/kWh – over an order of magnitude cheaper than Li-ion batteries.

23. \$150,000 is being requested for the “Powering Next-Generation IoT via Advanced Piezoelectric MEMS” project with ActiveMEMS LLC, a project to develop high-performance piezoelectric energy harvesters that use tiny machinery vibrations to generate electricity.

24. \$150,000 is being requested for the “Safe, High Performance Rechargeable Zinc Battery” project with EnZinc Inc., a project to validate and prototype an innovative battery chemistry that combines a proprietary zinc sponge anode with nickel, silver, or carbon cathodes for different applications.

25. \$150,000 is being requested for the “Pre-fabricated Affordable Renewable Energy Housing” project with Arvind Simhadri, a project to explore and validate the concept for prefabricated housing that includes solar, storage, and community energy management.

WHEREAS, Energy Commission staff have reviewed the proposed projects and determined that categorical exemptions apply to each project, as described in the staff California Environmental Quality Act (“CEQA”) Compliance Analysis Memorandum dated August 14, 2019, a document that is included in the backup materials to this Agreement.

THEREFORE BE IT RESOLVED, that the Energy Commission adopts staff’s CEQA findings contained in the staff CEQA Compliance Analysis Memorandum dated August 14, 2019 for the twenty five proposed projects; and

FURTHER BE IT RESOLVED, that the Energy Commission approves the twenty five projects proposed for funding from CalCEF Solicitation 19-01 for a total of \$3,750,000; and

FURTHER BE IT RESOLVED, that the Energy Commission directs CalCEF to execute grant agreements with the approved projects pursuant to Agreement Number 300-15-007; and

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

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None



Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: UNIENERGY TECHNOLOGIES, LLC

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

RESOLVED, that the Energy Commission approves Agreement EPC-19-001 with UniEnergy Technologies, LLC for a \$2,969,998 grant to demonstrate the third generation flow battery technology at a scale that is 600 percent larger than a previous federally-funded grant project, and adopting staff's determination that this action is exempt from CEQA. The battery system will be deployed at Farm ACW's facility to test the optimal economic use cases for a large solar plus storage system in San Diego Gas & Electric territory; and

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

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None



Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: LOCAL GOVERNMENT COMMISSION

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

RESOLVED, that the Energy Commission approves Agreement 300-19-001 with the Local Government Commission for a \$26,000 contract to provide a CivicSpark Fellow that will assist staff in collaborating with local governments on approaches to connect stakeholders in underserved regions with clean energy research funding opportunities and projects; and

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

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 August 14, 2019.

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


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: DOE-LAWRENCE BERKELEY NATIONAL LABORATORY

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

RESOLVED, that the Energy Commission approves Agreement 600-19-005 with the U.S. Department of Energy's Lawrence Berkeley National Laboratory for a \$400,000 contract to conduct charging infrastructure analyses of plug-in EVs used in medium- and heavy-duty on-road applications. This agreement will analyze the needed charging infrastructure and geographic load impacts of medium- and heavy-duty vehicle charging, and will conduct a scoping analysis to inform potential grid upgrades and on-road fleet load coordination. The findings from this study will be incorporated into the Energy Commission's infrastructure modeling work and infrastructure requirement projections for 2030 pursuant to AB 2127 (Ting, 2018); and

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

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

**STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION**

RESOLUTION - RE: DOE-NATIONAL RENEWABLE ENERGY LABORATORY

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

RESOLVED, that the Energy Commission approves Amendment 3 to Agreement 600-15-001 with the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) to add two technical tasks, augment the agreement by \$1.2 million, and provide a one-year term extension. Under this amendment, NREL will update the Electric Vehicle Infrastructure Projections model and will collect data and report on historical EV charging stations; and

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

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None


Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: CHULA VISTA ELEMENTARY SCHOOL DISTRICT

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

RESOLVED, that the Energy Commission approves Agreement ARV-19-033 with Chula Vista Elementary School District for a \$3,877,270 grant to replace 10 old, diesel-powered school buses with 10 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 Energy Commission.

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None



Cody Goldthrite
Secretariat

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: GATEWAY UNIFIED SCHOOL DISTRICT

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

RESOLVED, that the Energy Commission approves Agreement ARV-19-058 with Gateway Unified School District for a \$780,218 grant to replace two old, 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 Energy Commission.

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 August 14, 2019.

AYE: Hochschild, Scott, McAllister, Monahan

NAY: None

ABSENT: Douglas

ABSTAIN: None



Cody Goldthrite
Secretariat