

To: Office of Planning and Research
 PO Box 3044
 1400 Tenth Street, Room 113
 Sacramento, CA 95812-3044

From: California Energy Commission
 715 P Street
 Sacramento, CA 95814

Project Applicant: Electric Power Research Institute, Inc.

Project Title: Demonstrating Code-compliant Energy Storage Systems and Their Capabilities for Grid Harmonization **REVISED – SCH 2020080149**

Project Location:

<u>Address</u>	<u>City</u>	<u>County</u>
Varies - Ridge View single-family homes located between Quincy Ave & N Locan Ave	Clovis 93612	Fresno
Varies - The Highlands single-family homes located between E Shaw Ave and N Highland	Clovis 93612	Fresno
Varies - Willowglen single-family homes located between Bodway Pkwy, Valley House Dr, and Petaluma Hill Rd	Rohnert Park 94928	Sonoma
Varies – DeYoung Properties, single-family homes located between Leonard Ave, Barstow and DeWolf Ave	Clovis 93612	Fresno
Varies – DeYoung at Tesoro Viejo, single-family homes located in the Tesoro Viejo community between Hwy 41, Crown Blfs Dr, and Enchanted Hills Dr.	Madera 96363	Madera
Varies – Summerlin Walk, single-family homes located between Clinton Ave and Armstrong Ave	Fresno 93727	Fresno
Varies – DeYoung Properties, single-family homes located between Leonard Ave, Barstow, and DeWolf Ave	Clovis 93612	Fresno
Fitzpatrick Lane – <u>single-family home</u>	Occidental 95465	Sonoma
Riebli Road – <u>single-family home</u>	Santa Rosa 95404	Sonoma
Louisiana St. – <u>single-family home</u>	San Diego 92104	San Diego
<u>Private Residence on Hayes Road</u>	<u>McKinleville 95519</u>	<u>Humboldt</u>
<u>Private Residence on Beryl St</u>	<u>San Diego 92109</u>	<u>San Diego</u>
<u>Private Residence on Oak Ave</u>	<u>Davis 95616</u>	<u>Yolo</u>

Description of Nature, Purpose and Beneficiaries of Project:

The purpose of this project is to install and evaluate the performance of commercially available energy storage in new construction and existing single-family homes and affordable homes, assess the values of energy storage for the customer, and determine whether any future changes would be required to Title 24 building code. Title 24 recently requires solar on all new construction. It is anticipated that developers will be offering energy storage to customers and customers may be asking for energy storage to enable them to reduce electricity costs and provide backup power during a grid outage. This project will install and connect energy storage units to solar panels being installed by developers or homeowners at approximately 15 new and existing homes, which are built according to Title 24

Authority cited: Sections 21083 and 21110, Public Resources Code. Reference: Sections 21108, 21152, and 21152.1, Public Resources Code.

building code and evaluate the performance of the energy storage for at least one year. This project will provide benefits for the homeowners, multifamily affordable housing owners and tenants, the utility grid, and IOU ratepayers.

Name of Public Agency Approving Project: California Energy Commission

Name of Person or Agency Carrying Out Project: Electric Power Research Institute, Inc.

Exempt Status: *(check one)*

- Ministerial Exemption (Pub. Resources Code § 21080(b)(1); Cal. Code Regs., tit. 14, § 15268);
- Declared Emergency (Pub. Resources Code § 21080(b)(3); Cal. Code Regs., tit. 14, § 15269(a));
- Emergency Project (Pub. Resources Code § 21080(b)(4); Cal. Code Regs., tit. 14, § 15269(b)(c));
- Categorical Exemption. State type and section number
Cal. Code Regs., tit. 14, § 15301 ; Cal. Code Regs., tit. 14, § 15303
- Statutory Exemptions. State code number.
- Common Sense Exemption. (Cal. Code Regs., tit. 14, §15061(b)(3))

Reasons why project is exempt:

California Code of Regulations, title 14, section 15301 ("Existing Facilities") provides that projects which consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use, are categorically exempt from the provisions of the California Environmental Quality Act. The project will install lithium - ion (Li-ion) battery energy storage units at approximately 15 fully developed single family homes and two affordable homes with existing rooftop solar photovoltaic panels. Installation will require minor alterations to the interior or the exterior of the garages of homes with no expansion of footprint. Specifically, containerized energy storage units will be installed near the electrical panel of each home and connected to the home's rooftop solar. For these reasons, the project will have no significant environmental impact and falls under section 15301.

Cal. Code Regs., tit. 14, sect. 15303 (New Construction or Conversion of Small Structures) provides that projects which consist of construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures; and the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure, are categorically exempt from the provisions of the California Environmental Quality Act. The battery energy storage units described above are commercially available, residentially sized Li-ion batteries. Specifically, the power and energy capacities of the batteries will be approximately 5-7 kW and 10-13 kWh, respectively. The commercially available battery units likely to be used for this project include Enphase IQ10, LG Chem RESU 10H/SolarEdge StorEdge, Tesla Powerwall FranklinWH and Sol-Ark. The dimensions (L x W x D) of the combined battery and inverter enclosure are approximately 43in x 27 in x 13 in for the Enphase IQ 10 unit. The dimensions of the battery and inverter enclosures are approximately 36 in x 30 in x 8.5 in, and approximately 37 in x 12.5 in x 7.2 in for LG Chem/SolarEdge unit. The dimensions of the combined battery and inverter enclosures are approximately 46 in x 30 in x 6.5 in for Tesla unit. The dimensions of the battery enclosures are approximately 46 in x 30 in x 12 in for the FranklinWH unit. The dimensions of the battery and inverter enclosures are approximately 28 in x 18 in x 9 in for the Sol-Ark inverter, and approximately 36 in x 29 in x 16 in for the Homegrid battery unit. For these reasons, the project will have no significant environmental impact and falls under section 15303.

Authority cited: Sections 21083 and 21110, Public Resources Code. Reference: Sections 21108, 21152, and 21152.1, Public Resources Code.

Lead Agency

Contact Person: Sebastian Ruiz **Area code/Telephone/Ext:** _____

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature: Sebastian Rubio Ruiz **Date:** 2/8/2024 **Title:** Commission Agreement Manager

Signed by Responsible Agency

Signed by Lead Agency

Signed by Applicant

Date received for filing at OPR: _____