

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

From: California Energy Commission
 1516 Ninth Street, MS-48
 Sacramento, CA 95814

Project Applicant: Electric Power Research Institute, Inc.

Project Title: A zero GWP heat pump and distribution system for all-electric heating and cooling in California (REVISED)

Project Location:

Address	City	County
200 Maritime Academy Dr	Vallejo 94590	Solano
5998 Alcala Park	San Diego 92110	San Diego
8152 Commercial St	La Mesa 91942	San Diego

Description of Nature, Purpose and Beneficiaries of Project:

This project will optimize, test and demonstrate a reversible heat pump system that uses near-zero global warming potential (GWP) refrigerants, such as ammonia (NH3) and carbon dioxide (CO2), for multi-family (MF) or small commercial (SMC) applications. These heat pumps will be in the range of 10 to 20 tons of refrigerating capacity. This new heat pump system will increase cost savings derived from reduced piping installations costs. Additional cost savings and emissions reductions result from lower energy requirements due to higher system efficiency.

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, § 15303
- Statutory Exemptions. State code number.
- Common Sense Exemption. (Cal. Code Regs., tit. 14, §15061(b)(3))

Reasons why project is exempt:

>This project is exempt under the Categorical Exemption. Cal. Code Regs., tit 14, 15303 New Construction or Conversion of Small Structures which exempts limited numbers of new, small facilities or structures and installation of small new equipment and facilities in small structures. EPRI is developing, testing, and demonstrating low global warming potential heat pump and distribution systems that will involve installation of small new equipment at existing multifamily and/or small commercial facilities that will not result in serious or major disturbance to an environmental resource.

Lead Agency

Contact Person: Matthew Fung **Area code/Telephone/Ext:** 916-776-0757

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: Matthew Fung **Date:** 8/12/21 **Title:** Mechanical Engineer

Signed by Responsible Agency

Signed by Lead Agency

Signed by Applicant

Date received for filing at OPR: _____