

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: Institute of Gas Technology dba Gas Technology Institute

Project Title: Symbio H2 Central Valley Express

Project Location:

Address	City	County
9813 Almond Ave	Fontana 92335	San Bernardino
6172-6176 Innovation Way	Carlsbad 92009	San Diego

Description of Nature, Purpose and Beneficiaries of Project:

The purpose of this project is to develop an advanced high-power fuel cell system, improve hydrogen-to-system mass ratio of an onboard hydrogen storage system, and demonstrate low rolling resistance tires in a high-torque electric vehicle application. These technologies will be integrated onto a Class 8 truck and demonstrated over 12 months in drayage operations and a challenging regional haul route between the Inland Empire and Northern Central Valley. The project will lead to ratepayer benefits including air pollutant and greenhouse gas emission reductions by advancing the use of hydrogen fuel cells for heavy-duty trucks.

Name of Public Agency Approving Project: California Energy Commission

Name of Person or Agency Carrying Out Project: Institute of Gas Technology dba Gas Technology Institute

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, § 15306; Cal. Code Regs., tit. 14, § 15301
- 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 Cal. Code Regs., tit. 14, section 15306 because it primarily focuses on information collection efforts related to the design and use of an advanced hydrogen fuel cell truck. Key subsystems such as a fuel cell system, hydrogen storage system, and low rolling resistance tires will be assembled onto a chassis, and the assembled truck will be driven for demonstration and data collection purposes. Telematics systems will be installed on the truck and operational data on performance and energy usage will be collected; this is the primary purpose of the project. Data will then be analyzed within existing laboratory and industrial environments. For these reasons, this project will have no significant effect on the environment and fits within section 15306.

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


This project is also exempt under Cal. Code Regs., tit. 14, section 15301 because work will be conducted at existing facilities. Specifically, a truck chassis will be purchased and modified at an existing industrial facility in Carlsbad. The modified truck will be primarily operated out of an existing freight facility in Fontana, and will move goods throughout the Greater Los Angeles region and across the Central Valley. For these reasons, the project will have no significant effect on the environment and fits within section 15301.

Lead Agency

Contact Person: Peter Chen **Area code/Telephone/Ext:** 916-776-0743

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:  **Date:** 3/23/2022 **Title:** Mechanical Engineer

Signed by Responsible Agency

Signed by Lead Agency

Signed by Applicant

Date received for filing at OPR: _____