

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: Swift Solar Inc.

Project Title: High Efficiency Perovskite Tandems for Solar Electric Vehicles

Project Location – Specific: 981 Bing St

Project Location – City: San Carlos 94070

Project Location – County: San Mateo

Description of Nature, Purpose and Beneficiaries of Project:

This project will develop perovskite PV and demonstrate new applications by integrating Swift Solar's perovskite technology into an electric vehicle (EV). During this project, Swift Solar will improve the efficiency and applications of their perovskite solar cell technology, develop prototype perovskite tandem modules, demonstrate solar charging in an EV using their perovskite tandem technology and evaluate the viability of prototype solar charging solutions for EVs.

Name of Public Agency Approving Project: California Energy Commission

Name of Person or Agency Carrying Out Project: Swift Solar 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
- Statutory Exemptions. State code number.
- Common Sense Exemption. (Cal. Code Regs., tit. 14, §15061(b)(3))

Reasons why project is exempt:

Work under this project will include paper studies including modeling of vehicle-integrated PV output, laboratory research for perovskite solar cell research and development including materials and device processing and characterization, and testing methods and design of perovskite modules for vehicle integration. The laboratory research will occur at an existing, approximately 10,000 square-foot laboratory in an industrial area. New equipment installed will be less than 500 square feet. Only minor electrical work is expected internal to the recipient's lab facility to integrate new equipment. The prototype solar cells will be tested in approximately 1-2 existing vehicles. Testing will involve limited driving in recipient's parking lot and possibly local streets to measure solar output at different orientations. For these reasons, this project will have no impact on the environment and fits within section 15301.

Lead Agency

Contact Person: Michael Ferreira

Area code/Telephone/Ext: 510-364-8808

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: Michael Ferreira Date: 1/28/22 Title: ECS I

Signed by Responsible Agency

Signed by Lead Agency

Signed by Applicant

Date received for filing at OPR: _____