

U.S. Fish and Wildlife Service Kilauea, Hawaii

Kilauea Point Lighthouse repair and Fresnel lens restoration.

Project Overview

Sustainable Group key personnel performed on-site construction services to weatherproof the Kilauea Point Lighthouse and restore the 2nd order Bivalve Fresnel Lens

Reference

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Project Description

The Kilauea Point National Wildlife Refuge, under the U.S. Fish and Wildlife Service, is managed to protect the threatened nēnē (Hawaiian goose), migratory seabirds, and to preserve and maintain the historical integrity of the land, including the Daniel K. Inouye Kilauea Point Lighthouse and Light Station. The Kilauea Point lighthouse, most noted for its prominent location on the north shore of Kauai, lit the way for seafarers and aviators as a major transpacific beacon for 63 years from 1913 to 1976, prompting its selection to be listed on the National Register of Historic Places in 1979.

Over time and in conjunction with the high salinity of the marine environment, as well as the last active Coast Guard enlisted person stationed at the lighthouse leaving in 1974, the lighthouse fell into disrepair. This scope of work sought to return the lighthouse to the weatherproof and impermeable structure it once was.

In order to successfully execute this project, Sustainable Group teamed with ICC Commonwealth to curate a treatment plan that addressed the storm-related repairs needed to weatherproof the lighthouse. This project required the provision of all labor, materials, and equipment to weatherproof the curtain wall assembly with all new custom curved glazing panels, remove and replace the existing rusted watch room wall vents, remove and replace all lantern sill cover plates, and restore working operation to the ventilator ball. To achieve this scope of work, the additionally executed option to safely remove, restore, and reinstall the 2nd order Bi-valve

Key Personnel Certifications

PE, LEED AP, PMP, CFM

Sustainable Group is a Service Disabled Veteran Owned Small Business Corporation.



Kilauea Point Lighthouse Project Complete



Fresnel Lens Disassembly

About Sustainable Group

Headquartered in Moraga, California, Sustainable Group Inc. is a premier licensed General Contractor (CA #966993, HAZ) providing general construction environmental remediation, demolition, civil site development, and marine construction services. Sustainable Group also offers Leadership in Energy and Environmental Design (LEED) expertise pertaining to renewable energy and sustainable sites, as well as overall facilities management consulting services. Sustainable Group key personnel have over 26 years of experience in successfully executing projects and performing expert facilities management for multiple Federal entities including the Department of Homeland Security, Department of Veterans Affairs, Department of Defense, Department of Energy, Department of Transportation, Department of the Interior and the Army Corps of Engineers.

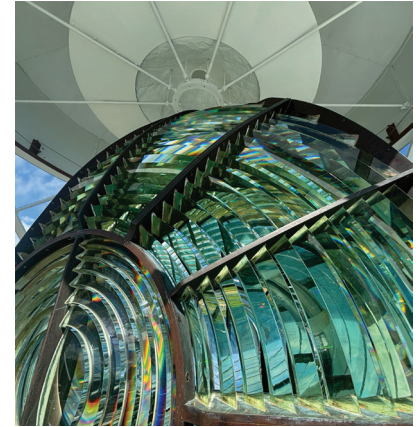
Let's Discuss Your Needs

Sustainable Group will become a highly valued and trusted resource that you'll rely upon to consistently provide expert, efficient and professional construction, remediation, demolition, LEED, and facility management consulting services. Contact us at your convenience; we look forward to discussing your needs.

For more information, call us at **925-899-9721**, or email info@sustainable-group.com.



Glazing Panel Installation



Restored Fresnel Lens

Fresnel Lens, constructed in Paris by Barbier, Bernard & Turenne (BBT) in 1912, was implemented. To support this effort, a certified lampist and two technicians from Lighthouse Consultant LLC expertly performed the disassembly, removal, and subsequent restoration and reinstallation of the Fresnel Lens.



Ceremonial Lighting Ceremony

The conscientious art of preservation, especially that of a nationally historic lighthouse, requires project operations to remain true to the overarching historic standard that preservation work is held to. Consistent with this custom practice, a multitude of additional work outside of the original scope ranging from extensive rust remediation to locally fabricating custom-built rolled angle steel attachments, was completed to correctly and rightfully restore the lighthouse to a weatherproof state.

Furthermore, upon disassembly of the Fresnel Lens, the discovery of rusted shipping strips still fastened in between

the bronze frames since 1913, raised a great concern. Due to the rusted condition of the shipping strips, only to get more corroded over time, the U.S Fish and Wildlife Service elected to have the certified lampist carefully remove the shipping strips before reinstallation to prevent any further damage to the Fresnel Lens.

Undeterred by the supplemental yet necessary additions to the scope of work, completion of all work was still achieved before May 2nd, 2026, just in time for the 113th anniversary of the Daniel K. Inouye Kilauea Point Lighthouse. To commemorate its original commissioning, a ceremonial lighting ceremony of the Fresnel Lens took place.