

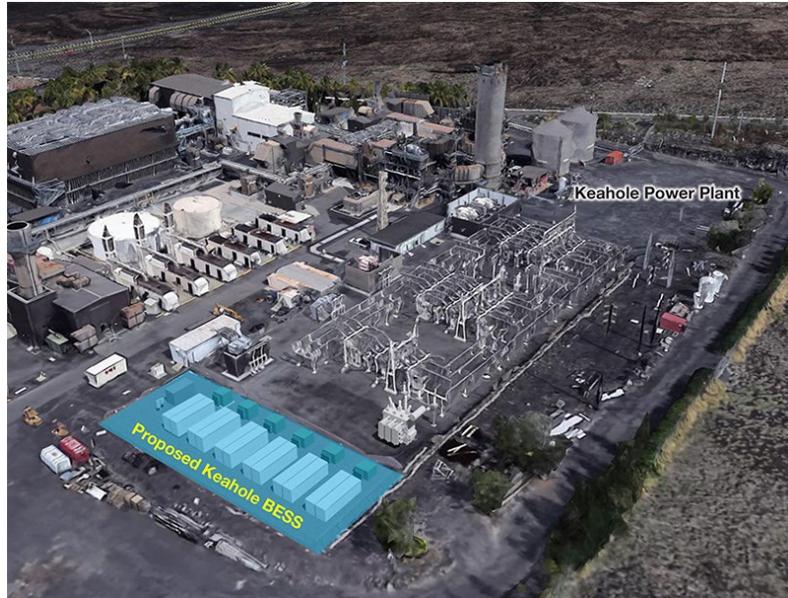


**Hawaiian
Electric**

Keāhole BESS - PROJECT SUMMARY AND COMMUNITY OUTREACH PLAN

Proposer Name (Company name)	Hawaiian Electric Company, Inc.
Parent Company/Owner/Sponsor/etc.	Hawaiian Electric Industries
Project Name	Keāhole Battery Energy Storage
Net AC Capacity of the Facility (MW) (must match Proposal information)	12 MW _{ac}
Proposed Facility Location in/near what City/Area	Kailua-Kona, Hawai'i
TMK(s) of Facility Location (must match Proposal information)	3-7-3-049:036
Point of Interconnection's Circuit or Substation Name (must match Proposal information)	Keāhole Switching Station
Project Description (in 200 words or less) (A description that includes information about the project that will enable the community to understand the impact that the Project might have on the community.)	<p>Hawai'i Electric Light's Self-Build Team proposes to install, own, and operate a 12 MW/12 MWh battery energy storage system ("BESS") at the Keāhole Site offered in the RFP. The energy storage system would be grid-tied via the Keāhole switching station. The proposed energy storage system is intended to satisfy the requirements for a "standalone contingency reserve energy storage" project, as defined in the August 2019 RFP and associated Energy Storage Power Purchase Agreement ("ESPPA").</p> <p>The proposed project will consist of 12 pad-mounted battery modules, six pad-mounted medium voltage transformers, a site controller system, medium voltage switchgear, a single GSU, a new bay in the Keāhole switchyard, and relaying and telecommunications equipment necessary to safely integrate the project into the existing grid. Based on the use cases considered in the RFP, no augmentation will be required to maintain the system's capacity over the 20-year life of the project.</p>

Project site map



The above is a rendering of the Keāhole Generating Station with the battery energy storage system in the foreground.

Site layout plan

Please reference the above rendering or see Figure 1.3 Conceptual Site Plan in the Keāhole Environmental Compliance Plan available on the project website: www.hawaiianelectric.com/selfbuildprojects under the Hawai'i Island projects.

Interconnection route

Please reference the above rendering. Note there will be a direct electrical interconnect from the BESS site into the existing Keāhole Substation at the 69-kV level along with a fiber cable communication link.

Environmental Compliance, Impacts and Permitting Plan

Overall land use and environmental permits and approvals strategy

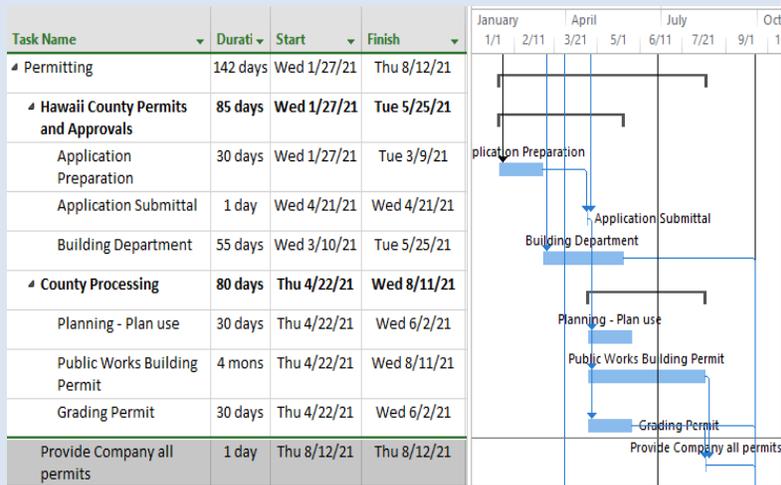
Hawaiian Electric's overall strategy for obtaining all required approvals in a timely and cost-efficient manner has involved:

- Siting the proposed facilities in an area with which it is familiar;
- Laying them out in a way that is intended to minimize the amount of ground disturbance that is required, taking advantage of existing infrastructure to the greatest extent practicable to minimize the need for new construction;
- Interfacing with permitting authorities at the earliest possible time to fully understand (and be able to address) their concerns;

- Collecting, reviewing, and extracting information from available reports and studies containing relevant information about the sites;
- Conducting reconnaissance-level site visits to confirm that conditions have not changed visibly since earlier studies and/or databases were prepared;
- Siting the proposed facilities in a way that recognizes site limitations and attempts to avoid unnecessary impacts; and
- Providing for site investigations to minimize the probability of encountering previously unknown adverse conditions late in the design/development process.

The conceptual site development plan shown above in the **Project Site Map** provides for the needs of the BESS system while minimizing effects on surrounding areas.

Gantt format schedule which identifies the sequencing of permit applications and approval activities and critical path. Schedule must be in MM/DD/YY format



City Zoning and Land Use Classification

Under Hawai'i County Zoning Code (Chapter 25, Hawai'i County Code), the land on which the proposed BESS facilities would be constructed has been zoned as General Industrial (MG).

Under the State Land Use law (Chapter 205, Hawai'i Revised Statutes), the land on which the proposed Keāhole BESS facilities would be constructed is in the Urban District.

Discretionary and non-discretionary Land use, environmental and construction permits and approvals

None

Listing of Permits and approvals

Administrative Permits Division, Hawai'i County Planning Department

* HCC 25-2-71(c)(1) Plan Approval

Building Division of the County of Hawai'i Department of Public Works

* HCC §5-19, Building Permit

Preliminary environmental assessment of the site (including any pre-existing environmental conditions)

Preliminary environmental site assessment indicates that there will be minimal impacts to air quality, biological resources (as the site is not designated a critical habitat), climactic condition, soil erosion, noise, and aesthetics/visual resource. The project site is on previously graded land that has an average slope of less than one percent, and will not require substantial alteration of significant landforms. Care must be taken when preparing the grading plan to ensure there is proper drainage.

The project site is located on prehistoric lava flows from the Hualalai volcano. The majority of the lava is pahoehoe, a type of dense basalt with a smooth ropy surface. Based on existing USGS studies and available information, there is low possibility the site would be affected by lava flow during the project life, and seismic risk is in the middle range as Hawai'i Island in general has a high incidence of earthquakes in the U.S.

The proposed battery packs would be designed to survive the shaking caused by an earthquake with a 2% probability of it occurring within a period of 50 years (see Figure 5.3 and 5.4 in the Environmental Compliance Plan for Keāhole BESS).

Because the amount of time that engineers estimate would be required to relocate the battery storage units that are used for the proposed project using equipment that is normally available on the Island of Hawai'i is less than the time that it would take lava to reach the site were Hualalai to erupt, the battery packs have a very low likelihood of being damaged. Much of the other electrical equipment that would be installed is less portable and would be destroyed in the unlikely even lava were to overrun the site.

For full details, please refer to Chapter 5: Preliminary Environmental Assessment in the Environmental Compliance Plan for Keāhole BESS.

Cultural Resource Impacts

**Proposer’s updated Community Outreach Plan must include a plan that (1) identifies any cultural, historic or natural resources that will be impacted by the project (2) describes the potential impacts on these resources and 3) identifies measures to mitigate such impacts.*

Given its history and longtime use for power generation, which involves controlling access to the site, the project area does not appear to be associated with traditional cultural practices for subsistence and religious purposes, and does not appear to provide access to other areas used for exercising those practices. However, if archaeological artifacts or human remains are discovered during ground disturbing activities, all work will stop and the appropriate protocols will be followed and proper authorities notified.

Please see full details in Chapter 6: Cultural Resource Impacts in the Environmental Compliance Plan for Keāhole BESS.

Community Outreach

While no communities would be directly affected by the proposed project as there are no existing developments, uses, or activities other than power generation and transmission occurring on the project site currently, Hawaiian Electric still intends to engage community stakeholders in the project and seek comment, questions, and feedback to share with the RFP team.

Communities that would be indirectly affected include:

- Those able to see the facility from their homes, places of business, or when travelling in the area. As mentioned, visual impacts would be nominal as the area is remote and does not appear in identified view planes.
- Travelling public on roads that would be utilized for delivering equipment to the site during construction. The impact will be temporary and not significant.
- Hawai’i Electric Light customers. Customers will benefit as the project may assist the company in achieving renewable energy goals and decommissioning of fossil fuel powered generating stations.

Although there are no communities that will be directly affected, Community Outreach and Engagement is still planned for this project as follows:

- Communication/smaller meetings to take place with Government Officials, Community leaders, and other specific Stakeholders local to the area to discuss details and

*Community Outreach Plan
(continues on next page)*

benefits of the project, as well as gather feedback from said individuals.

- Based on feedback from smaller engagements, a public meeting will be planned to engage those who may have concerns about the project. This meeting will also serve as a platform in which to discuss details and the benefits of the project. Notice of the meeting will be at least 30 days in advance to allow for those in attendance to submit any written comments/statements at said meeting should they want their statement submitted along with the company's application to the PUC. NOTE: Due to physical distancing measures for COVID-19 and state mandate to shelter in place, the in-person public meeting was instead planned as a virtual meeting in the interest of public health and safety.
- Subsequent to the PUC Submittal Date and prior to the date when the Parties' statements of position are to be filed in the docketed PUC proceeding for this Project, the public will be encouraged to, and given the opportunity to submit comments concerning the Project, a second time.

Throughout the duration of the project, a contact/group will be designated as the public contact to address any questions and/or concerns that may arise concerning the project.

Self-Build Team Community Outreach Contact:

Community Relations Specialist: Emil Osorio

Contact Information: Emil.Osorio@hawaiielectriclight.com

Other Consultants:

Planning Solutions has been contracted to assist with the Community Outreach efforts. They have extensive experience working with communities in Hawaii'i and the cultural sensitivities that must be taken into account. They have worked in focused consultations as well as larger public meetings.

All inquiries/concerns and developments that may come up during the construction process will be documented. All resolutions to said concerns or opposition that may come up will be documented. All events and project progress will be documented, and available in chronological order as to develop a timeline for both projects.

A clear record will also help the team to determine if any individual or stakeholder group has been missed in the process. Lastly, the outreach record may be needed to

demonstrate that efforts to genuinely engage the community were made and can show the details of those efforts.

Local community support or opposition

The Community Relations Specialist will continually assess the community’s temperature regarding the project and keep the project team informed. Any issues that appear to be escalating or have the potential to do so will be addressed as expediently as possible to avoid negative attention towards the proposed project. Monitoring social media for any misinformation will be key to preventing unnecessary conflict around the project.

March 1, 2020

- www.hawaiianelectric.com/selfbuildprojects launched
- keaholebess@hawaiianelectric.com email activated

March 27, 2020

- News release announcement on virtual meeting details
- Promotion of virtual meeting via Hawaiian Electric social media platforms
- PowerPoint presentation with notes added to website

April 3, 2020

Individual letters with details on both BESS projects, and the virtual meeting details sent out to Government Leaders, Community Leaders, and Project Area Stakeholders

April 12, 2020

Virtual meeting details promoted via a paid public notice in *West Hawai’i Today* and *Hawai’i Tribune-Herald* (Hawai’i Island newspaper publications)

April 15, 2020

Interactive virtual public meeting held on Nā Leo TV

Rebroadcasts of the virtual public meeting on Nā Leo TV ran daily between 4/15/20 – 4/22/20, and on 4/24, 4/25 & 4/29:

Nā Leo TV, Channel 53	
Friday, 4/17/2020	9:00 a.m
Sunday, 4/19/2020	1:00 p.m.
Tuesday, 4/21/2020	11:00 a.m.
Nā Leo TV, Channel 54	
Thursday, 4/16/2020	10:00 a.m.
Saturday, 4/18/2020	6:00 p.m.
Monday, 4/20/2020	8:00 a.m.
Wednesday, 4/22/2020	3:00 p.m

Detailed community outreach efforts (continues on next page)

Friday, 4/24/2020	7:00 p.m.
Saturday, 4/25/2020	3:30 p.m.
Wednesday, 4/29/2020	1:30 p.m.

Ongoing

- Monitor keaholebess@hawaiianelectric.com email
- Respond to community and government questions, concerns, feedback
- Update the website, including FAQs
- Public relations/publicity – respond to media inquiries and/or arrange interviews with SMEs, as needed
- Plan for any in-person meetings if necessary when restrictions for COVID-19 are lifted.

Community benefits

With regard to these projects, the entire island would benefit from the proposed Battery Energy Storage projects.

The Keāhole BESS is purposed to provide continuity in the islands power supply in the event that any of the company’s major generators should go offline. These battery systems would come online, and temporarily provide the power needed to avoid any outages while the company resolves the generation issue. In the event of this type of situation, the battery systems would reduce the chances of Hawai’i Island’s customers from having interruptions in service. These benefits will be worked into future messaging with regard to the company’s plans to improve the reliability and resilience of the service it provides. Previously completed analysis identified excessive customer trips, and risk of system failure without a BESS due to DER behavior during disturbances. There may also be positive impacts on Performance Incentive Measures (PIMs); and reduction in CAIDI and SAIFI.

The Community Benefits Plan will work to collect feedback from the community on how it may be impacted by the proposed project. Other valid needs in the community, that may or may not be in the same physical location as the proposed project, but could help to mitigate the impacts and gain public support for the project may be considered. An example includes educational information or materials about the project that can be distributed to local schools to enhance curriculum about achieving 100 percent renewable energy for Hawai’i Island.