

*Reimagining Our Future  
with Clean Energy*

**HAMAKUA  
ENERGY**



# Project Location





# Plantation Era Roots



- Operating since 2000
- Economic resiliency for the community
- Local workforce development



# Our Current Operations



PRIVATE AND CONFIDENTIAL



# Our Current Operations



- **Combined Cycle Plant (CCP)**
- **Prime movers:** Two powerful aeroderivative engines
- **Steam turbine** captures heat exhaust and produces electricity



# Project Overview

## **Project Name:**

Hāmākua Firm Renewable Energy Project

## **Capacity:**

CCP: 60 MW (2 CTs 44 MW Gross;  
1 ST 16.5 MW Gross)

**BESS:** 7.5 MWs (30 MWhrs, 4 hour duration)

## **Interconnection Substation Name:**

Haina Substation







# Project Overview (Upgrades)



Today...

Fuel mix  
1/3 Biofuel, 2/3 Naphtha

2 CTs (Combustion turbines)  
1 ST (Steam turbine)

1 Biodiesel fuel tank  
2 Naphtha tanks

End of 2030...

100% renewable fuels  
capability

New/ overhauled CTs  
Overhauled ST

1 refurbished Biodiesel  
2 upgraded renewable  
fuel capable tanks



# Project Overview (New)

New by end of 2030



7.5 MW/ 30 MWhr Battery  
Storage System



New Controls System

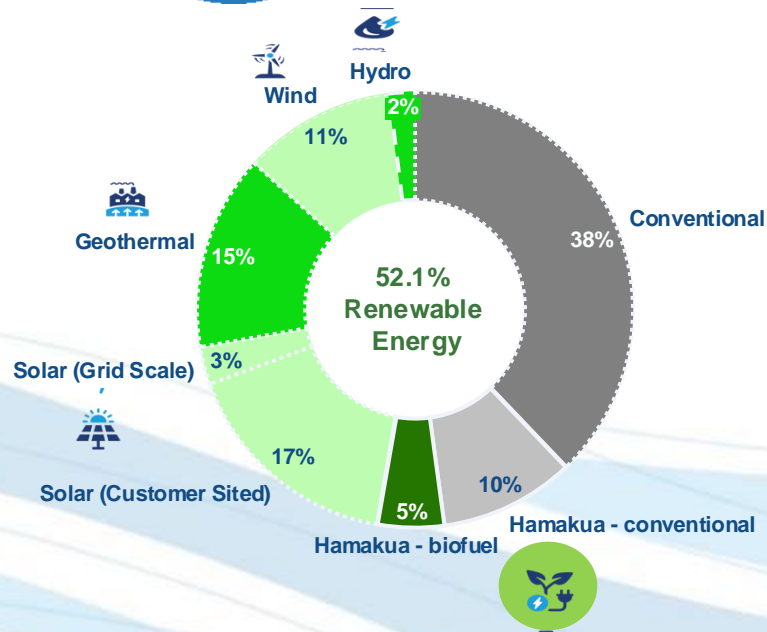


# Project Benefits

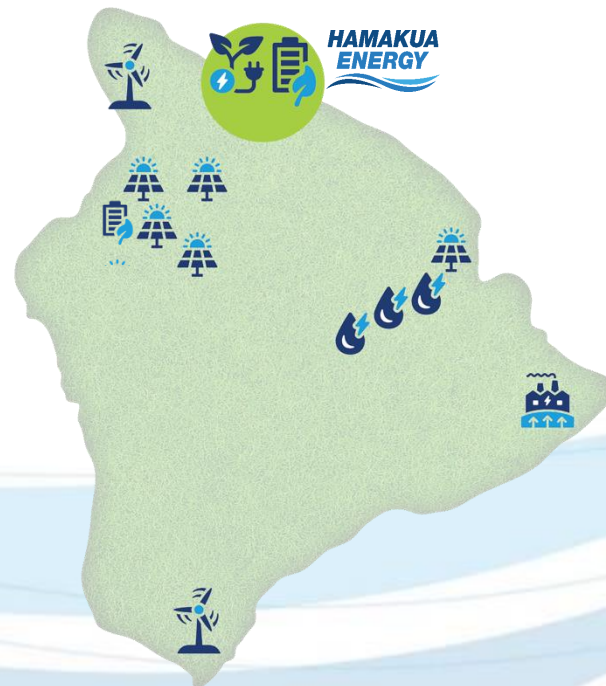




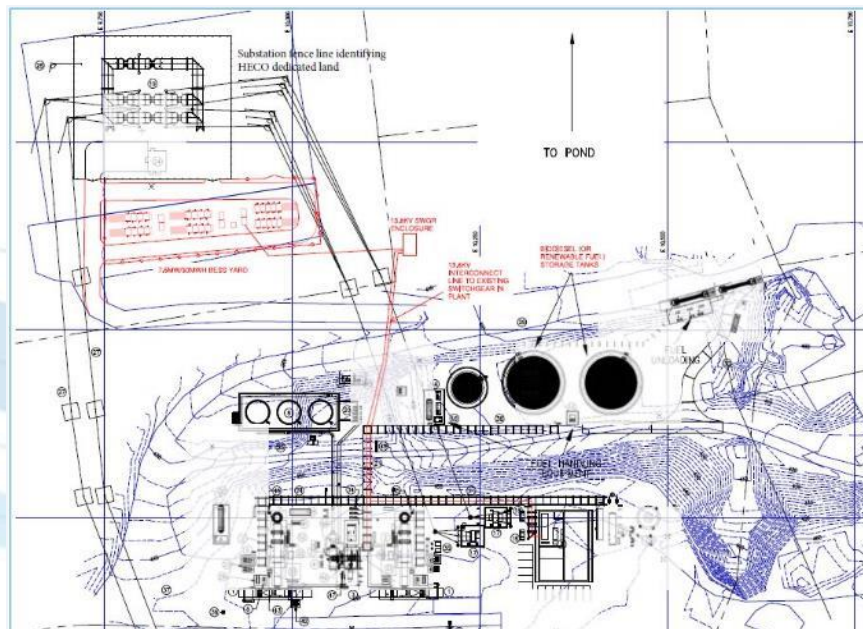
# Project Benefits



- Hamakua is a firm/ dispatchable resource
- ~1/3 Renewable fuels today
- 100% Renewable fuels at end of 2030



# Site Layout Plan



## CCP (Existing)

- Upgraded/ refurbished
- 100% renewable fuels
- Existing footprint

## BESS

- New 7.5 MW/ 30 MWhrs
- Interconnected to existing plant

## Control

- New controls for BESS/ CCP





# Interconnection Route



## Interconnection

Use existing Haina substation

## Route

No change

## Substation

HELCO reviewing potential upgrades



# Government Permits/ Environmental Impacts

Permits	Name of Permit	CCP	BESS	Comments
Air	Covered Source Permit	Existing	Not applicable	No emissions from BESS
Storm Water	Notice of General Coverage Permit	Existing	Not Applicable	
Haz Mat	RMP Registration	Existing	Not Applicable	Recycling for batteries at end of life
Noise	Permit	Existing	Updated	Keep current, include BESS at appropriate time
Pressure Vessel	Permit to Operate	Existing	Not Applicable	
Building	Construction	Existing plant	To be Filed	Minimal construction as BESS containerized design



# Cultural Impacts

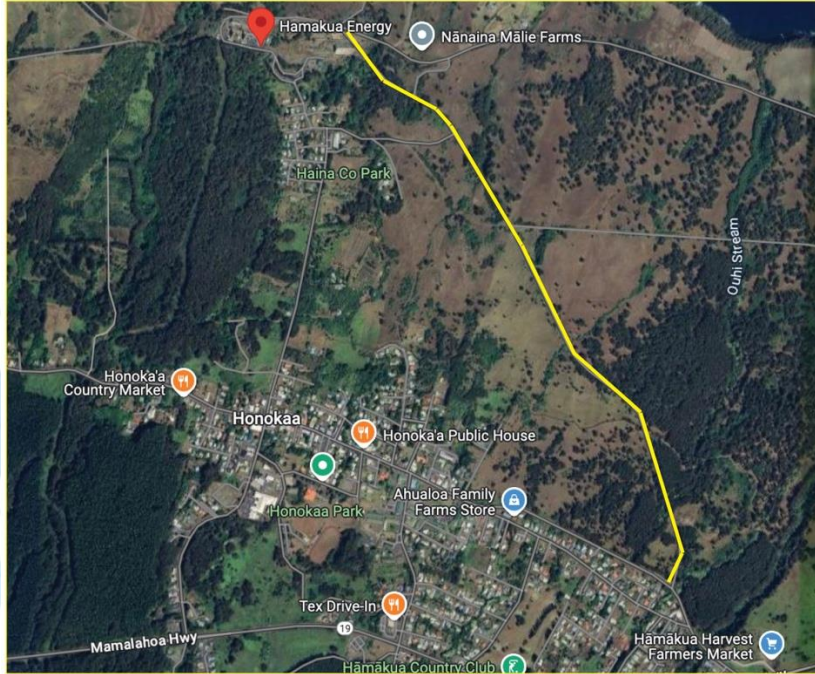
An archeological assessment conducted in July 2024 did not identify any cultural impacts

Site former Hamakua Sugar Company Haina Mill	Land on which plant built and operated since 2000, long been a host to industrial activity. These are brownfield <u>lands</u> , large portion having been paved as part of mill activities
Special Permit No 939 issued in 1996	No termination date on special permit, plant in continuous operation since 2000
TMK (3) 4-5-002-056 (Lot 2- A)	The proposed project has all requisite land use permits for the proposed term of the project
TMK (3) 4-5-002-057 (Lot 3- A)	The existing utilities electrical infrastructure are permissible uses for land





# Construction Related Impacts



- **Minimal construction:** project upgrades/ refurbishes existing equipment on same footprint
- **New BESS containerized solution:** minimizes on-site work
- **Service road use:** for any large equipment minimizes impact to Honoka'a community



# Local Labor & Prevailing Wages

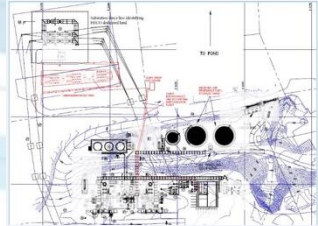


## Existing Operations:

- Union labor for non-management employees

## New Construction:

- Prevailing Wages





# Community Benefits

An Enduring Commitment to the Community



Our Past



Our Present

**\$180,000  
Per Year  
Beginning  
2031**

Our Future





# Questions?





# Contact Us



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# Comments



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[Community Outreach](#) | [FAQs & Contact](#)





# Mahalo!



# Project Benefits



GREEN ENERGY



SOLAR ENERGY



WIND POWER



ELECTRIC CAR



ECOLOGY



SOLAR PANEL



RENEWABLE  
ENERGY



GREEN  
ELECTRICITY



NUCLEAR  
POWER



ENERGY  
PRODUCTION



SAVE ENERGY



THINK GREEN



BIOMASS



BIOGAS



GREEN FACTORY



SAVE WATER



ECO FUEL



SUSTAINABLE



REDUCE CO<sub>2</sub>



BATTERY



RECYCLABLE



HYDROPOWER



ENVIRONMENT



GEOTHERMAL



# Project Benefits

**52.1%**  
**Renewable**  
**Energy**

16.7% Customer-sited solar

14.5% Geothermal

11.3% Wind

4.9% Biofuel

2.8% Grid-Scale Solar

2.0% Hydro



Biofuels



Battery Storage



Grid-Scale Solar



Wind



Hydro



Geothermal