

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





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

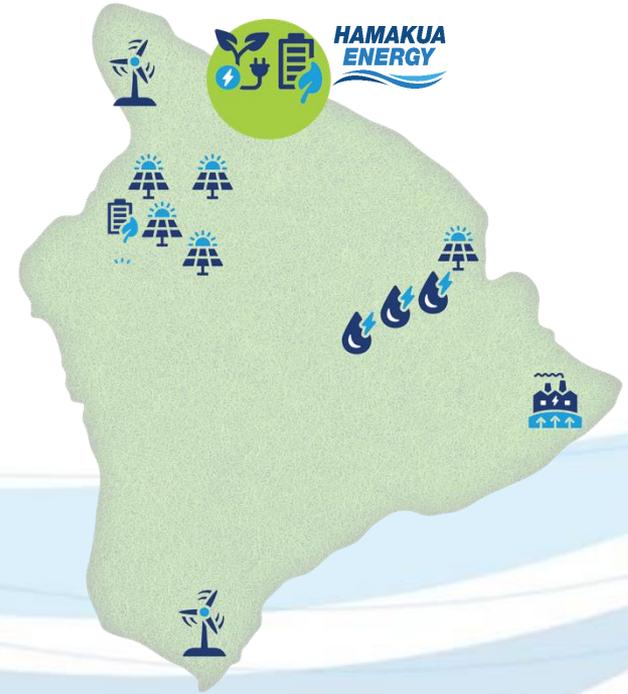
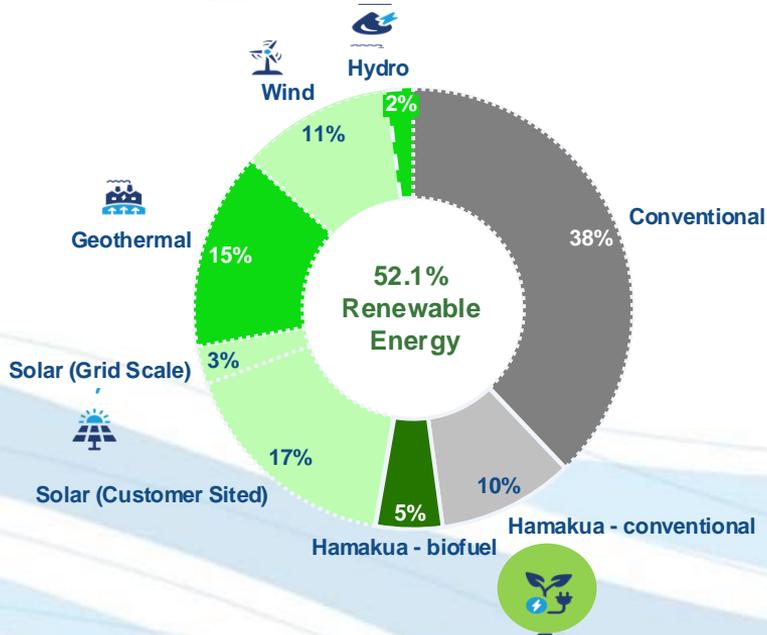


Project Benefits



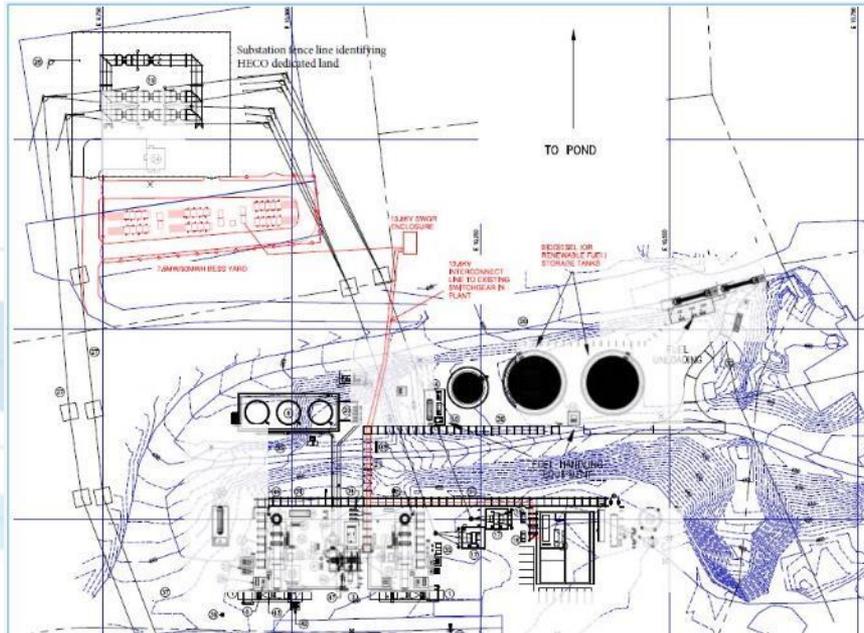


Project Benefits



- 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



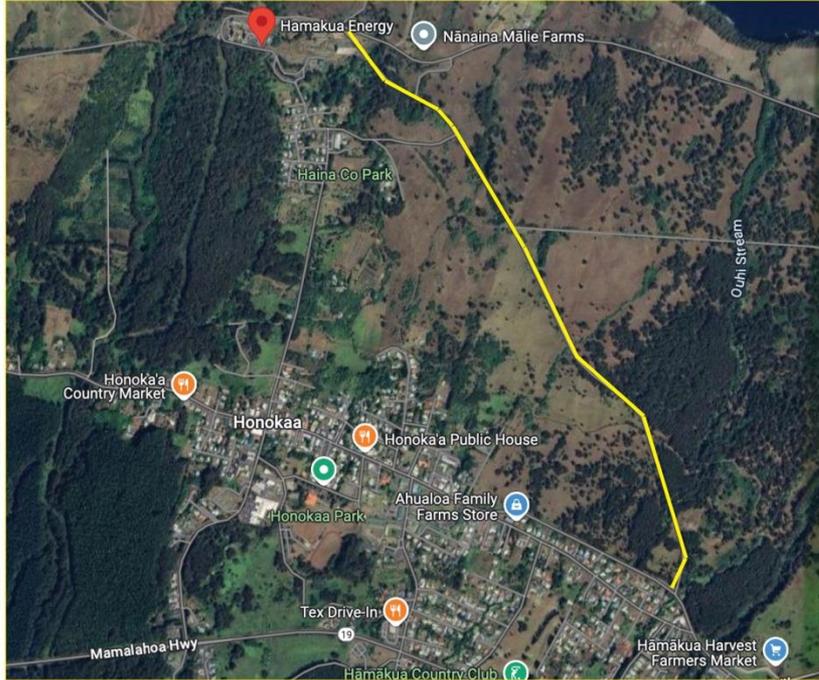
Cultural Impacts

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

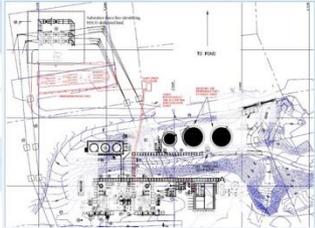


Existing Operations:

- 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](#)



Moving Forward the Right Way



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 CO2



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