

# FIRM vs. INTERMITTENT ENERGY

## RELIABILITY

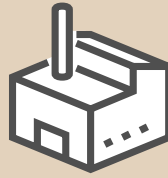


**Firm energy** provides always-on electricity to the grid.



Even with batteries, **intermittent facilities** like solar and other sometimes-on sources can only produce energy for part of the day.

## Which resource can retire fossil fuel facilities?



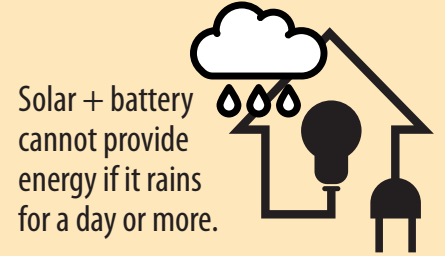
Only renewable firm energy can eliminate fossil fuel plants.



## Which resource reliably provides energy during rain events?



Firm energy always on, rain or shine.



Solar + battery cannot provide energy if it rains for a day or more.

### FIRM (Always on) GEOTHERMAL, BIOMASS, HYDRO

### INTERMITTENT SOLAR, WIND, BATTERIES

Can the project be carbon negative?

**YES**

A biomass project can plant more trees than it harvests, resulting in an overall reduction of greenhouse gas from the project.

**NO**

Wind and solar farms do not capture and sequester greenhouse gas.

Can the resource provide temporary construction jobs?

**YES**

Honua Ola provided multi-year construction jobs.

**NO**

Wind and solar farms provide jobs for one year.

Can the resource provide a substantial number of operations jobs?

**YES**

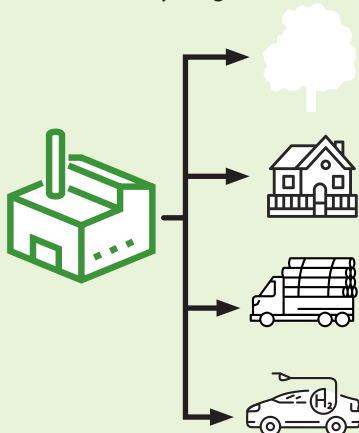
Honua Ola operations will provide more than 200 good-paying high skill jobs for the next 30 years.

**NO**

Solar farms usually employ 1 or 2 lower-wage workers to maintain them.

## BENEFITS UNIQUE TO HONUA OLA BIOENERGY

Honua Ola will create new industries, including forestry, manufacturing, transportation and hydrogen.



### EDUCATION PATHWAYS



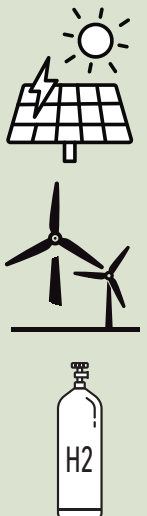
Honua Ola has committed to partner with K-16 schools for career technical education training and on-the-job training.

Honua Ola's forestry operations provide healthier pastures for livestock (silvopasture).



### Supports the expansion of renewable energy

Honua Ola's always-on energy provides grid stability and allows more solar and wind energy to be added to the grid, and unused energy can be used to produce hydrogen.



**HONUA OLA**  
BIOENERGY