



Oahu Power Plant



Honua Power, LLC
Renewable Energy



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Because landfill space is limited, and oil prices remain high, Hawaii has the highest waste disposal and energy costs in the country.



We have the means to change that.



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Honua Power

- Experts:

Honua Technologies



Honua Technologies
advanced waste solutions

Unitek Energy Technologies



- 12 MW Total New Generation Facility
- Two Phased Project
- Proven Gasification Technology
- 300+ Tons Per Day Landfill Waste Feedstock
- Meets the Definition of Renewable Energy Under HRS § 269-91





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Project Location: Hanua Street, Campbell Industrial Park





Gasification

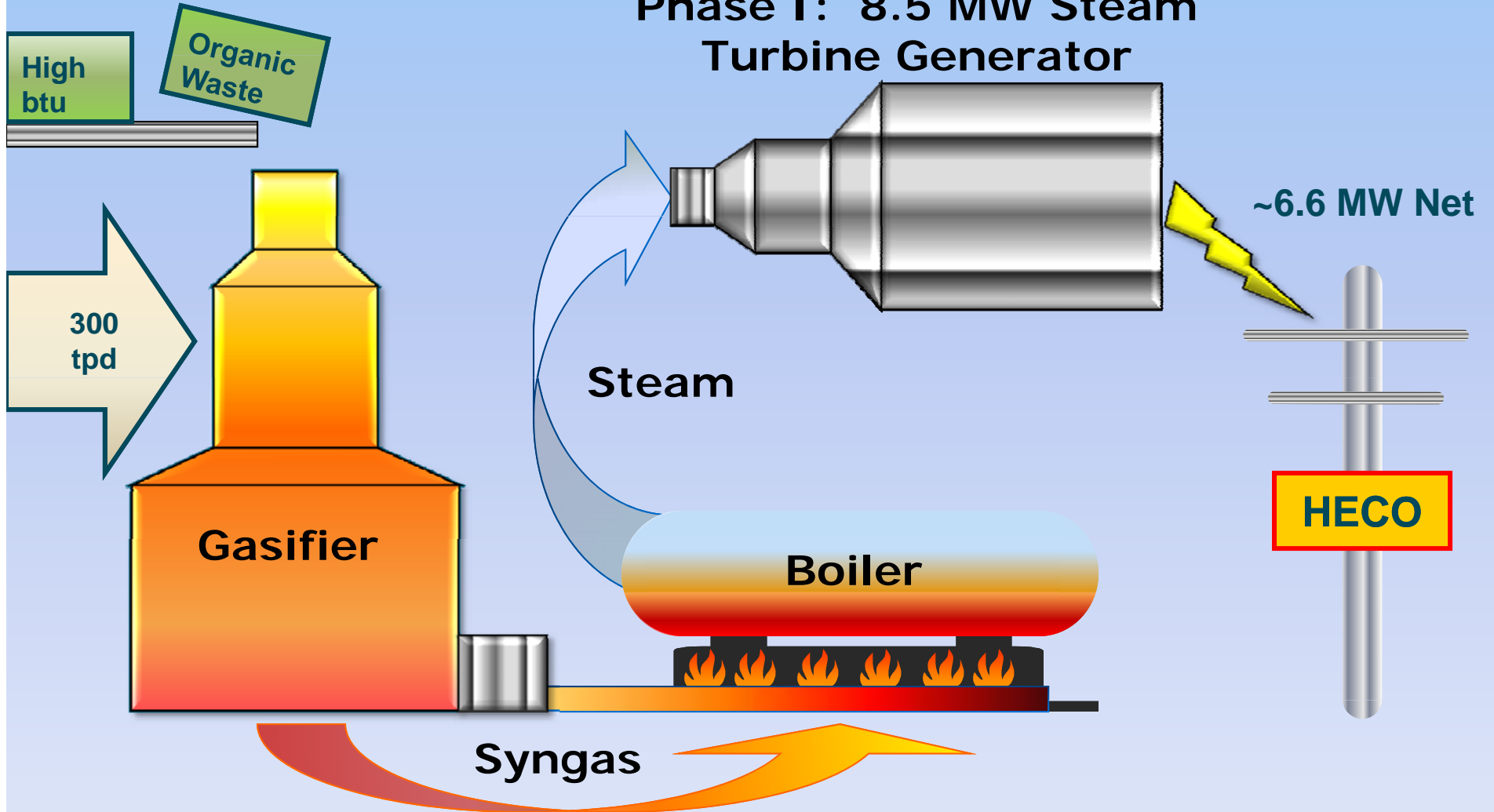
- Used since WWI. Inherently cleaner and more reliable than a conventional incinerator/waste boiler like H-Power.
- Resulting product is a bio-fuel, often called Syngas, made up of hydrocarbons liberated from the landfill waste by thermal conversion.
- Lower operating temperatures and controlled introduction of oxygen are the keys to improved reliability and allow for collection of Syngas bio-fuel like any other gas fuel.
- Syngas bio-fuel is cleaned, piped, and burned as a process fuel in a conventional gas fuel boiler.



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Feedstock → **Power Facility** → **Customer**

**Phase I: 8.5 MW Steam
Turbine Generator**





Example Feedstock Profile

- ~300 + Tons of waste destined for landfills and meeting strict specifications.
 - Auto Shredder Residue (ASR) . All organic materials from vehicles recycled by auto dismantling and materials recovery operations.
 - Construction and Demolition Debris (C&D waste). Lumber, Roofing Materials, Pallets.
 - Used Vehicle Tires.
 - Waste Plastic. Miscellaneous non-recyclable plastic.



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Typical Examples of Processed Biomass Feedstock: Processed offsite, these feedstocks are delivered to the facility ready to be used as fuel for the gasifier.





Benefits To Utility

- Facility will operate 24 hours a day, seven days a week, providing Utility dispatchable-like power at as-available rates with ability to schedule non-emergent downtime
- Unlike wind and solar, full capacity will be available and count towards renewable energy standards.
- Diversifies Utility's renewable energy mix
- Conventional steam turbine provides familiar generation technology and predictable performance



Benefits To Public

- 300+ tons of landfill waste materials diverted each day. MSW diverted from the landfill prolongs the life of the landfill.
- Low, fixed tipping fees under long-term feedstock supply agreements reduce upward pressure on landfill tipping fees charged back to consumers.
- The revenue will remain in the local economy.
- Creates 12-15 permanent jobs plus 2 years of development and construction jobs.
- Creates 400+ indirect jobs using Federal Job Multiplication Ratios
- Portfolio Effect due to energy source diversification causes consumers of electricity to benefit whether price of oil rises or falls.



What Hawaii Can Do to Help?

It's all about RISK, COST, and TIMING

- Streamline and Prioritize Construction Permitting
 - Air Permits
 - Solid Waste Permits
 - Building Permits
- Standardize Power Purchase for Each Technology
- Streamline PUC Approval of PPA and Amendments
- Meet Development Financing Needs with State Loan Guaranties, State Tax Credits and State Underwritten Construction Bonding

building a better future



ensuring a cleaner tomorrow



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