

Increasing Resilience: US Army Garrison Hawaii and Hawaiian Electric Company



B.L.U.F.

✓US Army Garrison Hawaii and Hawaiian Electric Company partnered to solve mutual resilience and renewable needs

USAG-HI shifted from being a consumer to prosumer











Step 1: What do we need?

Army

- Resilience
- Renewable Energy
- Reliable Power
- Money
- Expertise



Utility

- Resilience
- Renewable Energy
- Reliable Power
- Flexible Generation
- Permittable Land







✓ Executed through a 35 year + 10 year option lease

- First right to power in lieu of lease rent for 8 acres of land
- 7 days of onsite fuel at all times, storage capacity for 13 days.
- No change to rate or contract terms for energy delivery from HECO
- Proponents and teamwork at all levels HECO, USAG-HI and Office of Energy Initiatives

✓ Station is:

- Utility-owned, constructed and operated
- Resilient Six 8.3 MW multi-fuel marine diesels (4 plus 2)
- Renewable utilizes 3 MGALS of biofuel annually
- Secure located within a military installation, not on coastline
- Operates daily to serve all utility customers ratepayer asset
- Provides microgrid services to Schofield Barracks, Wheeler Army Airfield and Field Station Kunia (80% of Mission)





Stakeholders









Partnering to overcome challenges

Regulatory Constraints

- Competitive framework for new generation
- HECO Army MOA enabled PUC waiver

Mission Impact

- Exhaust Stack intruded into aircraft protection zone
- HECO Army coordination to reconfigure plant foot print and utilize 3 into one stack to meet clean air permitting requirement

Renewable Requirement

- Aggressive Army renewable goal
- Shift biofuel from less efficient CT plant to the more efficient diesels at SGS. Adjust renewable requirement to address CA concerns.

In Kind Benefit

- Land value fixed
- Valuation of energy security developed by Army and restoration time adjusted to lower infrastructure costs.



UP at USAG-HI

✓ Future with UP and HECO

- Redundant feeds
- Industry standard
- Initial System Deficiency Corrections (ISDCs)
- Continuity on and off the installation







End of Slides HOOAH!



