Increasing Resilience: US Army Garrison Hawaii and Hawaiian Electric Company
✓ 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)
50 MW Schofield Generating Station and Microgrid

Stakeholders

- HECO Energy Delivery
- HECO Customers
- PUC
- HECO Plans
- EPA
- Army Real Estate
- Army Energy Office
- HECO Power Supply
- Army Aviation
- Taxpayers
- Hawaii’s Governor’s office
- Hawaii DLNR
- FAA
- Hawaii National Guard
- HECO Board
- HECO Customers
- Town of Wai‘anae
- Fish & Wildlife
- Army Garrison Hawaii
- Environmental Groups
- Town of Wahiawa
- Local Businesses
### 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 footprint 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.
Future with UP and HECO

- Redundant feeds
- Industry standard
- Initial System Deficiency Corrections (ISDCs)
- Continuity on and off the installation
End of Slides
HOOAH!