



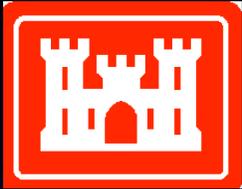
**US Army Corps of Engineers**  
**Honolulu District**

# **Hydroelectric Power Assessment Reconnaissance Study**

**Deborah Solis**  
**Project Manager, Civil and Public Works**  
**Branch**

**[Deborah.a.solis@usace.army.mil](mailto:Deborah.a.solis@usace.army.mil)**

**(808) 438-0701**



## *Reconnaissance Phase*

- Begins when the District receives the authority and the Federal Funds to conduct study (April 2009)
- Ends when the District Engineer signs the Feasibility cost-sharing agreement
- Time to Complete Phase (sign FCSA)      ■ 12-18 Months
- Cost to complete Phase      ■ \$287,000



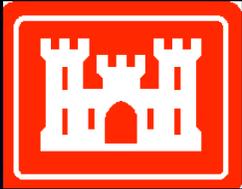
## *Reconnaissance Phase*

- Goal: *Provide a Hydroelectric Power Assessment of Hawaii*
  - Identify potential of the resource
  - Evaluate based on a matrix of factors
  - Is there a Corps interest?
  - Is there a non-Federal Sponsor?
- Reconnaissance Study is fully paid for with Federal funds



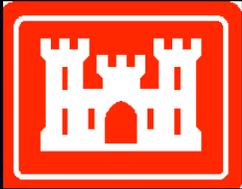
## *Purposes of Reconnaissance Study*

- Assess hydroelectric power potential in the State of Hawaii
- Provide decision makers with suitability and acceptability of each alternative source
  - Quantification of potential resource
  - GIS map presentation of location and quantify potential of resources
  - Identify limiting factors: environmental, economic or other that may inhibit use or development of the resource
- Prepare a Project Study Plan to proceed into Feasibility



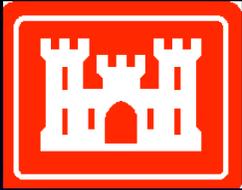
## *Reconnaissance Study Scope*

- Identify types, sources and location of hydroelectric power potential in Hawaii
  - Traditional hydro power
  - Ocean Energy
    - Wave Energy
    - Ocean Thermal Energy Conversion (OTEC)
- Currently there are no Corps owned or operated hydroelectric power projects in Hawaii
- Comprehensive Multi-purpose Studies
  - With the potential of spin-off reconnaissance studies



## *Section 905 (b) Analysis*

- Use Available Data
- Rely on Informed Professional Judgement (research will not be performed as part of this study)
- Limited Analysis to Evaluate the Justification for a Feasibility Study
- Determine Federal interest
- Preliminary financial analysis
- Schedule and Cost Estimate
- Assumptions and Exceptions
- Recommendations
- Potential issues affecting initiation of feasibility phase
- Project area map with location of resource potential
  - We will be using GIS



## *905(b) Analysis* *DOES NOT Include:*

- Detailed Costs
- Detailed Engineering & Design Studies
- Detailed Environmental Studies
- Detailed Real Estate
- Major Amounts of:
  - Report Preparation
  - Formal Coordination
  - Background studies
- **THESE WOULD BE ADDRESSED IN THE FEASIBILITY PHASE**