

ISSUES AND CONTROVERSIES IN CLEAN ENERGY

**Answering the Energy Mix Question
& Challenges in Implementing
the “Right Energy Mix”:
The Resources and Technologies**

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UPDATE ON RESOURCES

HEPF Legislative Briefing

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Clean Energy Part I

- Kick start – take it all
- Nearly done, could go well beyond 15% in 2013
- Not much left in pipeline
 - AKP and Hawaii Bioenergy
 - Lanai 200 MW and Wind Farm
 - OTEC International
- Not enough to make 2020 goals



Clean Energy Part II

- Need to initiate up to four bids
 - Geothermal on Big Island
 - “Molokai” 200
 - Firm on Maui
 - Firm on Oahu
- More complex integration issues
- Cost will be critical



Game Changers

- Inter-island cabling
- Environmental compliance
- LNG
- Ocean energy
- Competitive bidding changes



Mahalo