A New Day: Working Together Towards Energy Independence

Hawaii State Energy Office
Department of Business, Economic Development & Tourism

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Materials Imported to Hawaii – Million Tons, Annually

- Paper: 110,000 tons
- Chemicals: 145,000 tons (fertilizers, pesticides, chemical reagents)
- Lumber: 350,000 tons
- Construction Minerals: 540,000 tons (granite, sand)
- Food and Agricultural Products: 857,000 tons (cereals, dairy, meat, vegetables, processed foods, flowers)
- Metals: 2.5m tons (beams, pipes, cable, wire, sheet metal)
- Finished Products: 2.7m tons (manufactured equipment, commercial products, appliances, housewares, consumables)
- Fossil Fuels: 9.5m tons (coal, crude oil, refined products)

Diagram source: Eckelman & Chertow 2009
Hawaii Has Renewable Energy Resources

- Solar
- Wind
- Ocean Energy
- Biomass
- Geothermal

Map showing locations: Kauai, Oahu, Molokai, Maui, Lanai, Kaho'olawe, Ni'ihau.
Electricity

- Energy Efficiency First
- Customer-Sited Generation
- Combined Heat and Power
- Development of Renewable Energy Resources
  - Solar
  - Wind
  - Biomass / Biofuels
  - Geothermal
  - Hydropower
  - Ocean (OTEC / Wave)
- Energy Storage
- Smart Grids
- Changes in Electricity Regulation
  - Delinking – from oil price
  - Decoupling revenues & sales

Transportation

- Land Use – Reduce Need to Travel
- Transportation System Design
- More Efficient Vehicles
- Vehicles Capable of Using Non-petroleum Energy Sources
- Alternative Fuels
  - Biofuels
    - Ethanol
    - Biodiesel, Renewable Diesel
    - Biojet
  - Electricity from renewable sources, off-peak
  - Hydrogen
- Fueling / Charging Equipment
Under Development: Permitting Guidebook & Wizard

- Permit Plan created online via answers to series of project/site questions
  - Location
  - Technology/facility
  - Surrounding environment
- Identifies
  - Required permits
  - Relevant agencies
  - Permitting sequence and prerequisites
  - Estimated permit issuance timelines
- Visit us upstairs (4th floor) to hear more
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