

# Kaua'i County Energy Sustainability Plan



# Early Luminaries

# Kaua'i County Energy Sustainability Plan

## Early Luminaries

### ***Mayor's Office***

Bernard Carvalho  
Beth Tokioka

### ***Kaua'i County Office of Economic Development***

George Costa  
Glenn Sato

### ***Energy Plan Advisory Committee***

Walt Barnes  
*Jay Furfaro*  
Rohit Mehta  
Ed Nakaya  
*JoAnn Yukimura*

### ***Kaua'i Island Utility Cooperative***

Randy Hee

### ***Kaua'i Economic Development Board***

Mattie Yoshioka

### ***Kauai County Council***

William "Kaipo" Asing, Chair  
Tim Bynum  
Dickie Chang  
Jay Furfaro  
Daryl Kaneshiro  
Lani Kawahara  
Derek Kawakami

# Finding Common Ground

# Kaua'i County Energy Sustainability Plan

## Stakeholders

- Around-the-room (*brief*) introductions
- Diverse interests
- Complete consensus not likely
- Most people will have to change behavior, move out of comfort zone
- Important to find common ground



## Proposed “Common Ground” Principles

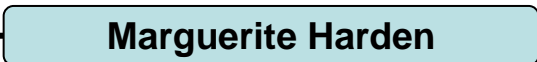
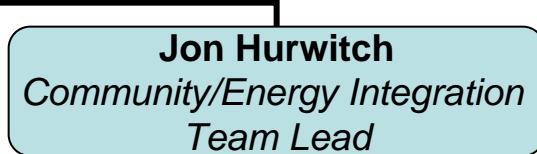
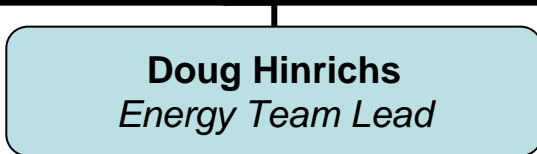
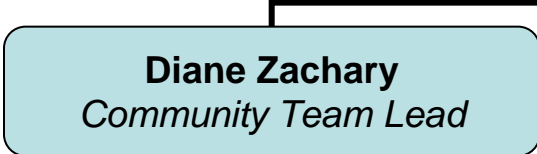
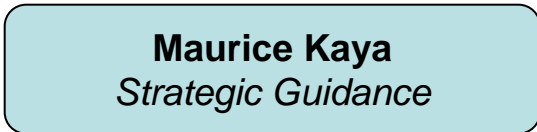
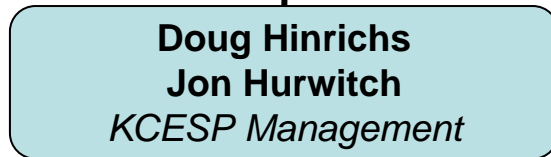
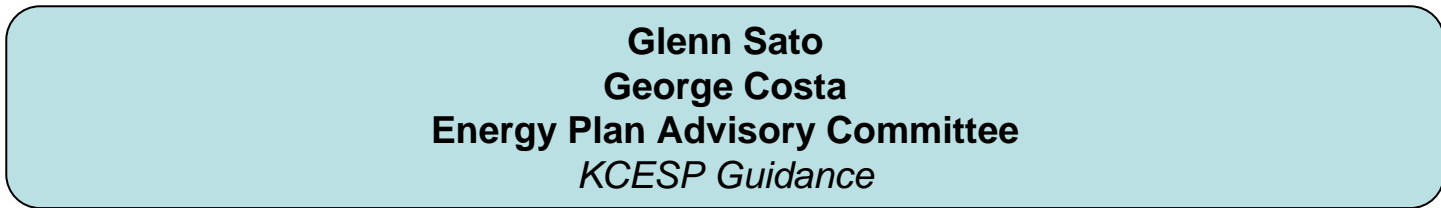
- Respect
  - Culture
  - Environment
  - People
  - Life
- Openness
- Inclusiveness
- Sustainability
  - Earth
  - Economy
  - Current and future inhabitants



## **The Team**

# Kaua'i County Energy Sustainability Plan

## Team Organizational Chart



# Kaua'i County Energy Sustainability Plan

## Key Staff

### *Kaua`i Planning & Action Alliance*

- Nonprofit known for driving consensus on issues vital to Kaua`i as neutral convener and facilitator
- Team Role
  - Community Team Lead
  - Interactive website host
- Team Players
  - Diane Zachary
  - Rayne Regush



# Kaua'i County Energy Sustainability Plan

## Key Staff

### *Maurice Kaya LLC*

- Ever heard of him?
- Team Role
  - Strategic guidance
  - Institutional knowledge
  - Relationships
- Team Players
  - Maurice Kaya



# Kaua'i County Energy Sustainability Plan

## Key Staff

### *Doug Hinrichs*

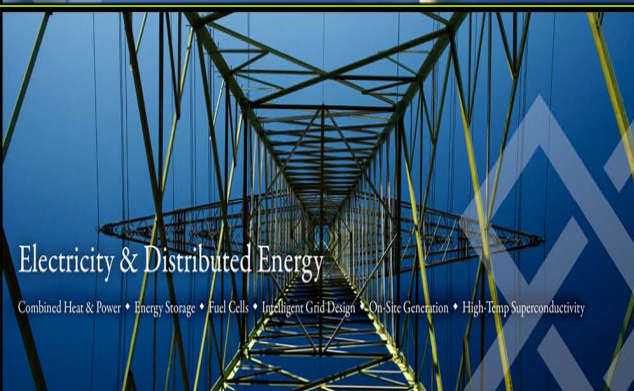
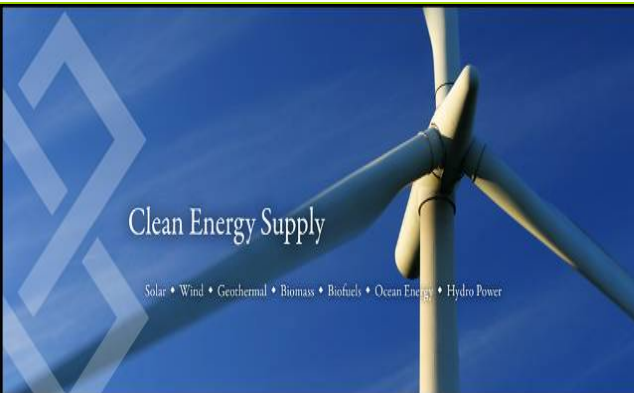
- Farm boy / environmentalist / clean energy geek
  - Rebuild America
  - Distributed Energy
  - Solar
  - Wind
  - Project/market development
  - HCEI
- Team Role
  - Program Management
  - Energy Team Lead



# Kaua'i County Energy Sustainability Plan

## SENTECH Hawai'i

***Vision: To accelerate the nation's use of clean, responsible, and secure energy.***



# Kaua'i County Energy Sustainability Plan

## **SENTECH Hawai`i**

- 120+ clean energy experts; offices in HI, MD, TN, NM
  - Engineers
  - Market analysts
  - Business model analysts
  - Policy analysts
  - Project developers
  - Financing and investment
- Team Roles
  - Energy analysis
  - Community outreach & feedback
  - Community/energy integration
  - Drafting of concrete energy sustainability plan

# Stepping Stones

## Energy Sustainability Plan Stepping Stones

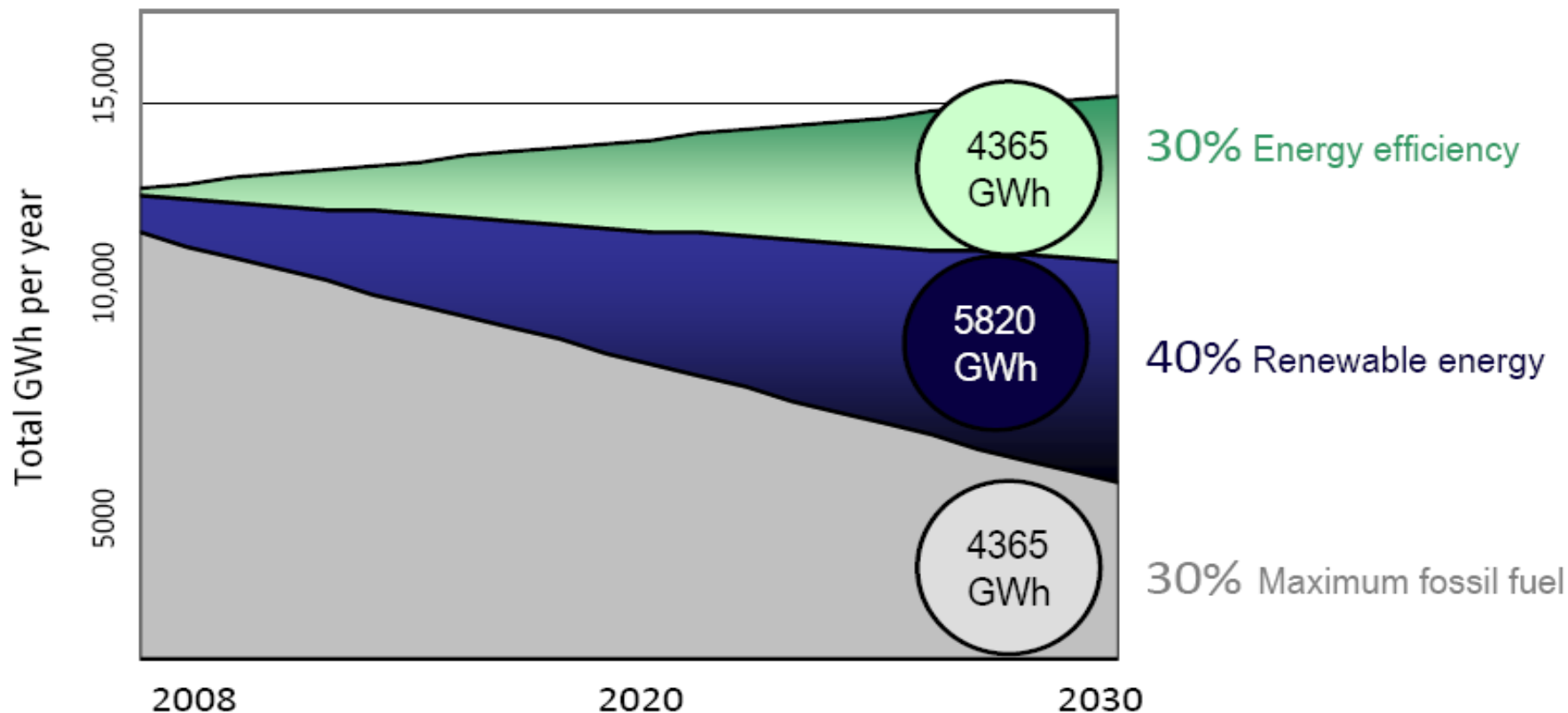
### *Stepping Stones*

- Big Island's Energy Plan
- KIUC's 2008 Integrated Resource Plan
- Europe
  - Denmark's "prior approval" for wind project siting
  - Accelerated renewable installation from Feed-in Tariffs in Germany, Spain, Portugal
  - 58% of households in Sydthy (Denmark) own shares in cooperatively-owned wind turbines
- HCEI
  - Lessons learned can transfer to Kaua`i
  - Kaua`i lessons learned can transfer to Hawai`i

# Kaua'i County Energy Sustainability Plan

We now know what it will take to reach  
**70% clean energy in 2030**

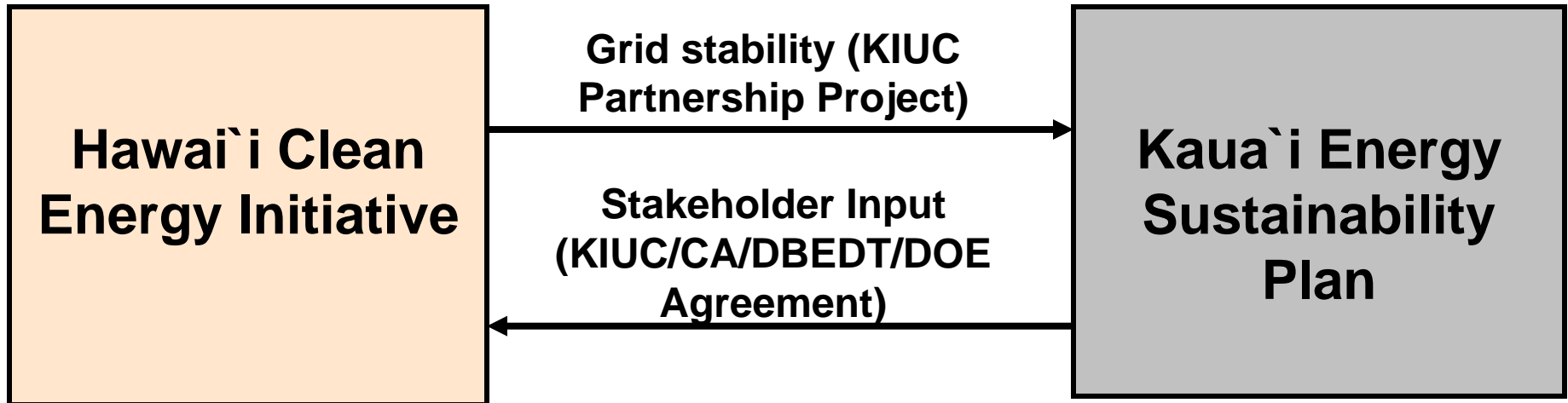
Hawaii Electricity Portfolio



Note: This just reflects 2030 electricity targets; still need interim targets and transportation targets

# Kaua'i County Energy Sustainability Plan

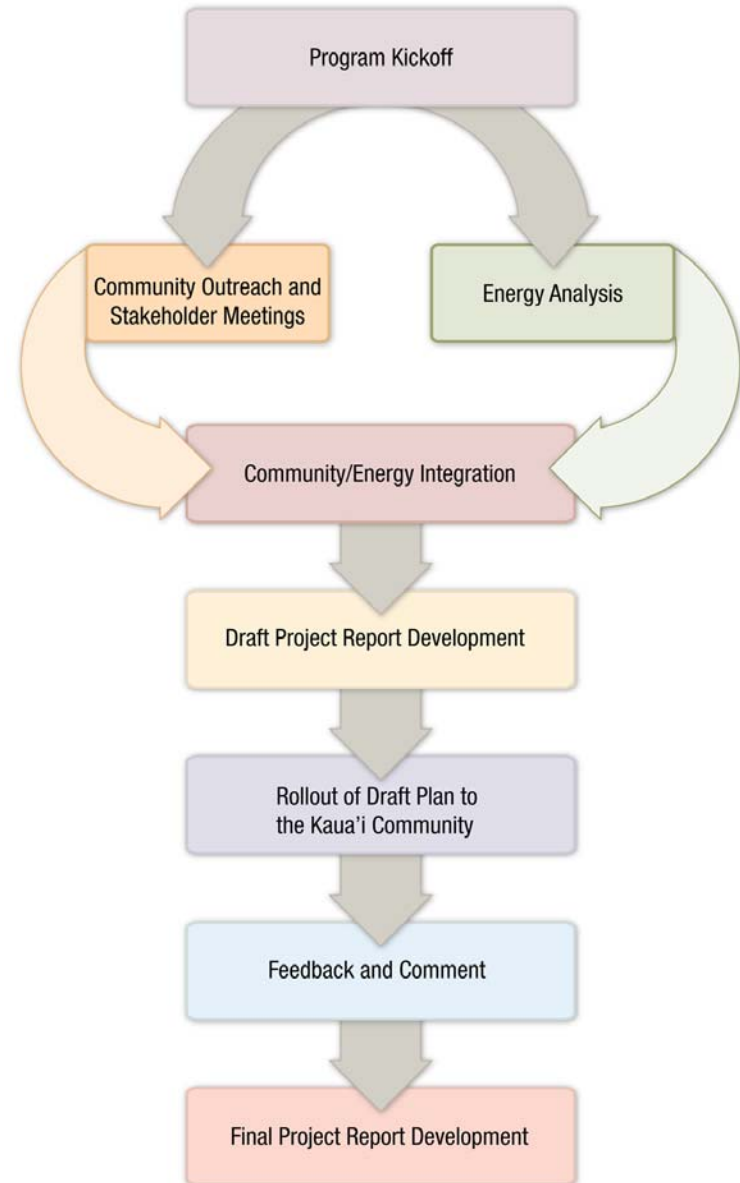
## HCEI/Kaua'i Connections



# Approach & Timeline

# Kaua'i County Energy Sustainability Plan

## Approach



# Kaua'i County Energy Sustainability Plan

## Task 1: Community Outreach & Feedback

- 5 Community/10 Stakeholder Meetings\*
  - SENTECH Hawai'i Team will reach out to community, e.g.:
    - Review of previous plans
    - Available renewable resources and technologies
    - Prioritized goals (reduce oil dependence, jobs, enviro, etc.)
    - Technical, economic, business practice, regulatory barriers
    - Role of regulatory, policy, legislative environment
    - Job and labor implications
  - Team will solicit feedback from community and stakeholders
- Electronic polling (email, website)
- Interactive website to allow review of posted documents, latest findings, outreach on upcoming meetings, etc.

*\*Including Renewable Energy Meeting (KEDB Renewable Energy Committee)*

# Kaua'i County Energy Sustainability Plan

## **5 Community (Public) Meetings**

- By geographic region
- Focus on cultural, youth, seniors, neighborhood associations, others

## **10 Stakeholder Meetings**

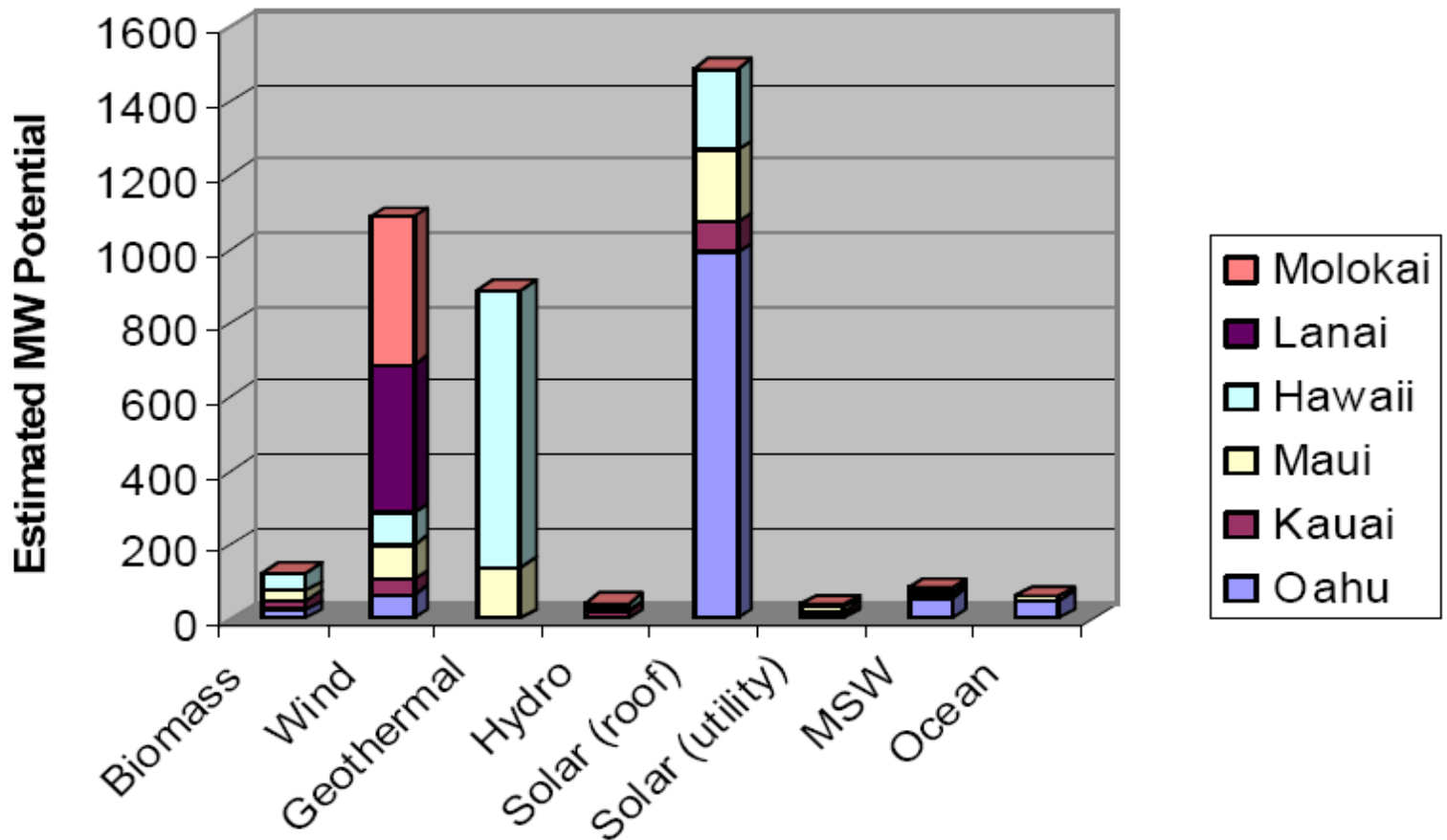
- Renewable energy (KEDB)
- Demand side efficiency
- Investment and risk mitigation
- Grid stability – stationary and transportation (with KIUC)
- Biofuels and transportation
- Government (DOD, state, local)
- KIUC Board of Directors
- Large landowners
- Environmental
- Business and economic development
- Agriculture

## Task 2: Comprehensive Energy Analysis

- KIUC electricity generation and T&D system
  - AMI, demand response, load management, etc.
  - KIUC 2008 Integrated Resource Plan
- Ground transportation data
- Projected energy and fuel demand
- Energy efficiency opportunities
- Renewable energy resources and technologies
  - Solar electric/thermal, wind, hydro, MSW, WTE, bioenergy, etc.
  - Flex fuel vehicles, PHEVs, etc.
- Firming up renewables with storage, fossil
- Sustainable use of resources
  - Energy, water, wastes, etc.

# Kaua'i County Energy Sustainability Plan

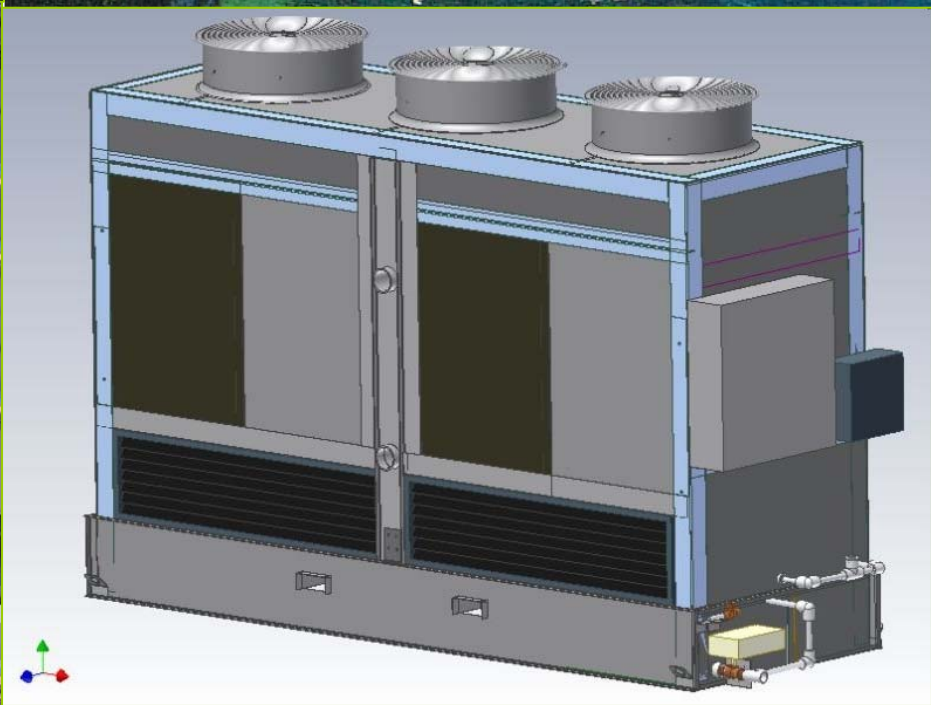
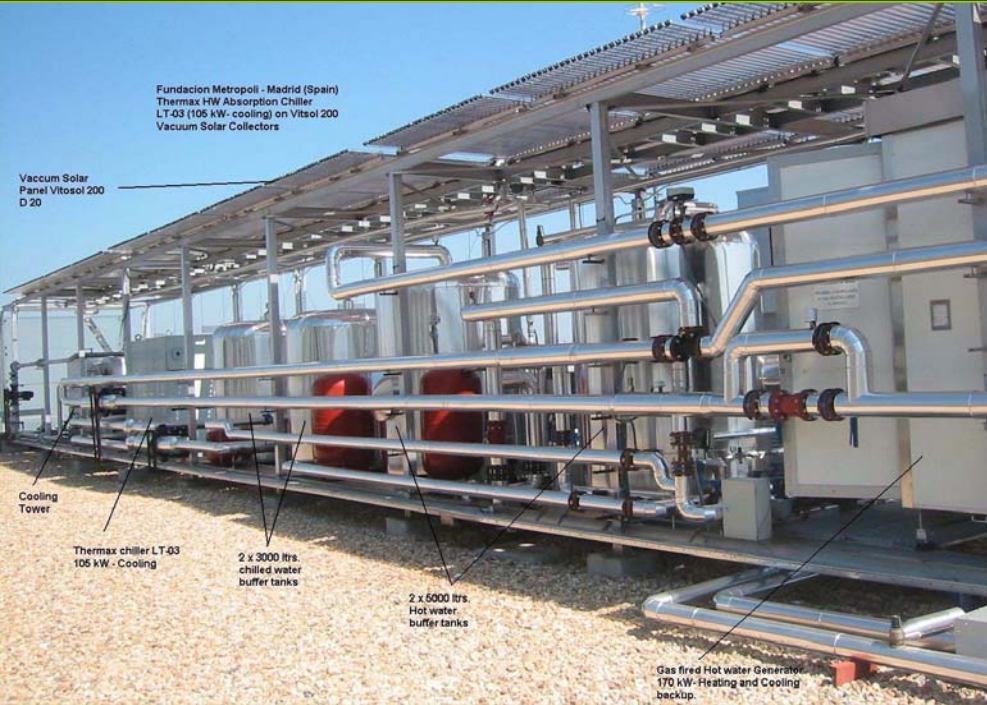
**Hawaii has a wealth of renewables:  
estimated @ 150% of current installed capacity**



<http://hawaii.gov/dbedt/info/energy/>



# Kaua'i County Energy Sustainability Plan



# Kaua'i County Energy Sustainability Plan

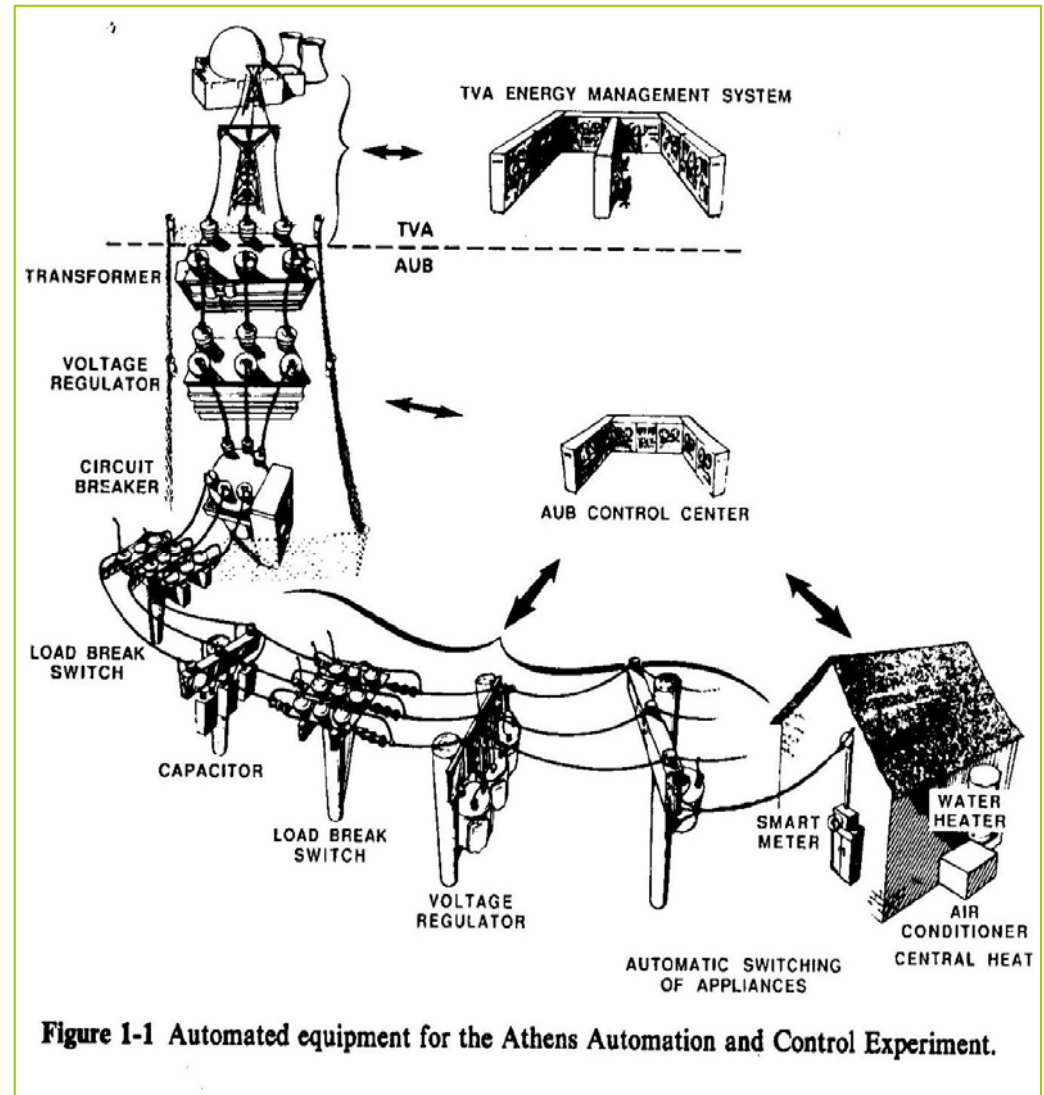
- Smart Grid

- Demonstration

- Athens (TN)  
Automation and Control  
Experiment
- Portland (OR)  
Automated Demand  
Response Programs

- Smart Grid Pilot  
Programs

- Excel Energy (Boulder)
- Duke Energy
- Austin Energy



## **Task 3: Community/Energy Integration**

- Analysis and recommendations of policies and strategies to achieve Kaua'i goals
  - Policies and regulations
  - Technologies
  - Education & outreach
  - Behavioral changes
- Identification of implementation team
- Step-by-step roadmap
- Identification of risks, roadblocks to goals achievement

# Kaua'i County Energy Sustainability Plan

## **Task 4: Draft Project Report Development**

- Draft project report will be developed
  - Connect Vision (*Vision for Kaua`i 2000*)/Goals/Strategies/Tasks
  - Content, charts, etc.
  - Milestones
  - Success metrics
- Report presented to Kaua`i County Council for preliminary feedback

## **Task 5: Rollout of Draft Project Report**

- Presented at well-advertised community meeting
- Posted on website
- Presented over “Webinar”
- Broadcast over Ho`ike

# Kaua'i County Energy Sustainability Plan

## **Task 6: Feedback & Comment**

- Public outreach and feedback
- Stakeholder outreach and feedback

## **Task 7: Final Project Report Development**

- Feedback incorporated into final report
- Appendices included

---

**Implementation by Responsible Parties**

# Kaua'i County Energy Sustainability Plan

## Timeline

### KAUA'I COUNTY ENERGY SUSTAINABILITY PLAN (KCESP) TIMELINE



# Lighting the Way

# Kaua'i County Energy Sustainability Plan

## Q & A

### For More Information

#### **Community-Related**

Diane Zachary

[dzachary@kauainetwork.org](mailto:dzachary@kauainetwork.org)

808-632-2005

#### **Energy-Related**

Doug Hinrichs

[dhinrichs@sentech.org](mailto:dhinrichs@sentech.org)

301-219-7647

[www.kauaienergysustainabilityplan.com](http://www.kauaienergysustainabilityplan.com)