



HAWAII ENERGY POLICY FORUM

“State of Energy”  
The Energy Policy Forum 2011

# Global Leader in Clean Energy Are We? Can We Be?

Darren Kimura, Sopogy

**ARE WE?**

The Senate  
The Ninth Legislature  
of the  
State of Hawaii  
HONOLULU, HAWAII  
November 25, 1977



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FOREWORD

We are facing a major transition in our way of life, energy wise. Energy conservation, sound energy management, and shifting to new and different fuels or energy sources are realities before us.

Although Hawaii is blessed with many significant alternative energy sources, presently over 96 per cent of our energy is derived from imported oil, some \$500,000,000 worth a year. Our task is to tap these local resources that are here in Hawaii to help meet our energy needs in the future.

We have sufficient lead time to develop these energy resources, but only if we move forward with a significant program now. While we need every bit of assistance possible from the Federal government, we in Hawaii have much we can and must do on our own. As we implement this new direction in securing our energy supply, new industry, new jobs and a major boost in economic development will occur. So our goal to become energy self-sufficient has many positive benefits to everyone in Hawaii.

This is the reason why I am proposing this comprehensive energy program to the 1978 Legislature. My Senate Energy/ Natural Resources Committee has been working for several months on this effort, assisted by some ten special task forces with over 100 knowledgeable people in various areas of energy.

I wish to thank all those who have assisted in this effort from the private as well as the public and university communities, including some students from the University of Hawaii class on Politics, Technology and Society. I would also like to extend my sincere gratitude to the Center for Engineering Research who graciously printed this Report and the Legislative Reference Bureau who edited and typed it. Finally, a special thanks to my staff assistant, Dick Neill, who has coordinated this process and the Legislative Reference Bureau who had primary responsibility for preparing the many pieces of legislation.

Sincerely,

Handwritten signature of T. C. Yim.  
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Senator T. C. Yim

- 1977 Legislature
- 96% energy from imported oil
- \$500 million import oil

- 2011 Legislature
- 90% energy from imported oil
- \$6 billion import oil

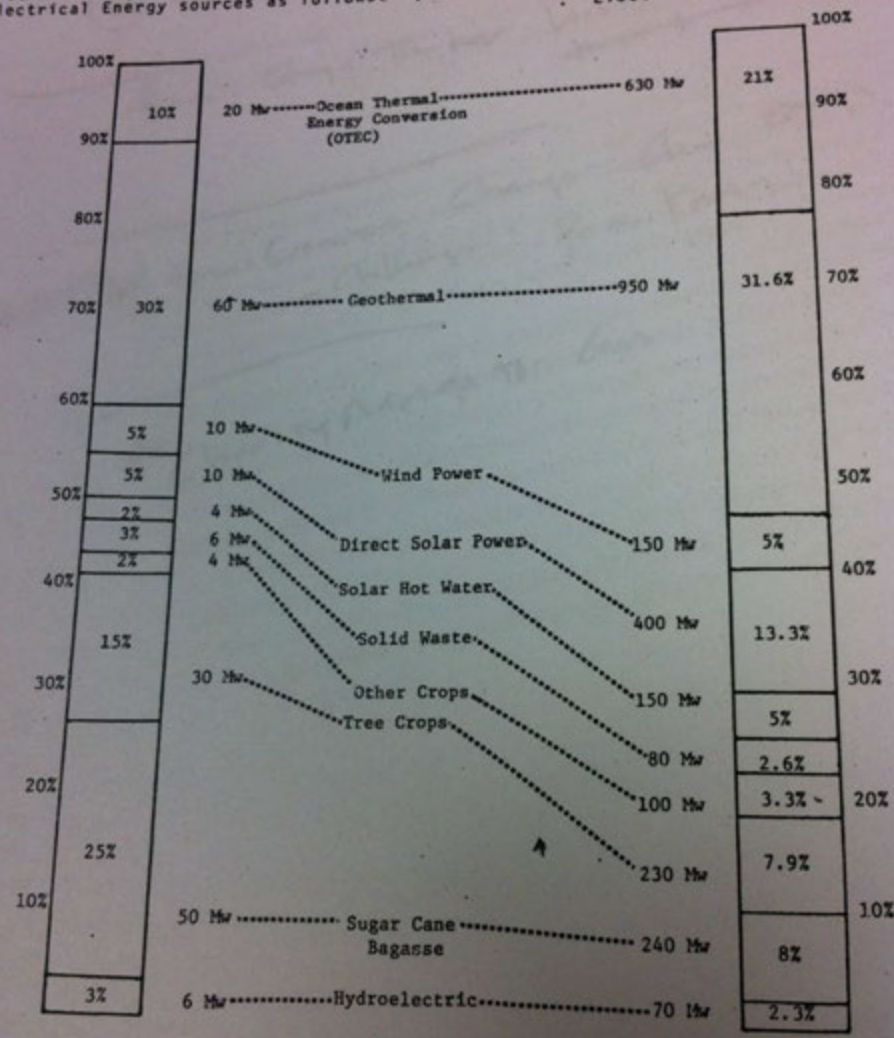
A MODEL FOR ENERGY SELF-SUFFICIENCY FOR HAWAII  
 BY 2010, EXCEPT FOR AIRLINE FUEL\* *Senew Jim*

Big Island - Self-Sufficiency by 1990

Electrical Energy - 200 Mw  
 Transportation - 30 million gal. corn-ethanol;  
 10 million gal. molasses-ethanol  
 Electrical Energy sources as follows:

Statewide - Self-Sufficiency by 2010

Electrical Energy - 3,000 Mw  
 Transportation - 100 million gal. ethanol;  
 30 million gal. molasses-ethanol  
 Electrical Energy sources as follows:



Goals include the following:

- 100% solar hot water heating by 2010
- 100% ethanol or battery powered cars, trucks, and busses on all islands
- 100% utilization of available land suited for biomass energy crops
- Optional full development of alternative energy sources indicated above

- 1990
  - Big Island 100% self sufficient
- 2010
  - State 100% self sufficient
- Technologies
  - OTEC
  - Geothermal
  - Wind
  - Solar
  - Agriculture Crops



# Can We Be?

**State moves ahead with undersea interisland cable for energy**

**Hawaiian Electric, Castle & Cooke agree pricing terms of Hawaii wind project PPA** ☆

**Electric Cars Could Be in the Fast Lane for Hawaii**

**Hawaiian Electric backs Ka'u biofuels project**

**Keahole Solar Power, DHHL kick off Oahu project**

**Kauai electric utility, Free Flow Power Corp. will explore hydroelectric projects**

[Hawaii Hydrogen Initiative Is Perfect Science Experiment](#)

**Ocean Energy on the Verge of Rapid Growth?**

**Geothermal could power Hawaii Island, working group finds**

**Undersea Cable**

**Wind**

**Biofuel**

**Electric Vehicles**

**Solar Power**

**Hydro**

**Hydrogen**

**Wave**

**Geothermal**

**Algae**

# CAN WE BE?

