



University of Hawai'i at Mānoa

## **Hawai'i Natural Energy Institute**

School of Ocean & Earth Science & Technology

# **Electricity System Technologies: A Portfolio Approach for Addressing Global Warming and Petroleum Dependency**

**(Revised Presentation)**

Hawaii is beset by the twin problems of an excessive reliance on petroleum and the potential consequences of global warming, particularly in terms of sea-level rise. This discussion will focus on the various technologies that can be employed to reduce carbon emissions and also reliance on petroleum in the bargain. First and foremost will be a discussion of end-use energy-efficient technologies, followed by a discussion of renewable energy systems (and their associated problems), nuclear energy (yes, nuclear), and coal-fired systems. The discussion will close with a need for system integration by employing energy storage systems and advanced telecommunications and other exogenous (to energy systems) technologies.

**Terry Surles**

Researcher

Hawaii Natural Energy Institute

**Tuesday, October 9, 2007**

**3:15 – 4:15 PM**

**POST 723**

**Sponsored by the  
Hawai'i Natural Energy Institute**