



COLLEGE OF SOCIAL SCIENCES  
**HAWAII ENERGY POLICY FORUM**  
UNIVERSITY OF HAWAI'I AT MĀNOA

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## **ENERGY EFFICIENCY WORKING GROUP**

**Update on  
Projects and Initiatives  
2007-2008**

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# ENERGY EFFICIENCY WORKING GROUP

Working group members continue to coordinate efforts with DBEDT

- Disseminate information among State agencies
- Particular focus on UH energy reduction
- Advance energy conservation, energy efficiency and renewable energy efforts in public and private sectors

# UH Commitment and Initiatives

## Chancellor's Energy Conservation Goals

- Reduce energy consumption 30% by 2012
- Reduce energy consumption 50% by 2015
- Have 25% of campus energy supplied by renewable resources by 2020

# UH Commitment and Initiatives

## Creating the Infrastructure for Change

- Hired new UHM Assistant Vice Chancellor for Facilities
- New Energy Manager to be hired by Feb. 1
- Establishing new procedures for Commissioning, Retrocommissioning, high performance laboratories (coordination with DBEDT)
- Exploring innovative financing options

# UH Commitment and Initiatives

## HECO/UHM Partnership

- Technical assistance
- Sub-metering program
  - HECO's PowerTrax system: on-line in real time readings
  - CAMPUS CENTER
  - SAUNDERS HALL
  - HAWAII INSTITUTE OF GEOPHYSICS
  - LAW SCHOOL (upcoming)
  - CAMPUS-WIDE SUB METERING PROGRAM
- Load Control program

# UH Commitment and Initiatives

## ➤ LEED Projects (Planning, design or under construction)

Frear Hall Dorms(construction)

ITS Building(planning)

College of Education(preliminary planning no funding)

HIMB lab (design)

KCC Culinary Institute(design)

MCC Science Building(design)

# UH Commitment and Initiatives

- LEED Projects (Planning, design or under construction)
  - UH-Leeward Community College – Social Science and Teacher Education (design)
  - UH-Hilo - Science and Technology Building (design)
  - UH-Hilo – Hawaiian Language Building (planning and design)
  - UH-M – Kennedy Performance Arts Facilities (design)
  - UH West Oahu – New campus (design)

*\* Information provided by Carilyn Shon at DBEDT*

# UH Commitment and Initiatives

**UHM Retrofits** - Attention to large cooling efficiency improvements

- HVAC upgrades = reduction in energy usage from prior years by 6.45% saving and estimated \$1.3M annually at current rates

➤ Additional retrofitting

- Relamping program

- Comprehensive and coordinated Energy Management System Implementation

- Sustainable Saunders- Metering, Energy Conservation, Water Conservation, Wind turbine, behavioral changes



# Future Actions

- Continue to work with DBEDT - increase coordination among state agencies and accelerate advances in private sector
- Continue to identify and overcome procedural barriers
- Continue to explore viable financing options
- Work to establish more renewable energy opportunities such as Power Purchasing Agreements
- Track Progress
- Update Lawmakers
- Refine Policies