Update on DBEDT Energy-Related Activities
for the
Senate Committee on Energy and Environment
and the
House Committee on Energy & Environmental Protection

Maurice H. Kaya, P.E.
Chief Technology Officer
Department of Business, Economic Development, and Tourism

January 18, 2007
DBEDT Strategic Industries Division
Energy-Related Activities

- State Progress, Implementing Legislation of 2006
Acts 96 and 240, SLH 2006

- Savings Through Efficiency
- Independence Through Renewable Energy
- Fuels Through Farming
- Security Through Technology
- Empowering Hawaii’s Consumers
- Preserving Hawaii’s Energy Security
Energy Efficiency Provisions

*Savings through Efficiency*

**State Lead by Example Program**

- Coordination with all Departments
- Targets established for energy savings goals
- New or renovated state facilities to meet LEED silver
- Use of biofuel blends in state vehicles
- Purchase Energy Star products when cost-effective

*Independence Through Renewable Energy*

- Strengthened 20% by 2020 Renewable Portfolio Standard
- Increased the renewable energy technologies income tax credit for certain solar-thermal, wind-powered, and photovoltaic energy systems and made the credit permanent
- PUC given explicit policy direction to accelerate use of renewable energy
Biofuels Provisions

*Fuels Through Farming*

- Establishes a statewide alternate fuels standard of 20 percent of highway fuel demand to be obtained from alternate fuels by 2020
- Establishes a biofuels purchase preference for the State
- Funding of $200,000 for a statewide multi-fuel biofuels assessment
- Funding of $150,000 to DOA to assist farmers with developing biofuels projects
- Governor’s biofuels summit and ag bioenergy conference held
- Significant private sector activity generated, biodiesel projects being developed
Hydrogen Technology Programs
Security Through Technology

- Hawaii renewable hydrogen program within DBEDT established
- $10MM Hydrogen investment capital special fund in HSDC established
- Major $$ commitment from USDOE for expansion of Hawaii Hydrogen power park
- Proposals being sought for hydrogen fund manager through HSDC
Improving the State’s Energy Emergency Preparedness (EEP)

- Finalizing update of EEP plan and program
- DBEDT developing proposed bill to address deficiencies in Hawaii’s energy security and EEP statutes identified in update project
Hawaii Energy Strategy 2007

- Rocky Mountain Institute (RMI) selected as consultant
- Updated ENERGY 2020 model of Hawaii energy system
- ENERGY 2020 model runs have projected Hawaii’s energy future under three possible scenarios
- Potential strategic pathways and policy options identified
- Biofuels Summit held in August 2006 was part of process
- Currently refining results and drafting report

- Three stakeholder meetings held
- Draft final report to be submitted to DBEDT in late January/early February
  - Following DBEDT review, draft will be presented to Stakeholders for comment at a fourth meeting in early March
  - Final report expected to be issued in March – April 2007