

Presentation to the
Rebuild America Peer Exchange

**Honolulu: Programs and
Partnerships for Sustainable Energy**

Steve Holmes
Rebuild Honolulu
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Sustainable Honolulu



Energy Efficiency



Goal: Cut energy demand
at city facilities in half by 2010



Electrical demand at City Hall cut by 70 percent

LED Traffic Signals



Replacement of traffic lights with light-emitting diodes saves \$500,000 annually

U.S. Department of Energy Partnership



LED street light runs on solar and wind power

Honolulu Solar Roofs



Homeowners get 0 or 2% interest loans
to install solar water heating systems
Partnership with Hawaiian Electric

Green Fleets Initiative



- *Over 1,000 biodiesel vehicles
- *Fuel tax incentive for biodiesel
- *Over 200 other AFVs

Bus Rapid Transit



Hybrid Bus

Honolulu Bio-Power Initiative

Partnership with:

- Gas Technology Institute
- University of Hawaii
- Rebuild America
- The Gas Company
- Hawaiian Electric
- EPA CHP & LMOP



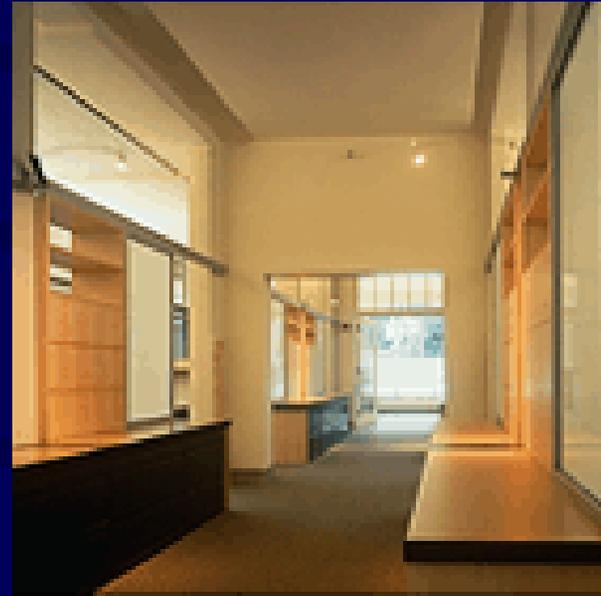
Hydrogen Power Park



Partnership with:

- Hawaii Natural Energy Institute
- California Energy Commission
- U.S. Department of Energy
- State Energy Office
- Hawaiian Electric

Green Building Standards



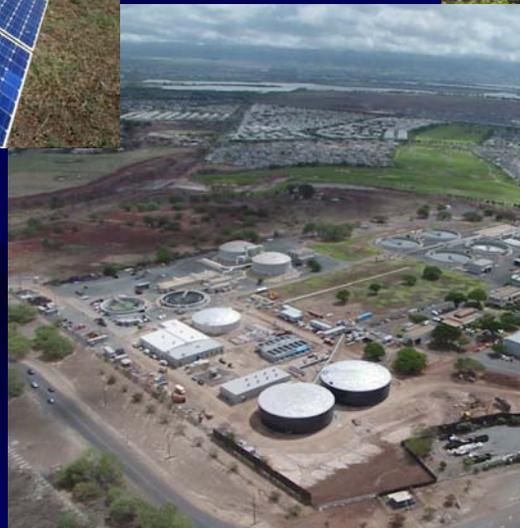
City partnership with UH School of Architecture and Rebuild America to establish standards for all new city construction

Energy Star Purchasing Program



City partnership with U.S. Department of Energy
Hawaiian Electric and Board of Water Supply

ESCO Financing



City Energy Code



Over \$300 million projected savings
Partnership with State Energy Office

H-Power

Refuse-Derived Fuel Power Plant



- Converts over 2,000 tons of waste per day
- Enough electricity for 40,000 homes
- Annual electrical revenue of over \$26 million
- Reduced imported oil by 10.7 million barrels

Aloha



**Sustainable
Honolulu**



S.M.

A Rebuild America Partnership