

# CHARTING OUR PROGRESS TOWARD A RENEWABLE FUTURE.

## Renewable Energy

**Oahu:** Hawaiian Electric requesting proposals for 100 MW of additional renewable energy.

## Wind Energy

**Hawaii Island:** Pakini Nui wind farm expanded from 7 to 21 MW in 2007.

**Maui:** Shell Wind Energy proposing 20 MW wind farm at Ulupalakua Ranch.

**Maui:** UPC Wind proposing expansion of existing 30 MW Kaheawa wind farm.

**Oahu:** UPC Wind and other developers proposing North Shore wind farms.

**Molokai & Lanai:** UPC Wind and Castle & Cooke proposing large-scale wind farms.

## Biodiesel in New Plant

**Oahu:** New 110 MW all-biodiesel Campbell Industrial Park Generating Station scheduled for operation in 2009.

## Biodiesel in Existing Plants

**Maui:** Biodiesel use being tested in Maalaea units. Potential for over 200 MW generated from biodiesel starting in 2009.

## Seawater Air Conditioning

**Oahu:** Honolulu Seawater Air Conditioning proposing downtown plant to save 17 MW. Half the customers needed have already committed, including Hawaiian Electric.

In 2006, we announced a goal of achieving at least 500 megawatts from new renewable sources in the next 5 to 10 years. Here is an UPDATE on just some of what we are accomplishing by working together.

## RENEWABLE ENERGY SOURCES

100 MW **Wind Energy**

80 MW **Pumped Storage Hydro**

50 MW **Biofuel in New Plant**

83 MW **Biofuel or Biodiesel in Existing Plants**

85 MW **Solar Energy**

40 MW **Garbage-to-Energy**

30 MW **Geothermal**

25 MW **Biomass**

7 MW **Landfill Gas**

Future Potential: Ocean Thermal Energy Conversion (OTEC), Wave Power, Hydrogen

500 MW **Total Clean, Renewable, LOCAL energy**

## Solar Energy

**All islands:** 9,700 more solar water heating units added in 2006 & 2007, reducing demand by an additional 6 MW.

**Lanai:** Castle & Cooke planning 1.5 MW photovoltaic project in 2008.

**Oahu:** Large-scale photovoltaic projects installed and others planned by State of Hawaii, Walmart, Costco, James Campbell Company and others.

**Oahu:** 10 MW concentrated solar project proposed by Sopogy Inc.

**Hawaii Island:** Sopogy Inc. planning 1 MW concentrated solar power demo at Natural Energy Laboratory in Kona.

## Garbage-to-Energy

**Oahu:** City & County of Honolulu expects to add a third boiler to increase power of H-Power plant.

**Hawaii Island:** 3.5 MW Hilo project proposed by Hawaii County.

## Geothermal

**Hawaii Island:** Puna Geothermal Venture proposing 8 MW expansion.

## Biomass

**Hawaii Island:** Tradewinds Forest Products LLC signs agreement with Hawaii Electric Light Company to supply 3.6 MW.

**Hawaii Island:** 30 MW biomass plant proposed by Hamakua Biomass.

## Wave Energy

**Maui:** Oceanlinx planning 2.7 MW wave energy project to sell power to Maui Electric.

500 MEGAWATTS – ENOUGH  
POWER FOR DIAMOND HEAD TO  
DOWNTOWN



Hawaiian Electric Company

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