



## SHADES OF GREEN

### The Greening of Grand Wailea

#### Overview

- Grand Wailea, A Waldorf Astoria Resort, is a beachfront property situated on 40 acres of lush, tropical gardens on Wailea Beach, Maui offering 780 luxurious accommodations.
- As a leading destination in Hawaii, the Grand Wailea embraces its ecological responsibilities by focusing on the conservation of natural resources and green sustainability on a daily basis.
- **Our goal is to implement water-saving measures, reduce solid waste and execute energy-saving tips to help maintain the ecological balance of Maui.**

#### Green Accolades

- In September 2008, Grand Wailea was inducted into Maui Electric Company's "**Energy Efficient Hall of Fame**" for its energy conservation measures:
  - Digital Programmable Thermostats
  - Efficient Air Conditioning
  - Efficient Lighting
  - Heat Recovery System
  - Premium Efficiency Motors
  - Variable Frequency Drives

Total Kilowatt Hours Saved: 11,670,000

Total Barrels of Oil Saved: 20,300

- In 2007, Grand Wailea received an award from Energy Industries for implementing an energy-efficient program that have reduced electricity consumption by over 549,000 kilowatts hours, the equivalent of:
  - 850,950 pounds of carbon dioxide emissions
  - 898 barrels of oil
  - 9,897 tree seedlings grown annually
- Maui Electric Company Energy Award, 2007
- Hawaii Green Business Award, 2005
- Hawaii Green Business Program, member

#### Current Sustainability Projects

##### Beach and Pool

- Energy efficient motors installed in water features systems. Engineering Department standard operating procedure requires that all new motors installed will be high energy efficient rated.

- Reduced water and chemical consumption in pools and Spa have been achieved by updating electronic water level controllers and filtration systems to high rate sand filtration systems.
- Water Features has replaced water controller systems to reduce makeup water consumption (Warrick water control systems).
- The Engineering department proactively conducts daily monitoring of all utilities, water and irrigation usage to identify and correct problem areas.

#### Spa Grande

- Combined heat and power, or CHP, also called cogeneration. This is a propane-powered generator that generates electricity into the island's distribution system while capturing the waste heat from exhaust to heat our 770,000 gallon activity pool and the hot water used in Spa Grande.
- Utilizes local and organic products (fruits, herbs, flowers) for spa treatments.
- Uses biodegradable cups made from corn.

#### Food & Beverage

- Uses biodegradable plates made from sugar cane in Grand Wailea's outdoor restaurants.
- Offers Niman Ranch Angus born and raised on U.S. family-owned ranches and fed a 100% vegetarian gluten free diet with no added growth hormones or antibiotics. "All Natural" Niman beef are raised traditionally, humanely and sustainably ensuring the finest on you dinner plate. For more information visit [nimanranch.com](http://nimanranch.com). Respect The Land.

#### Landscaping

- Indigenous and endemic Hawaiian plants and shrubs that are drought resistant reducing watering usage are planted throughout Grand Wailea
- Landscaping has cut irrigation run times to reduce overall property consumption, saving approximately 4 million gallons of water per month.\* Retrofit is completed to low flow water conserving sprinkler heads.
- Outside torch lighting lit fifteen minutes before sunset. Most outside torches turned off at 11:00 p.m.
- Green waste (over 10 tons per month) generated by Grand Wailea's landscape is converted to compost and soil amendments for plant nourishment improving irrigation water absorption, holding capacity and plant immunity to disease eliminating need for fertilizer that could run off into the ocean and damage shoreline waters.
- Systemic pesticides injected directly into our tree root systems to control common foliage pests in Hawaii. This safely eliminates spraying of pesticides in landscaping areas.
- Property uses computerized irrigation control system that reduces irrigation water and monitors daily consumption.

#### Meeting Spaces

- Ballroom and Meeting room temperatures are set at 72 degrees Fahrenheit unless directed by client to run at lower temperature.
- Utilize Energy Management System to pre-program lights in the ballroom to turn on 45 minutes and meeting rooms 30 minutes prior to functions.
- Cold Cathode (low-energy consuming bulbs with 25,000 operating hours) are installed in chandeliers and sconces which are more energy efficient compared to traditional incandescent bulbs.

#### Guest Rooms

- Guests are provided with towel and linen-changing options saving an average of 229,209 gallons of water per month.\*
- InnCom Sensors installed in guest rooms providing energy savings and heightened guest service. InnCom Sensors monitor occupancy and lowers air conditioning when guest rooms are unoccupied.
- Compact fluorescent bulbs installed in 100% of guest rooms reducing energy consumption by 60 percent per light bulb.\*

#### Internal Operations

- Motion detectors are used to control lighting installed in storage rooms and closets, back of house offices.
- Water heaters for dishwashers are retrofitted with timers to automatically shut down if left on accidentally.
- Property lighting controls - lighting timers set to fifteen minutes before sunset and fifteen minutes after sunrise (unless requested by clients or because of safety issues).
- Walk in door curtains installed in all refrigerator and freezer walk-ins to contain cold air while being loaded.
- Our laundry tunnel washer recycles rinse water, saving thousands of gallons of water daily.
- Hot water temperature has been reduced from traditional 124-degree Fahrenheit to 114-degree Fahrenheit.
- Energy efficient, overhead lighting have been installed in 95% of hotel.
- Waste heat from chillers temper hot water supply water for the property by 4 degrees, saving energy.
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#### **In the Pipeline**

There are several other sustainability projects currently being implemented at the Grand Wailea and future initiatives in the pipeline to ensure reduced solid waste production and water consumption.

- Landscaping with low water use plant material in large outdoor planted public areas.
- Converting irrigation to low water consuming drip and spray emitters
- Energy efficient lighting retrofits for corridors, parking lots, and public areas.
- LED landscape lighting retrofit.

- Saline Chlorination system retrofit for Active and Formal pool. This would eliminate chlorine based product purchases and costs by 95%, Sea water from our salt water well is a possible source for these systems.
- Automatic Regenerative Media Filter conversion for Active and Formal Pool. This would save millions of gallons of water annually along with chemicals, energy, and waste.

**Grand Wailea is committed to conserving Mother Earth's natural resources while continuing to provide unparalleled service and unique offerings to our guests.**

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