

## 2016 Hawaii Green Business Program Awardees Accomplishments

**Ala Moana Hotel.** Ala Moana Hotel's sustainable practices and recycling initiatives include the installation of electric vehicle charging stations, installation of low energy florescent lights, and LED lighting in public areas and meeting rooms. Timers for air conditioners and motion detectors were installed in guestrooms to help reduce air conditioning usage. Moreover, guestrooms have low-flow toilets, landscape sprinklers are only used during non-daylight hours, and dishwashers are equipped with heat recovery units that take the heat from the drying cycle to pre-heat the incoming water to 120 degrees. These units also recycle the water from the rinse cycle to the wash cycle, which saves on the water usage.

**Aqua Palms Waikiki.** Aqua Palms Waikiki has implemented a number of green initiatives including retrofitting more than 75% to LED's, CFL's and T-8 with electronic ballasts; installed new ASHRAE-compliant air cooler chiller; lowered thermostat to 128 degrees; installed photocells and timers; and purchased ENERGY STAR® equipment. The hotel retrofitted water efficient fixtures with aerators, installed efficient shower heads and low-flush toilets. The hotel has paper products with 50% or higher recycled content; recycling program for cardboard, bottles, plastic and paper; and properly disposes of any hazardous waste. More than 50% of janitorial products are certified as environmentally preferable. In addition, the hotel developed a "Green Team," and mentors other businesses such as IHOP to enroll in the Hawaii Green Business Program. Green initiatives have demonstrated a 35% reduction in energy consumption.

**DoubleTree by Hilton Alana Waikiki Beach.** DoubleTree by Hilton Alana Waikiki Beach established a "green" committee to support their corporate legacy commitment. Measures include ENERGY STAR® labeled appliances; installation of CFL's and LED lighting systems; installation of occupancy sensors to control light, air conditioning and televisions in the guest room and energy efficient heat pumps at the pool. DoubleTree installed energy efficiency dishwashing and laundry equipment which demonstrated a 15% reduction of annual water usage. DoubleTree encourages guests to recycle and provides recycling bins in common areas and in guest rooms. They donate used bottles and old guest towels and linens to shelters and non-profit organizations.

**Hawaii Prince Hotel Waikiki and Golf Club.** Hawaii Prince Hotel replaced their cooling tower with new Evapco Stainless Cooling Towers and replaced the chiller system with Metasys Energy Management Controls which schedules on/off times for air handler operations following Banquets Event Orders, restaurant hours of operations and back of the house operations to control chill water supply. The hotel installed Magna Lumen reflectors in tower fire stairwells. The hotel installed CO2 monitors in their Self/Valet parking lot and Diesel Exhaust monitors to reduce their exhaust fan motor running from 24/7 to 1 hour per week. The hotel donated their discarded linen to charitable organizations such as the Next Step Shelter, Habitat and Goodwill.

**Hilton Hawaiian Village Waikiki Beach Resort.** Hilton Hawaiian Village Waikiki Beach Resort is one of the first hotels in Waikiki to participate in the Hawaii Green Business Program in 2000. They have been able to reduce their energy usage by 11,168,135 KBTU over past years by installing light motion sensors, and new energy efficient lighting in all towers. Moreover, they reduced water consumption by 17,630,157 gallons by installing flow meters on irrigation lines to monitor water consumption and variable frequency drives on pool pumps to reduce speeds to 70%-80% of full output. Hilton Hawaiian Village has recycled more than 176,000 pounds of a paper a year, and produces diesel fuel from their kitchen fryers and animal food from food waste.

**OHANA Waikiki East by Outrigger.** OHANA Waikiki East by Outrigger has demonstrated a commitment to continually improving its eco-friendliness. Some of their green practices include installing LED lightings in all lobby areas, replacing parking lights to T-8 bulbs which will eventually be retrofitted to LED, and exterior lighting on timers and relay switches on lanai doors. In order to conserve water OHANA Waikiki East installed ultra-low flow fixtures in guest rooms, adjusted hot water heater settings to lower temperatures, and placed placards in guest rooms to invite guests to conserve water through reusing towels and sheets. For solid waste reduction, bottles and cans are collected from guest rooms and public areas with a portion of the proceeds donated to Parents and Children Together.

**OHANA Waikiki Malia by Outrigger.** A broad range of environmental initiatives include low-flow toilets, shower heads, and sink faucets in guest rooms and low-flow sink faucets and toilets as well as self-flush motion detectors in lobby public restrooms to reduce water consumption. Additionally, guest rooms have been retrofitted with CFL bulbs, EXIT sign lights to LED lighting, and public areas to T-8 and electronic ballasts. Chiller plants, cooling towers and pump motors have been retrofitted with variable frequency drives, and hot water heating settings adjusted to lower temperatures. An INNCOM energy management system has been installed in guest rooms to control the air conditioning units to maintain a comfortable temperature while the room is occupied or vacant.

**Outrigger Waikiki Beach Resort.** Outrigger Waikiki Beach Resort is an active participant in the company's global conservation action and restoration plan, OZONE (Outrigger's Zone). Efficiency practices include installation of CFLs, low voltage track lighting, LED and other energy efficient lighting systems, a water saving program, employee training to detect and report leaks and minimize water use, installation of quick closing toilet valves, water efficient washers, and energy efficient washers and dryers. The Resort recycles/reuses paper including cardboard, mixed paper, newspaper/office paper, and recycles bottles and cans collected from guest rooms and public areas with a portion of the proceeds donated to Parents and Children Together.

**Trump International Hotel Waikiki Beach Walk.** Trump Waikiki provides best guest services while reducing their environmental impact. An INNcom thermostat system has enabled each unit to experience a 25-30% reduction in energy utilization. A combination of LED and CFL lighting in all guest rooms has reduced energy cost by 40-50%. Guest rooms contain receptacles for guests to recycle metal, glass and plastic. Low-flow toilets, low-flow sinks faucets, low-flow showerheads and water efficient appliances including washers and dishwashers are installed throughout the property to conserve water. Food scraps are collected and delivered to Al's Hog farm to feed hogs and used cooking oil is donated to Pacific Biodiesel.

**The Kahala Hotel and Resort.** Kahala Hotel and Resort has been committed to implementing a vast amount of energy saving measures including converting to LED lighting in the guestroom corridors, back of house hallways, kitchen lighting, and the parking garage. The resort also converted all executive offices, sales/marketing, and accounting offices to LED lighting and continues to save energy using seawater air conditioning. Another energy saving measure was upgrading their Alerton Energy Management System for their air conditioning controls to schedule and program the AC units. The hotel recycled bottles and glasses and donates proceeds to Aloha United Way.

**Hyatt Regency Maui Resort and Spa.** The Hyatt Regency Maui Resort and Spa is committed to environmental sustainability and social responsibility. The resort has achieved a Silver level green building certification from the U.S. Green Building Council under their Leadership in Energy & Environmental Design rating system for Existing Buildings Operations and Maintenance. They recently installed the largest (18,000 panels) rooftop solar photovoltaic (598kW) system in the County of Maui. The calculated savings of the system is 960,000 kWh/year. They use municipally treated greywater for irrigating a large portion of their property grounds. This drastically reduces the amount of potable water that would otherwise be used to irrigate their landscaping. They are also committed to supporting local community efforts and organizations such as the Sustainable Living Institute of Maui at the University of Hawaii Maui College.

**Marriott's Maui Ocean Club.** Marriott's Maui Ocean Club has demonstrated a commitment to continually improve its eco-friendliness. In the areas of energy and water, some of the measures implemented include compact fluorescent light bulbs for 100% of the property's lighting demands, motion sensor light switches, an electric vehicle charging station, low-flow water fixtures and toilets, and moisture sensing devices for landscaping. For solid waste and recycling, Marriott's Maui Ocean Club has placed recycling bins in easy access areas, donates HI-5 recyclables to local high schools, and recycles most other materials such as construction and electronic waste.

**The Ritz-Carlton Kapalua.** The Ritz-Carlton, Kapalua has demonstrated a commitment to continually improve its eco-friendliness. Measures include LED lighting throughout the property, newly installed VFD's and electricity savings of \$843,884 in 2015. Sustainable dining features ingredients harvested from its organic garden with 70 herb varieties, 100 types of vegetables and 35 fruit trees. The resort partners with Jean-Michel Cousteau's Ocean Futures Society for the Jean-Michel Cousteau's Ambassadors of the Environment program which educates guests on the local ecosystem through interactive excursions and conservation efforts, such as rainforest restoration, wildlife protection and more. The Ambassadors Center property features LED lights, furniture from a sustainable living company, dual-flush toilets, coreless tissue rolls, rain catchment system and more. Ambassadors Naturalists and resort guests support local conservation efforts during Malama Ka Aina and explore remnants of a once vibrant pineapple growing community where life, land, and water are all vitally important.

**Valley Isle Excursions.** Valley Isle Excursions' new 10,000 square foot base yard has an extensive recycling program, solar panels, upgraded tour vans, and energy efficient lighting and power system resulting in 15% savings in electrical costs. Toilets and faucets are low-flow devices. Good water usage practices have provided another \$620 in monthly water savings. They use real cutlery and plates during the tour as well as 30% recycled paper products and 100% of the containers provided to guests are brought back to the base yard for recycling. In addition, recycled ice water from coolers is reused on drought resistant native plants around the base yard parking lot. They provide extensive training to their drivers on how to save fuel which saved 3% in fuel costs (approximately \$1200/month). Their participation in the Maui community and the Hawaiian culture has increased this past year as they have been involved in the Ko'ie'ie fish pond restoration efforts in Kihei.

**Lanikai Juice - Kaka'ako.** Lanikai Juice-Kaka'ako practices social responsibility to educate and become a role model for their surrounding communities. They have sourced and are using more bio- and eco-friendly supplies. They are using glass bottles for all Cold Pressed juices. They also have a Mason jar that is used as an alternative for those customers who are more eco- conscious. In the past year they have installed low-flow water sprayers to reduce their water usage by as much as 50%. They have been working with the Food and Fuel Foundation for their produce waste to be utilized by the local farmers as natural fertilizer. The Lanikai Juice Company looks forward to improving efficiency in each location by using more eco-friendly supplies.

**Honeywell Smart Grid Solutions.** Honeywell Smart Grid Solutions has employed several energy and water efficient initiatives including the installation of occupancy sensors in private offices and the conference room, a timer on the water dispenser, and de-lamping 32 bulbs from overhead light fixtures. Waste reduction efforts have included printing only when necessary, electronic editing, reducing the use of rubber bi-products, switching from plastic-ware to washable utensils, and employing recycled paper labels for approximately 2500+ customers by purchasing reusable self-inking stamps. Efforts also include subsidizing all employee bus passes and planning efficient vehicle use to cut down travel-related emissions. To improve indoor air quality, a CO2 sensor was installed to monitor levels in the office, and the purchase and placement of large plants to increase oxygenation levels.

**Honolulu Museum of Art - Plastic Fantastic?** Plastic Fantastic? was an exhibition about the benefits and costs of plastic, especially one-time use plastic, illustrated through art. To reduce solid waste from the event, it followed the Green Business checklist by providing reusable name badges, placed recycling and compost bins, replaced the usual disposable plastic cups with reusable water bottles and glasses, covered tables with reusable linen and compostable paper, re-used décor and accouterments from previous events, used centerpieces that could be repotted at home, produced invitations that doubled as reusable drink coasters and followed up with electronic reminders. The museum reduced energy and water use by holding the event outdoors in a naturally lit, ventilated space, and served organic finger food buffet style so that utensils weren't necessary.

**University of Hawaii at Manoa 4th Annual Sustainability in Higher Education Summit.** The University of Hawaii at Manoa 4th Annual Sustainability in Higher Education Summit was held in March 2016. About 150 participants representing faculty, staff, students and administrators from the UH 10-campus system convened to work on strategic energy management, sustainability curriculum development, formalizing the statewide Student Sustainability Coalition, and to continue with campus sustainability planning. The event implemented “green” practices including a zero waste protocol; using reusable plates, mugs, water bottles and utensils; providing healthy vegetarian cuisine for all meals featuring locally foraged or sourced ingredients by local Chef Jenn Hee of Juicy Brew Café; requiring carpooling and room-sharing for all UH participants; and learning from host culture through opening protocol and service learning project at Ka Papa Lo’i O Kanewai Cultural Garden.

**Hawaii Tourism Authority Hawaii Tourism Conference.** The Hawaii Tourism Authority’s (HTA) annual Hawaii Tourism Conference was held in August 2015 at the Hawaii Convention Center. HTA aimed to achieve “green event” status by reducing solid waste, creating energy and water efficiencies, working with catering staff, and preventing pollution. Activities included providing reusable and compostable cups and tableware, using naturally lighted and ventilated meeting spaces in addition to spaces that used CFL/LED lighting, purchasing food from local and/or organic vendors, and using non-toxic cleaning supplies. The program hosted Sam ‘Oahu Gon, senior scientist and cultural advisor at the Nature Conservancy, who spoke on the Hawaiian Islands ecosystems and the values and traditions of the Hawaiian culture. In addition, there was a panel session titled “Greening Hawaii’s Businesses and Events” with speakers from the Hawaii Ecotourism Association, Hawaiian Legacy Tours, and the Hawaii State Energy Office.

**Hawaii Pacific University Presidential Lecture Series on Global Leadership and Sustainability.** Hawaii Pacific University’s (HPU) Presidential Lecture Series on Global Leadership and Sustainability provides a unique opportunity for members of HPU and greater Hawaii communities to engage with nationally and internationally recognized leaders and hear their insights on critical topics related to environmental sustainability. HPU implemented a number of sustainable practices, including electronic communication and social media to promote the event. Attendees were encouraged to use alternative transportation to and from the events. Tableware was reusable or compostable. Recycling and composting helped divert a significant portion of the event’s waste. In 2015, HPU invested in Sika Roofing’s EnergySmart Roof®, LED lighting, and low-flow bathroom toilets and sink faucets in an effort to help reduce operational costs and environmental impact.

**Sony Open in Hawaii.** The 2016 Sony Open in Hawaii continued its Sustainability Initiative aiming to reduce waste, increase recycling, and engage communities and stakeholders. At Waialae Country Club, 235W and 250W solar system have been installed at the clubhouse and at the annex building. In addition, the country club uses energy efficient lighting and implemented green practices for golf course maintenance. At the Sony product tent, Energy Storage Solution showcased how residential and commercial buildings can use renewable energy for off-grid and grid connected applications. By partnering with Recycle Across America and teaming up with volunteers they were able to recycle over 6,600 lbs. of glass, plastics and cans from the event. In addition, food wastes generated through Waialae Country Club’s kitchen and its mobile kitchen were sent to Eco Feed for use at piggery farms as feedstock, diverting about 1,650 lbs. of additional wastes from disposal.