



**HAWAII
GREEN**

**2022
BUSINESS
PROGRAM**



**HAWAII
STATE
ENERGY
OFFICE**



Board of Water Supply



**HAWAII STATE
DEPARTMENT
OF HEALTH**

KINGS' LAND

HILTON GRAND VACATIONS CLUB



Background:

Kings' Land Hilton Grand Vacations Club at Waikoloa Beach on Hawaii Island is a vacation ownership resort with 435 condominium style settings, varying from 1 to 3 bedrooms units. This project sits on 116 acres within the resort area of Waikoloa and consists of 16 guest occupied buildings, 1 super pool, 2 large pools, the clubhouse, an operations center and future development sites.

Sustainability: Kings' Land is the flagship resort for Hilton Grand Vacations in Waikoloa Beach Resort. Protecting land and culture is at the forefront when developing and operating vacation ownership resorts. LEED Silver was received in 2011 with the completion of phase one of the resort. Substantial effort continued with an extensive conversion to LED lighting throughout the entire resort. Capital investment into energy efficiency and updated mechanical equipment are priority. Best practice for water conservation and mitigation plans in place locate leaks and excessive consumption.

Highlights:

LED conversion projects.

- Change from CFL to LED lighting throughout phase 1 - All hallways and in rooms 2021.
- Phase 2 was upgraded from CFL to LED in 2018.
- Phase 3 built with all LED lighting in 2016.
- All parking lot pole lamp lights converted to LED.
- Landscaping lighting converted to LED.
- All lighting in and around the pools converted to LED.

Energy Efficiency

- Replaced all thermostats in guest rooms with occupancy sensors.
- Installed energy efficient heater for Phase 3 pool.
- Clubhouse water feature upgraded to energy efficient pumps.
- All faucets and fixtures in public areas converted to touchless operation.
- All pumps for water features on timers.
- Preferential selection of electric over gas powered club carts.
- ADA pool lift with solar panels at all pools

Mechanical Efficiency

- Annual cleaning of heat exchanger to maximize efficiency.
- Installed VFD motors for pool pumps, air conditioning, chillers and cooling tower
- In House laundry updated with VFD for washers and motors are now energy star rated.
- Phase 1 all air conditioning replaced with new refrigerant from R22 to 410.
- Energy Star appliances – Dish Washer, Fridge, Stove, Microwave, Washer/Dryer, TVs.

Water Management

- Guest room water temperature set at 127 to prevent legionella from growing.
- Low flow shower heads @ 2.5GPM and toilets are 1.5 Gal Zurn pressurized tanks.
- Waterless urinals in the public areas.
- In-tank pressure tank to reduce water usage guest rooms toilet in phase I
- Filtered water bottle fill stations throughout the resort.
- Irrigation system which has rain sensors.

Systems and Programs

- Lightstay utilities management system used to track and control waste.
- LEED Silver Certificate with completion of Phase 1 in 2011.
- Meter reading checks to address any spikes.

Community and Organizations

- Highway clean up.
- Non-profit organizations.
- Recycling program in guest rooms and in public areas.
- Clean the World organization to donate used bar soaps.
- Bio-waste oil service for our F&B outlet.



All faucets and fixtures in public areas converted to touchless operation.



Solar fixtures.