



ENERGY ASSESSMENT REPORT 2016

Introduction

This report is conducted to fulfil Gold Label criteria from Travelife while focusing saving opportunity in the use of energy so that we benefit both financially and environmentally in order to create sustainable environment.

Energy Resources

- Legian Beach Hotel's main water energy resources are government electricity (865 KVA).
- Genset as back up (650 KVA)
- Solar Hut for water heating (46 panels each of 1m X 2m)
- LPG Gas for cooking and laundry
- Gasoline for grass machine cutter
- Used cooking oil for Fire Torch at paving road

6-year Energy Consumption Record

From the attached report, it is clearly shown that Legian Beach Hotel has improved its water management by decreasing water consumption per guest through different water saving programs encouraged in the hotel that has been receiving increased participations.

YEAR	KWH	USD VALUE
2011	14.97 m3 / guest / day	2.33/guest/day
2012	17.69 m3 / guest / day	2.64/guest/day
2013	18.99 m3 / guest / day	2.22/guest/day
2014	21.19 m3 / guest / day	2.29/guest/day
2015	23.27 m3 / guest / day	2.20/guest/day
2016	23.63 m3 / guest / day	2.02/guest/day

Summary

Good improvement shown in USD value of consumption per guest since we gradually 2016 change our system and encourage our guests to participate such as :

- LED lights installation within the premises
- Energy saving device in all guest rooms
- Use of heat pump to produce hot water
- Timer in all public are lights
- Solar Thermal Panel Installation to pre heat water in order to reduce power needed to produce hot water
- Individual split unit of air-conditioning to prevent waste of energy when the rooms are occupied

Energy Resources Prevention Plan

- To continue the installation of LED lights in premises such as garden area
- To ensure that all energy saving devices in all guest rooms are checked daily to make sure they are in working order
- To ensure that all heat pumps are in working order daily
- To ensure that all timers are in working order on daily basis
- To ensure that laundry machines are running in full load
- To ensure that all gaps at doors in the air-conditioned kitchen area are properly sealed to prevent waste of cooling
- To install more curtain at the walk-in chiller and freezer outdoor area to keep the cooling as much as possible
- To increase number of Solar Thermal Panel in the new development plan
- To continue seeking for more energy effective air conditioning system

Saving Opportunity

- Increase the "save energy" program participation by relating the programs to discount on Spa, food & beverage or special "green" token.
- To install more curtain at the walk-in chiller and freezer outdoor area to keep the cooling as much as possible
- To increase number of Solar Thermal Panel in the new development plan
- To continue seeking for more energy effective air conditioning system

Reported by : Arif Billah / General Manager

Copy : Financial Controller, Chief Engineer, Executive Housekeeper, Executive Chef, Food & Beverage Manager