



Seminar Summary

“Energy Saving for Hotels”

“Reducing Fuel and Electricity Costs and Increasing Revenue, with Proven Alternative Energy Solutions and Strategies”

June 13, 2008

Discovery Kartika Plaza Hotel
Tuban, Bali

1. Introduction

Saving energy is indeed good business. Constantly rising traditional energy costs represent a growing burden to the world, the industries and particularly to hotels and tourism. Yet many strategies, solutions and technologies readily exist that can reduce this burden substantially and immediately.

2. Summary of speaker’s presentation

Jork Bosselaar, Environmental Committee of Bali Hotel Association, *“Going Green”, an **ECO**nomically sound decision...*

Tourist industry greatly impacts the environment and the worldwide energy consumption. Growing customer’s awareness represents a great opportunity for changes: reduce individual energy, water, waste consumption; educate people; use energy efficient technologies, from renewable sources. The Green Globe label is today a powerful marketing tool, like any other Ecotourism label.

Yuyun Ismawati, Balifokus, *Energy Efficiency for Hotels and Carbon Credit potential*

A “sustainable” hotel must commit to social, economical and environmental standards through: policies, staff training, management, purchasing, communities, and destination protection. With the awareness needed to achieve this goal, a hotel can earn as well lots of credits today while turning “green”: Carbon Credits (through CO₂ reduction), Clean Development Mechanism, Government’s subsidies, Private Funding. Yes a sustainable tourist industry also offers opportunities to grow your business...

Andreas Heru Sumaryanto, Humas, PLN Distributi Bali, *Saving Energy Every Time*

Bali facts: 580MW of power available, including 200MW supplied from Java; 65% of total energy production originates from diesel fuel; daily consumption: 1,4 million liters, 30% goes to hotels! With energy costs dumped by government subsidies, it is time for all of us to save energy by: changing our habits, maintain our equipments, re-design installations. It is also time to share!



BALIFOKUS



Pieter de Vries, Contained Energy, *Energy Savings for Hotels*

Real changes in how we deal with energy need to make economic sense. Money is the most powerful motivator and fortunately real opportunities exist to make energy-saving profitable. For hotels, in some cases, energy costs are overtaking staff costs. Turn MegaWatt into NegaWatt by: 'avoiding' energy use, using low wattage (LED lights), using timers, setting thermostats, measuring and monitoring, implementing policies and strategies... then use renewable energy sources: solar thermal, heat pump, solar PV, wind, hydro, tidal, biofuel, biogas, solar cooling, to reduce your energy bills. For reference and interested visitors: Contained Energy open last May its first solar water heating system (144 collectors) at Discovery Kartika, saving 200l of diesel fuel per day...

François Pelletier, Contained Energy, *Solar Water Heating Systems for Hotels*

Although a small portion of it is recoverable, the total energy received on earth from the sun is over 5000 times the total human energy consumption. The solar thermal collector, with its 60 to 65% efficiency, is a proven effective method in any climate to generate hot water and steam. Together with heat pumps, they offer a perfect combination for hotels to completely shut down their boilers with very quick return-on-investment. With an average solar radiation of 5 to 7,5kWh/m² during the day, Bali shall not hesitate and go solar-powered!

Ken McRae, Contained Energy, *Heat Recovery Water Heating Systems for Hotels*

With an air source heat pump installed in your laundry, nearby a chiller for waste heat recovery, or just outside, pumping ambient air, you will produce 60-65°C hot water 24/7. With a Coefficient Of Productivity reaching 4 for industrial units, a heat pump produces 4 times more energy than it consumes. Additionally, it provides free air cooling, reducing load on air conditioning system. At current oil price, hotels spend over 5 times more per kWh on diesel than they would spend in electricity if using heat pumps.

3. Conclusion

This seminar gave an overview of existing, proven and future alternative energy and energy-saving solutions and strategies, to stimulate ideas for hotel managers, engineers and other industry experts on where and how energy-usage and -costs may be reduced. It examined the costs and benefits, strengths and weaknesses of various approaches in a fair and balanced way.

This informative and interactive seminar focused on 'costs and sense' or how to convert Megawatts into "Negawatts", while avoiding carbon emission. Saving energy not only benefits the bottom line of hotels and other industries, it increases revenue, it enables a sustainable development for the tourism industry, a must to maintain Bali's healthy economy; it also enhances people experience worldwide, and helps showing ways on how to preserve the planet, as well!

