Sustainable Tourism
Case study
Koh Samui..Green Hotel & Green Network to Green Island
by
Mrs. Jultamart Tongphuak
Secretary of Thai Hotel Association, Southern East Coast
And Committee of The Green Island Foundation
And Green Network with Samui Municipality

Samui Municipality start green network in 2005
by
had connection to some green hotel ( by hotel policy )

Green Procedure
By THA Green & Samui Municipality
1. environmental presentation, training
2. garbage management (separation, reduction, reform, recycle product )
3. EM - effective micro organism fermentation from leftover fruit, vegetable
4. Compost ( by leftover food + leave, organic garden )
5. energy saving ( electric, water, gasoline )
6. green purchasing
7. less pollution
8. Corporate Social Responsibility - CSR

July 2007 – big meeting with many hotels for present the green procedure
And inspect at some green hotel

How to promote the power of public participation?

policy
Owner or GM must be stick in environment

Set the green team
set leader and participation must be manager

procedure
Set up Green Procedure
garbage separation, EM, compost, organic garden recycle product or etc.

action
Spot check, audit, evaluate

THA Green & Samui Municipality
analysis the problems

Garbage Waste water
More chemical
More Energy consumption, electric, water, gasoline
Air pollution
Lack of Awareness

Kick off presentation
Set Green network Green procedure
Set Green Team
meeting inspection share knowledge technical
How to set green project in your hotel?

**summary report**
- Pros & Cons, weakness
- reduce cost per year
- revenue from sale the recycle garbage
- Next project

Green Procedure

1. **Garbage Separation**
   - Cloth bag or basket
   - substituting plastic bag

2. **Garbage Reduction**
   - Cloth bag or basket
   - substituting plastic bag
   - Garbage Reduction – reduce plastic
   - Cloth bag for room amenity and glass bottle (reuse)
   - Ceramic bottle (refill)
   - Use white cloth protect dust substitute plastic bag
   - Garbage Reduction – reduce plastic
   - Leftover food + leave compost
   - Fruit & vegetable scrap
   - EM for cleaning, Wastewater treatment
   - Raw fish scrap
   - EM for plant hormone

3. **Organic waste transformation**
EM (Effective Microorganisms) – substitute chemical

4. Less chemical → use bio product

Pineapple, lime EM

for Bio washing detergent

Pour EM in grease tank or septic tank

Organic garden

use bio compost & EM → organic menu

Water Saving

Sign in room

For turning off the tap

For towel

For bed sheet

Energy saving

Sticker for awareness

Change to energy saving bulb

Water Saving

Sticker & water saver faucet

Saving flush toilet

Placing rock or water bottle in flushing toilet
Hot water from condensing air (heat exchange)

Solar hot water

Bio Gas
From leftover

Bio Diesel

Green Purchasing

CSR

Grand Opening of Low Carbon School Project at Wat Klang School (by Centara Grand And Chaba Cabana)
Benefit to be Green Hotel
- reduce cost - fertilizer, organic veggi, handicraft, etc
- reduce electric and water cost
- reduce CO₂ emission – reduce global warming effect
- more awareness
- CSR – cooperate social responsibility
- one of the selling point

Greener Designation - Samui

The success stories
Green hotel network, Samui = 40 hotels
Green Leaf Certificate = 20 hotels
by Greenleaf Foundation
Greener Choice = 50 hotels (by Municipality)
Green Room = 5 hotels (pilot project)
by Energy Ministry
Green Hotels Standard = 20 hotels
by DEQP (Department of Environment Quality Promotion)
Green Globe Standard = 2 hotels

TAT will support for Road Show
(TAT - Tourism Authority of Thailand)

Carbon emission calculation from each activity in hotel

<table>
<thead>
<tr>
<th>activity</th>
<th>unit</th>
<th>Factor (kg CO₂e / unit)</th>
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<tbody>
<tr>
<td>electric</td>
<td>kw-h</td>
<td>0.5610</td>
</tr>
<tr>
<td>diesel</td>
<td>l</td>
<td>2.7446</td>
</tr>
<tr>
<td>benzene</td>
<td>l</td>
<td>2.1896</td>
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<tr>
<td>LPG</td>
<td>kg</td>
<td>3.11</td>
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<tr>
<td>Sent to incinerator</td>
<td>ton</td>
<td>41 g NO₂ (≈ 310 of CO₂)</td>
</tr>
<tr>
<td>Aluminum can</td>
<td>kg</td>
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<tr>
<td>glass</td>
<td>kg</td>
<td>-0.08</td>
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<tr>
<td>paper</td>
<td>kg</td>
<td>-0.80</td>
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<tr>
<td>Plastic</td>
<td>kg</td>
<td>-0.42</td>
</tr>
</tbody>
</table>

We can calculate CO₂ emission = 50 – 100 kg CO₂e / room

Keep record → set % reduce → Low Carbon destination

Thanks you