

# Sustainable Tourism

Case study

## Koh Samui..Green Hotel & Green Network to Green Island

by

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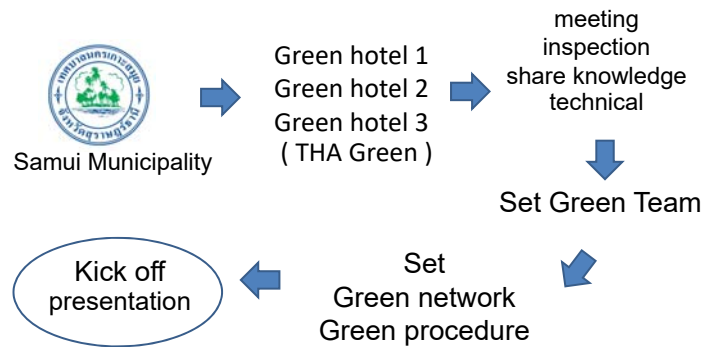
Secretary of Thai Hotel Association, Southern East Coast  
And Committee of The Green Island Foundation  
And Green Network with Samui Municipality



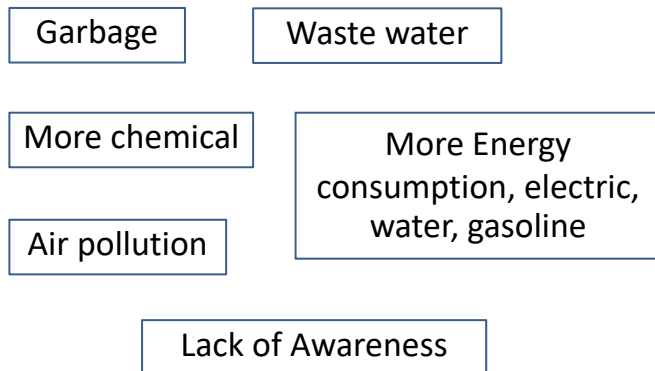
สมาคมโรงแรมไทย ภาคใต้-ตะวันออก  
THAI HOTELS ASSOCIATION  
(SOUTHERN CHAPTER - EAST COAST)



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



THA Green & Samui Municipality  
analysis the problems



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



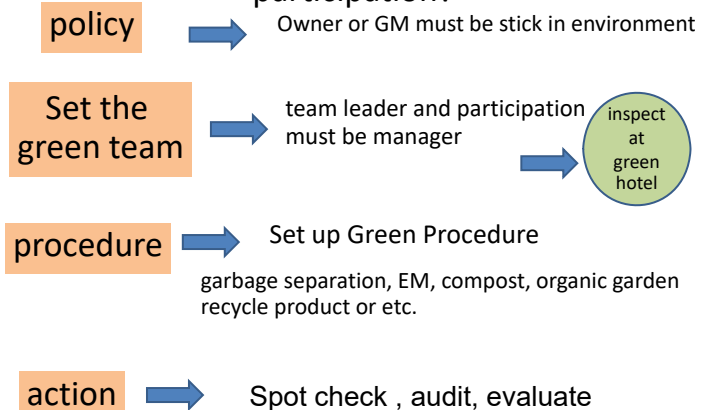
EM fermentation



Garbage separation



How to promote the power of public participation?



## 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



Calculation  
CO<sub>2</sub> emission  
ton equivalent / year

## Green Procedure



สมาคมโรงแรมไทย ภาคใต้ฝั่งตะวันออก  
THAI HOTELS ASSOCIATION  
(SOUTHERN CHAPTER - EAST COAST)



1

### Garbage Separation



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

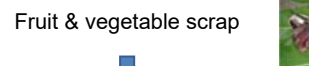
3

### Organic waste transformation



Leftover food + leave

compost



Fruit & vegetable scrap

EM for cleaning,  
Wastewater treatment



Raw fish scrap

EM for plant hormone

EM(Effective Microorganisms) – substitute chemical



4

Less chemical → use bio product



Pineapple, lime EM



Biological fertilization



for Bio washing detergent



Pour EM in grease tank or septic tank

Organic garden

use bio compost & EM → organic menu



Water Saving



For turning off the tap



For towel



For bed sheet

Water Saving



Sticker & water saver faucet



Saving flush toilet



Placing rock or water bottle in flushing toilet

Energy saving



Sticker for awareness



Change to energy saving bulb

### 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 CO<sub>2</sub> emission – reduce global warming effect
- more awareness
- CSR – cooperate social responsibility
- one of the selling point



## Greener Designation - Samui

## Carbon emission calculation from each activity in hotel

activity	unit	Factor ( kg CO <sub>2</sub> e / unit )
electric	kw-h	0.5610
diesel	l	2.7446
benzene	l	2.1896
LPG	kg	3.11
Sent to incinerator	ton	41 g NO <sub>2</sub> (= 310 of CO <sub>2</sub> )
Aluminum can	kg	-3.70
glass	kg	-0.08
paper	kg	-0.80
Plastic	kg	-0.42

We can calculate CO<sub>2</sub> emission = 50 – 100 kg CO<sub>2</sub>e / room

Keep record  
→ set % reduce



Low Carbon destination

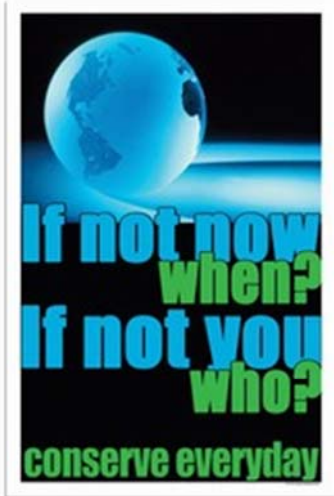
## The success stories

- 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 )

## Green Network



Thanks you