

HOMESYSTEM 3 kWh

Solarpower with diesel engine backup or with an additional wind generator

Consultance and Installation:



What is behind?

The Resorts on the remote islands or in the mountains dont have a grid connection. They use diesel generators to power their loads. Those need a lot of fuel, maintenance and their lifetime is limited. Diesel engines are noisy, they exhaust gases, and they are annoying your guests. Diesel engines are turned off in the evening. As a result, there'll be no more electricity and your guests will go elsewhere to spend the rest of the night.

Diesel engines can harm your business!

What is our solution?

A solar home system with 3 kWh daily output is powerful enough to supply the load for a resort with about 6 Bungalows! You can keep your diesel engines as backup for cloudy seasons or for higher demand in the peak season. This will prolonge the lifetime of your diesel engine and will reduce your fuel consumption and noise pollution to a tolerable minimum.

**Solarpower with diesel backup!
Instead of a diesel you can install a Wind
Generator for cloudy but windy days**

What do I have to pay? What can I save on energy costs?

| | |
|---|--------------|
| 10 Solarpanels 120 Wp | : 7.000 US\$ |
| 4 Solarbatteries 200 Ah, Charge controller: | 1.600 US\$ |
| 1 „real“ Sinus Inverter 900 W | : 1.000 US\$ |
| Mounting, installing, cables | : ~400 US\$ |

The solar system costs about 10.000 US\$

Solar Panels lifetime is far more than 20 years, Batteries about 5 years and inverter/charge controller about 10 years

Total investment in 20 years: 16.000 US\$

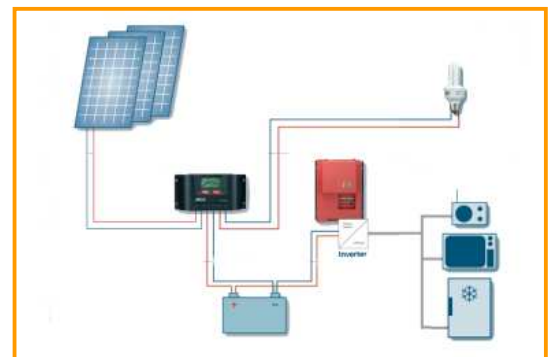
Power output in 20 years: 22.000 kWh

Your daily enery costs for the next 20 years are just 75 Baht! With 3 kW Solarpower you will save 55 Baht of fuel every day. Furthermore you don't have to buy a new diesel engine after 10 years! Your guests will be more satisfied, your resort will gain on quality.

Why not only solarpower?

Too expensive!! Example: Your frigerator is big enough for your restaurant. But twice a month there are more guests than usual and they like to party. Would you buy a second frigerator? No, you keep the extra beers in an ice box! Same here: Solar power should supply you with 90 % of your power need, the peak demand can be supplied by your diesel engine or by a wind generator.

It's not economical!



**What can I supply with my Home System?
Each device for 4 hours a day:
8 saving Lamps 7W, 1 TV 21", 1 SAT-Receiver,
1 Laptop, 7 Fans, 1 CD-Player, 1 Amplifier
AND: 1 refrigerator 24 hours**