



CASE STUDY

Discovery Kartika Plaza Hotel Solar Hot Water System

PROJECT SUMMARY

Location: Tuban, Bali

System Size: 144 Flat Plate
Solar Thermal Panels

Completed: 2008

Description:

Thermal Solar Hot Water
System

Daily production:

Heats 15-20 cbm water at 60
degrees C



Discovery Kartika Plaza Hotel is a 5 star hotel located in the heart of the tourist center in Bali. In 2007, Kartika hired Contained Energy to design and install an entire thermal solar hot-water system to supply their 318 room luxury hotel. The system consists of 144 flat plate solar thermal collectors that operate the hot water system from 7:30 am to 6:00 pm. 15-20 cubic meters of water is heated from 30-60° C each day.

Benefits

Kartika's decision to go solar has reduced diesel fuel consumption by 50%, from 400 liters down to 200 liters per day. The lower fuel consumption will reduce CO2 emissions by more than 600 tons per year and help Discovery Kartika Plaza in becoming "Green"



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