



Evason Phuket & Six Senses Spa Eco Story


EVASON PHUKET
& SIX SENSES SPA

Biomass Absorption Chiller - Zero Carbon Air-conditioning

Evason Phuket, November 2008: Heat produced by burning garden waste is converted by the biomass absorption chiller to create air-conditioning for the shipping and receiving building at Evason Phuket & Six Senses Spa in Thailand. The process is seen as a renewable and zero carbon energy source, because as foliage such as branches and leaves fall to the ground, new growth replaces them and will soak up any carbon released.

The biomass absorption chiller is expected to burn approximately 250kg of garden waste per day to create 20 tonnes of air-conditioning, enough to cool a 600 square metre storage building 24 hours a day. The biomass stoker has a combustion efficiency of 97%.

The biomass absorption chiller is the first commercial application of its kind installed in Thailand. It is a relatively old technology, but due to low oil prices it has never been made a commercially viable option. With increasing oil prices, the commercial value of the technology has increased.



Biomass Absorption Chiller's Furnace

The Evason Phuket biomass absorption chiller is part of a Danish-Thai project which set up a joint venture between the Energy Maintenance Service (Phuket, Thailand) and KSM-Stoker (Denmark) to introduce the technology in Thailand on a commercial basis. The technology transfer project is supported by DANIDA (Danish International Development Agency) under the Danish Ministry of Foreign Affairs.

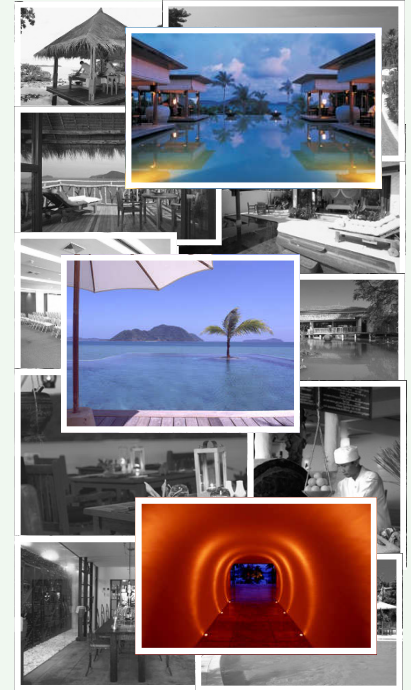
Return on investment for the clean technology is less than 3 years for the USD 115,000 investment. The resort improves their carbon emissions with 300 ton per year.



The Chiller, which create air-condition

Contact Details

Property name: Evason Phuket & Six Senses Spa
Location: Phuket Thailand
Phone number: +66 76 381 010 (up to 7)
Fax number: +66 76 381 018
Contact Person: Environment Officer
Email: soen-phuket@sixsenses.com
Web site: www.sixsenses.com/evason-phuket



EVASON PHUKET

& SIX SENSES SPA

Prepared by Siwapon Laolada
January 2009

