

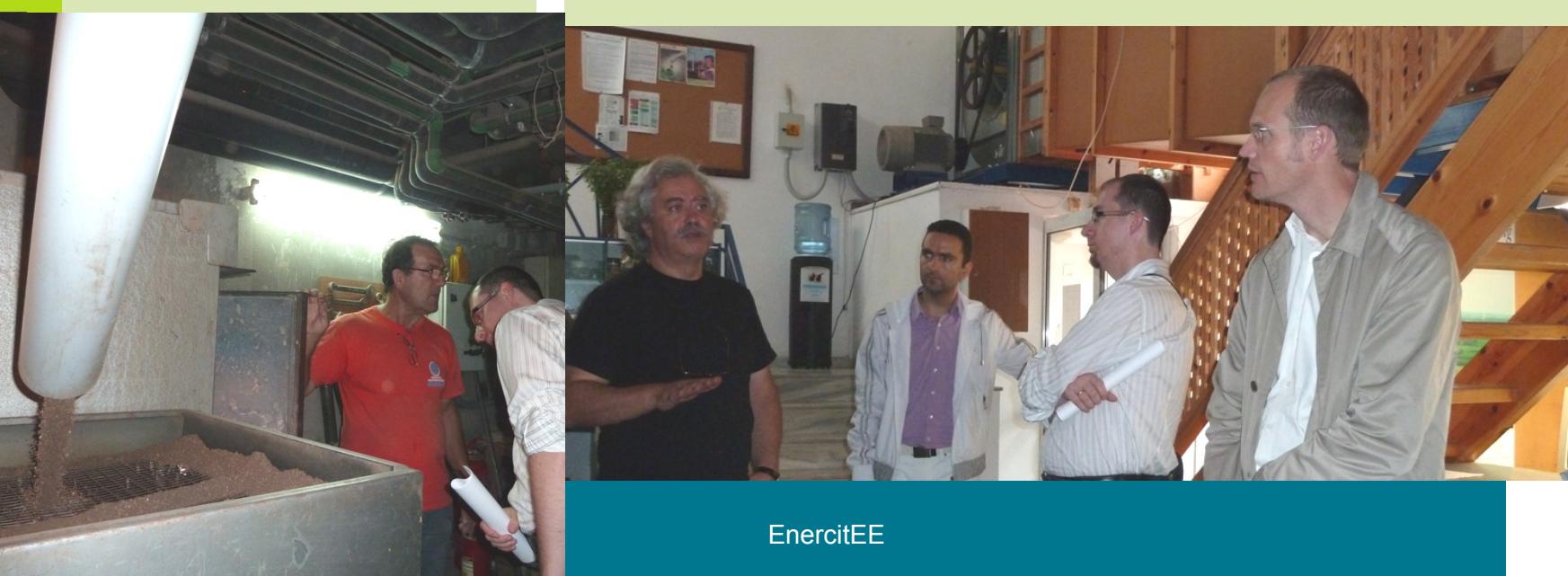
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Good practice from Crete Study visit and training session

ATRION hotel is a good example of personal engagement and interest in innovation. The initial conception of the installation as well as the operation has been adapted to the local conditions.

The biomass burned is provided by the specified local manufacturer who is also in charge of the maintenance of the boilers.

Study visit: biomass heating



IMPRINT

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EnercitEE

European networks, experience and recommendations
helping cities and citizens to become Energy Efficient

Good practice from Crete

STUDY VISIT AND TRAINING SESSION ON BIOMASS AND SOLAR THERMAL SYSTEMS IN HERAKLION, GREECE

The island of Crete is a very popular touristic destination. In the summer months the energy demand is very high. Hotels and other touristic facilities need energy to heat water for showers, kitchen and laundry. Furthermore, cooling of buildings accounts for high electricity consumption at the same time.

The study visit and training session organised by the Region of Crete therefore dealt with the issue of sustainable energy supply for touristic facilities. The use of biomass and solar thermal energy in two RES application on the island were introduced by a presentation and followed by on-site visits.

The first good practice was presented in the Candia Maris hotel and spa resort. Candia Maris is a large luxury hotel and provides extensive wellness facilities. To supply the resort with hot water and cooling the hotel combines the operation of a solar thermal system and a heat exchanger using sea water. These systems provide hot water for space heating, air conditioning and several swimming pools.

A desalination unit provides sweet water from sea water for the hotel and spa facilities. The operating company has used well known technologies but has also taken into account the local conditions as well as the specific needs of the hotel.



Desalination unit for the spa resort

What is EnercitEE?

EnercitEE is a European project that will contribute to the improvement of local and regional policies and provide assistance in the transfer of knowledge on energy efficiency and sustainable transport.

EnercitEE will identify and analyse good practices, foster the exchange of experience and carry out light pilot implementation to increase the level of energy efficiency of local authorities and their citizens as the new target group.

The second good practice could be visited in the ATRION hotel, virtually next door to the meeting's venue.

The ATRION hotel is a 4-star hotel which uses two biomass boilers for the production of hot water. Olive husks are burnt as a local biomass product. The biomass boilers are used all year round and the hotel requires no other system for central heating or for the production of hot water.

Solar thermal system



Solar and geothermal system in the Candia Maris hotel and spa resort

The solar thermal system consists of 1.980 m² of solar panels.

The combination of solar thermal applications, buffer tanks, boilers and geothermal heat pumps covers 80 – 85 % of thermal demand. A quantity of around 88.000t of LPG as fossil fuel can be saved.

Additionally, a Building Management System (BMS) is in operation. The installation of the BMS saves maintenance costs and allows time programming and temperature control. It saves 30 – 35 % of energy.