



Chania - Crete, Greece

## AT THE ENERGY FOREFRONT OF THE EUROPEAN ACCOMMODATION INDUSTRY



*"We feel that sustainable development is going to play a major role in the tourism industry, especially in Greece. Participating in such an initiative our hotel gained the opportunity to follow high environmental standards."*

**Ioannis Bitsakis** - Owner, hotel manager

# Arkadi Hotel

Arkadi, a 3\*\*\* city hotel, lies in the heart of Chania, only 200 meters away from the Old Venetian Harbour. The historic center, the city attractions, shopping and nightlife areas, are all only a short walk away. The hotel, comprising of 2 buildings, features 64 rooms and 114 beds. Built in 1985, it was last renovated in 1999. A large scale energy renovation is ongoing thanks to neZEH.



**\*A nearly Zero-Energy Hotel (neZEH)** is a hotel that has a very high energy performance. The nearly zero or very low amount of energy required should be covered to a very significant extent by energy from renewable sources, including energy from renewable sources produced on-site or nearby.

## ...a hotel engaged to becoming neZEH

The hotel management is committed to reduce the hotel's carbon footprint acknowledging the associated benefits not only for the business, but also for its guests. Therefore, we undertook recently a number of actions to increase the energy efficiency of the hotel.

Our latest ambitious target is to become a nearly Zero Energy Hotel, by implementing the energy efficiency measures proposed by the neZEH energy renovation technical study. This means that we can dramatically **reduce our energy consumption by 70%** and **cover our energy use by 50% with energy from renewable energy sources**. We also take action to engage our guests, make them aware of our vision and let them know how they can be part of this.

### Help us save energy by...

- Turning-off the air-conditioning and switching off all lights when leaving your room
- Avoiding "sleep mode" for televisions
- Closing windows and doors when the cooling system is on
- Keeping a reasonable temperature setting in your room (25 °C recommended for summer, 21 °C for winter)
- Not leaving water run continuously
- Informing cleaning staff you are willing to keep your towels for more than one day
- Informing staff in case of water leaks



# Measures towards nearly Zero Energy

To become a neZEH, Arkadi Hotel has engaged in a long term process, involving several measures, some of which have already been implemented:

- Installation of central heat pumps for heating, cooling and hot water and subsequent abolition of fossil fuel burner
- Installation of photovoltaic panels to cover electricity demand
- Façade insulation and shading to improve indoor environment comfort
- Installation of ceiling fans, movement sensors in the corridors and shared WC, and sensors in patio doors for turning off air-conditioning when door is open
- Installation of double glazing windows
- Installation of automatic system for optimal production, management and distribution of hot water which coordinates the electricity with solar energy
- Replacement of fan coil units with autonomous air conditioning units for the cooling and heating of the rooms
- Installation of ballasts and power capacitor for improving the quality of the electrical voltage
- Installation of key-card system in the guest rooms
- Replacement of incandescent light bulbs with CFL or LED





## Benefits for our guests



- Indoor environmental quality in the guests' rooms is improved, thanks to the thermal insulation of the building and the double glazing windows. Improved acoustic insulation is also an added benefit!
- Air-tightness ensures that outdoor pollutants stay out of the building.
- Hot water is always available, thanks to the automatic system which coordinates the electricity and solar energy.
- Our guests enjoy a green stay with reduced carbon footprint!

## Benefits for the environment



Once the neZEH renovation is completed, our hotel will have made a lot of progress in saving energy, natural resources and fighting climate change!



**419.000 kWh of energy saved per year**



**107 tCO<sub>2</sub>eq/year of greenhouse gas emissions avoided**



**142.000 kWh of energy from renewable sources produced per year**

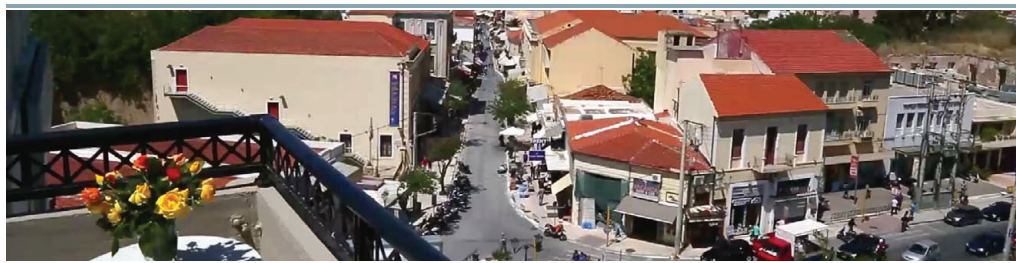


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Find us on



Through the European Initiative nearly Zero Energy Hotels (neZEH) the hotel gained access to technical expertise and received an energy audit recommending technical solutions, feasibility study for decision making and training for managers and staff towards becoming a neZEH.

[www.nezeh.eu](http://www.nezeh.eu)



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