

## 1. Napa Mermaid Hotel & Suites



Located in Ayia Napa, Famagusta District  
**4-star hotel**



### Climate protection measures implemented

- Replacement of approximately 90% of the hotel's conventional bulbs & spotlights with LED.
- Installation of autonomous PV system in 2012 with a capacity of 14kW. It is intended for the operation of 3 swimming pool pumps.
- In 2018, 80 solar thermal panels on the hotel roof were replaced by new ones. The hot water produced from these panels covers a significant proportion of the hotel needs.
- Replacement of the diesel fired boiler with a wood pellet boiler of 90% energy efficiency and 180 kW heating capacity.
- Hotel staff and clients participate in Recycling campaigns/ programs every year ("Let's do it Cyprus", "Let's Recycle Together").
- Thermal insulation was installed in 20% of the hotel rooms.
- Food and garden waste composting.
- Significant reduction of plastic straws use: The use of plastic straws has been reduced from 77.750 in 2017 (8 months of operation) to 67.250 in 2018 (11 months of operation).

## 2. Faros Hotel



Located in Ayia Napa, Famagusta District  
**4-star hotel**



### Climate protection measures implemented

- Replacement of approximately 98% of the hotel's conventional bulbs & spotlights with LED.
- In 2018, 60 solar thermal panels were installed on the hotel roof, covering a significant proportion of the hotel needs for hot water. Along with the installation of these panels, the chiller was replaced by a VRF system, which was combined with a hydrofree system. HydroFree, combined with a 3-pipe Set Free Sigma VRF system, offers the possibility to have free hot water production by recovering energy produced by the air conditioning system. The entire hotel needs for hot water are covered by the solar panels and the hydrofree system. The oil-fired boiler is no longer in use.
- During the period 2014-2019 all single glazed thermopanes were replaced with double glazed thermopanes.
- Building Management System (BMS) and KNX system were installed to automatically control the electromechanical equipment and the lighting, respectively.
- Environment Keeper Silver Award in 2018 and Environment Keeper Gold Award in 2019



### 3. Amavi Hotel



Located in Paphos District  
**5-star hotel**



#### Climate protection measures implemented

- Amavi has set its sights on becoming the first hotel in Cyprus to receive the EU Tourist Ecolabel.
- Amavi hotel is classified as high energy efficiency building with a class A Energy Performance Certificate (EPC).
- Installation of indoor shading that opens and closes automatically to control the room temperature.
- All rooms were equipped with occupancy sensors determining human presence in a room in order to control the room electrical equipment.
- BMS and KNX system were installed to automatically control the electromechanical equipment and the lighting, respectively.
- Installation of a six-pipe simultaneous chiller that covers the hotels needs for space cooling and heating, producing at the same time domestic hot water with no additional energy consumption.

#### 4. Aliathon Resort



Located in Paphos District  
**4-star hotel**

#### Climate protection measures implemented



- 361 solar panels were installed on the roof of the hotel, satisfying a significant proportion of the hotel needs (domestic hot water and laundry).
- All rooms were equipped with occupancy sensors determining human presence in a room in order to control the room electrical equipment.
- Thermal insulation was installed in 60% of the hotel envelope.
- Installation of voltage optimization system, which optimises the incoming voltage by a set amount in order to match electrical equipment requirements on-site providing energy consumption savings.
- Replacement of approximately 95% of the hotel's conventional bulbs & spotlights with LED.
- 17 kW autonomous PV system was installed in 2011 to cover the consumption of 11 swimming pool pumps.
- 20 kW of PV system was installed in 2016 under the net-metering scheme.
- 100 kW of PV system was installed in 2015 under the self-consumption/net-billing scheme.
- Use of water-saving devices that reduce daily water consumption through flow-restrictors and infrared detectors.
- Installation of E-cube in large walk-in refrigerators.
- Use of electric bikes for the staff within the hotel.



On behalf of:



of the Federal Republic of Germany

