

CESME

PORTO CARAS RESORT

Presented by Development Agency of Eastern Thessaloniki's Local Authorities, ANATOLIKI s.a.

Point of contact

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Brief Description of Good Practice

Porto Caras is a resort in Halkidiki Greece, eight times awarded by Conde Nast Traveller. Porto Carras features two 5 star Hotels, a world-class Villa, a luxurious Casino and two Thalassotherapy & Spa Centers. Furthermore, an international-standard 18-hole golf course, a Conference Hall, a Horse Riding Academy, a Tennis Club with 9 courts, a Diving Center, a Nautical Club. The resort also features 3 helipads, 2 waterways and a 315- berth Marina.

Porto Caras has been awarded with the Green Key Eco Label.

Circular economy practises already applied by the hotel management are the following:

1. Recycling wastewater to cover the golf course' irrigational needs.

The resort uses a tertiary biological waste treatment plant (UV-Chlorination). The treated water is transferred to 3 reservoirs with total capacity 40.000 m³ and then the treated water is used to cover the irrigation needs of the golf course. This practice is in line with the provision for combating water scarcity, as mentioned in EU Action Plan for Circular Economy.

2. Sustainable use of sewage sludge in agriculture

Porto Caras also has the largest organic vineyard in Greece, which covers 475 ha. In its tertiary biological waste treatment plant, the sewage sludge passes from a filter press and then is sorted and dried, in order to be used as an organic fertiliser for the vineyards, as long as quality standards allow for it.

Problems/challenges and how they were overcome

The specific waste treatment plant treats the 80% of phosphates and nitrates. The remaining



percentage of nitrates and phosphates (20%), which is overlaid in the bottom of the reservoirs, creates the eutrophication phenomenon. The eutrophication is evident from the bright green water, caused by a dense bloom of cyanobacteria. In the event that eutrophication appears in the reservoirs, the water has to be discharged and the sewage sludge must be removed. This phenomenon appears approximately every 5 years.

Impact from Good Practice

Resource efficiency

Environmental Protection

Lessons learnt from the Good Practice

Recommendation you want to stand

For more information

<http://www.portocarras.com/resort/environment.html>