



CASE STUDY (043-M-En) **Municipality, Greece**

**Seawater Desalination Unit
Producing 300 m³/d of Potable
Water**

LOCATION

Municipality Island in Minor Cyclades

PROJECT DELIVERY DATE

October 2018

PROJECT COMPLETION TIME

3 months

PROJECT DESCRIPTION

Seawater Desalination Unit producing 300 m³/d of drinking water, installed in a building, under the framework of the 2014-2020 South Aegean Sea Operational Programme.

SUMMARY

While an energy-autonomous floating seawater desalination unit producing 70 m³/d was installed in 2007, this was soon decommissioned, with the island being afterwards supplied through water tankers. The unit was installed in a covered area exceeding 100 m², specially designed in order to blend in with the natural environment, since Iraklia Island is a designated Natura 2000 area.

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PROBLEM /CHALLENGE

The Problem:

- The island lacked a water distribution network, with water supplies through water tankers (only covering a part of the total needs).
- The cost of drinking water was 12€/m³, putting a financial burden on the national economy
- A definitive solution to the water supply problem of the Island had to be given

The Challenge:

- To deliver a fully operational unit as soon as possible in order to put an end to water supply through water tankers.
- To reduce the cost of drinking water to less than 1€/m³
- To ensure a sufficient, continuous and uninterrupted supply of drinking water to all homes and businesses.
- To provide drinking water during the tourist season, to residents and tourists alike.
- To save financial resources for the national economy through reducing the costly dependence on water tankers.
- To improve quality of life for the island's inhabitants and tourists.

THE SOLUTION

Due to the difficulty in accessing the island, the unit is remotely monitored. In order to address the issue of prompt intervention, a local inhabitant was trained by TEMAK in monitoring the operation of the unit.

THE RESULT

Definitive solution for water provision to the island

Since 1980, TEMAK has been at the side of local communities covering their needs with reliability and consistency, having a full range of certified water treatment products.

Thanks to the systems manufacture in Greece and the high expertise of its specialized staff, TEMAK is able to offer total water treatment solutions, from study and design to manufacture and installation of required systems.

The 750.000 m³/day of clean potable water or water for general uses, produced daily from TEMAK's installed systems in Greece and 26 abroad countries, constitute the proof of our experience and know-how in water treatment.