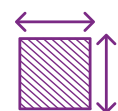


THE AREA



1985 Km²

Total surface area



54282

Inhabitants



31 600 m³/ημέρα

Treatment plant capacity

In Ammochostos (Famagusta) district, Cyprus, including Paralimni and Agia Napa, a recently upgraded WWTP operated by the Paralimni Sewerage Board reclaims water for irrigation in hotels, crops, and public spaces. The treatment process includes biological treatment, sand filtration, and chlorination for disinfection.

PARTNERS INVOLVED



National
Technical
University of
Athens

EOAA

ABOUT AWARD

A consortium of 16 partners across 7 countries coordinated by OiEau.



DEMO CASE #3 CONTACT

- **Demo Case #3**
DC3-award@oieau.fr
- **Project coordination**
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GET IN TOUCH



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Funded by
the European Union

The project has received funding from the European Union's under Horizon Europe programme under grant agreement n  101136987



AWARD

Alternative Water Resources and
Deliberation processes to renew
water supply strategic planning

DEMO CASE # 3

CYPRUS



Cyprus

Demo Case 3 in Ammochostos, Cyprus, optimizes water reuse in Paralimni and Agia Napa to combat water scarcity and enhance reclaimed water quality. The upgraded WWTP targets reduced algal growth, lower energy use, and Class A reclaimed water for unrestricted irrigation.



EXPECTATIONS FROM AWARD SOLUTION

- Implement **water reuse solutions** to address water scarcity to climate change
- Alleviate the problems associated with **storing recycled water** and minimize the problem of **algae proliferation** in these storage tanks
- Optimization of the operation of the WWTP and tertiary treatment unit
- **Decrease the energy** consumption of the bioreactors
- **Increase the acceptance level** of reclaimed water for agricultural and urban/peri-urban use

KEY STAKEHOLDERS


Department of Water Development
(Ministry of Agriculture, Rural Development and Environment)

Municipality of Paralimni, Municipality of Agia Napa,
Other municipalities

Water and Sewerage Boards
(Nicosia, Limassol, Limassol, Paphos, Larnaca, Paralimni-Agia Napa)

End Users (Farmers and hotel businesses)

CHALLENGES AND SOLUTIONS




What are the climatic challenges faced by the area?

- **Water scarcity**
- **High seasonal water demands**
- **Low precipitation**



What are our AWR solutions for these challenges?

- Advanced **wastewater treatment** operation producing class A **reclaimed water**
- High quality reclaimed water for **irrigation of agricultural cultivations, public and hotels' green spaces and sports' courts**



Objective

Optimization of the operation of the WWTP and tertiary treatment unit.

Minimizing the algal growth within the storage tanks.

Decrease the energy consumption of the bioreactors.



Planning upscaling of AWRs

Review the **integration of AWRs** with regional **water planning**, considering conventional sources and **reclaimed** or **desalinated water**.

This methodology is replicable in other **Mediterranean WWTPs**.



Eleni NYKTARI
NTUA

The demonstration case in Cyprus will develop an advanced wastewater treatment technology operation, where we will integrate digital quality monitoring, but also energy consumption monitoring.

