

Non Conventional Water Resources Program in the Mediterranean

A practical contribution towards water security and climate change adaptation at local level

summary

The majority of the Mediterranean islands encounter water scarcity challenges due to their small catchment areas, the impacts of emerging climate variability and change, as well as human pressures. In this context, the mobilization of Non Conventional Water Resources (NCWR), such as rainwater and stormwater harvesting, greywater as well as treated wastewater reuse, is crucial for local water security, climate change adaptation and sustainable development.

The **NCWR Program in the Mediterranean** is a multi-stakeholder initiative in Greece (GR), Malta (MT), Cyprus (CY) and Italy (IT), bringing together a **regional organization (Global Water Partnership-Mediterranean (GWP-Med))** with actors from the private sector [the **"Mission Water"** Environmental Program in Greece, the **Coca-Cola System** in Malta, Cyprus, and Italy and **The Coca-Cola Foundation**] as partners and primary donors, the public sector [Municipalities in the Greek Islands; Ministry for Gozo and ecoGozo project, and Ministry for Energy & Health and the Sustainable Energy & Water Conservation Unit in Malta; Ministry of Education in Cyprus], as well as non governmental civil society organizations [Mediterranean Information Office for Environment, Culture and Sustainable Development; Nature Trust Malta]. The NCWR Program, first launched in Greece in 2008, uses a holistic approach towards NCWR management, focusing on infrastructure works, education and training, awareness raising and policy dialogue.

aim

The NCWR Program aims at advancing the use of NCWR, mainly rainwater harvesting and greywater reuse, improved by innovative techniques and methods, in water scarce communities in Mediterranean islands and insular countries, as a cost-effective method for water availability and climate change adaptation at local level.

To educate students and teachers on NCWR and increase awareness on sustainable water use.

To demonstrate smart, innovative & cost effective NCWR solutions.

To enhance local technical expertise on the application of modern NCWR systems and materials.

+ o b j e c t i v e s

To promote knowledge and sharing of experiences for further replication.

To promote multi-stakeholder partnerships with shared values to contribute to local water security.

activities

1 GREEN INFRASTRUCTURE WORKS in selected public buildings & areas for the demonstration of innovative NCWR technologies, focusing on rainwater harvesting, stormwater management & greywater recycling.

2 EDUCATION FOR SUSTAINABLE DEVELOPMENT & TRAINING Students' hands-on activities and teacher trainings in cooperation with the Ministries of Education in the countries, using country-specific educational materials developed for the Program (educational packages, video games, posters, etc.).

TRAINING FOR LOCAL TECHNICIANS to increase local know-how on NCWR technologies, installation, retrofitting and maintenance.

3 AWARENESS RAISING at local, national and regional level on NCWR, sustainable water use & conservation.

CAPACITY BUILDING for local authorities on NCWR management.

POLICY DIALOGUE at national and regional level.



outputs & outcomes

Implementation of more than
75 site-specific NCWR applications
in **31** water scarce insular communities

Total Beneficiaries
in insular communities:
95,000

Contribution to the
National Water Management Plan
for the **Maltese Islands** (2015) and the local
and regional sustainable development strategies (Eco-Gozo)

Educational activities
for more than **11,000** students
and **2,000** teachers

250
local technicians
trained

Capacity building
workshops
at local, national and regional level

lessons learned

- ✓ The contribution of NCWR to the water budget can be integrated in the national water resources planning
- ✓ Involving local authorities increases ownership & ensures sustainability
- ✓ Awareness raising and education creates a new water culture
- ✓ Experience and knowledge gained allows further replication in the Mediterranean and beyond.
- ✓ Multi-stakeholder partnerships with shared values can promote local NCWR initiatives

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