

NCWR

NON CONVENTIONAL WATER RESOURCES
- PROGRAMME IN THE MEDITERRANEAN -

108 SITE SPECIFIC APPLICATIONS
38 WATER SCARCE INSULAR & COASTAL COMMUNITIES
4 COUNTRIES

ITALY

GREECE

MALTA

CYPRUS

630,000,000 Water saved annually (L)
280,000 Beneficiaries
35,000 Students
5,200 Teachers
320 Technicians
20 Farmers

10 YEARS

LESSONS LEARNED

I NCWR can contribute to local water security and climate change adaptation.

II Raising awareness among stakeholders and citizens is pivotal to create a new water culture for sustainable water use.

III Multi-stakeholder partnerships, including with the private sector, are key to advance the use of NCWR in water management at local & national level.

ABOUT

The *Non-Conventional Water Resources (NCWR) Programme in the Mediterranean* is a multi-stakeholder Programme initiated in 2008 by GWP-Med in partnership with local and national authorities in Greece, Malta, Cyprus and Italy and the Coca-Cola System in the countries. The Programme is primarily funded by The Coca-Cola Foundation.



THE BACKGROUND

Water management in the Mediterranean entails continuing challenges - like water scarcity - which are further augmented by population growth, development pressures and climate change uncertainties. The Mediterranean is among the most arid regions in the world; and its countries struggle to address the challenges and secure water for all uses.

Non Conventional Water Resources (NCWR) are increasingly utilised by several countries in the region, offering opportunities to secure additional water sources, particularly when fresh water sources are scarce. Particularly in the islands, with limited fresh water resources, NCWR are critical to bridge the water budget deficit.

Main NCWR management practices include harvesting rainwater, collecting stormwater and reusing treated greywater and wastewater, as well as desalinating brackish or seawater. These constitute solutions for water availability and climate change adaptation at local level and opportunities to engage youth in green/blue jobs and entrepreneurship.

The *NCWR Programme in the Mediterranean* was developed by GWP-Med in 2008, aiming to advance the use of rain-, storm- and greywater, as a sustainable, cost-effective way to enhance water availability and adapt to climate change. In parallel, the Programme builds the capacity of local authorities to manage NCWR and of technical people to apply relevant technologies, and raises awareness on responsible water use among the educational community and the wider public, promoting a new water culture.

THE OBJECTIVES

The Programme has a holistic approach towards NCWR management, aiming to:

- Promote the use of NCWR, especially rainwater harvesting and greywater recycling, through demo applications, and improve water efficiency, as sustainable practices for water availability and climate change adaptation at local level
- Cultivate a new water culture, advancing the use of NCWR and sustainable water use among targeted stakeholders and the general public, through education, training, capacity building and awareness raising
- Share knowledge and experiences on NCWR management, as a good practice with replication potential in water scarce areas in the Mediterranean region and beyond.

ACTIVITIES

WORKS

Demonstration of NCWR and efficient water use applications in selected public buildings and areas, including:

- Rainwater harvesting and reuse
- Greywater recycling
- Storm water management
- Green /blue infrastructure
- Information and Communication Technology (ICT) for sustainable irrigation
- Water efficiency measures, including optimization of existing water infrastructure

EDUCATION

- Development of educational material on NCWR and sustainable water use
- Educational hands-on activities in schools to educate students on NCWR and sustainable water use
- Teacher trainings

CAPACITY BUILDING & TRAINING

- Capacity building workshops for local and national stakeholders on NCWR
- Training for local technicians on the application of modern NCWR systems and materials
- Development of a technical guide on NCWR technologies
- Capacity building for farmers on sustainable water use in agriculture

AWARENESS RAISING & DISSEMINATION

- Awareness raising on the use of NCWR at domestic and community level, sustainable water uses and saving
- Awareness raising on sustainable irrigation for farmers
- Knowledge transfer and experience sharing with other water scarce regions, constituting a paradigm of integrated approach to NCWR management
- Presentation of the Programme at local, national and global fora and distinction as the 2nd World Water Showcase with replications potential across the globe at the 7th World Water Forum, April 2015, S.Korea

NATIONAL & REGIONAL DIALOGUE

- Experience sharing to advance the NCWR management in the Mediterranean countries and beyond
- Knowledge transfer on best NCWR practices and their replication and upscaling potential