

Advancing
Non Conventional
Water Resources
Management
in the Mediterranean
athens 14-15.09.2011



Organized by



MINISTRY OF
ENVIRONMENT,
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Secretariat of the Union for the Mediterranean
Secrétariat de l'Union pour la Méditerranée



Global Water
Partnership
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Regional Conference on Advancing Non-Conventional Water Resources Management in the Mediterranean

14-15 September 2011
Hilton Hotel, Athens, Greece





NOTE

Background

Access to adequate quality water, in sufficient quantity, is fundamental for sustainable livelihoods and for economic development. Water resources are heavily exploited in most countries of the Mediterranean region. With rapid population growth, environmental degradation and climate change impacts, it is no longer possible to satisfy water demand by simply attempting to increase water supply.

Therefore, **an integrated approach for water resources management**, based on good governance, inter-sectorial coordination, water demand management, and the sustainable use of non-conventional water resources, is absolutely vital if countries are to ensure that enough water is available to all Mediterranean citizens, economic activities and the environment. In the framework of the Barcelona Convention, the regional objective for water saving of 25% by 2025 was adopted in 2009 by the participating countries, taking 2005 as reference year.

Mobilising **non-conventional water resources** can provide adequate solutions where projected levels of water savings (following a realistic and integrated planning based on sustainable management) prove hard to achieve and can substantially assist in bridging the gap between supply and demand. The use of non-conventional waters is already applied in many countries of the region, primarily through reuse of treated and untreated waste water including recycling of agricultural run-off, rainwater harvesting and desalination. Other techniques contemplated by Mediterranean countries include inter-basin transfers, exploitation of undersea freshwater springs, cloud seeding, etc. These techniques present various degrees of efficiency, sustainability and potential for further development.

Particularly in the Mediterranean south, Egypt, Syria, Israel, Jordan and Tunisia figure among the 20 countries in the world with the largest volumes of wastewater, treated and untreated, used for irrigation (*source: World Bank, 2010*). However, most countries of the region are far from reaching the potential of non-conventional water resources.

Nevertheless, there is a set of policy, institutional, legal, technical, social, environmental and economic constraints that pose **impediments** for fully developing non-conventional water resources in a sustainable manner. Among others, an unofficial and uncontrolled use of insufficiently treated or even totally untreated wastewater is taking place in some Mediterranean countries, resulting in risks to users and the environment. Policy, legal and institutional frameworks are often missing to stimulate concrete action. Similar are obstacles that could encourage related investment by the private sector assisting to catch up with rapidly growing demand and emerging needs.

Among other key political documents, the draft Strategy for Water in the Mediterranean (SWM) that was elaborated in 2010 in the framework of the Union for the Mediterranean (UfM) set as Objective to *“Develop additional water resources volumes once demand side policies and planning options for water saving have proven to be insufficient, using a sound mix of conventional and alternative resources (e.g. water storage systems, reused water, and desalination). The choice and the priority between these provided possibilities should prove to be health-safe and environment-friendly, depending mainly on financial cost, energy consumption, social acceptance and political aspects.”*

Furthermore, draft SWM's Recommendations for Action include to

- “Develop and implement prioritized programmes for introducing adequate wastewater treatment. Establish minimum quality requirements for wastewater treatment plant effluents and secure adequate treatment of wastewaters to avoid downstream pollution.”



- “Assess the opportunities and the risks for using non-conventional water resources. Propose legal frameworks and define adequate thresholds and quality standards for each kind of treated wastewater reuse. Promote research for the use of low-cost and low maintenance non-conventional wastewater treatment techniques that meet established quality standards, especially useful for rural and peri-urban areas, with easy operability and low qualified-personnel requirements.”
- “Promote the most efficient and adequate non-conventional technology according to the corresponding use, energy and demand assessment (e.g. desalination, wastewater production, rainwater harvesting, aquifer recharge, etc) preceded by Strategic Environmental Assessment, Environmental Impact Assessment or other internationally recognized sustainability assessments.”
- “Identify the appropriate scale for the domains where technology and knowledge are needed and available, and avoid duplicating efforts when building water demand strategies. Exchange knowledge and practices and ensure qualified transfer of pilot experiences on emerging issues.”
- “Where not already applied, secure gradual convergence between the objectives of water quality improvement and water scarcity mitigation targets set and initiatives being undertaken in the context of regional fora such as those under the Barcelona Convention, the EU Water Framework Directive and other EU water-related Directives as well as the EU Marine Strategy Framework Directive, the Euro-Mediterranean Process and the Arab League initiatives.”

The importance of a wide and meaningful participation of water stakeholders (including governments, local authorities, water users associations, civil society, academia, private sector, media, etc) in advancing the non-conventional water resources management agenda is evident. Among them, the participation of the private sector, as user and thus bound to achieve considerable water savings and producer of water that can be reused as well as investor and corporate social responsibility partner, is also important and needs to be explored and sustainably developed.

Objectives of the Conference

The Regional Conference on Advancing Non-Conventional Water Resources Management in the Mediterranean, 14-15 September 2011, Athens, Greece, aims:

- To provide a platform for multi-stakeholder dialogue on priorities and needed synergies for advancing non-conventional water resources management in the Mediterranean, including within the political frameworks of the European Neighborhood Policy, the Union for the Mediterranean, the Barcelona Convention, the League of Arab States, etc.
- To elaborate in particular on the role of the private sector in advancing the agenda of non-conventional water resources.
- To share best practices and lessons learned from local applications in the Mediterranean region.
- To brainstorm on ideas for regional, sub-regional or trans-national projects in NCWR in the Mediterranean.
- To discuss ways to enhance awareness raising, stakeholders' involvement and pilot application, including through corporate social responsibility programmes.

The Conference contributes as:

- replication event of the GEF Strategic Partnership for the Mediterranean Large Marine Ecosystems (GEF MedPartnership).
- regional consultation event within the preparations of the 6th World Water Forum, Marseilles, March 2012.
- outreach event of the ‘Mission Water’ Corporate Social Responsibility Programme of Coca-Cola HBC Greece and Coca-Cola Hellas.



Organisation

The Conference *is organized by* the Hellenic Ministry for Environment, Energy and Climate Change, the Secretariat of the Union for the Mediterranean, the Global Water Partnership - Mediterranean and the System of Coca-Cola in Greece (Coca-Cola HBC Greece and Coca-Cola Hellas) with the environmental program 'Mission Water'.

The Conference *is part of* the activities of the Mediterranean Component of the EU Water Initiative (MED EUWI), a regional process to promote IWRM in the Mediterranean and assist reaching internationally agreed water targets in the region while promoting the draft SWM. The Conference is also part of the GEF MedPartnership, a collective effort of leading organizations and countries towards the protection of the Mediterranean marine and coastal environment. MED EUWI and GEF MedPartnership work in synergy for achieving their objectives. The Laboratory of Environmental Chemistry of the University of Athens also contributed to the scientific background of the Conference.

Participants

A targeted audience by governments, regional institutions and organizations, local authorities, water user associations, NGOs, academia, private sector, and media.

Draft Agenda - Outline

The Conference includes the following Sessions:

Session 1. Welcome and Introductory Speeches
[statements by organizers and officials]

Session 2. Setting the scene: Non-Conventional Water Resources Management (NCWRM) in the Mediterranean
[key note presentation with Q/A]

Session 3. How to build appropriate Institutional Settings and Legal Instruments for NCWRM?
[facilitated panel discussion and interventions from participants]

Session 4. How to effectively Engage the Stakeholders and Build Capacity for NCWRM?
[facilitated panel discussion and interventions from participants]

Session 5. What is the role of Corporate Social Responsibility for advancing NCWRM?
[presentations with Q/A]

Session 6. Learning from Experiences: Best Practices and Case Studies
[presentations with Q/A]

Session 7. Financing NCWRM in the Mediterranean
[facilitated panel discussion and interventions from participants]

Session 8. Priorities for Action on NCWRM in the Mediterranean: Brainstorming on regional, sub-regional or trans-national project ideas
[facilitated open discussion]

Session 9. Conclusions and Closure of the Conference
[statements by organizers and officials]



AGENDA

Day 1: 14 September 2011

Registrations

09.00-09.30

Session 1. Welcome and Introductory Speeches

09.30-10.30

Welcome remarks

- Prof. Michael Scoullos, Chairman, Global Water Partnership-Mediterranean (GWP-Med) (Conference Reporter)
- Mr. Vassilios Lolos, Director, Public Affairs & Corporate Communication, Coca-Cola HBC Greece

Opening

- Dr. Rafiq Hussein, Deputy Secretary General for Environment and Water, Union for the Mediterranean (UfM)
- Ms. Maria Luiza Silva Mejias, Executive Secretary and Coordinator, Mediterranean Action Plan / United Nations Environment Programme (MAP UNEP)
- Ms. Liselotte Isaksson, Head of Sector for Environment, Climate Change, Energy and Transport, EuropeAid F4-Regional Programmes Neighbourhood South, DG Development and Cooperation, European Commission
- Prof. Andreas Andreadakis, Special Secretary, Special Secretariat for Water, Ministry for Environment, Energy and Climate Change, Greece

Session 2. Setting the scene: Non-Conventional Water Resources Management (NCWRM) in the Mediterranean

10.30-11.00

Chair: Ms. Maria Peppas, Head, Department of International Relations and EU Affairs, Ministry for Environment, Energy and Climate Change, Greece

Key note presentation on NCWRM in the Mediterranean

- Mr. Koussai Quteishat, NCWRM Regional Expert

Questions & Answers

Coffee Break

11.00-11.30

Session 3. How to build appropriate Institutional Settings and Legal Instruments for NCWRM?

11.30 -13.30

Co-Chair: Prof. Kostas Kartalis, President, Standing Committee for the Environment, Hellenic Parliament

Co-Chair: Dr. Fethi Lebdi, Water Director, Ministry of Agriculture and Environment, Tunisia

Discussion Panel:

- Mr. Messaoud Terra, Water Director, Ministry of Water Resources, Algeria
- Mr. Ziad Darwish Taqash, Director, Human Resources Department, Ministry of Water and Irrigation, Jordan
- Ms. Mona Fakhri, Water Director, Ministry of Energy and Water, Lebanon
- Ms. Halima Zouggar, Secretariat of State in Charge of Water and Environment -Directory of Water Research and Planning, Morocco
- Mr. Fuad Bateh, Senior Advisor, Division of Environment and Water, Union for the Mediterranean (UfM)

Lunch Break

13.30 - 14.30

Session 4. How to effectively Engage the Stakeholders and Build their Capacity for NCWRM ?

14.30-16.30

Co-Chair: Mr. Ivica Trumbic, Programme Manager, GEF Strategic Partnership for the Mediterranean Large Marine Ecosystems (MedPartnership)

Co-Chair: Dr. Emad Adly, Arab Network for Environment and Development (RAED)



Discussion Panel:

- Ms. Anastasia Roniotes, *Head Officer, Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE)*
- Mr. David Hernandez, *Euro-Mediterranean Irrigators Communities (EIC)*
- Mr. Nejib Benessaïah, *Coordinator, MedWet (Ramsar Convention)*
- Mr. Gidon Bromberg, *Friends of the Earth - Middle East*
- Mr. Demetris Karavellas, *Director, World Wide Fund - Hellas*
- Ms. Iro Alampeï, *Mediterranean Education Initiative for Environment & Sustainability (MEIES)*

Coffee Break

16.30 - 17.00

Session 5. What is the role of Corporate Social Responsibility for advancing NCWRM ?

17.00 - 18.00

Co-Chair: Mr. John Papadopoulos, Real News

Co-Chair: Mr. Spyros Kouvelis, Member of the Hellenic Parliament, former Deputy Minister of Foreign Affairs

Discussion Panel:

- Mr. Vassilios Lolas, *Director, Public Affairs & Corporate Communication, Coca-Cola HBC Greece*
- Mr. Panagiotis Karamanos, *Environmental Services Director, Athens International Airport (AIA)*
- Mr. Prokopis Gavriil, *Coordinator, Environment Unit, Piraeus Bank*



Day 2 : 15 September 2011

Session 6. Learning from Experiences: Best Practices and Case Studies

09.00 - 11.00

Co-Chair: Mr. Khaldon Khasman, Executive Director, Arab Countries Water Utilities Association (ACWUA)

Co-Chair: Mr. Giorgos Kanellopoulos, Secretary General, Ministry of Agricultural Development and Food, Greece

- Best practices and experiences in NCWRM in ESCWA region

Ms. Carol Chouchani Cherfane, Chief, Water Resources Section, SDPD, UN Economic and Social Commission for West Asia (UN ESCWA)

- Overview of Wastewater Reuse Activities and Projects in the Southern Mediterranean

Dr. Manzoor Qadir, Marginal Water Specialist, International Center for Agricultural Research in the Dry Areas (ICARDA)

- Experiences on using non-conventional water resources for irrigated agriculture

Prof. Atef Hamdy, Centre International de Hautes Etudes Agronomiques Méditerranéennes (CIHEAM) - IAM Bari

- Experiences on waste water reuse for irrigation in Spain

Dr. Juan Canovas Cuenca, Institut Méditerranéen de l'Eau (IME)

- Experiences on Wastewater Reuse from Tunisia

Mr. Samir Nasr, Director for Wastewater Treatment, Office National de l'Assainissement (ONAS), Tunisia

- Trends in the Development of the Water Sector in Israel

Mr. Oded Fixler, Acting Head, Water Authority of Israel, Ministry of National Infrastructure

- Rainwater Harvesting in the Mediterranean: Experiences from implementation in islands

Ms. Konstantina Toli, Programme Officer, Global Water Partnership - Mediterranean

Coffee Break

11.00 - 11.30

Session 6 (cont). Learning from Experiences: Best Practices and Case Studies

11.30 - 13.30

Co-Chair: Ms Maria Logotheti, Special Secretary for the Development of International Programs, Ministry of Foreign Affairs, Greece

Co-Chair: Mr. Aristomenis M. Syngros, Executive Chairman, Invest in Greece Agency, Ministry of Development, Competitiveness and Shipping

- NCWR: The EU Policy Framework and Experience

Mr. Michalis Papadoyannakis, DG Environment, European Commission

- Safe water re-use and environmentally sound desalination in the Mediterranean: the activities of the UNEP/MAP MED POL Programme as a contribution to adaptation to climate change

Mr. Francesco Saverio Civili, MED POL Programme Coordinator, UNEP/MAP

- Advances in desalination with renewable energy

Prof. Giorgos Papadakis, Agricultural University of Athens

- Towards technology neutral regulations

Mr. Xavier Leflaive, Principal Administrator, Organisation for Economic Cooperation and Development (OECD)

- Facing the seawater intrusion recharging coastal aquifers with regenerated waters

Prof. Ignacio Morell, Univeristat Jaume I, Castellon

- Learning from the groundwater recharge experiences in Southeast Asia (Gujarat, India)

Mr. Frank van Weert, International Groundwater Resources Assessment Centre / UNESCO International Hydrological Programme



- Experiences on Wastewater Reuse from Greece
Prof. Themistoclis Lekkas, President, Athens Water Supply and Sewerage Company (EYDAP SA)

Lunch Break
13.30 - 14.30

Session 7. Financing NCWRM in the Mediterranean
14.30 - 16.30

- Co-Chair: H.E. Dr. Shaddad Attili, Head, Palestinian Water Authority*
Co-Chair: Mr. Efthymios Vidalis, Chairman of SEV Business Council for Sustainable Development-Greece, Vice Chairman of the Hellenic Federation of Enterprises

Discussion Panel:

- *Ms. Maria Diamantopoulou, Director, Department for Regional Policy and Strategic Planning, Hellenic Aid, Ministry of Foreign Affairs, Greece*
- *Mr. Alain Rotbardt, Water and Sanitation Division, Agence Francaise de Developpement (Afd)*
- *Mr. Nicolas Kotschoubey, SustainableMed Programme, World Bank*
- *Mr. Vasilis Nikitas, Project Coordinator, Mediterranean Hot Spots Investment Programme- Project Preparation and Implementation Facility (MeHSIP-PPIF), Horizon 2020 Initiative*
- *Prof. Redouane Choukr-Allah, Arab Water Council (AWC)*
- *Dr. Sarra Touzi, Programme Officer, Global Water Partnership-Mediterranean (GWP-Med)*
- *Dr. Khaled Abu Zeid, Centre for Environment and Development in the Arab Region and Europe (CEDARE)*

Coffee Break
16.30 - 16.45

Session 8. Priorities for Action on NCWRM in the Mediterranean
16.45 - 17.45

- Co-Chairs: - Prof. Aris Alexopoulos, Secretary General, Hellenic Ministry for Environment, Energy and Climate Change*
- Mr. Fuad Bateh, Senior Adviser, Deputy Secretariat General for Environment and Water, Union for the Mediterranean

Facilitated discussion

Rapporteur: Prof. Michael Scoullas, Chairman, Global Water Partnership-Mediterranean

Session 9. Conclusions and Closure of the Conference
17.45-18.00

Short statements by the Co-Organisers





LIST of PARTICIPANTS

Nr	TITLE	NAME	SURNAME	POSITION	AFFILIATION	COUNTRY
1	Mr	Khaled	ABU ZEID	Senior Water Resources Specialist	CEDARE (Centre for Environment and Development in the Arab Region and Europe)	EGYPT
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