



1ST EU-GCC REGIONAL WORKSHOP
ADDRESSING THE ENERGY-WATER NEXUS
THROUGH INTEGRATED APPROACHES & REGIONAL COOPERATION
24 - 25 APRIL 2019
MUSCAT, OMAN

THE NETWORK IS FUNDED BY



THE EVENT IS SUPPORTED BY



AGENDA Wednesday 24 April 2019

08:30-09:00 Registration and Networking

09:00-09:20 Opening Remarks

Eng. Zaher Al Sulaimani, President of the Oman Water Society

H.E. Laetitia van Asch, Ambassador of the Kingdom of the Netherlands in the Sultanate of Oman

Ms Remedios Romeo, Head of the Economic & Trade, Economic & Trade Office Spanish Embassy in Muscat

Dr. Mustapha Taoumi, Energy Technology Expert, EU GCC Clean Energy Technology Network

09:20-09:25 Short break

09:25-10:00 Introductory session: Overview of the Energy - Water Nexus

Moderator: Prof. Vincenzo Naddeo, Director of the Sanitary Environmental Engineering Division (SEED), University of Salerno, Italy. Representative of European Water Association (EWA)

Mr. Omar Saif, Senior Economic & Policy Officer, Embassy of the Kingdom of the Netherlands in the UAE

"Why we need a Water-Energy-Food Nexus Approach in the Gulf Region"

Dr. Jauad El Kharraz, Head of Research, Middle East Desalination Research Center (MEDRC)

"Water-Energy-Food Nexus: Regional efforts of implementation – where are we?"

10:00-10:15 Networking Break

10:15-11:45 Session I: Technology Options for the Energy-Water Nexus including decoupling power from water

Moderator: Dr. Mustapha Taoumi, Energy Technology Expert, EU GCC Clean Energy Technology Network

Keynote speakers:

Prof. Vincenzo Naddeo, Director of the Sanitary Environmental Engineering Division (SEED), University of Salerno, Italy. Representative of European Water Association (EWA)

"On the critical role of the technological innovation in the Water-Energy Nexus to achieve Sustainable Development Goals: novel needs in the water circular economy"

Prof. Abdulaziz Alturbak, Department College of Engineering King Saud University, KSA

"The Water - Energy Nexus in the GCC countries"

Speakers:

Dr. Najib Dandachi, CEO Al Usul Ltd & Senior Expert, EU GCC Clean Energy Technology Network

"Efficient Energy for Water: Technologies and Innovative Operational Opportunities"

Prof. Ahmed Mushtaque Ph.D., College of Agricultural & Marine Sciences, Sultan Qaboos University, Oman

"Green Desalination: Reality or Pipe dream"

Dr. Hassan A. Arafat, Director, Center for Membrane and Advanced Water Technology & Professor of Chemical Engineering, Khalifa University, UAE

"Options for sustainable desalination: A water-energy nexus approach"

Dr. Ali Karnib, Professor, Lebanese University

"Technology-Oriented Approach to Water, Energy and Food Nexus"

Q&A Session

AGENDA Wednesday 24 April 2019

11:45-13:00 Session II: Governance, regulations and integrated approaches including promotion mechanisms

Moderator: Mr. Omar Saif, Senior Economic & Policy Officer, Embassy of the Kingdom of the Netherlands in the UAE

Keynote speaker: Mr. Ziad Khayat, Economic Affairs Officer, Economic and Social Commission for Western Asia (ESCWA)

Speakers:

Dr. Hammou Laamrani, Senior Expert, Water, Energy, Food Security and Climate Change Nexus, Economic Sector, League of Arab States

"Nexus WEF governance: What institutional frameworks could work"

Dr. Slim Zekri, Associate Professor, Head of the Department of Natural Resource Economics, College of Agricultural & Marine Sciences, Sultan Qaboos University

"Domestic Water Governance and Policy"

Mrs. Martine Kubler Mamlouk, High level advisor ENGIE-MESCA&T, Founding Member of GCWDA and member of GCWDA Board

"A blueprint for clean desalination tendering"

Q&A Session

13:00-14:00 Lunch break

14:00-15:30 Session III: Water and energy in the city of the future: the role of technology innovation and smart technologies

Moderator: Eng. Ahmed bin Nasser al Abri, Oman Water Society board member

Keynote speaker: Dr. Mustapha Taoumi, Energy Technology Expert, EU GCC Clean Energy Technology Network

"Building a Smart and Sustainable City: The Energy-Water Nexus"

Speakers:

Mr. Luca Polizzi, Research Policy Officer, European Commission, Directorate General for Research and Innovation

"The Solar-Water nexus, Horizon 2020 international science cooperation opportunities for people wellbeing"

Dr. Ahmed Al Busaidi, Researcher, College of Agricultural & Marine Sciences, Sultan Qaboos University

"Water – Energy Saving with Integrated Approach of Crop Production Using Aquaponics (Smart) System"

Mr. Ap Verheggen, Director of Communications, SunGlacier Technologies B.V.

"SunGlacier: A new and efficient technology to harvest Water from Air"

Mr. Daniël W. Dusseljee MSc, Managing Director, Witteveen+Bos EMEA DMCC

"Design of the Dutch pavilion for Dubai EXPO 2020"

Q&A Session

15:30-16:30 Session IV: Panel discussion on country initiatives and regional cooperation

Moderator: Dr. Hammou Laamrani, Senior Expert, Water, Energy, Food Security and Climate Change Nexus, Economic Sector, League of Arab States

Panelists:

Mr. Omar Saif, Senior Economic & Policy Officer, Embassy of the Kingdom of the Netherlands in the UAE

Mr. Luca Polizzi, Research Policy Officer, European Commission, Directorate General for Research and Innovation

Mr. Ziad Khayat, Economic Affairs Officer, Economic and Social Commission for Western Asia (ESCWA)

Prof. Vincenzo Naddeo, Director of the Sanitary Environmental Engineering Division (SEED), University of Salerno, Italy. Representative of European Water Association (EWA)

Dr. Slim Zekri, Associate Professor, Head of the Department of Natural Resource Economics, College of Agricultural & Marine Sciences, Sultan Qaboos University

Q&A Session

AGENDA Thursday 25 April 2019

08:30-09:00 Registration and Networking

09:00-09:30 Introductory session: Wrap Up of day 1 and objectives of the training

Mr. Omar Saif, Senior Economic & Policy Officer, Embassy of the Kingdom of the Netherlands in the United Arab Emirates

Dr. Mustapha Taoumi, Energy Technology Expert, EU GCC Clean Energy Technology Network

09:30-11:30 Session I: Towards implementing and monitoring water-energy-food nexus approach

Moderator: Dr. Jauad El Kharraz, Head of Research, Middle East Desalination Research Center (MEDRC)

Dr. Najib Dandachi, CEO Al Usul Ltd & Senior Expert, EU GCC Clean Energy Technology Network

"The Power & Water Nexus: GCC Perspective Concept and Practices"

Dr. Ali Karnib, Professor, Lebanese University, Lebanon

"Introduction to qualitative & quantitative Nexus Assessment & modeling"

Dr. Hammou Laamrani, Senior Expert, Water, Energy, Food Security and Climate Change Nexus, Economic Sector, League of Arab States

"Solar Power Irrigation systems : Current status, challenges and opportunities"

Dr. Hassan A. Arafat, Director, Center for Membrane and Advanced Water Technology & Professor of Chemical Engineering, Khalifa University, UAE

"Harnessing Renewable Technology to Reduce the Energy Footprint of Water"

11:30-12:00 Coffee Break

12:00-13:15 Session II: Industry Insights - Various industries offer advanced and efficient technologies propositions with different concepts and innovative solutions

Moderator: Mr. G. André Vreman, Managing Partner, EIN enterprise / Dutch Energy Solutions

Mr. Niels Bos, Partner, Dynaflow Research Group

"Waterhammer Analysis using BOSfluids"

Eng. Michael A. Katz, Managing Director, Deep Sea Solutions LLC

"Deep Ocean Water solutions"

Mr. Robert-Jan Vos MSc, Engineer Sustainable Energy, Strukton International

"The Green house by Strukton: A case study on a circular hospitality building in Utrecht"

Dr Alexandros Stefanakis, Tender Manager – Constructed Wetlands Specialist, Bauer Nimr LLC / Bauer Resources GmbH

"Adapting circular economy in the Oman industry: reuse of oilfield produced water ecologically treated in a Constructed Wetland for biosaline irrigation in the desert"

13:15-13:30 Wrap up & conclusions

13:30-15:00 Networking Lunch