

“The Water-Energy-Nexus: integrated energy and water planning in the WANA region”

Conference in Amman

April 6 / 7 2016

King Hussein Club, Amman (April 6)

Intercontinental Hotel, Amman (April 7)

**Friedrich-Ebert-Stiftung/
Wuppertal Institute/ WANA Institute**

Background

The interrelated risks of energy and water supply ("Water-Energy-Nexus") have become more and more important in the field of environmental and energy-political discussions. Nevertheless, political decision makers, planning institutions and even some parts of the scientific research community are not sharing an integrated thinking yet although several documented interdependencies between the energy and water sector already exist. However, both areas are still mainly analyzed separately.

This aspect holds particularly true for the WANA region, where research in the field of the nexus and political discussions about that topic are still in an early stage. This weakness should be addressed urgently since the region is one of the places in the world that is affected most by the water-energy-nexus issue. Given the growing demand in water and energy (particularly electricity), numerous investment decisions in both areas have to be taken in the near future with for water and energy infrastructure measures typical long-lasting impacts. If they were taken without reflecting the interdependencies between both sectors, it would subsequently lead to sub-optimal solutions or even contradicting strategies. According to studies, the already existing water gap in the region today will increase to almost 200 billion m³ per year in 2050. The additional electricity demand induced by that water demand is currently only considered in very few power scenarios. However, research has shown that this might lead to an additional electricity demand up to 40%. That additional demand opens significant challenges for the region that already has to install high capacities of electricity generation today to satisfy the rapidly increasing electricity demand of around 8% per year.

Objectives of the conference

The conference aims to support stakeholders and decision makers in understanding the complex interdependencies of a sustainable energy and water supply in WANA and to increase the awareness about that topic. In this context, socio-economic and governance related aspects are particularly addressed together with the relevance of a cross-border collaboration.

April 6, 2016

Registration	Venue: King Hussein Club, 1st circle, Amman	09:00-09:30
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Panel I: Introduction

Welcome Note	Richard Probst , Regional Coordinator "Climate and Energy Project" in the MENA region, Friedrich-Ebert-Stiftung Amman (FES)	09:30-09:35
Welcome Note	H. E. Birgitta Maria Siefker-Eberle , German Ambassador to Jordan	09:35-09:45
Welcome Note and Key Note Presentation	The need for an integrated approach for an adequate response to climate change and the Sustainable Development Goals (SDGs) Dr. Manfred Fishedick , Wuppertal Institute for Climate, Environment and Energy (WI)	09:45-10:15
Opening Speech followed by Q&A	H.R.H. Prince El Hassan Bin Talal	10:15-11:00
Discussion	Moderator: Dr. Erica Harper , Executive Director of the West Asia-North Africa Institute (WANA)	
Coffee Break		11:00-11:45

Panel II: International challenges in water and energy planning

Water and energy issues are becoming more important worldwide. The following two panels intend to understand challenges of each sector as well as interactions between water and energy planning. Regions and countries are identified that are suffering from such issues already today and which provide experiences in developing strategies for addressing an integrated water and energy planning.

Presentation	"What are the challenges to integrate water in energy planning?" Dr. Sybille Roehrkasten , Institute for Advanced Sustainability Studies (IASS)	11:45-12:00
Presentation	"Participatory governance of the Water-Energy Nexus" Dr. Nadejda Komendantova , International Institute for Applied Systems Analysis (IIASA)	12:00-12:15
Presentation	"Energy and Water integrated Policy in Korea" Dr. Sung-Sik Moon , Korean Environmental Industry and Technology Institute (KEITI)	12:15-12:30
Presentation	"The nexus approach for integrated SDG implementation in the MENA region" Dr. Holger Hoff , Stockholm Environment Institute (SEI) / Potsdam Institute for Climate Impact Research (PIK)	12:30-12:45
Discussion	Moderator: Malek Kabariti , former Minister of Energy and Natural Resources	12:45-13:30
Lunch		13:30-15:00

Panel III: Water and energy planning in the WANA region – country perspectives

The WANA region is one of the most water scarce regions worldwide. The panel intends to strengthen the awareness about these issues. Current energy and water strategies are presented as well as conflicting objectives between these strategies. The panel furthermore discusses whether programs are already implemented to address such issues through an integrated planning.

Presentation	<p>“The Water-Energy-Food Security Nexus in the Arab Region”</p> <p>Ziad Khayat, United Nations Economic and Social Commission for Western Asia (UN ESCWA)</p>	15:00-15:15
Presentation	<p>“Water-Energy nexus in Morocco; main challenges and political responses - Experiences shared by MENARES” (Morocco)</p> <p>Dr. El Mostafa Jamea, MENARES, Casablanca, Morocco</p>	15:15-15:30
Presentation	<p>“Implementing the Water Energy Nexus in Lebanon”</p> <p>Dr. Nadim Farajalla, American University Beirut (AUB), Lebanon</p>	15:30-15:45
Presentation	<p>“Water-Energy Nexus in Egypt: Experiences from the civil society shared by the Water Institute of the Nile”</p> <p>Lama – al Hatow, Co-Founder of the Water Institute of the Nile, Cairo, Egypt</p>	15:45-16:00
Discussion	<p>Moderator: Dr. Tareq Emtairah, IIIIEE Lund University, former director of RCREEE</p>	16:00-16:45
Wrap up and closing by the organizers	<p>Richard Probst, FES Amman</p> <p>Dr. Erica Harper, WANA Institute</p> <p>Dr. Manfred Fishedick, Wuppertal Institute</p>	16:45-17:00

April 7, 2016

Registration		09:00-09:20
Recap of Day 1	Dr. Manfred Fischedick , Wuppertal Institute for Climate, Environment and Energy (WI)	09:20-09:30

Panel I: The role of governance structures in water and energy sector for achieving sustainable strategies

The sustainable development of Jordan requires an appropriate consideration of experienced water and energy issues. Therefore an integrated planning is needed to consider interactions and prevent conflicting objectives of strategies in both sectors. Relevant stakeholders from Jordan present their experiences with strategies in addressing such issues and which kind of governance issues they experience in formulating integrated strategies.

Presentation	Bringing in experiences from the MEMR H.E. Dr. Jhralib Maabra , Director General of the Ministry of Energy and Mineral Resources (MEMR)	09:30-09:45
Presentation	Bringing in experiences from MOENV H.E. Dr. Taher Al Shakhshir , Ministry for Environment (MOENV)	09:45-10:00
Presentation	Bringing in experiences from MWI H.E. Dr. Hazem Al Naser , Ministry of Water and Irrigation (MWI)	10:00-10:15
Discussion	Moderator: David Jalilvand , FES Berlin	10:15-10:45
Coffee break		10:45-11:15

Panel II: Addressing governance issues to support integrated water-energy strategies

The panel intends to discuss the Jordanian case in detail and whether / how the political level already facilitates a sustainable integrated planning approach, and which kind of structures are needed to address challenges.

Presentation	“Advocating Water-Food-Energy Nexus in Jordanian Communities: an integrated perspective for natural resources use versus sector-specific governance” Dr. Ahmad Abed Al Fattah , Director Al MAKAN, Water Food and Energy Resources Management	11:15-11:30
Presentation	“Viability of a Regional Water Energy Agreement- a perspective from Civil Society” Munqeth Mehyar , Chairman Eco Peace, Jordanian Director	11:30-11:45
Presentation	“The Water-Energy-Nexus-Research in Jordan – a perspective from academia” Dr. Ahmed Al-Salaymeh , Professor Jordan University	11:45-12:00
Discussion	Moderator: Dr. Bernhard Brand , Wuppertal Institute for Climate, Environment and Energy (WI)	12:00-12:45
Wrap up	Richard Probst , FES Amman Dr. Erica Harper , WANA Institute Dr. Manfred Fishedick , Wuppertal Institute	12:45-13:30
Lunch Buffet at Intercontinental		13:30