



Agenda

The National Conference on “Water Energy Nexus”

November 4-5, 2019

Dead Sea-Jordan

Venue:

King Hussein Bin Talal Convention Centre- Hilton Dead Sea



TUHH
Hamburg University of Technology



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Day 1

November 4, 2019

09:00-09:30	Registration of participants and welcoming coffee
Opening Session	
09:30-10:00	<ul style="list-style-type: none"> Welcome Speech by Prof. Ahmed Al-Salaymeh, Chairman of Organizing Committee Welcome by H.E. Prof. Abdel-Karim Al-Qudah, President of The University of Jordan, Welcome by H.E. Ms. Birgitta Siefker-Eberle, The Ambassador of the Federal Republic of Germany Welcome by H.E. Dr. Omar Al-Razzaz, Prime Minister of Jordan
10:00-10:15	Energy status in Jordan: Current challenges and prospective H.E. Eng. Hala Zawati, Minister of Energy and Mineral Resources
10:15-10:30	Water status in Jordan: Current challenges and prospective H.E. Eng. Raed Abu Saud, Minister of Water and Irrigation Ministry
10:30-11:00	Coffee break and Networking
11:00-11:10	Introduction of conference program and expected outcomes, Prof. Ahmed Al-Salaymeh , The University of Jordan
Session 1	
Water-Energy Nexus Opportunities and bridging the gaps	
Chairman: Dr. Iyad Muslih Rapporteur: Eng. Haneen Sa'deh	
11:10-11:30	Water-Energy Nexus Opportunities in Jordan, Intersectoral Cooperation and technological solutions Dr. Louy Qoaidar, The German Agency for International Cooperation (GIZ)



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11:30 – 11:45	<p>Financing the energy-water nexus: Activities, opportunities and obstacles</p> <p>Ms. Hannah Wiese, KfW</p>
11:45-13:15	<p>Panel Discussion on Water-Energy Nexus Opportunities and bridging the gaps</p> <ul style="list-style-type: none"> • H.E. Eng. Ali Subah, SG of MWI/WAJ • H.E. Eng. Amani Al-Azzam, SG of MEMR • H.E. Mr. Jamal Qamoh, Energy Committee member in Jordanian Parliament • Dr. Dureid Mahasneh, Chairman of EDAMA Board • Eng. Walid Shahin, Director of National Energy Research Center (NERC)
13:15 - 14:30	Lunch
<p>Session 2: Technological Innovation (Win-Win Solutions)</p> <p>Energy Storage and Demand side management</p> <p>Chairman: Prof. Dr. Suhil Kiwan</p> <p>Rapporteur: Dr. Thomas Fink</p>	
14:30 - 14:45	<p>Water for Energy: Hydropower and Energy Storage Using Water</p> <p>Prof. Dr.-Ing. Peter Rutschmann, Chair of Hydraulic Engineering and Water Management at Technical University of Munich</p>
14:45 – 15:00	<p>Demand shifting and the energy storage in Cyprus</p> <p>Prof. Dr. George E. Georghiou, Director of The Research Centre for Sustainable Energy (FOSS) at the University of Cyprus</p>
15:00 – 15:15	<p>Energy Infrastructure and Multi-vector Energy Systems</p> <p>Prof. Jianzhong Wu, Professor of Multi-Vector Energy Systems and Head of Department of Electrical and Electronic Engineering, School of Engineering, Cardiff University, UK</p>
15:15-15:30	<p>Hydropower Storage System Utilizing existing dams in Jordan</p> <p>Prof. Saleh Akour, University of Jordan</p>



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15:30 – 16:45	<p>Panel Discussion on Energy Storage and Load Management in Jordan</p> <p>Moderator: Ms. Franziska Wehinger, FES</p> <ul style="list-style-type: none"> • Eng. Hisham AlHisa, JVA • Eng. Ahmad Al-Dohni, NEPCO • Eng. Emil Alasis, (REEE II TA) • Prof. Saleh Akour, University of Jordan • Prof. Dr.-Ing. Peter Rutschmann, TUM • Prof. Dr. George E. Georghiou, UOC
16:45 – 17:00	Coffee Break
<p>Session 3: Digital and Low-Carbon Future Energy Networks</p> <p>Chairman: Prof. Dr.-Ing. Martin Kaltschmitt, TUHH</p> <p>Rapporteur: Eng. Abdallah Hijab</p>	
17:00-17:20	<p>Power Generation Capacity Expansion under Water Availability Constraints: UK & Brazil Case Studies</p> <p>Dr. Meysam Qadran, Reader in Energy Networks and Systems and EPSRC-UKRI Innovation Fellow, Cardiff University, UK</p>
17:20-17:40	<p>Digital Energy Systems and Application of Distributed Ledger Technology</p> <p>Dr. Chao Long, Lecturer of Digital Energy Systems, Center for Energy Systems and Strategy, Cranfield University, UK</p>
17:40-18:00	<p>Peer to Peer Energy Trading and Demand Response</p> <p>Dr. Yue Zhou, Post-Doctoral Research Associate, Centre for Integrated Energy Generation and Supply Research Group, Cardiff University, UK</p>
18:00-18:20	Discussions
19:00	Joint Dinner



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Day 2

November 5, 2019

Session 4: Technological Innovation (Win-Win Solutions)

Energy Efficiency & Desalination

Chairman: Prof. Ayman Abu Baker

Rapporteur: Eng. Alaa Al-Momani

09:30 – 9:50	Renewable Sources of Energy for water (Solar Desalination) – Status and Prospects Prof. Dr.-Ing. Martin Kaltschmitt, Hamburg University of Technology (TUHH)
09:50-10:10	Energy efficient water collection: Examples from Hamburg and Berlin Prof. Dr.-Ing. Mathias Ernst, Hamburg University of Technology
10:10 – 10:30	Innovative and energy efficient membrane treatment for salt retention Dr. Barbara Wendler, Hamburg University of Technology
10:30 - 10:50	Participatory creation of integrative energy scenarios for the Jordanian water sector Dr. Komendantova Nadejda, International Institute for Applied Systems Analysis-IIASA
10:50 – 11:30	Coffee Break
11:30 – 13:00	Panel Discussion on Water Desalination based on RE Technology Moderator: Dr. Thomas Fink <ul style="list-style-type: none"> • Eng. Ahmed Al-Uleimat, WAJ • Eng. Yaqoub Marrar MEMR • Prof. Radwan Al-Weshah, UJ • Prof. Martin Kaltschmitt • Prof. Dr.-Ing. Mathias Ernst • Dr. Komendantova Nadejda • Dr. Barbara Wendler
13:00-14:00	Summarizing of Recommendations and Closing Remarks
14:00-15:30	Lunch break
Conference End	



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