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**United Nations Development Account Project on Developing the Capacity of ESCWA Member Countries to address the Water and Energy Nexus for Achieving Sustainable Development Goals**

Regional capacity building workshop on “Water - Energy Nexus Operational Toolkit: Resource Efficiency”, 20th- 21th February 2017, Manama, Bahrain.

**DRAFT AGENDA**

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*DAY 1: Monday, 20<sup>th</sup> February 2017*

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**8:30 – 9:00 Registration**

**09:00 – 10:00 OPENING SESSION AND INTRODUCTION**

**Moderator:** *Ms. Roula Majdalani, Director Sustainable Development Policies Division, SDPD, UN-ESCWA*

09:00 – 09:10 **Welcoming and Opening Remarks By UN-ESCWA**

09:10 – 09:30 **Water-Energy-Food Nexus in the Arab Region**

*Mr. Waleed Zubari, Director of Water Resources Management Program, Arabian Gulf University - Bahrain (AGU)*

09:30 – 09:50 **UNDA Project Background and Workshop Agenda**

*Ms. Radia Sedaoui, Chief Energy Section, SDPD–ESCWA*

Tour de Table (10 min.)

**10:00 – 11:30 SESSION 1: IMPROVING WATER EFFICIENCY WITHIN THE WATER-ENERGY NEXUS**

**Moderator:** *Ms. Radia Sedaoui, Chief Energy Section, SDPD, UN-ESCWA*

10:00 – 10:25 **Technologies to Improve Water Efficiency**

*Mr. Hassan Arafat, UN-ESCWA Consultant*

10:25–10:40 **Bridging the Energy-Water Gap**

*Mr. Abdelwahab Aroussi, Independent Consultant, UK*

10:40–10:55 **Water Reuse in District Cooling and How It Reduces Energy Consumption**

*Mr. Saad Al Muhanna, KSA*

10:55–11:10 **Using Reed Beds for Wastewater Treatment**

*Ms. Syham Bentouati, Managing Director NAFAS International LLC, Oman*

11:10 – 11:30 **Discussion and Q&A**

**11:30 – 11:45 Coffee Break**

**11:45 – 13:00 SESSION 2: IMPROVING ENERGY EFFICIENCY WITHIN THE WATER-ENERGY NEXUS**

**Moderator:** *Dr. Syham Bentouati, Managing Director NAFAS International LLC, Oman*

**11:45 – 12:10 Technologies to Improve Energy Efficiency**

*Mr. Hassan Arafat, UN-ESCWA Consultant*

**12:10 – 12:25 Solar Desalination Project**

*Mr. Corrado Sommariva, Managing Director Generation Middle East and Main Group,  
Director ILF Consulting Engineers - UAE*

**12:25 – 12:40 Efficient Use of Energy and Water in Sewage Treatment Plants**

*Ms. Rahab Abdulmahdi Mohsen, Ministry of works, Municipalities Affairs & Urban  
Planning, Bahrain*

**12:40 – 12:55 Almodoreh Well for Livestock Watering (operated by RE Solar Energy), Jordan - Saudi  
Arabia Desert Boundaries Pilot Project**

*Mr. Yousef Alaitan, Maintenance & Workshop Director, Jordan Water Authority Jordan*

**12:55 – 13:00 Discussion and Q&A****13:00 - 14:00 Lunch Break****14:00 - 15:00 SESSION 3: EFFICIENCY-IMPROVING TECHNOLOGIES: FINANCIAL PERSPECTIVE**

**Moderator:** *Pr. Abdelwahab Aroussi, Independent Consultant, UK*

**14:00 - 14:15 Financial Implications of the Water and Energy Efficiency Strategies**

*Mr. Hassan Arafat, UN-ESCWA Consultant*

**14:15 - 15:00 Water–Energy Nexus Country Case Studies and Programs****14:15 - 14:30 Water-Energy Nexus Programs in Egypt**

*Mr. Maged Safwat Sadek Morcos Senior Engineer – Technical Follow-up Department Ministry of  
Electricity and Renewable Energy, Egypt*

*Mr. Ahmed M. ElKomy Abbas Khamar, Hydrogeological at Groundwater Sector Ministry of  
Water Resources and Irrigation Groundwater sector, Egypt*

**14:30 - 14:45 Hydropower and Resource Efficiency in Iraq**

*Mr. Oday Alaa Mohammed Jawad Chief Engineer Ministry of Water Resources, Iraq*

**14:45 - 14:55 Discussion and Q&A****14:55 – 15:00 FIRST DAY WRAP UP**

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**DAY 2: Tuesday, 21<sup>st</sup> February 2017**

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**09:00 – 10:00 SESSION 4: WATER –ENERGY NEXUS COUNTRY CASE STUDIES AND PROGRAMS**

**Moderator:** *Mr. Ziad Khayat, First Economic Affairs Officer, SDPD, UN-ESCWA*

09:00 – 09:15 Resource Efficiency: Case Studies from Jordan on RE and EE

*Mr. Muhieddin Mahmoud Tawalbeh, Manager of Energy Efficiency and Solar Thermal Division Royal Scientific Society/National Energy Research Center, Jordan*

09:15 – 09:30 Energy and Resources Efficiency in Bapco

*Mr. Mahmood Mohamed Hammad, Power & Utilities Department – Refinery, Bapco, Bahrain*

09:30 – 09:45 Energy Saving Programs in the Water Sector in Tunisia

*Mr. Hassen Marzouki, Head of Section Energy Efficiency Tunisian Electricity and Gas Company, Tunisia*

09:45 – 10:00 Water – Energy Nexus – Syria Case Study

*Mr. Samer Mohamad Ajib, Technical Division-Chief Engineer Public Establishment for Electricity Generation, Ministry of Electricity, Syria*

**10:00 – 10:10 Discussion and Q &A**

**10:10 – 10:25 Coffee Break**

**10:25 – 12:00 SESSION 5: WATER ENERGY NEXUS –RESOURCE EFFICIENCY CASE STUDIES**

**Moderator:** *Mr. Hassan Arafat, UN-ESCWA Consultant*

10:25 – 10:30 Presentation of the Case Studies within Water-Energy Nexus Context

*Mr. Hassan Arafat, UN-ESCWA Consultant*

10:30 – 11:30 Breakout Workgroup Sessions

**Group 1:** Desalination in ESCWA Countries

**Group 2:** Water-Energy Nexus for the Oil and Gas Sector in ESCWA Countries

**Group 3:** Water Reuse in ESCWA Countries

**11:30 – 11:45 Presentation by Each Working Group**

**11:45 - 12:00 Discussion and Q &A**

**12:00 - 13:00 Lunch Break**

**13:00 – 15:20** **SESSION 6: KEY PERFORMANCE INDICATORS FOR THE WATER-ENERGY NEXUS**

**Moderator:** *Ms. Radia Sedaoui, Chief Energy Section, SDPD, UN-ESCWA*

**13:00 – 13:15** **The Sustainable Development Goals & the Water and Energy Related Indicators**

*Mr. Ziad Khayat, First Economic Affairs Officer, Water Resources Section, SDPD, UN-ESCWA*

**13:15 – 13:45** **Key Performance Indicators for Resource Efficiency - Water-Energy Nexus**

*Mr. Hassan Arafat, UN-ESCWA Consultant*

**13:45 – 14:45** **Group discussion: Efficiency Improving Technologies – Indicators & Measuring Performance****14:45 – 15:20** **Presentation of Outcomes of the Group Discussion****15:20 – 15:25** **Wrap-up of the Workshop and Way Forward**

*Ms. Radia Sedaoui, Chief Energy Section, SDPD, UN-ESCWA*

**15:25 – 15:30** **Closing Statement**

*Ms. Roula Majdalani, Director Sustainable Development Policies Division, SDPD, UN-ESCWA*