



Saturday 3 December: Site visit & Technical Workshop

Site visit to King Abdullah University of Science & Technology (KAUST)

VIP guided tour this state-of-the-art facility giving an insight into the new solutions being developed at KAUST. Highlights include:

- Tour of the Water Desalination & Reuse Center and Adsorption Desalination (AD) pilot facility
- Visit to the New Energy Oasis (NEO) and the Museum of Science and Technology in Islam

KAUST promotes excellence in engineering research as well as innovation and commercialisation of technology in a range of disciplines including energy, environment and water desalination.

Technical Workshop organised by Bushnak Academy

- Control of Organic and Biofouling of Seawater RO Plants by **Prof Harvey Winters**

Sunday 4 December 2011: Day One & Inauguration

09:00 Registration & Networking Breakfast hosted by BP Solar

10:30

1 Challenges & Opportunities in Nuclear Energy endorsed by K.A.CARE

- How do we maintain Saudi Arabia's leadership role in the changing global energy landscape?
- Prospects and opportunities for nuclear energy for power and desalination
- What are the driving forces for atomic energy?
- What has been the impact of the Japanese experience? Addressing the issue of public acceptance
- Setting the benchmark for safety, efficiency and operational excellence

Moderator: **H.E. Dr Waleed Abulfaraj**, Vice President for Atomic Energy, **K.A.CARE**

Panel:

Prof Yousef Shatilla, Associate Dean for Academic Affairs, **MASDAR Institute of Science and Technology**

Daniel Roderick, Senior Vice President, **GE Hitachi**

Aziz Dag, Vice President, Europe Middle East and Africa, **Westinghouse***

Further panel speakers to be announced

12:00 Networking Lunch hosted by Marafiq

13:30

2 Realising the Potential of Renewable Energy in Saudi Arabia endorsed by K.A.CARE

- How can renewable energies effectively and efficiently contribute to the economy?
- What is the outlook for utility scale solar production? Improvements in cost competitiveness and materials
- What is needed to make renewable energy a more attractive investment?
- Outlook for the local manufacture of equipment
- Coupling renewable energy sources with desalination

Moderator: **H.E. Dr Khalid Al-Sulaiman**, Vice President for Renewable Energy, **K.A.CARE**

Panel:

Vahid Fotuhi, Director, **BP Solar Middle East**

James Brown, President, Utility Systems Business Group, **First Solar**

Don McConnell, President, **The Tarrington Group**

Adrian Wood, Regional Director, Renewable Energy Division – Middle East, **Siemens**

15:30 **Networking Coffee** hosted by ABB

16:00

3 Water & Food Security

- How do we achieve sustainable water and food supplies in the Kingdom?
- How do we realise water & food security at the family level, especially for the poor?
- What is the role of the consumer?
- Options for raising the efficiency of water use in agriculture. How can efficiency be improved throughout the value chain?

Moderator: **Dr Fawaz Al-Alamy**, Consultant

Panel:

Prof Walid Abderrahman, Managing Director, **Miahona**

Kostas G Stamoulis, Director, Agricultural Development Economics Division, **Food and Agriculture Organization of the United Nations (FAO)**

Dr Nina Fedoroff, Professor, Bioscience, **KAUST**

17:30 **Close of Day One & Coffee Break** hosted by ABB

Inauguration & Opening

18:30 **Press Conference**

19:00 **Exhibition Opening Tour**

20:00 **Forum Inauguration Ceremony**

H.E. Abdullah Al-Hussayen, **Minister of Water & Electricity**

Featuring the presentation of the **SWPF Award for Innovation** and the **Marafiq Award for Sustainability**

21:00 **SWPF Gala Dinner** hosted by ACWA Power

Monday 5 December 2011: Day Two

08:30 **Networking Breakfast** hosted by BP Solar

09:00

4 Strategic Transformation & Achievements

- How is a sustainable water-energy balance being achieved?
- What progress has been made on the recommendations of SWPF 2010 and the quick wins recommended by Al-Aghar Strategic Framework?
- Meeting the need for an integrated framework in water and power. Update on the water law
- What are the plans to extend water and power infrastructure and improve services in small towns to improve quality of life and reduce population migration to major cities?

Moderator: **Christopher Gasson**, Publisher, **Global Water Intelligence**

Panel:

Dr Mohammed Al Saud, Deputy Minister for Water, **Ministry of Water & Electricity**

Eng Ali Saleh Al-Barrak, President & CEO, **Saudi Electricity Company**

H.E. Loay Al Musallam, CEO, **NWC**

Dan Janki, President & CEO, Energy Management, **GE Energy**

Dr Adil Bushnak, Chairman, **Moya Bushnak** & Co-founder, **Al-Aghar Group**

10:30 Networking Coffee

11:00

5 Power Market Development & Opportunities

- Latest developments in transmission, generation, upgrading and raising efficiencies
- Plans to export electricity to GCC and Europe and develop regional power networks
- What is the experience of other countries in managing the expansion of power distribution? How can we learn from successful experiences?
- What are the opportunities for investment and future international cooperation?

Moderator: **H.E. Dr Saleh Alawaji**, Chairman of the Board of Directors, **Saudi Electricity Company** & Deputy Minister for Electricity, **Ministry of Water & Electricity**

Panel:

Dr Abdullah Al-Shehri, Governor, **Electricity & Co-Generation Regulatory Authority (ECRA)**

Paddy Padmanathan, President & CEO, **ACWA Power**

Mansoor Durrani, Vice President & Head of Project Finance, **The National Commercial Bank**

12:30 Networking Lunch hosted by GE

14:00

6 Building a Knowledge Economy

- How can the power and water sector support the transformation to a knowledge-based economy and drive growth? Initiatives to encourage human capacity development
- How can the Kingdom create the right enabling environment for innovation and localized solutions? Successful models for commercialising technology
- The role of international companies in human resource investment, knowledge transfer and development of technical capacity

Moderator: **Dr Faleh Al-Sulaiman**, Vice Rector Technology Development & Industrial Relations, **KFUPM**

Panel:

Thabit Bin Suaidr Al-Luhibi, Deputy Governor for Operations & Maintenance, **SWCC**

Amin Shibani, Vice President for Economic Development, **KAUST**

Heiner Markoff, President & CEO, Water & Process Technologies, **GE Power & Water**

Frédéric Certain, Director, **Veolia Water Training Center**

Rafee Yusoff, Director, Group Strategic Planning, **Islamic Development Bank** & Senior Advisor, **Al Aghar Group**

15:30 Networking Coffee

16:00

7 Technology Showcase: Innovative & Integrated Solutions

This session will feature a selection of exciting breakthrough technologies which are pushing the boundaries in the power and water sector

- Focus on the most promising new technologies
- What are the innovators doing to add value and provide sustainable solutions through technology?

If you are a technology developer and are interested in submitting a proposal to be considered for inclusion in this session please contact Chris Hugall chugall@thecwcgroup.com with a 200 word abstract by 12 September. Successful applicants will be notified and announced in October. Further details can be found at www.ksawpf.com

17:30 Close of Day Two

20:00 BMG Foundation Dinner

Tuesday 6 December 2011: Day Three

08:30 Networking Breakfast hosted by NCB Bank

09:00

8 The Future of Green Desalination endorsed by IDA

- What strategies can we adopt to mitigate the environmental and energy effect of desalination?
- How can government and stakeholders work together towards an inclusive and integrated process?
- What progress has been made to date in reducing the carbon footprint of desalination?
- Impact of advanced and emerging technologies on growing the momentum for green desalination

Moderator: **Leon Awerbuch**, President, **LET**, Past President & Director, **IDA**

Panel:

Paddy Padmanathan, President & CEO, **ACWA Power**

Dr Corrado Sommariva, Managing Director, **ILF**, Director, **IDA**

Dr Gary Amy, Director, Water Desalination & Reuse Research Center, **KAUST**

Roberto Borsani, Technical Director, **Fisialtalimpianti**

Vincent Baujat, CEO, **SIDEM**

Dr Yousef M Alyousef, Executive Director of National Energy Efficiency Program, **KACST**

10:30 Networking Coffee hosted by NCB Bank

11:00

9 Smart Grids for Water & Power

- How can Saudi Arabia make the move towards sophisticated grid connectivity? What are the regulatory, economic and social implications? The conceptual framework and security issues of intelligent networks
- Extending the smart grid concept to the water distribution network
- What can we learn from international experiences of smart grids and smart metres?
- The role of government, utility companies, technology providers and academic institutes

Moderator: **Dr Abdulrahman Al-Ali**, Professor, **The American University of Sharjah**

Panel:

Dr Amer Al-Swaha, Head of IPP Program, **Saudi Electricity Company***

Jussi Heikkinen, Vice President, Marketing & Business Development, **Wärtsilä Finland**

Dr Bernd Koch, General Manager Energy Automation Applications, **Siemens AG**

Senior representative, **NWC**

12:30 Networking Lunch

14:00

10 Climate Change & Water Resource Management

- How is climate change impacting the water cycle?
- What infrastructure investment is required to optimise the management of our water resources?
- Strategies and opportunities in water re-use
- Options and innovative solutions for flood management

Moderator: **Dr AbdulAziz Al-Khedheiri**, Deputy of the Governor of the Makkah Region

Panel:

H.E. Dr. Hani bin Mohammed bin Ahmed Abu Ras, Mayor of Jeddah

Ir Wan Azman bin Wan Salleh, Project Director, **UEM Builders Berhad***

Senior representative, **NWC**

15:30 Networking Coffee

16:00 Television Debate: OUR FUTURE OUR RESPONSIBILITY
Water- Food- Energy Security

17:00 Close of Forum

* speaker to be confirmed

Wednesday 7 & Thursday 8 December: Technical Workshop

Technical Workshop organised & led by Global Water Intelligence

- Desalination Short Course by **Tom Pankratz & John Tonner**

SWPF 2011 ADVISORY COMMITTEE

The programme is developed under the expert guidance of leading industry figures to ensure that the forum addresses the key issues and adds maximum value to the sector

Fahad Abualnasr, CEO, **Al-Aghar Group**

Dr Abdullah Abdulaziz Al-AIshaikh, Deputy Governor for Planning & Development, **SWCC**, Director, **IDA**

Hisham Ali Al-Bahkali, Country Executive, **GE Energy Saudi Arabia**

Thamer Al-Sharhan, President & CEO, **Marafiq**

Eng Fouad Al-Sherebi, Executive Vice President of Power Generation, **SEC**

Dr Yousef M Alyousef, Executive Director of National Energy Efficiency Program, **KACST**

Leon Awerbuch, President, **LET**, Past President & Director, **IDA**

Dr Saleh Bakhrebah, Vice Governor for Support Services, **ECRA**

Dr Raed Ahmad Bkaryat, Technology Application and Advancement Group Head, Economic Development, **KAUST**

Dr Adil Bushnak, Chairman, **Moya Bushnak**, Past President & Director, **IDA**

Dr Ghassan Ejeh, Director, **Besix-Sanotech**, Director, **IDA**

Christopher Gasson, Publisher, **Global Water Intelligence**

Dr Bakr Khoshaim, Power Consultant & Member of the **Majlis Ash Shura**

Christian Lefaix, Vice President and Managing Director, **Veolia Water Saudi Ltd**

Ailsa Matkevich, Project Manager, **CWC Group Limited**

Dr Abdulghani M Melaibari, Consultant – Coordinator of Scientific Collaboration, **King Abdullah City for Atomic & Renewable Energy (K.A.CARE)**

Paddy Padmanathan, President & CEO, **ACWA Power**

Werner Sigg, Vice President, Power Generation, **Siemens**

SWPF 2011 TECHNOLOGY COMMITTEE

The Technology Committee is responsible for selecting the shortlist of submissions to be presented in the Technology Showcase on 5 December and will also sit on the panel and question the selected presenters during this session.

Tom Pankratz, Editor, **GW Desalination Report**

Dr Omar Al-Harbi, Director of Water R&D Center, **KACST**

Dr Maher A Alodan, Consultant, **K.A.CARE**

Dr Gary Amy, Director, Desalination and Re-use Center, **KAUST**

Dr Ahmed Al-Arifi, Director General of Research & Technology Department, **SWCC**