



An event by

Bricsa Consulting

Water Tech

Saudi Arabia

19th - 20th February, 2018

Riyadh Marriott Hotel

Saudi Arabia

Highlights of the Conference

- In depth assessment of current infrastructure and needful reforms under vision 2030
- Building water transmission system worth \$400 million to support overstretched water infrastructure
- Addressing main issues and challenges in Water Infrastructure in KSA
- Sustainable Water Management and modernising existing infrastructure
- Privatization and Expansion of Water Sector in KSA
- Emerging Treatment Technologies
(Seawater Desalination, Wastewater Treatment, Mine Water Treatment)
- Utilization of new technologies in the study of arid environments & their natural resources
- Sanitation and Water infrastructure upgradation projects and funding – PPP initiatives



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Speakers

Some of the leading practitioners and speakers

Mr. Khaled bin Zwaid AlQureshi

CEO

Water & Electricity L.L.C (WEC), Saudi Arabia

Dr. Miriam Balaban

Secretary General

European Desalination Society, Italy

Prof. Kim Choon Ng

Professor - Water Desalination and Reuse Centre (WDRC)

King Abdullah University of Science & Technology (KAUST), Saudi Arabia

Dr. Muhammad Wakil Shahzad

Research Scientist, Water Desalination and Reuse Centre (WDRC),

King Abdullah University of Science & Technology (KAUST), Saudi Arabia

Senior Representative

AHK Saudi Arabia

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für Saudi-Arabien, Bahrain und Jemen
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for Economic Affairs (GESALO)
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The Water Network



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Day 1 - 19th February, 2018

08.00 Registration

08.45 Welcome Remarks by Bricsa Consulting

08.55 Opening address by Chairman of the Conference

09.00 Saudi Vision 2030: Ensuring Kingdom leads the way in production, conservation and treatment of Water and Environment

- Implementing integrated water and environment policies for achieving sustainability
- Legal developments to further drive the conservation of water and the environment

09.30 Overview of the Water Sector in Saudi Arabia as of 2017

- Policy Developments - Saudi Water Act (2010)
- Administrative Development - Royal Commission Environmental Regulations (RCER 2010)
- Water Resources Management – Complete reuse of treated waste water by 2025

10.00 National Transformation Program 2020: Supporting the Kingdom's Water Desalination Sector with an investment of SR12.9 billion

- Increasing percentage of desalinated water production from 16% to 52%
- Increasing percentage of treated water production from zero to 20%
- Increasing percentage of cities covered with water and sewage services through The National Water Company

10.30 Coffee/Tea Networking Break

11.00 Main Challenges of Water Infrastructure Sector in KSA

- Aiming to reduce Water Subsidies
- Mitigating Groundwater Depletion
- Municipal water supply services are high cost & of suboptimal quality

11.30 Sewage Treatment Plant (STP) – An alternative approach to conservation

- Overview (Construction, Engineering, Operation & Maintenance)
- Enormous savings in Fresh Water Cost
- Assured availability of water for various secondary uses

12.00 Sustainable Water Management

- Narrowing the large and growing gap between the water use and the available water
- Policy & Management of the KSA water supply
- Engaging a diverse group of stakeholders such as business, regulators, local authorities and conservation bodies is vital
- Sustainable wastewater treatment and reuse options

12.30 Privatization & Expansion of the Water Sector of KSA

- Vision 2030 aims to boost the private sector participation in Water Sector
- New development projects for Water Sector
- The Government is pursuing various privatization programs: Build-Operate-Transfer (BOT)" & "Build-Operate-Own (BOO)
- Investment requirements in Water Sector are more than SR 250 billion for new projects by the year 2020 as water sector's infrastructure is out-dated & in some areas, deteriorating



Day 1 - 19th February, 2018

13.00 Lunch Break

14.00 A New Approach to Efficiency of all Desalination Processes

- Evaluating the Energy Efficiency of all Practical Desalination Processes
- Current Practice and Inadequacies
- Adopting the best current practices or cycles in the production

Prof. Kim Choon Ng, *Professor - Water Desalination and Reuse Centre (WDRC)*

King Abdullah University of Science & Technology (KAUST), Saudi Arabia

14.30 SME & Local Capacity Development

- Exploit Global Opportunities with Increasing Globalization
- Promoting FDI in the SME Sector
- Challenges to the Growth of SMEs

15.00 Wastewater Treatment - Design, Operation & Technologies

- Improvements in the Quality of wastewater
- Industrial Wastewater Treatment Plants including STPs
- Leachate Treatment Plants

15.30 Refreshments & Networking Break

16.00 Seawater Desalination: A sustainable solution to world water shortage

- Overview – Pre-treatment, Reverse Osmosis (RO) & Post-treatment
- Challenges - Energy Recovery and Brine Disposal

16.30 Utilization of New Technologies in the Study of Arid Environments & their Natural Resources

- Geographical Information Systems (GIS) & Global Positioning Systems (GPS) for exploration of Plausible Water Resources
- Remote Sensing Systems & Biotechnology
- Modern Measuring Systems & Devices

17.00 Renewable Energy Technology for Water Desalination – The future of potable water

- Reduction of 50% cost using renewable energy for desalination
- Future of renewable energy technology in developing water reserves
- Clean-tech innovations - the opportunities and challenges

17.30 Panel Discussion: Integrated Water Resources Management (IWRM)

- Strong enabling environment – Policies, Laws and Plans
- Sound Investments in Water Infrastructure with adequate financing available
- Clear, Robust and Comprehensive Institutional Framework
- Monitoring of progress and achievement of goals and targets

18.00 End of Day One



Day 2 - 20th February, 2018

08.30 Registration

08.55 Opening address by Chairman of the Conference

09.00 Water Security & Sustainability in MENA

- Status, Opportunities & Challenges
- Reaching Water Security through Cooperation

09.30 Water Smart Fund

- Support research, demonstration
- Development of any innovative idea, technology

10.00 Digital Water – The Whole is Greater Than the Parts

- Solution with a system that ensures water is used responsibly
- Providing all the necessary knowledge and control of water use within properties

10.30 Coffee/Tea Networking Break

11.00 Water Resources in KSA

- Blue water, Green water, Grey water, Silver water
- Aquifers
- Develop appropriate technologies for improving the quality & quantity of our water supplies for both domestic use & industrial applications

11.30 Emerging Treatment Technologies – Preparing for the Future

- Sea Water Reverse Osmosis (S.W.R.O.) Technology
- Corniche RO Plant
- Nanotechnology : Finding cheaper water desalination processes Solar Saline Water Reverse Osmosis

12.00 Mine Water Treatment and Management

- Mining in the 21st century
- Regulatory, management and institutional arrangements

12.30 Marafiq Complex – Case Study

- Potable & Process Water Production & Distribution
- Transmission & Distribution
- Integrated water utility systems



13.00 Lunch Break

14.00 An Improved Hybrid Desalination Process for Future Sustainability

- Energy-water-environment nexus to attain COP 21 goals
- Technological Developments and Thermodynamic limits
- Multi-Effect Desalination (MED) hybridization and Adsorption (AD) cycle to overcome lower brine temperature limitations

Dr. Muhammad Wakil Shahzad, *Research Scientist, Water Desalination and Reuse Centre (WDRC), King Abdullah University of Science & Technology (KAUST), Saudi Arabia*

14.30 Reuse, Recharge & Reducing the Environmental Impact: Opportunities in Wastewater

- Investment opportunities in managing the resource, recharge, recovery and reuse (RRR) of wastewater
- Reducing chemical consumption in the Saudi water market

15.00 Potable Water

- Drinking Water Quality Assessment & Water Quality Index
- Laws governing water safety – Water Equality
- Water Safety Plans (WSPs)
- Regulating Water to Catalyse Trans Boundary Development

15.30 Refreshments & Networking Break

16.00 Water and wastewater treatment design, operations and technologies

- Advances in Desalination Technologies: Meeting Growing Demand
- Efficiency vs Sustainability
- Research and technology developments driving the conservation of water

16.30 Education on Water Saving

- Sustainable use of water services
- Efficient water use, improved hygiene behaviour

17.00 Panel Discussion: Hydro-diplomacy – Tool for Sharing Water across Borders with Focus on Urban Landscapes

- Water - Factor in maintaining peace & security
- Shared water have brought countries closer together
- Impact of Water on Human Health as well as Economic well-being

18.00 End of Conference



More about Bricsa Consulting

Bricsa Consulting is involved in hosting industry specific conferences and currently one of our focus areas is Water Management, which is one of the key priorities in terms of Infrastructure development.

We have the ability to bring industry leaders across various geographical markets successfully on a common platform to discuss various business possibilities. We have successfully executed conferences in Asia Pacific, Africa and Middle East regions and are constantly exploring new emerging markets.

Our conferences are extensively researched and all efforts are made to highlight current projects in the respective regions. The audience is a mix of Ministries, Government Agencies, Development Banks, Financial Institutes, Infrastructure and Construction Companies, Contractors. Consultants and Architects, with a goal to create a practitioner focused platform and making it a leading global-meeting place for the Infrastructure and Investment community.

By becoming a Sponsor, your company will be given the best possible opportunities to position itself to the world-wide industry. You will have access to some of the most influential decision-makers and potential business partners who will be playing an integral part in shaping the future of the industry.

Making an investment in these conferences will help your company to attract business and if you make the most of the sponsorship opportunities we offer, you will see an incredible return on your investment.

Promotion of your company begins as soon as you commit to sponsorship, so the sooner you sign up, the more visibility you get.

If you wish to speak at this conference; please email us your details and a topic outline at :
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Prospective Delegation that you can meet:

This strategic conference is designed to engage all those who are involved in the development of Water Infrastructure and Sustainable Water Management that include:

- Government Authorities & Ministries, Ministers, Director Generals, Secretary Generals
- Foreign missions, Industry associations
- Senior Water sector professionals from industry
- Technical, legal, management consultants
- IT companies and solutions providers
- Steel, power, cement, infrastructure, SEZs
- Financial Institutions financing Water sector
- Water Ministers
- Chief Executives responsible for water infrastructure
- Business leaders who rely on water to maintain their production
- Investors who are concerned about the impact of water risk on their portfolios
- Engineers and Water Technologists
- Solution Providers for Water And Waste Water Management
- Water Suppliers
- Chemical Companies
- Water Transport Companies (Pipeline)
- Legal Advisories
- Project Management Firms
- Financial Consultancies
- Construction Companies
- Technological Companies

WHO SHOULD ATTEND ?

Presidents, Vice-Presidents, CEOs, CFOs, COOs, Managing Directors, Directors, General Managers, Senior Managers, Managers and Heads of:

- Policy
- Water Security
- Desalination Plant Operators
- Authority & Regulators
- Engineering, Maintenance and Repair
- Pipe & Meter Manufacturers
- Department / Ministry of Water
- Central Government
- Water Unions
- Consultants
- Investment Banks
- Investment firms providing funds for the projects
- International Financial Institutions

