District Cooling & Tri-Generation Summit

23rd & 24th November 2014, Al Faisaliah Hotel, Riyadh, Kingdom of Saudi Arabia

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Summit Objective & Overview

Saudi Arabia power supply demands are rising over 55,000 MW range, with a 48,000 MW deliverable capacity. Saudi Arabia's 71% of this power supply is integrated for conventional air conditioning systems across the industrial, residential and commercial sectors of Saudi Arabia. Large capital investments, power shortages, limited resources and utilities system failures during peak summer periods are raising concerns to project stakeholders to develop an energy efficient, cost saving and mostly, a more sustainable air conditioning system across all main and active provinces of Saudi Arabia. District Cooling & Tri-Generation Systems is the feasible solution to the Kingdom's challenge.

Saudi Arabia clients are accessing capital requirements utilizing PPP and financing in order to drive the massive expansion of District Cooling across rapidly developing provinces. Springing from Quarter 4 of 2014 and spanning across 2015, the Kingdom's District Cooling & Tri-Generation projects is valued at over, USD 1 Billion, and with expanding installation capacity of over 1.5 Million TR. The demand for cost effective and energy efficient technologies for District Cooling projects is pro- actively being voiced by the Saudi Arabia stakeholders developing the Cooling Frameworks.

Saudi Arabia District Cooling project clients from Riyadh & main provinces as Mecca, Jeddah, Jubail & Yanbu attending this summit in Riyadh on the 23rd and 24th November, 2014, are assured to gain maximum exposure and to have the direct networking opportunity to meet with your business development team.

Confirmed Speakers

- **Engr. Nasser Al Qahtani,** Vice Governor, **Electricity and Cogeneration Regulatory Authority (ECRA)**
- **Ali U Al-Najim,** Deputy Chairman, **Founder of Saudi Green Building Council(SGBC)**
- **Steven Kessleaers,** Proposal Manager, **Baltimore Aircoil international**
- **George Berbari,** CEO, **DC PRO Engineering**
- **Mansoor Ata,** Head of MEP, **DAR AL - RIYADH**
- **Asish Vaishnav,** Business Head, **Thermax India**
- **Abdulsalam Al-Mobayed,** Vice President, **Saudi Tabreed**
- **Robert Flaechsig,** Managing Director, **IIC**
- **Dr. Noreddine Ghaffour,** Principal Research Scientist, **King Abdullah University of Science and Technology**
- **Senior Representative from LG & Al-Hassan G.I. Shaker Co.**
- **Senior Representative from Al Salem Johnson Controls**

Invited Speakers

- **His Excellency Abdullah K. Al-Buainain,** President & CEO, **Marafiq**
- **Loay Bin Ahmad Bin Sa'ad Al-Musallam,** CEO, **National Water Company**
- **Saleh Al-Zahrani,** Director General SWCC, **Eastern Province, SWCC**
- **Dr Fareed M Al-Yagout,** President, **National Power Company**
- **H.E. Dr Saleh Alawaji,** Deputy Minister, **Ministry of Water & Electricity**
- **Jean-Lou Chameau,** President, **KAUST**
- **Engr. Fouad Al-Sherebi,** Executive Vice President, **Power Generation Saudi Electricity Company**

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Industry Leaders Stakeholders: Panel Topics

- Discussing how Tri-Generation & District cooling projects tackle the power supply demand in Saudi Arabia.
- Conserving 65% to 85% of this power supply to develop the Sustainable Energy Source Path
- Deploying effective measures to monitor & control the consumption of water
- Meeting the demand from public & private sectors to deliver water requirements for government initiated projects, with investment over USD 60 Billion for infrastructure from 2014 to 2020
- Understand District cooling as one of the driving technological advancements that the Kingdom can deploy to standardize the reuse of Polished TSE as the alternative medium to Potable Water
- Saudi Arabia's ambitious investment of USD 6 Billion to boost the development of Sustainable Utilities, enabling Project Stakeholders to develop the required Generation and Supply Capacity from Power, Water, and District Cooling & Tri-Generation Plants & Systems across all Saudi Arabia Provinces
- Learn how District Cooling Project Developers are exploring the effective Reuse of Desalination and TSE [Treated Sewage Effluent]

Saudi Arabia Project Stakeholders

- Master Plan Developers
- District Cooling Projects
- Power Plant Projects
- Tri-Generation Projects
- Co-Generation Projects
- Combined Heat & Power Companies
- Water - Water Reuse - Desalination
- Utility Companies
- District Cooling EPC Contractors
- Projects Ministries & Governments
- Build, Own, Operate and Transfer Projects
- Water & Electricity Service Authorities

- Director Generals
- Chief Operating Officers
- Chief Planning Officers,
- Managing Directors
- Technical & Projects Directors
- Plant O & M Directors
- Pre-Insulated Piping Technology
- GRP Piping Technology
- Energy Transfer Stations
- Solar CSP Technology
- Pump Technology
- Actuator Technology

- Metering Technology
- Electricity Meters Technology
- Absorption Chillers
- Check Valves Technology
- Advanced Fan Coil Products
- Leakage Monitoring
- Chiller Technology
- Engine Technology
- Filtration & Separation Solutions
- Cooling Tower Technology
- TSE Make up for District Cooling
- Operations & Maintenance Services

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Agenda - Day One

8:00 **Registration & Coffee**

8:30 **Recital of the Holy Quran**

8:50 **Chairman's Opening Remarks**

9:00 **Opening Keynote:** Importance of Tri-Generation & District Cooling in curbing the Power Demand in Saudi Arabia

9:30 **Keynote Session:** Addressing Power Consumption & Supply challenges in Saudi Arabia by combining. District cooling & Tri-Gen Plants via Distributed Power Channels

10:00 **Networking Morning Coffee Reception**

10:30 **Keynote Session:** Role of DCP & Tri-Generation towards achieving LEED ND Certification

11:00 **Panel Discussion:**
What is the future of Tri-Generation in Saudi Arabia ?
- Environmental concerns are increasing the interest in Tri & Co-generation
- Reducing Global Warming: Choose Tri-Generation or Co-Generation
- Government recognition is very important for the growth of Tri-Generation Projects

[Session Moderator will host the Q&A Round with Delegates and Panel Members]

11:30 **Keynote Session:** Upcoming projects for the Hospitality &Housing Colonies Segment in Saudi Arabia Provinces

12:00 **Prayer Break & Luncheon Networking Reception**

13:00 **Thermax Global Experience**
Asish Vaishnav, Business Head, **Thermax India**

13:30 **Automatic Meter Reading - Systems and Solutions**
- Functions and Structure
- Communication possibilities & prospects
- Case study

14:00 **The importance of the District cooling paradigm that responds to the Air conditioning needs of the Residential, Commercial and Industrial Customers of Saudi Arabia**

14:30 **Networking Reception: District Cooling & Tri-Gen Technologies Showcase To Delegations**

15:00 **Closing Panel Discussion:**
Deploying District Cooling & Tri-Generation Systems via Greenfield Projects
[Session Moderator will host the Q&A Round with Delegates and Panel Members]

15:30 **Chairman's Closing Remarks**

Agenda - Day Two

8:00 **Registration & Coffee**

8:30 **Recital of the Holy Quran**

8:50 **Chairman's Opening Remarks**

9:00 **Opening Keynote:** Energy efficient and cost saving Pre-Insulated Pipe Distribution Networks

9:30 **Keynote Session:** The regulatory framework and policies for deploying Saudi Arabian Smart Provinces

10:00 **Networking Morning Coffee Reception**

10:30 **Keynote Session:** Thermal Storage and District Cooling can play the major role in reducing Peak Power Demand
Steven Kessleaers, Proposal Manager
Baltimore Aircoil international

11:00 **Panel Discussion: Assessing the most feasible Roadmap in developing DCP & Tri-Gen Plants**
[Session Moderator will host the Q&A Round with Delegates and Panel Members]

11:30 **New Pumping Technology for District Cooling Applications**

12:00 **Prayer Break & Luncheon Networking Reception**

13:00 **Multi-Utility metering and billing solutions High level Network Design City master planning Interactive Metering and Billing Networks with Residents**

13:30 **O&M perspective on District Cooling**
- Challenges when streamlining smooth and energy efficient plant
- Compiling and implementing feedback from the O&M Activities
- Healthand Safety Issues

14:00 **Hydraulic Balancing as the key to improving Energy Efficiency in District Cooling Networks**

14:30 **Networking Reception: District Cooling & Tri-Gen Technologies Showcase To Delegations**

15:00 **Addressing Infrastructure & Plant Energy Management via Automation Framework Solutions in District cooling applications**

15:30 **Chairman's Closing Remarks**

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