



16 - 18 SEPTEMBER 2024 | ABU DHABI, UNITED ARAB EMIRATES

TECHNICAL CONFERENCE BROCHURE













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ABOUT WORLD UTILITIES CONGRESS

In a world where electricity and water play critical roles, the power and water utilities industry faces numerous significant challenges. As we navigate the complexities of a rapidly changing landscape, it is essential to confront these obstacles directly and pave the way towards a resilient and sustainable future.

The World Utilities Congress, taking place in Abu Dhabi from 16 - 18 September 2024, serves as an unrivalled platform that brings together global energy leaders, policymakers, innovators and

industry professionals from across the power & water utilities value chain to discuss the major trends and challenges shaping the industry as utilities worldwide work to deliver on paths to a sustainable and resilient tomorrow.

The exhibition and congress will provide a vital platform for the sector to engage in discussions about the role and pace of decarbonisation in the utility industry's future. It will also showcase the latest innovations and solutions aimed at establishing a sustainable utilities sector.



WORLD UTILITIES CONGRESS 2024 IN NUMBERS



12,000+
UTILITIES PROFESSIONALS



90+

PARTICIPATING COUNTRIES



180+

GLOBAL EXHIBITORS



280+

EXPERT SPEAKERS



110+

CONFERENCE SESSIONS



1,400+

CONFERENCE DELEGATES

CONFERENCES OVERVIEW

The conferences at World Utilities Congress foster the strategic insights and technical expertise needed for power and water utilities to deliver the low-carbon systems of tomorrow. Across 3 days, the conferences will convene Ministers, CEOs, academics, and industry influencers to address the critical challenges and discuss the possibilities and opportunities for a net-zero utilities sector of the future.



STRATEGIC CONFERENCE

From the big questions to practical challenges, gain unparalleled insights and applied intelligence from 100+ international speakers from government, IGOs, utilities, academia, and industry on navigating the evolving energy landscape.



LEADERSHIP ROUNDTABLES

Anchored within the World Utilities Congress, the invitation-only Leadership Roundtables gather stakeholders - from Ministers and policymakers to CEOs and scientists - to collectively address the challenges and explore solutions that can shape the future of the utilities sector.



TECHNICAL CONFERENCE



The Technical Conference offers utilities professionals access to the latest industry knowledge and research findings, technical expertise, new project developments, and industry best practices required to ensure future operational and technical resilience in the industry.

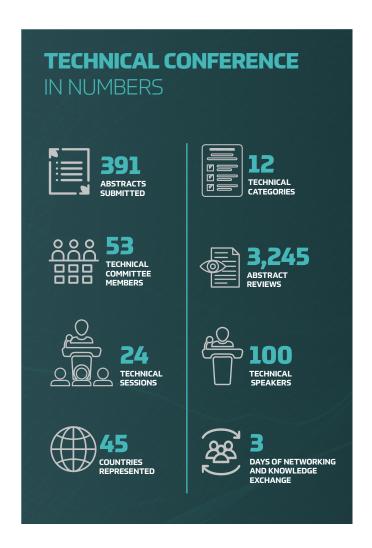
ABOUT THE TECHNICAL CONFERENCE

Energy transition and digital transformation are the key drivers in the water and power sector, shaping the future of the industry, highlighting a clear direction for success and opening doors to new industry players.

The Technical Conference offers utilities industry professionals unprecedented access to the latest industry knowledge and research findings, technical expertise, new project developments, state of the art technologies and industry best practices.

Spanning the entire power and water value chain, the World Utilities Congress 2024 Technical Conference has been created after a thorough two-stage review by the Technical Committee, comprising 53 industry specialists. The conference features 100 industry experts speaking at 24 sessions across three days and covers power generation, transmission and distribution, water management, water sewage, district cooling and customer engagement.

Do not miss this unrivalled opportunity to meet face-to-face with your existing and new clients, learn the latest technology trends and developments and identify new market opportunities within the power and water industry.



GAIN CPD ACCREDITATION

The World Utilities Congress Technical Conference has been accredited by the CPD Certification Service, which provides recognised independent accreditation compatible with global requirements for energy professionals. Additional benefits include:



- Engaging in Continuing Professional Development ensures that your professional qualifications do not become outdated or obsolete
- Earning CPD points allows you to 'up skill' or 're-skill' yourself, thereby complementing your career aspirations.
 CPD accredited programs, such as the World Utilities Congress Technical Conference, enable you to identify knowledge gaps and gain insights into the latest developments, showing a clear commitment to self-development and professionalism
- Receive your CPD accreditation certificate after the World Utilities Congress Technical Conference
- 1 CPD point is equivalent to 1 CPD hour. Each 30-minute session counts as 0.5 CPD hour (12.5 hours max can be claimed)

A WORD FROM THE TECHNICAL COMMITTEE CHAIRMAN



DR AFIF SAIF AL YAFEI

ABU DHABI TRANSMISSION AND **DESPATCH COMPANY (TRANSCO)**

sustainable energy solutions.

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TECHNICAL COMMITTEE MEMBERS



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CEO
Abu Dhabi Transmission
and Despatch Company
(TRANSCO)
THAIRMAN



Hebah Abbas Chairwoman Kuwait Water Association



Dr. Yacine Addad Associate Professor Nuclear Engineering & Chairman Khalifa University



Dr. Corrado Sommariva CEO Sustainable Water & Power Consultants (SWPC)



Randheer Singh Founder and CEO ForeSee Advisors



Eng. Doreb Ebrahim
CEO
Enertech Middleast FZ



Simon Bartmann Founder & Co-CEO Bullfinch Asset AG



Aftab Raza CEO FynValue Inc



Ferdinand Varga
Managing Director &
Senior Partner
Boston Consulting Group
(BCG)



Imteyaz Ahmad Managing Director -Power and Water Future Water and Power Consulting (FWPC)



Khalid Oumejjoud Managing Director PSM Thomassen Gulf



Suleiman Turki Chief Strategy & Development Officer Company Saudi Water Partnership Company, KSA



Antonio Di Cecca Chief Operating Officer Tabreed



Daxita RajcoomarChief Sustainability
Officer **ENGIE**



Moinak Banerjee Co-founder and Head of Products Solinas Integrity Pvt Ltd



Thomas Altmann
Executive Vice President,
Innovation & New
Technology
ACWA Power



Giampietro Sanna Senior Director – Digital Transformation Solutions INJAZAT



Peter Elder Vice-President and Chief Science Officer Canadian Nuclear Safety Commission



Secil Torun Vice President -Engineering and Technical Project Management ENGIE



Sabooh Asghar Vice President - HSEQ National Central Cooling Company (Tabreed)



Maarten Ter Keurst Managing Partner Natural Ventures



Katarina Uherova Hasbani Partner and Global Director of Strategy and Advisory AESG



Serge Braz Business Development ME EDF



Anes Dallagi
Abu Dhabi Manager
Power System &
Transmission Engineering
EDF CIST



Chris Larsen Senior Director - Clean Energy Dynapower



Nada Abubakr Middle East Lead – Global Water Practice Ricardo PLC



Dr. Amber BullenTechnical Director –
Wastewater, Engineering
Services **AtkinsRéalis**



Cedric Carretero
Technical Director
Dalkia Middle East



Julio De La Rosa Jurado Regional Director Acciona



Imad Saket
Director, Engineering
and Construction, MEA
& APAC
Jinko Power (HK)
Company Limited

TECHNICAL COMMITTEE MEMBERS



Dr. Mohamed Dawoud Advisor for Water Resources, Environment Quality Abu Dhabi Environment Agency



Biren Gandhi Global Energy and Utilities Practice Leader IBM Consulting



Dr. Satish Balantrapu Principal Consultant **Infosys**



Siddharth Saboo Energy Lead, EMEA **AWS**



lan Rodgers Solutions Architect **Xylem Inc**



Anousha Khan Energy Sustainability Consultant Insight Plum



Joseph Elbasha Water and Waste Water Segment Consultant, MEA Schneider Electric



Rui De Sousa Principal, Industry & Value Advisor, Middle East & Africa South SAP



Mohamed Sayed Taha Projects & Technical Consulting Manager Enppi



Antonio Valentin Diaz Head of Project Delivery EDF Renewables Middle East



Cristopher Sagar Head of Middle East Nuclear & Net Zero Energy WS Atkins & Partners Overseas - Abu Dhabi Branch



Khaled Gamal Head of Sales, Digital Grid, MEA Schneider Electric



Ismail Serhan Head of Heat Exchanger Business MEA Danfoss



Malik Benameur Head of Energy & Smart Solutions Dalkia Middle East



Hervé de Trémiolles International Development Manager EDF/CSFN



Nathan Paterson Senior Programme Lead – Supply Chain World Nuclear Association



Buket Guner Investment Manager EDF, UAE



Milton Dasgupta Project Manager - Middle East & Asia **Wärtsilä Energy**



Lina Hijazi Proposal Manager **Masdar**



Ines Dassonville
District Cooling Manager
Dalkia Middle East



Veronique Verrier Data Scientist & Project Manager ENEDIS



Giriraj Rathore General Manager – Europe, Middle East and Asia Wärtsilä Energy



Dr. Bouhadjar Ahemed Seddik Electrical Engineering Lead **Siemens Energy**

WHY SHOULD YOU ATTEND?

GROW PROFESSIONALLY



by learning industry best practices, technological innovations and research findings and staying up to date with the latest power and water industry developments

GAIN A COMPETITIVE ADVANTAGE



by learning first-hand about the business needs of your current and potential clients

IDENTIFY NEW MARKET OPPORTUNITIES



by learning how other businesses are operating, tackling industry-specific challenges and creating resilience

NETWORK FACE-TO-FACE



and discuss how you might collaborate and work together in the future with key project owners and decision-makers from the entire power and water value chainachieve net-zero goals



12 TECHNICAL CATEGORIES





Alternative fuels





Water management, supply & distribution network



Wastewater recycling, reusing & reclaiming



District cooling



Digital transformation



Energy transition decarbonisation ESG & sustainability



Power transmission, distribution & storage



Smart cities & communities



Health, safety & security across the utilities industry



Operational excellence & workforce development

TECHNICAL SESSIONS AT A GLANCE

	TIME	SESSION	CAPITAL SUITE 8	SESSION	CAPITAL SUITE 9
0	10:00-11:30	1	Smart grids - enhancing resilience	2	Exploring new energy systems
MONDAY 16 SEPTEMBER	11:30-13:10	3	Advancements in power generation R&D	4	Advances in desalination and water treatment strategies
	14:00-15:40	5	Building sustainable smart communities and intelligent infrastructure	6	Hydrogen production and infrastructure: from innovation to implementation
	15:00-17:20	7	Empowering utilities through AI, data analytics, and emerging technologies	8	Enhancing asset performance and management
TUESDAY SEPTEMBER	10:00-11:40	9	Unlocking the potential of energy storage and EMS	10	Pathways for decarbonisation
	11:40-13:10	11	Unveiling the power of digital twins, IoT, and connected performance	12	Utilisation of hydrogen for power gen and automotive
		13	Water treatment and resource management	14	Modernisation strategies and innovations in power systems
1	15:40 - 17:00	15	Operational excellence 4.0	16	Integrated safety culture
WEDNESDAY	10:00-11:30	17	Advancing transmission and distribution networks	18	Sustainable solutions for wastewater management and resource recovery
	11:30-13:10	19	Balancing compliance, innovation and securing critical infrastructure	20	Grid integration and demand side management strategies
WEDNESDA	14:00-15:40	21	Maximising energy efficiency and innovations in cooling systems	22	Workforce of the future
	15:40-17:20	23	Innovations powering the energy sector	24	Enabling a sustainable energy transition

MONDAY 16 SEPTEMBER 2024



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SESSION 1



SMART GRIDS - ENHANCING RESILIENCE AND EFFICIENCY

SESSION 2



EXPLORING NEW ENERGY SYSTEMS

CHAIRS

Eng. Doreb Ebrahim

CEO

Enertech Middleast FZ LLC

Rui De Sousa

Principal, Industry & Value Advisor, Middle East & Africa South SAP

CHAIRS

Dr. Corrado Sommariva

CEO

Sustainable Water and Power Consultants (SWPC)

Malik Benameur

Head of Energy & Smart Solutions

Dalkia Middle East, Saudi Arabia

PRESENTATIONS

10:00-10:20

Optimising approaches to grid balancing under varying output of large scale photovoltaic plants

Harry Apostoleris

Researcher

DEWA R&D, United Arab Emirates

10:20-10:40

Voltage regulating distribution transformers as the new standard in public grids for economically integrating renewable energy and new loads at distribution level

Waqas Hussain

Business Development Manager

Maschinenfabrik Reinhausen, United Arab Emirates

10:40-11:00

An AMI solution developed and operated by a DSO, to unlock the full potential of smart meters

Fabian Nilsson

Commercial Director **EDF IN, France**

11:00-11:20

Advancing grid stability and efficiency: An extensive examination of the Volt-VAR Management System (VVMS)

Ayşegül Kutlay

Vice President inavitas, Turkey

PRESENTATIONS

10:00-10:20 Beyond surface: exploring KSA's geothermal opportunities and challenges

Mohamed A Alemam

Manager, Business Development EDF, Saudi Arabia

10:20-10:40 PV recycling and solar waste management in Dubai

Krishiv Gandhi

Researcher - Energy Systems **DEWA, United Arab Emirates**

10:40-11:00 Evaluating grid technologies for utility net-zero

Abhishek Kar

Head-Strategy & Sustainability Siemens, United Arab Emirates

11:00-11:20 The H2 battery by water stuff & sun paving the way for a quantum leap in the hydrogen eco-system

Lukas Kalt

Head of Development

Water stuff & sun GmbH, Germany

MONDAY 16 SEPTEMBER 2024



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SESSION 3



ADVANCEMENTS IN POWER GENERATION R&D

CHAIRS

Dr. Yacine Addad

Deputy Director

Emirates Nuclear Technology Center

Associate Professor, Mechanical & Nuclear Engineering

Khalifa University

Milton Dasgupta

Project Manager - Energy Business

Wartsila

PRESENTATIONS

Hybrid machine learning forecasting for 11:30-11:50 grid-connected solar power plant

Ameera Almarzoogi

Power Protection Engineer

TRANSCO, United Arab Emirates

Deposits in steam turbines and GT's 11:50-12:10

compressors – unwanted expensive factor. Full restoration of steam and gas turbines efficiency by removing deposits with deep

chemical foam cleaning

Wojciech Majka

CEO, President of the Board

Ecol Sp. z o.o., Poland

Integrating multiple renewable energy 12:10-12:30

> sources with machine learning and deep learning for enhanced efficiency and

profitability

Kevin Williams

Co-Founder and CEO

K.M. Williams and Associates LLC, India

12:30-12:50 Path of construction of light water reactor based nuclear power plant in india – a case

R S Prasad

General Manager

ENGINEERS INDIA LTD, India

12:50-13:10 Nuclear power plant lifetime extension: using

R&D and digital twin to model reinforced concrete and evaluate mechanical phenomena

Miquel Huguet Aguilera

Civil Engineering Project Manager

Egis, France

SESSION 4



ADVANCES IN DESALINATION AND WATER TREATMENT STRATEGIES

CHAIRS

Nada Abubakr

Middle East Director - Global Water Practice

Ricardo PLC

Dr Mohamed A. Dawoud

Senior Water Advisor

Environment Agency - Abu Dhabi

PRESENTATIONS

11:30-11:50 BFP filtration - a replacement for chlorination/

dechlorination in RO pre-treatment

Martin Stahl

Area Manager

E+B Umwelttechnik GmbH, United Arab

11:50-12:10 Navigating the technology shift from thermal

> desalination to reverse osmosis to decarbonise the water sector while ensuring

the security of supply in UAE

Asim Khan

Water Production Planning Lead

EWEC, United Arab Emirates

Decoupling of water production and electricity 12:10-12:30 generation from GDP and population in the

Gulf Cooperation Council (GCC) countries

Dr. Shayma AlBannay

Grid Sustainability Section Manager

ADDC, United Arab Emirates

12:30-12:50 Alternative sustainable water resources for

district cooling plants

Husam Al Smadi

General Manager

Cooltech Gulf, Tabreed, United Arab Emirates



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SESSION 5



BUILDING SUSTAINABLE SMART COMMUNITIES AND INTELLIGENT INFRASTRUCTURE

CHAIRS

Randheer Singh

Founder & CEO

ForeSee Advisors

Lina Hijazi

Proposal Manager

Masdar

PRESENTATIONS

14:00-14:20

Transforming industrial cities into smart hubs: a case study of modon's smart industrial cities program

Mohammed Eldaly

Head of Business Innovation Giza Systems, Saudi Arabia

14:20-14:40

Strategic vision for electric vehicle infrastructure in a fast-changing landscape

Maher Aboujaoude

Tech Lead of Innovative Analytics

ENEDIS, France

14:40-15:00

The road not taken? the role of behaviour in

the

energy transition

Dr. Malek Al-Chalabi

Continuina Member

University of Oxford, United Kingdom

15:00-15:20

Transformative innovations in sanitary waste management: the promise of sanitary waste recycling destruction technology (SWRDT)

Iram Maimuna

E Waste Social Pvt Ltd, India

15:20-15:40

Evaluating the role of grid interactive buildings for clean energy transition from energy trilemma perspective

Dr. Satish Balantrapu

Principal Consultant, SUREDCG

Infosys, India

SESSION 6



HYDROGEN PRODUCTION AND INFRASTRUCTURE: FROM INNOVATION TO IMPLEMENTATION

CHAIRS

Secil Torun

Vice President - Engineering and Technical Project Management

ENGIE

Khalid Oumejjoud

Managing Director

PSM Thomassen Gulf LLC

PRESENTATIONS

14:00-14:20

Assessing the financial viability of green hydrogen projects in the GCC

David Robertson

Vice President Solutions EMEA

Energy Exemplar, United Arab Emirates

14:20-14:40

Ansaldo green tech's contribution to energy transition: a comprehensive look at AEM electrolyzer technology deployment

Luca Rofi

Hydrogen Program Manager Ansaldo Green Tech, Italy

14:40-15:00

Hydrogen storage using LOHCs systems

Mohamed Nasser

Senior Chemist

ETHYDCO, Egypt

15:00-15:20

Re-evaluating economics and performance metrics in the context of circular business models and decarbonisation endeavours

Cornelia-Oana Toropoc

Senior Advisor Ecnomics MEA

OMV, Australia

MONDAY 16 SEPTEMBER 2024



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SESSION 7



EMPOWERING UTILITIES THROUGH AI, DATA ANALYTICS, AND EMERGING TECHNOLOGIES

CHAIRS

Dr. Yacine Addad

Deputy Director

Emirates Nuclear Technology Center

Associate Professor, Mechanical & Nuclear Engineering

Khalifa University

Siddharth Saboo

Energy Lead, EMEA

AWS

PRESENTATIONS

15:40-16:00

A decade of digital transformation from electro-centric to data-centric distribution company

Véronique Verrier

Project Manager **ENEDIS, France**

16:00-16:20

Optimising gas storage portfolios via deep reinforcement learning

Alex Gardner

Senior Risk Quantification Specialist

Emirates Water and Electricity Company (EWEC), United Arab Emirates

16:20-16:40

Leveraging artificial intelligence for industrial process design optimisation in power generation and green e-fuel synthesis

Islam Haji Process

Digital Control Systems & Commissioning Department Lead

Electricité de France (EDF), France

16:40-17:00

Tackling OT cyber threats in the era of generative Al

Tahir Saleem

Sr. Specialist - OT Security IBM, United Arab Emirates

17:00 - 17:20

Deployment of Augmented Reality & Virtual Reality technologies for engineering use cases within Egis

Wissam Jarmak

Associate Director - Infrastructure

Egis, France



SESSION 8



ENHANCING ASSET PERFORMANCE AND MANAGEMENT

CHAIR

lan Rodgers

Product Manager Assessment Services -Digital Solutions

Xylem Inc

Katarina Uherova Hasbani

Partner and Global Director of Strategy and Advisory

PRESENTATIONS

15.40-16.00

Determination of asset useful life and efficient maintenance decision making for better asset performance management

Balasubramanian Nainar

Specialist / Operation Technology Transco, United Arab Emirates

16:00-16:20

A DSO-oriented tool for optimised network olannino

Pierre Achaichia

Communication Systems and Networks Engineer **ENEDIS**, France

16:20-16:40

Cable differential protection scheme for 11/22/33kV cable feeders by using one differential relay (instead of 2 relays) with the help of CT merging unit only at the remote

Sajid Ahmed Mohamed Abdul Kader

Senior Studies and Protection Engineer **ADDC, United Arab Emirates**

16:40-17:00

Transformation journey towards operational excellence and enhanced efficiency

Atef Al Braiki

Senior Vice President – Operations and Maintenance

Tabreed, United Arab Emirates



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SESSION 9



UNLOCKING THE POTENTIAL OF ENERGY STORAGE AND EMS

CHAIRS

Giriraj Rathore

General Manager – Europe, Middle East and Asia Wärtsilä Energy

Simon Bartmann

Co-CEO

Bullfinch Asset AG

PRESENTATIONS

10:00-10:20 Evaluating renewable energy - storage systems for green hydrogen production

Israa Alshaer

Project Engineer

ILF Consulting Engineers, United Arab Emirates

10:20-10:40 Potential and feasibility of large scale pumped storage in Middle East

Thomas Pinchard

Senior Hydropower Specialist

EDF. France

10:40-11:00 Large scale energy storage using gaseous hydrogen

Wietse ter Veld Green

Hydrogen Subject Matter Expert (ME) **AtkinsRéalis,** United Arab Emirates

11:00-11:20 Economically complying with grid codes for PV plants by enhancing inverter capability

Waqas Hussain

Business Development Manager Maschinenfabrik Reinhausen, United Arab Emirates

SESSION 10



PATHWAYS FOR DECARBONISATION

CHAIRS

Daxita Rajcoomar

Chief Sustainability Officer - Asia, Middle East, Africa **ENGIE**

Antonio Valentin Diaz

Head of Project Delivery - Middle East

EDF Renewables Middle East

PRESENTATIONS

10:00-10:20 An update on the role of gas-turbines in a net-zero energy system

Cristopher Sagar

Chief Engineer

AtkinsRéalis, United Arab Emirates

10:20-10:40 UAE net-zero pathway

Omar Hatoum

Lead Energy Analyst

GE Vernova Consulting Services, United Arab Emirates

10:40-11:00 Decarbonising existing gas turbine power

generation infrastructure - combustion system retrofits for clean hydrogen utilisation and

carbon footprint reduction

Jeffrey Benoit

VP - Global Clean Energy Solutions

PSM - a Hanwha Company, United States

11:00-11:20 Balancing plants with the power of green

engines

Jihad Aoun

Head of Sales, Africa

MAN Energy Solutions, Germany

11:20-11:40 Long-duration energy storage & cloud energy management platform for empowering energy transition and energy cost optimisation

Dr. Satish Balantrapu

Principal Consultant, SUREDCG Infosys, India



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SESSION 11



UNVEILING THE POWER OF DIGITAL TWINS, IOT, AND CONNECTED **PERFORMANCE**

CHAIRS

lan Rodgers

General Manager – Europe, Middle East and Asia Xylem Inc

Mohamed Sayed Taha

Projects & Technical Consulting Manager Enppi

PRESENTATIONS

11:40-12:00 Using edge analytics & digital twin to optimise pump system performance & efficiency

Matt Rolls

Vice President Business Development Specific Energy, United Kingdom

12:00-12:20 Digital twin for the water industry: how an interoperable tool landscape paves the way

for a sustainable future

Bora Helvaci

Water Industry Development Manager **Siemens Industrial LLC,** United Arab Emirate

Digital twin & internet of things (IoT) 12:20-12:40 application for connected performance in

brownfield EPC projects

Abdus Samad

Sr. Process Designer

NMDC Energy, United Arab Emirates

12:40-13:00 A pioneer implementation of industrial

internet of things

Abdullah Abaoud

Digital Transformation Officer Saudi Aramco, Saudi Arabia

13:00-13:10 Automate quality and safety process in Marafiq through vyntelligence digital platform

Majdi Alharbi

Superintendent - Power Operation, Power Generation

Marafiq, Saudi Arabia

SESSION 12



UTILISATION OF HYDROGEN FOR POWER GEN AND AUTOMOTIVE

CHAIRS

Chris Larsen

Senior Director - Clean Energy

Dynapower

Christopher Sagar

Chief Engineer Atkins

PRESENTATIONS

11:40-12:00 Gas pipelines – the pathway to make hydrogen accessible and affordable

Mohit Rai

Business Advisor - MD & CEO Office Pipeline Infrastructure Limited, India

12:00-12:20 100% hydrogen gas turbine full scale validation test outcomes and results

Serena Gabriele

Turbomachinery Hydrogen Platform Manager Baker Hughes, Italy

The path to decarbonisation through re-12:20-12:40 electrification of green hydrogen: focus on green hydrogen production

Daniel Schwappach

Head of Sustainable Energy Systems, Middle East & Africa

Siemens Energy, United Arab Emirates

12:40-13:00 PtX products

Grigorios latropoulos

Head of Business Development, MEA Region MAN Energy Solutions, Germany

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SESSION 13



WATER TREATMENT AND **RESOURCE MANAGEMENT**

CHAIRS

Dr. Amber Bullen

Technical Director – Wastewater, Engineering Services

AtkinsRéalis

Hebah Abbas

Chairwoman

Kuwait Water Association

PRESENTATIONS

Dynamic criticality assessment method for 14:00-14:20

secure short-term operational plans in water systems

Abdallah Elbashatli

Water Operations - Planning Engineer

EWEC, United Arab Emirates

14:20-14:40 Improving water security – insights from

testing Australia's town and city water

security framework

Huw Pohlner

Associate Director

Ricardo, Australia

14:40-15:00 Strategic pipeline alliance (SPA)- transmission

main - Anglian water UK - deliberately

delivering differently

Mark Jones

Chief Engineer

AtkinsRéalis, UK

15:00-15:20 A strategic water reserve for emergency

water supplies in Abu Dhabi

Dr. Mohamed Dawoud

Senior Water Advisor

Environment Agency - Abu Dhabi, United Arab

Emirates

15:20-15:40 Enhanced integrated network planning (eINP): a strategic framework for optimising utility

operations

Omar Al Ameri

Manager, Water Network Development &

Investment

TAQA Arabia - Power Group, United Arab

Emirates

SESSION 14



MODERNISATION STRATEGIES AND INNOVATIONS IN POWER SYSTEMS

CHAIR

Lina Hiiazi

Proposal Manager

Masdar

Imteyaz Ahmad

Managing Director - Power and Water

Future Water and Power Consulting (FWPC)

PRESENTATIONS

Design criteria for the conventional power 14:00-14:20

island of small modular reactors

Marco Cioffi

Product Manager

Ansaldo Energia, Italy

14:20-14:40 Research update on engineering and

construction innovations

Hasan Charkas

Senior Principal Manager (Advanced Reactors Engineering)

EPRI, United States

14:40-15:00 Optimal design of hybrid solar power systems:

a case study in the chinese industry

Fabian Gross

R&D Lead

sbp sonne, Germany

15:00-15:20 Development of a cloud-based fleet-wide

settlement solution for SEC

Josef Petek

Manager Commercial Operations

ENEXSA GmbH, Austria

15:20-15:40 Leveraging IoT, AI/ML, and cloud technologies for accelerating global energy transition

through virtual power plants and flexibility services platforms

Siddharth Saboo

Head of Energy / O&G (EMEA)

Amazon Web Services, United Arab Emirates



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SESSION 15



OPERATIONAL EXCELLENCE 4.0

CHAIRS

Hervé de Trémiolles

International Development Manager

EDF / CSFN

Siddharth Saboo

Energy Lead, EMEA

AWS

PRESENTATIONS

Al-driven transformation: shaping the future 15:40-16:00

> of operational excellence, workforce management, and cost efficiency

Kevin Williams

Co-Founder and CEO

K.M. Williams and Associates LLC, India

16:00-16:20 Smart maintenance of high voltage

underground cables

Sultan Al Katiri

Senior Cables Engineer

TRANSCO, United Arab Emirates

Operational excellence - a path for 16:20-16:40

sustainable and continuous refinement

Praveen Ashokan

Manager - Global Fleet Management

ENGIE, United Arab Emirates

16:40-17:00 Enhancing production facilities productivity

through Overall Equipment Effectiveness

(OEE) approach

Mohamed Hamdallah

Power Generation Manager

TAQA Arabia - Power Group, Egypt

SESSION 16



INTEGRATED SAFETY CULTURE

CHAIRS

Sabooh Asghar

VP-HSEO

Tabreed

Eng. Doreb Ebrahim

Enertech Middleast FZ LLC

PRESENTATIONS

Perspectives for senior power & utilities 15:40-16:00

leaders on the imperative to rapidly transform their management of critical operational risks

Mathieu Leduc

Director

dss+, United Arab Emirates

16:00-16:20 Chemical free & environmentally friendly

technique to eliminate the interference of dissolved oil from produced water chemical

analysis

Faisal Al Shehri

Technical Advisor

Saudi Aramco, Saudi Arabia

16:20-16:40 Safety by design engineering of transformers

with embracing new concepts in utility

specifications

Himanshu Shah

Application Engineer - Power Transformers &

Renewables

Hitachi Energy India Ltd, India

16:40-17:00 The future of civil defense: embracing AI

responders for enhanced emergency

management

Khaled Al Atrash

Technical Operation Expert

Civil defence, United Arab Emirates



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SESSION 17



ADVANCING TRANSMISSION AND DISTRIBUTION NETWORKS

CHAIR

Dr. Bouhadjar Ahemed Seddik

Electrical Engineering Lead

Siemens Energy

Imteyaz Ahmad

Managing Director – Power and Water Future Water and Power Consulting (FWPC)

PRESENTATIONS

10:00-10:20 Utilities require a paradigm shift in managing their supply chains for building the electricity

grids for the energy transition

Martin Hoegel

Partner & Director

Boston Consulting Group, United Kingdom

10:20-10:40 Statnett's initiative to implement digital substations in the Norwegian power grid

Nargis Hurzuk

Technology Responsible Substation/ Project Manager- R&D and Innovation

STATNETT, Norway

A proposed framework for lifecycle 10:40-11:00

> management of legacy substation protection and control systems: a case study of transmission substations in UAE

Vinay Sardana

Senior Power System Engineer

TRANSCO, United Arab Emirates

Technical feasibility and dynamic stability 11:00-11:20

assessment of fully-islanded power networks for large-scale green hydrogen production

Shahzaib Anjum

Power Systems Engineer

Blake Clough Consulting Middle East LLC-FZ

United Arab Emirates

11:20-11:40 **Automatic FLISR in decentralised ADMS**

systems

Francisco Arroyo

Smart Grid Manager Minsait, Spain

SESSION 18



SUSTAINABLE SOLUTIONS FOR WASTEWATER MANAGEMENT AND RESOURCE RECOVERY

CHAIRS

Hebah Abbas

Chairwoman

Kuwait Water Association

Julio De La Rosa Jurado

Regional Director

Acciona

PRESENTATIONS

10:00-10:20 Carbon net-zero wastewater treatment

Amber Bullen

Technical Director

AtkinsRéalis, UK

10:20-10:40 Onunda technology converts bioresources into

three valuable products: syngas, phosphorousrich biochar, and nutrient-rich liquor

Dr. James Meyer

Chief Technology Officer

Onunda, United Arab Emirates

Water demand management based on water 10:40-11:00

consumption data analysis in the emirate of

Abu Dhabi

Dr. Shayma AlBannay

Grid Sustainability Section Manager

ADDC, United Arab Emirates

11:00-11:20 Knowledge, attitudes, skills, and aspirations of farmers in Abu Dhabi and western Australia on

groundwater management: a comparison

study

Yusri Alyaarbi

Senior Water Sustainability Engineer

ADDC, United Arab Emirates



Capital Suite 8

SESSION 19



BALANCING COMPLIANCE, INNOVATION AND SECURING **CRITICAL INFRASTRUCTURE**

CHAIRS

Biren Gandhi

Global Energy and Utilities Practice Leader

IBM Consulting

Khaled Gamal

Head of Sales - Digital Grid, MEA

Schneider Electric

PRESENTATIONS

11:30-11:50 Navigating the regulatory landscape: impact of cybersecurity regulations on the utility

business

Mohamed Fahmy

Cyber & Protective Security Section Manager

TRANSCO, United Arab Emirates

11:50-12:10 Sustainable and smart water and power -

reducing waste and CO2 in field maintenance

Mehryar Entezari

Strategic Value Advisor

SAP. United Arab Emirates

New cyber-attack, data security and OT/IT 12:10-12:30

> convergence challenges for transmission and distribution system operators (TSOs and

DSOs)

Florian Kolb

CCO & General Manager Energy

Intertrust technologies, United States

12:30-12:50 Autonomous flying robots for sewer

digitalisation

Fran Espada

CEO

Hovering Solutions, Spain

12:50-13:10 Powering energy transition: securing OT

transformation in power and utilities through cloud enabled edge computing and network

modernisation

Deependra Singh Shekhawat

Energy Industry Specialist

Amazon Web Services, Australia



Capital Suite 9

SESSION 20



GRID INTEGRATION AND DEMAND SIDE MANAGEMENT STRATEGIES

CHAIRS

Dr. Satish Balantraou

Principal Consultant

Infosys

Anousha Khan

Energy Sustanability Consultant

Insight Plum

PRESENTATIONS

Towards carbon-neutral cities: a framework for 11:30-11:50 integrating building retrofitting, microclimate

design, and progressive urban energy policies

Hamsah Khalil

Climate Change and Sustainability Senior Manager

ESAC Group, United Arab Emirates

11:50-12:10 Driving energy efficiency in Abu Dhabi's

> industrial sector: a journey towards decarbonisation through collaborative energy

management

Jonathan Churchman

Industrial energy and water efficiency lead

ADDC, United Arab Emirates

Identification of major power interconnections 12:10-12:30

to valorise untapped RES potential around

Middle-East

Nicolas Chamollet

Power System and Energy Markets Expert

Electricité de France (EDF), France

12:30-12:50 Empowering rural Kenya? navigating the

future of PAYGo solar systems and IoT integration for sustainable development

Laura Hellqvist

Doctoral Student SOAS

University of London, United Arab Emirates

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SESSION 21



MAXIMISING ENERGY EFFICIENCY AND INNOVATIONS IN COOLING **SYSTEMS**

CHAIRS

Antonio Di Cecca

Chief Operating Officer

Tabreed

Cedric Carretero

Technical Director

Dalkia

PRESENTATIONS

14:00-14:20 Smarter pricing unlocks customer & system henefits

Jodi Amy

Director - Energy, Sustainability & Infrastructure

Guidehouse, United Arab Emirates

Enhancing efficiency and operational 14:20-14:40

excellence in district cooling systems: performance measurement and optimisation

strategies

Marc Hager

CTO

Naotilus GmbH, Germany

Phase changing material (PCM) application in 14:40-15:00

cooling related energy saving & energy

efficiency

Balazs Kovacs

International Sales

Heatventors, Hungary

District cooling: the optimal solution for the 15:00 - 15:20

progress of sustainable communities

Atef Al Braiki

Senior Vice President – Operations and Maintenance

Tabreed, United Arab Emirates

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SESSION 22



WORKFORCE OF THE FUTURE

CHAIRS

Biren Gandhi

Global Energy and Utilities Practice Leader

IBM Consulting

Rui De Sousa

Principal, Industry & Value Advisor, Middle East & Africa South

PRESENTATIONS

14:00-14:20 Digital asset management - cultural shift required to maximise impact

Ramez Haddadin

Principal – Operational Excellence Leader dss+, United Arab Emirates

14:20-14:40 Empowering workforce for operational excellence: cultivating communication,

engagement, and growth for streamlined success in business expansion

Rubab Irshad,

Operations Engineer

Engro Powergen Qadirpur Ltd, Pakistan

The tailor-made transition and handover 14:40-15:00

process: enhancing organisational agility

Ankit Bisht

Engineer

Emaar, United Arab Emirates

15:00-15:20 Assessment of the African network of centers

of excellence in electricity

Alexis Rechain

Managing Director

Stratec Arc, Cote d'Ivoire

15:20-15:40 **Enhancing Operational Excellence and** Workforce Management through Al-Driven Labor Management

Kevin Williams

Co-Founder and CEO

K.M. Williams and Associates LLC,

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SESSION 23



INNOVATIONS POWERING THE **ENERGY SECTOR**

CHAIR

Peter Ondko

Associate Director

Boston Consulting Group (BCG)

Buket Guner

Investment Manager

EDF, UAE

PRESENTATIONS

15:40-16:00

Revolutionising power generation: harnessing the winds of change with innovative turbine technology

Aafaque Bhatti

AM Operations

Engro Powergen Qadirpur Ltd, Pakistan

16:00-16:20

Bespoke Solution For Treatment, Conditioning And Handling Of Radioactive Wast

Francesca Maggini

Technical Sales Manager, Business Development & Sales

Ansaldo Nucleare, Italy

16:20-16:40

Energy storage valuation framework: to be utilised before adoption of storage for grid

Avanthika Satheesh

Director - Emerging Tech MENA

Customized Energy Solution, United Arab Emirates

16:40-17:00

A novel prototype of water lifting pump to save energy and improve efficiency of power utilisation

Mohammed Abdelhafez

Engineer

Atlas, Egypt

17:00-17:20

Power plant intelligent controller (PIC)

Rudy Skaff

Performance Optimisation Manager Siemens Energy, United Arab Emirates

SESSION 24



ENABLING A SUSTAINABLE ENERGY TRANSITION

15:40-17:20

CHAIRS

Mohamed Saued Taha

Projects & Technical Consulting Manager

Enppi

Ismail Serhan

Head of Heat Exchanger Business - MEA

Danfoss

PRESENTATIONS

15:40-16:00 Carbon credit trading scheme and its

applicability in energy intensive industries

Geetali Kalita

Head-ESG

Numaligarh Refinery, India

16:00-16:20 Exploring the role of transformers in the

circular economy

Mohamed Elfayoumy

Application Engineer

Hitachi Energy LLC, United Arab Emirates

Regulatory challenges, strategies and 16:20-16:40

measures support implementation of utilities

net-zero ambitions

Alex Oeser

Vice President

TAQA, United Arab Emirates

A comprehensive analysis of global energy 16.40-17.00

transformation and its utility industry

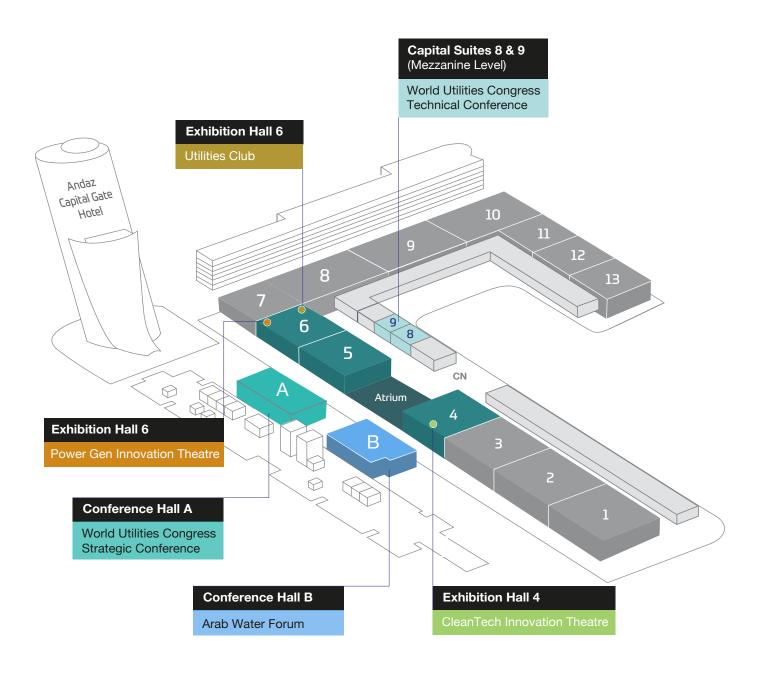
implications

Manas Joshi

Manager

TATA Power-DDL, India

VENUE MAP





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