



**WORLD
UTILITIES
CONGRESS**

HOSTED BY



25 - 27 MAY 2027 | ABU DHABI, UAE

TECHNICAL CONFERENCE CALL FOR PAPERS



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WELCOME NOTE FROM THE TECHNICAL COMMITTEE CHAIRMAN



As the world shifts toward a sustainable future, modern and climate-resilient infrastructure plays a critical role.

At the World Utilities Congress in 2027, we are focused on building smarter, more efficient utility systems that leverage technology, attract investment, and provide reliable, affordable services for everyone.



Dr. Afif Saif Al Yafei

CEO

TAQA Transmission



Transmission
طاقة لشبكات النقل



EVENT OVERVIEW

The World Utilities Congress is the premier global platform for the utilities sector, convening policymakers, operators, investors and technology leaders to shape the future of power, water and sustainable infrastructure in the Age of Electricity.

As electrification accelerates and demand for energy and water continues to grow, the sector's challenge is no longer ambition, but execution, requiring coordinated action across policy, investment and infrastructure delivery.

At the centre of this transformation, the Congress enables collaboration at scale, connecting the value chain, aligning priorities and advancing integrated, real-world solutions.

25,000+

**Exhibition
attendees**

1,000+

**Conference
delegates**

500+

**Expert
speakers**

250+

**Global
exhibitors**



TECHNICAL CONFERENCE

The Technical Conference at the **World Utilities Congress** is a dedicated platform for engineers, operators, researchers, and technology specialists advancing next-generation water and power systems.

Focused on real-world application, the programme showcases engineering practices and operational solutions that enhance performance, strengthen reliability, and enable the large-scale deployment of sustainable infrastructure.

Through case studies, technical presentations, and peer-led discussions, it supports knowledge exchange grounded in implementation - highlighting proven approaches, field experience, and scalable solutions across the utilities value chain.

Aligned with the Strategic Conference, it bridges strategy and execution - translating policy ambition and investment priorities into efficient, resilient, and future-ready systems.



AT A GLANCE

THEATRE 1

NET ZERO ENERGY HUB

- Clean Power Generation for a Net Zero Future
- Nuclear and Firm Low-Carbon Power for Energy Security
- Grid Modernisation and Transmission Innovation
- Flexible Energy Systems with Hydrogen and Storage

THEATRE 2

GRID & AI HUB

- AI, Autonomy and Intelligent Utilities
- Distributed Energy and Decentralised Power Systems
- Electrified Mobility and Integrated Energy Systems
- Cybersecurity and Digital Trust for Utilities

THEATRE 3

WATER & CLIMATE HUB

- Future-Ready Water Systems & Infrastructure
- Circular Waste Management and Resource Recovery
- ESG, Sustainable Finance and Market Innovation
- Future Workforce, Skills and Operational Excellence

WHY PARTICIPATE

PRESENT WHERE THE INDUSTRY'S LEADING ORGANISATIONS ARE

Present your work alongside industry leaders from organisations including TAQA, Hitachi Energy, SUEZ and Siemens Energy, reaching more than 1,000 technical conference delegates as part of a global congress that welcomes over 25,000 attendees from across the power and water value chain.

SHOWCASING SOLUTIONS THAT DELIVER RESULTS

This is a platform for proven solutions, not theory. Spanning 12 categories across three technical hubs - Net Zero Energy, Grid & AI, and Water & Climate - it showcases innovations supported by measurable results, real-world case studies, practical implementation and demonstrated industry impact.

WHERE RESEARCH MEETS INVESTMENT AND IMPLEMENTATION

The GCC is investing more than USD 1 trillion in energy infrastructure by 2030. Present alongside 500+ expert speakers and 250+ global exhibitors at the forefront of delivering the technologies and infrastructure powering the energy transition.

MEET THE DECISION-MAKERS DRIVING UTILITY TRANSFORMATION

Delegates include the project leaders, technical experts and procurement professionals responsible for technology selection, project delivery and utility investment across the region - placing your solutions in front of the decision-makers who matter most.

FOCUSED ON THE NEXT FRONTIER OF UTILITY INNOVATION

The introduction of AI, Autonomy and Intelligent Utilities and Nuclear and Firm Low-Carbon Power for Energy Security reflects the industry's growing focus on intelligent operations, system resilience and secure, low-carbon electricity systems.

COLLABORATE ACROSS THE FULL UTILITY VALUE CHAIN

Connecting specialists across power, water, grid infrastructure, AI, hydrogen and emerging technologies through three dedicated theatres, the Technical Conference is designed to foster cross-sector collaboration by design, not by chance.

SUBMIT YOUR ABSTRACTS TODAY

www.worldutilitiescongress.com/submit

IMPORTANT DEADLINES



Call for Papers
Opens

Monday
20 July 2026



Call for Papers
Closes

Friday
11 September 2026



Author
Notifications

Friday
09 October 2026



World Utilities
Congress 2027 opens

Tuesday
25 May 2027

NET ZERO ENERGY HUB

Focus: Power Generation | Transmission | Storage | Hydrogen | Nuclear | Low-Carbon Fuels



CATEGORY 1

CLEAN POWER GENERATION FOR A NET ZERO FUTURE

Deploy and scale renewable and low-carbon generation technologies to power industries and communities, accelerating the energy transition with proven performance and bankable projects.

- Utility-scale solar and hybrid systems
- Wind (onshore and offshore)
- Geothermal, hydro, and marine energy
- Waste-to-energy and biomass
- Distributed generation and microgrids
- Off-grid and rural power solutions
- Industrial clean energy and critical minerals
- Decarbonising power and flexible gas systems
- District cooling and heating
- Carbon capture, utilisation and storage (CCUS) for power generation
- Renewable energy auctions and competitive procurement models
- Power Purchase Agreements (PPAs), corporate PPAs and long-term contracting framework
- Investment models and bankability of clean energy projects



CATEGORY 2

NUCLEAR AND FIRM LOW-CARBON POWER FOR ENERGY SECURITY

Position nuclear and other low-carbon baseload technologies as core enablers of reliable, large-scale decarbonisation, with attention to safety, finance, and integration with renewables and grids.

- Large-scale nuclear and life extensions
- Small modular reactors (SMRs) and advanced reactors
- Nuclear safety, regulation and public trust
- Nuclear waste management and decommissioning
- Integration of nuclear with renewables and grids
- Co-generation: power, heat, hydrogen and industrial uses
- Financing models and risk frameworks for nuclear
- Nuclear supply chain, skills and workforce
- International cooperation and technology transfer
- Comparative perspectives with other low-carbon baseload options
- Fusion energy developments and future nuclear technologies

NET ZERO ENERGY HUB

Focus: Power Generation | Transmission | Storage | Hydrogen | Nuclear | Low-Carbon Fuels



Enable smarter, stronger, and more adaptable grids that integrate diverse power sources, connect markets across borders, and withstand climate stress and security threats.

- HVAC and HVDC systems
- Cross-border links and power pools
- Substation automation and digital upgrades
- Voltage and reactive power control
- Advanced conductors and dynamic line ratings
- Grid congestion management and flexibility
- Distributed energy resource (DER) integration
- Forecasting and outage prediction
- Climate-resilient grid planning and asset hardening
- Physical security and supply chain risk for transmission assets
- Grid-forming technologies and inverter-based resources
- Regional electricity markets and cross-border energy trading
- Transmission investment planning and financing
- Market design, liberalisation and regulatory frameworks
- Capacity markets, flexibility markets and ancillary services



Deliver dependable, low-carbon energy by combining hydrogen, long-duration storage, and hybrid systems that keep the lights on while cutting emissions in hard-to-electrify sectors.

- Green hydrogen
- Blue hydrogen, CCUS and gas transition
- Hydrogen blending and ammonia pathways
- Battery technologies (Li-ion, LFP, etc.)
- Long duration energy storage (LDES)
- Thermal and mechanical storage
- V2G and EV battery reuse
- Industrial electrification and power-to-X
- Peak shaving and resilience services
- Hybrid fuel and storage systems
- Hydrogen infrastructure, transport and storage networks
- Sustainable aviation fuels and alternative clean fuels
- Energy storage business models, revenue stacking and market participation

GRID & AI HUB

Focus: Digitalisation | AI | Smart Grids | Mobility | Cybersecurity | Data



CATEGORY 5

AI, AUTONOMY AND INTELLIGENT UTILITIES

Transform utility operations with AI, data-driven decision intelligence, and autonomous systems that improve efficiency, anticipate failures, and optimise grid performance.

- Predictive maintenance and asset monitoring
- AI for forecasting, dispatch and optimisation
- Digital twins and simulation for design and operations
- Analytics, automation and control room innovation
- Customer insights, smart billing and engagement
- Control room automation and decision support
- Integrated energy management platforms
- ML-based fault and anomaly detection
- AI-driven sustainability tracking and reporting
- Virtual assistants, chatbots and generative AI for engineering
- Data platforms, interoperability and utility data ecosystems



CATEGORY 6

DISTRIBUTED ENERGY AND DECENTRALISED POWER SYSTEMS

Build dynamic, customer-focused power systems powered by smart devices, decentralised resources, and flexible demand that redefine how energy is traded and consumed.

- Smart meters and IoT
- Demand response and flexibility markets
- Virtual Power Plants (VPPs) and aggregators
- Rooftop solar, batteries and EVs at scale
- Blockchain and peer-to-peer trading models
- Intelligent inverter and gridforming technologies
- Consumer engagement and prosumer business models
- Microgrids and local energy communities
- DERMS platforms and orchestration
- DER regulations and market access frameworks
- Energy-as-a-service and new utility business models

GRID & AI HUB

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CATEGORY 7

ELECTRIFIED MOBILITY AND INTEGRATED ENERGY SYSTEMS

Accelerate urban and industrial sustainability by electrifying transport, integrating charging with grid operations, and creating smart mobility ecosystems for cleaner cities.

- EV charging infrastructure and planning
- Public transit and fleet electrification
- Smart mobility hubs and Mobility-as-a-Service (MaaS)
- Load management, smart charging and grid impact studies
- Battery swapping and V2G integration
- Urban energy planning and district charging
- Energy-as-a-service for transport operators
- Decarbonising last-mile logistics and delivery fleets
- Renewables integration in cities and transport hubs
- Clean mobility policy, incentives and standards
- Heavy-duty vehicle electrification and hydrogen mobility
- Charging infrastructure investment and business models



CATEGORY 8

CYBERSECURITY AND DIGITAL TRUST FOR UTILITIES

Protect the digital and operational backbone of utilities with robust cybersecurity, physical security awareness, and risk management, ensuring secure, reliable energy and water delivery in an interconnected world.

- OT and IT cybersecurity for utilities
- Data privacy, compliance and regulation
- Incident detection, response and recovery
- Cloud, edge and hybrid security architectures
- AI ethics, transparency and governance
- Blockchain and distributed ledger security
- Infrastructure resilience and cyber-physical security
- Cyber workforce training and certifications
- Interoperability and supply chain security
- Digital risk management, assurance and governance frameworks
- AI-enabled cyber threats and autonomous security response

WATER & CLIMATE HUB

Focus: Water | Waste | ESG | Circularity |
Workforce | Markets



CATEGORY 9

FUTURE-READY WATER SYSTEMS AND INFRASTRUCTURE

Build resilient, energy-smart water networks that safeguard supply, promote reuse, and support agriculture, industry, and communities with sustainable solutions.

- Renewable and low-carbon desalination
- Wastewater treatment, reuse and resource recovery
- Smart metering, leak detection and non-revenue water reduction
- Energy efficiency in water utilities and pumping
- Agricultural water management and irrigation modernisation
- Industrial water reuse and zero-liquid discharge
- Water-energy nexus planning and optimisation
- Pipelines, storage, drainage and network hardening
- Rural and off-grid water solutions
- Water quality monitoring, compliance and digital dashboards
- Climate adaptation and water resilience planning
- Flood management and stormwater infrastructure
- Water security strategies for growing cities



CATEGORY 10

CIRCULAR WASTE MANAGEMENT AND RESOURCE RECOVERY

Turn waste into wealth by applying circular economy principles that reduce landfill reliance, cut emissions, and unlock new resources and materials from discarded materials.

- Municipal solid waste management and optimisation
- Waste-to-energy and thermal treatment technologies
- Sludge and bio-solids management and reuse
- Industrial and hazardous waste reuse and valorisation
- Organic waste composting, anaerobic digestion and biogas
- Materials recovery, recycling and advanced sorting
- E-waste management and circular electronics
- Construction and demolition waste recycling
- Circular economy models and business frameworks
- Landfill diversion, zero-waste strategies and policy
- Carbon capture from waste-to-energy facilities

WATER & CLIMATE HUB

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CATEGORY 11

ESG, SUSTAINABLE FINANCE AND MARKET INNOVATION

Embed ESG principles across utilities operations and strategy, secure green finance, and establish market mechanisms that accelerate investment and deployment.

- ESG reporting, benchmarking and disclosure standards
- Climate risk assessment, stress testing and resilience planning
- Green bonds, sustainable finance and blended finance instruments
- Governance, board accountability and risk oversight
- Social impact, stakeholder engagement and community benefits
- Diversity, equity and inclusion in utilities organisations
- Corporate carbon neutrality roadmaps and implementation
- Nature-based solutions, biodiversity and ecosystem restoration
- Investor transparency and long-term value creation
- Market reforms, liberalisation and capacity/flexibility markets
- Carbon pricing, trading and renewable PPAs/auctions
- Cross border power trade and regional market structures
- Regulatory enablers for new market designs
- Infrastructure investment models, PPPs and project financing mechanisms



CATEGORY 12

FUTURE WORKFORCE, SKILLS AND OPERATIONAL EXCELLENCE

Empower utility teams with the skills, culture, and leadership needed to drive innovation, operational excellence, and an inclusive, future-ready workforce.

- Reskilling, upskilling and digital workforce transformation
- Leadership and talent development pipelines
- HSE management and safety culture
- Just transition workforce planning and labour implications
- Diversity and inclusion in hiring and retention
- Vocational training partnerships with industry and academia
- Operational excellence frameworks and continuous improvement
- Workforce well-being, engagement and mental health
- Talent attraction, retention and future grievance models
- Project management excellence and delivery capabilities
- Digital workforce transformation and AI adoption readiness

ABSTRACT SUBMISSION GUIDELINES

Your abstract will be reviewed by the World Utilities Congress 2027 Technical Committee, comprising CEOs, CTOs and senior technical leaders from across the global utilities sector who are shaping this year's Technical Conference programme. We encourage early submission to allow sufficient time for a comprehensive review.

The final submission deadline is 11 September 2026.

IMPORTANT: Submit your abstract through the official online portal:
www.worldutilitiescongress.com/submit

ABSTRACT SUBMISSION

- Write your abstract in English, within 500 words.
- Upload supporting material, illustrations, graphs, or tables as attachments.
- Submit each abstract once. If it fits more than one category, choose the one that fits best.
- You can submit multiple abstracts, within a category or across several but if selected, you'll only present once.
- Secure management approval before you submit. Flag any clearance issues at the time of submission.
- If you have presented this abstract elsewhere, please tell us where and when.



SUBMIT YOUR ABSTRACTS TODAY  www.worldutilitiescongress.com/submit

ABSTRACT SCORING CRITERIA

The Technical Committee will score your abstract against three criteria:

- **Impact:** Demonstrate the difference your work has made, supported by measurable outcomes, evidence or real-world case studies.
- **Originality:** Showcase what is new-whether an innovation, technical breakthrough, novel application or practical insight that advances the utilities sector.
- **Relevance:** Explain why your work matters now and how it addresses the current priorities and challenges facing the global utilities industry.

WHAT TO INCLUDE:

Provide the Technical Committee with the information needed to evaluate your submission.



DESCRIPTION:

Outline the challenge or opportunity addressed, the objectives of the work, and the methodology, technologies or data used.



RESULTS & CONCLUSIONS:

Present the key findings, measurable outcomes and conclusions, highlighting how they advance current knowledge or practice.



APPLICATIONS:

Explain how the solution, methodology or findings can be applied across the utilities sector or adapted to other use cases.



TECHNICAL CONTRIBUTIONS:

Describe the value your work adds to the industry's technical knowledge, innovation or best practice, and its potential to support future development.



SUBMIT YOUR ABSTRACTS TODAY



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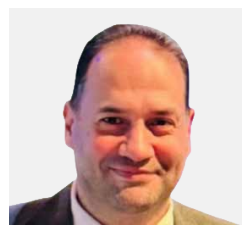
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