

منتدى خبراء المياه والطاقة (الدورة الثانية)

Water and Energy Experts Forum (the Second Edition)



14 - 16 September 2026

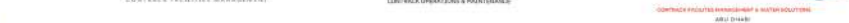
We were honored to have the Patronage of



وزارة الإسكان والمرافق والمجمعات العمرانية
Ministry of Housing, Utilities & Urban Communities



Platinum Sponsors



Golden sponsor



Silver sponsor

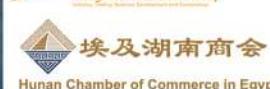


Main Sponsor



Wady El Nile Contracting & Real Estate Investments Co.

Strategic Partner



Cairo International Convention Center (CICC), Cairo, Egypt



معرض

صياغة مستقبل المياه والطاقة المتجددة :
الاتجاهات العالمية، والتقنيات المتقدمة، والابتكارات الرائدة

**Shaping the Future of Water & Renewable Energy :
Global Trends, Cutting-Edge Technologies, and Innovations**

وذلك ضمن فعاليات المعرض والمؤتمر الدولي للمياه والطاقة بالشرق
الأوسط وأفريقيا (الدورة الثانية ٢٠٢٦)

**The International Exhibition & Conference for Water
and Energy in the Middle East and Africa (Egypt)
(the Second Edition 2026)**

Aqua Energy Expo MEA (Egypt) 2026

أكوا إنرجي إكسبو (مصر) ٢٠٢٦

تحت شعار

عندما تلتقي كفاءة المياه مع كفاءة الطاقة تتحقق الاستدامة

When Water Efficiency Meets Energy Efficiency, Sustainability Comes True

The forum will be held as part of the activities of the International Water and Energy Exhibition and Conference in the Middle East and Africa (Egypt) 2026 Aqua Energy Expo (Egypt)

from September 14 to 16, 2026

at the Cairo International Convention Center in Nasr City, Cairo.

سيُعقد المنتدى ضمن فعاليات المعرض والمؤتمر الدولي للمياه والطاقة بالشرق الأوسط وأفريقيا (مصر) ٢٠٢٦ أكوا إنرجي إكسبو (مصر)

من ١٤ إلى ١٤ سبتمبر ٢٠٢٦

في مركز القاهرة الدولي للمؤتمرات بمدينة نصر بالقاهرة.



The forum includes 10 main themes and more than 40 technical sessions covering Water, Energy, and Sustainability with the most prominent engineers and experts in Egypt and the Arab World.

يضم المنتدى ١٠ محاور رئيسية وأكثر من ٤٠ موضوع تقني متنوع بين المياه، الطاقة والاستدامة مع أكبر المهندسين والخبراء في مصر والوطن العربي.

1. Digital Transformation and Smart Solutions for Water Management

- Innovative Technologies and AI for Smart Water Management.
- IoT and Smart Sensors for Real-Time Monitoring
- Advanced Modeling Techniques for Enhancing Water Management.
- AI and Data Analytics for Predictive Maintenance
- Digitalization and AI for Water optimization: enhancing Water Quality Egypt's C&I
- Enhancing Efficiency and Sustainability through Smart Water Management
- Digital Twins for Water Infrastructure Optimization
- Applications of Artificial Intelligence in Water Desalination and Treatment
- Automated Control Systems for Efficient Operations



2. Circular Economy Models for Sustainable Water Reuse

- Green Infrastructure for Sustainable Urban Drainage.
- Integration of Circular Principles in Water Management
- Sustainable and Scalable Reuse Solutions
- Innovative Water Recycling Approaches
- Policy and Operational Frameworks for Circular Water Management
- Operational Models for Circular Water Management



3. PPP-Based Development and Operation of Water Infrastructure

- Structuring Effective PPP Models
- Adapting to Policy Shifts and Public-Private Engagement Models
- Financing and Investment Strategies
- Risk Sharing and Contract Management
- Performance Metrics and Continuous Improvement
- Legal Frameworks for Public and Private Partnerships



4. Energy Optimization and Renewable Energy Integration in Water Sector Facilities

- **Water-Energy Nexus: Collaborative Solutions for Sustainability.**
- **Mitigation Strategies for Water Resources: Achieving a Net-Zero Future.**
- **Powering Africa's future: Energy investment and economic growth**
- **Solar and beyond: green hydrogen as a gateway to Africa's energy future**
- **Pathways to regional and global leadership: developing Egypt as a renewable energy export hub**
- **Standardizing hybrid power models for green hydrogen: best practices for optimal capacity factor and regional integration**
- **The Role of Solar Energy in Water Treatment**
- **Towards Decentralization of Desalination Plants for Remote Regions Using Energy Recovery Systems and Renewable Energy Sources**
- **Energy-Efficient Pumping and Distribution Systems**
- **Energy Recovery from Wastewater Streams**



5. Advanced Technologies and Innovation Ecosystems in the Water Industry

- Advanced Membrane and Filtration Technologies
- Automation and Control Systems
- Innovation Hubs and Research Ecosystems
- Predictive Maintenance and Asset Management Tools
- Real-Time Monitoring and Digital Sensors
- Nanotechnology Applications in Advanced Water Treatment Systems



6. Next-Generation Desalination Solutions

- Sustainable Desalination Industry in Egypt
- National Strategies and Policies for Sustainable Desalination
- Brine Management and Zero-Liquid Discharge
- Water Security: Brine Recovery and Brine Mining as a Path toward Sustainability and Operational Efficiency
- Forward Osmosis and Hybrid Membrane Systems
- Advanced Pre-Treatment and Anti-Scaling Techniques
- Hybrid Desalination Solutions (RO + Thermal)
- Research and Innovation for Next-Generation Desalination



7. Innovative Treatment for Wastewater and Industrial Effluents

- Sustainable Technologies for Sanitation and Industrial WW Treatment
- Innovative and adaptive technologies for water and wastewater management.
- Approaches for treatment solutions to local environmental and industrial contexts.
- Integrating climate adaptation and resilience into water and sanitation systems
- Compact Biofilm Technology for High-Strength Industrial Effluent
- Main Sewer Rehabilitation
- Sludge Management and Resource Utilization
- Transforming Sludge into Valuable Resources: Real Case Studies and Successful Investment Project.
- Future Vision and Strategic Recommendations for Advancing Egypt's Water and Sanitation Sector



8. Flexible and Smart Water Infrastructure Design for Modern Cities

- Integration of Smart City Solutions and Digital Technologies in Water Management Long-Term Planning for Water Security, Sustainable Resource Management, and Urban Development.
- Smart Planning and Design Strategy for Water Management and Maximizing Utilization in Fourth-Generation Cities (Egypt – Africa – Arab World)
- Smart Water, Smarter Flow: Remote Monitoring at the Core of Process Optimization
- Adaptive Water Network Planning
- Digital Monitoring and Control Systems
- Integrated Stormwater and Flood Management



9. Efficient Infrastructure Asset Management for Water Sector Performance

- Water Resources Vulnerability under a Changing Climate.
- Adaptation to Climate Change: Building Resilient Water Systems.
- Achieving Resilience for Coastal Areas and Urban Centers.
- Strategic Water Asset Planning Considering Life-Cycle Costs and Future Needs.
- Optimizing Operations and Maintenance to Minimize Disruptions and Improve Service Delivery.
- Asset Performance Monitoring and Evaluation to Ensure Optimal Functioning.
- Infrastructure Expansion, Technology Needs, and Market Entry Pathways



10. Environmental Sustainability and Resource Stewardship in Water Systems

- Cooperation for Sustainable Water Management.
- Fostering Regional and International Cooperation for Water and climate.
- Ecosystem-Friendly Water System Approach.
- Nature-Based Solutions for sustainable water systems.
- Regulatory Environment, Incentives, and Risk Mitigation for Investors
- Future Outlook: Sustainable Growth, Localization, and Innovation in Water Management
- Sustainable Management of Non-Conventional Resources in MENA Countries



Day 1 ▶ 14 September 2026

Time

➤ **Registration**

🕒 09:00 AM - 10:00 AM

➤ **Opening the Show**

🕒 10:00 AM - 11:00 AM

➤ **Session Title:**

🕒 11:30 AM - 11:50 AM

Circular Economy in Water and Energy: The Faculty of Earth Sciences Contributions



➤ **Dr. Fathy Abu El-Saud**

Vice Dean of the Faculty of Earth Sciences for Environmental Affairs and Community Development - Beni Suef University



➤ **Short break for refreshments**

🕒 11:50 AM - 12:00 PM

➤ **Session Title:**

🕒 12:00 PM - 12:20 PM

Advanced Technologies and Innovation Ecosystems in the Water Industry



➤ **Eng. Ahmed Khairy**

30 Years of Experience in Egypt and the Gulf in Desalination & Water

➤ **Short break for refreshments**

🕒 12:20 PM - 12:30 PM

➤ **Session Title:**

🕒 12:30 PM - 12:50 PM

Axes of Improving the Environment of the Desalination Industry



➤ **Eng. Mohamed Ramzy**

Business Development ... Contrack fm (Water Sector)



Day 1 ▶ 14 September 2026

> Prayer

🕒 12:50 PM - 01:20 PM

> Session Title:

🕒 01:20 PM - 01:40 PM

Application of Nanotechnology for Wastewater Treatment to Ensure Environmental Sustainability



> Prof. Dr. Abdulsalam Almuhamady

Head of the Arab Center for Nanotechnology

Prof of Laser and Nanotechnology

- Al-Kitab University / Ministry of Higher Education - Iraq



> Short break for refreshments

🕒 01:40 PM - 01:50 PM

> Session Title:

🕒 01:50 PM - 02:10 PM

Innovative Water Recycling and Approaches



> Dr. Rehan Mohamed

PhD from Faculty of Environmental Studies and Research
Ain Shams University



> Short break for refreshments

🕒 02:10 PM - 02:20 PM

> Session Title:

🕒 02:20 PM - 02:40 PM

Water: The New Global Currency



> Dr. Dalia Hassan Khafaga

General Manager of the Central Laboratories

(Holding Company for Water and Wastewater - Kafr El Sheikh)



> Short break for refreshments

🕒 02:40 PM - 02:50 PM

Day 1 ▶ 14 September 2026

➤ Session Title:

🕒 02:50 PM - 03:10 PM

From Reading to Decision
Protecting Your water Station with Industrial-Grade Measurement Accuracy



➤ Tai Zaiju

Regional Manager



➤ Eng. Hend Mostafa

CEO (Xplus Trading Company)

XPLUS
Trading company
Linking needs , Building success
Supmea®

➤ Short break for refreshments

🕒 03:10 PM - 03:20 PM

➤ Session Title:

🕒 03:20 PM - 03:40 PM

Beyond the Reading :Inside Water Meter Technology, Metrology & Accredited OIML R49 Testing



➤ Eng. Mirna Alhihi

Quality Control Head



➤ Short break for refreshments

🕒 03:40 PM - 03:50 PM

➤ Session Title:

🕒 03:50 PM - 04:10 PM

FILTRALITE Saint-Gobain Advancing the Future of Water Filtration



➤ Eng. Mohamed Kastawy

Area Sales Manager

FILTRALITE®

SAINT-GOBAIN

➤ Prayer

🕒 04:10 PM - 04:30 PM

Day 1 ▶ 14 September 2026

➤ Session Title:

Sustainable Solutions for Zero Liquid Discharge (ZLD)

🕒 04:30 PM - 04:50 PM



➤ Eng. Tamer Tolba

General Manager, MAS Trading

➤ Eng. Mohamed El Raey Fouad

Water Treatment Sector Development Manager

➤ Short break for refreshments

🕒 04:50 PM - 05:00 PM

➤ Session Title:

The Power of Bioaugmentation & Biomass Control

🕒 05:00 PM - 05:20 PM



➤ Dr. Zakaria Morad
Sternova USA,
Chair of the Board



➤ Short break for refreshments

🕒 05:20 PM - 05:30 PM

➤ Session Title:

Material Selection for Non-metallic Piping / Lining for Desalination and Water Treatment Plants.

🕒 05:30 PM - 05:50 PM



SIMONA

➤ Eng. Mohamed Basiuny

CEO of TECNOMEP Solutions

➤ Ms. Angela Mancini

Market Segment Manager Africa and Middle East / Simona



Day 1 ▶ 14 September 2026

➤ Short break for refreshments

🕒 05:50 PM - 06:00 PM

➤ Session Title:

🕒 06:00 PM - 06:20 PM

Innovative and Adaptive Technologies for Water and Wastewater Management



➤ Chemist. Mostafa Mohamed Eid
Director of Chemicalcon Company



➤ Short break for refreshments

🕒 06:20 PM - 06:30 PM

➤ Session Title:

🕒 06:30 PM - 06:50 PM

Key Challenges in Industrial Wastewater Treatment in Egypt and the Arab Region:
Technical, Environmental, and Economic Perspectives



➤ Dr. El-Sawy Mabrouk
Industrial Wastewater Treatment Consultant

Day 2 ▶ 15 September 2026

Time

➤ **Session Title:**

🕒 11:30 AM - 11:50 AM

The Importance of Instrumentation and Control in the Water Sector



➤ **Eng. Nooh Hafez**

General Manager: Flotech for
Instrumentation and Control Company



➤ **Short break for refreshments**

🕒 11:50 AM - 12:00 PM

➤ **Session Title:**

🕒 12:00 PM - 12:20 PM

New Trends in Waste Water Treatment



➤ **Prof. Dr. Mohamed Fikry**

Professor of Applied Organic Chemistry-NRC-EGPT
Chairman of Falcon Egypt for Water Treatment Systems Co.



➤ **Short break for refreshments**

🕒 12:20 PM - 12:30 PM

➤ **Session Title:**

🕒 12:30 PM - 12:50 PM

Water Loss Management in Egypt: Towards Efficiency and Sustainability



➤ **Eng. Sayed El-Beltagy**

General Manager of Non-Revenue Water at the
Holding Company for Water and Wastewater



➤ **Short break for refreshments**

🕒 12:50 PM - 01:00 PM

Day 2 ▶ 15 September 2026

➤ Session Title:



01:00 PM - 01:30 PM

From Reactive to Predictive

How AI & Data Analytics Can Transform Water, Wastewater & Desalination Asset Management



➤ Eng. Mohamed Mohsen

Tendering Manager

Infrastructure | Water | Energy

➤ Short break for refreshments



01:30 PM - 01:40 PM

➤ Session Title:



01:40 PM - 02:00 PM

Advanced Hybrid Materials & Smart Engineered Membranes:
From Ceramic to Sponge Activated Carbon



➤ Prof. Dr. Mahmoud Fathy Mubarak

Associate Professor of Applied Physical Chemistry at
the Egyptian Petroleum Research Institute (EPRI)

Core Lab Center Board Member (EPRI)



➤ Short break for refreshments



02:00 PM - 02:10 PM

➤ Session Title:



02:10 PM - 02:30 PM

Valves & Actuators



➤ Eng. Walid Derbala

Founder & CEO at Egyptian Engineering Systems



➤ Short break for refreshments



02:30 PM - 02:40 PM

Day 2 ▶ 15 September 2026

➤ Session Title:



02:40 PM - 03:00 PM

Emerging Technologies and Recent Trends in the Treatment of
Radioactively Contaminated Water and Petroleum Produced Water



➤ Dr. Mohammad Mahmoud Dawoud

Water Treatment Consultant at Alpha Environmental Technology
Lecturer at the Egyptian Atomic Energy Authority

➤ Short break for refreshments



03:00 PM - 03:10 PM

➤ Session Title:



03:10 PM - 03:30 PM

About International Scientific Company for Chemicals



➤ Eng. Tarek Mahmoud

Chairman of the Board of Directors,
Scientific International Company



➤ Short break for refreshments



03:30 PM - 03:40 PM

➤ Session Title:



03:40 PM - 04:00 PM

Beyond Chemicals: The Hidden Cost of
Water Treatment - 5 Mistakes You Should Avoid



➤ Eng. Mohamed Taha

Water Valley - Technical Director



➤ Short break for refreshments



04:00 PM - 04:10 PM

Day 2 ▶ 15 September 2026

➤ Session Title:

🕒 04:10 PM - 04:30 PM

Empowering Industrial Performance: End-to-End Automation, Telemetry, and Digital Twin Ecosystems



➤ Eng. Hany Lotfy
Manager Director, Talent System



➤ Short break for refreshments

🕒 04:30 PM - 04:40 PM

➤ Session Title:

🕒 04:40 PM - 05:00 PM

Water Disinfection Using Chlorine Gas Injection Systems



➤ Eng. Hany Kamal
Executive Director



➤ Short break for refreshments

🕒 05:00 PM - 05:10 PM

Day 2 ▶ 15 September 2026

➤ Session Title:

🕒 05:10 PM - 06:00 PM

- "Connecting & Protecting: World-Class Equipment for Water & Energy Industries"
- I-SERVE Scope of Supply/ FB Procédés Gravity-Based Screening Technology



➤ Philippe Buhé
Export Sales Manager



➤ Mohammed Kados
Technical Sales Manager



➤ Walid Ezz Eldin
Technical Sales Manager



➤ Short break for refreshments

🕒 06:00 PM - 06:10 PM

➤ Session Title:

🕒 06:10 PM - 06:30 PM

From Purified Water to Trusted AI: Validation, Risk Management,
and Regulatory Excellence in the Digital Pharma Era



➤ Dr. Ahmed Hasham

MSc., Ph.D. in Inorganic & Analytical Chemistry
Quality Director

Day 3 ▶ 16 September 2026

Time

➤ Session Title:

🕒 11:30 AM - 11:50 AM

Water Treatment Using Environmentally Friendly Technology with a Magnetic Field



➤ Dr. Consultant. Maisa SalahEldin Ismail

General Manager of Research & Development
- Alexandria Water Company



➤ Session Title:

🕒 11:55 AM - 12:15 PM

An Environmental Innovation Framework is Essential for Resource Sustainability



➤ Dr. Abdel-Fattah Mahmoud

Lecturer and Consultant in Management
Systems and Sustainability

➤ Session Title:

🕒 12:20 PM - 12:40 PM

Beyond Environmental Compliance: How the Green Economy
Creates Added Value from Treated Wastewater



➤ Dr. Expert. Mohamed Elsofy Zainelabedien

Director of Administration at the Holding Company
for Water and Wastewater



Day 3 ▶ 16 September 2026

➤ **Session Title:**

🕒 12:45 PM - 01:15 PM

Sustainable Water Treatment in Electrical Power Station



➤ **Dr. Ali Maan El-Ghanam**

General Manager of Chemical Treatment
Procedures Systems - Ministry of Electricity (Former)

➤ **Session Title:**

🕒 01:20 PM - 01:40 PM

Cooling water Treatment by Organic Chemical Program



➤ **Dr. Eng. Faiza Abu Zaid**

General Manager of Aqua Trust Water Treatment Company



➤ **Short break for refreshments**

🕒 01:40 PM - 01:50 PM

➤ **Session Title:**

🕒 01:50 PM - 02:10 PM

Hybrid Systems



➤ **Ahmed Atta**

CEO of General Water Systems



Day 3 ▶ 16 September 2026

➤ **Session Title:**

🕒 02:15 PM - 02:35 PM

Setting the Egyptian Water Filtration Market on the Right Track



➤ **Eng. Mostafa El-Badry**

Founder & Owner of Hyper Water



➤ **Session Title:**

🕒 02:40 PM - 03:00 PM

Forward Osmosis and Hybrid Membrane Systems



➤ **Eng. Islam Salah**

Assistant Lecturer, Environmental Engineering Department,
Faculty of Engineering, Zagazig University

Head of Networks Department, Sag Engineering Office



كلية الهندسة
FACULTY OF ENGINEERING



➤ **Session Title:**

🕒 03:05 PM - 03:25 PM

Beyond Manufacturing: Quality Makes the Difference
Insights from Water Treatment Manufacturing in Egypt, China & India



➤ **Mohamed Maged**

Owner and Director of RO-TEC Co.



Day 3 ▶ 16 September 2026

➤ **Session Title:**

🕒 03:30 PM - 03:45 PM

Beyond Clarification: Optimizing Coagulants & Polymers for Better Water Quality, Less Waste and Lower Environmental Impact



➤ **Eng. Sara Ahmed**
Ceo – HYDRONOVA



➤ **Session Title:**

🕒 04:00 PM - 05:15 PM

Water Filters and Modern Diseases: The Silent Battle



➤ **Chemist. Mohamed Shalaan**
Water Treatment Expert



➤ **Chemist. Khaled Ali**
Water Treatment Expert