



**34th ANNUAL
CONFERENCE
& EXHIBITION
2025**



Engineering Progress Together:
Collective Action for a
Connected Region.

LAST CALL FOR **ABSTRACTS**

Final Extension Date:
13th June, 2025

20-24 October, 2025 | San Pedro, Ambergris Caye, Belize, C.A.

**Thematic Area 1:
Empowering Integrated Water Management
for Sustainable Prosperity and Climate
Action**

- Strengthening the Role of Water Professionals in Capacity Development
- Enhancing Resilience in Watersheds and Coastal Zones
- Addressing the Vulnerabilities of Water Systems to Climate Change. (Floods, Droughts, Salinization)
- Challenges and Opportunities for Applying Smart Water Management: From Concept to Practice
- Nature and Community Based approaches for Watershed Management
- Integrated Coastal and Inland Water Management
- Strengthening Institutional Frameworks for Integrated Water Governance
- Balancing Tourism Development with Sustainable Water Use and Conservation
- Transboundary Water Cooperation
- Adaptation to Tourism and Urbanization Pressures
- Promoting Sustainable Groundwater Governance (Abstraction, Contamination, Water Scarcity, Aquifer Recharge)
- Benefits of Cost Reflective Water Tariffs for Socio-Economic Development
- Enhancing Operational Efficiency Through Utility Benchmarking
- Risk Assessment and Management in Water Infrastructure
- Best Practices in Agriculture: Water Use Efficiency in the Face of Climate Change

**Thematic area 2:
Innovative and Resilient Water Infrastructure
for Sustainable Utility Operations**

- Transforming and Upscaling Data into Information for Improved Monitoring and Operations
- Optimizing Operations and Maintenance
- Action Plan for Regional Collaboration on Non-Revenue Water (NRW) Improvements
- Cost-Benefit Analysis of NRW Reduction Strategies
- Effective Approaches to NRW Reduction: Methods, Challenges and Recommendations
- Identifying Innovative Funding Mechanisms for Water Infrastructure Projects
- Water-Energy Nexus: Incorporating Smart Technology
- Desalination: Bridging Seawater and Potable Water Supply
- Employing Emerging Technology (Trenchless Technology, AI, Water Conservation, Advanced Filtration)
- Opportunities in Water Resource Monitoring Through GIS, Remote Sensing, IoT, and AI
- Impact of Unstable Energy Supply on Water Extraction and Distribution
- Smart Meter Implementation: Key Challenges and Recommendations
- Challenges of Expansion of Water Systems in Community Planning and Strategic Solutions
- Implementing Green Infrastructure and Renewable Energy in the Caribbean & Latin America
- Decentralized Infrastructure as a Measure to Improve Resilience Through Localized Supply
- Benefits of Preventive and Predictive Maintenance
- Management of Critical Inventory and Spare Parts
- Effective Management of Aged Above and Underground Infrastructure
- Leveraging SCADA & GIS for Smart, Resilient Water and Sewer Utilities
- Reducing Carbon Footprint Through Renewable Energy
- Enhancing Energy Efficiency: Techniques and Best Practices
- Cybersecurity for Water Utilities



Thematic area 3: Ensuring Clean Water and Sanitation through Effective Wastewater Treatment and Pollution Control

- Nature-Based Solutions for Wastewater Management
- Water Quality and Emerging Pollutants
- Value Added Benefit of Investment in Wastewater Management
- Identifying Innovative Funding Mechanisms for Wastewater Infrastructure Projects
- Advanced Wastewater Treatment and Collection Technologies
- Water Quality Monitoring
- Regulatory Compliance and Policy Development
- Resource Mobilization to Support Wastewater Management (CREW Fund Etc.)
- Public Health and Water Safety
- Sludge Management
- Actions to Achieve SDG 6 Clean Water and Sanitation
- Achieving Sustainability through Water Technology
- Closing The Water Cycle Through Efficient and Innovative Technologies
- Wastewater Reuse
- Community Based/Small-Scale Approaches to Wastewater Management

Thematic area 4: Promoting Sustainability through Effective Solid Waste Management

- Challenges of Waste Management in Rural Areas.
- Innovative and Advanced Approaches to Solid Waste Management
- Advancing Concepts and Practices in Waste Minimization: A Regional Perspective
- Safe and Effective Management of Hazardous Waste (Medical, E-waste Etc.)
- Coordinated Approaches to Funding Solid Waste Infrastructure
- Regional Case Studies and Best Practices in Waste Characterization and Segregation
- Circular Economy in Solid Waste Management
- Landfill and Leachate Management
- Microplastics & Contaminants of Emerging Concern
- Organic Waste Management
- Coordinated, Inter- Island Approaches to Waste Management (Bulk Transport and Management)
- Waste-to-Energy Solutions for Island Nations

Thematic area 5: Fostering Inclusive Growth through Community Outreach and Public awareness

- Community Engagement and Social Equity
- Social Media and Community Empowerment
- Empowering Customer Service Teams in the Water & Wastewater Sector
- Improving Customer Service in Water Utilities
- Youth Engagement in Water Stewardship
- Community Engagement Strategies for Gender Inclusion
- Water Access Challenges in Remote Rural Areas
- Public Awareness on Metering as a Mechanism for Water Conservation
- Environmental and Social Safeguards in Water Projects
- Early Warning Systems for Enhanced Disaster Risk Reduction

Thematic area 6: General topics

- Measuring the Success of Water and Wastewater Systems Projects
- Effective Project Management for Water and Wastewater Related Projects
- Safety Protocol in Water Treatment Plants
- Emergency Response and Disaster Risk Management
- Use of Climate Services and Products for Improved Water Management
- Building Resilience to Climate-Driven Disasters in Water and Waste Infrastructure
- Integrated Flood Management
- Centralized Data Management: Benefits, Approaches and Examples
- Promoting Culture Change for Improved Water and Sanitation Management
- The Role of the Water-Energy-Food Nexus in Climate Adaptation
- Strengthening Regional Governance for Sustainable Utility Management

