



CONFERENCE BOOKLET



CWW2024

Water and Climate:
Building Resilient Communities

13th – 17th Oct 2024

Triumph Luxury Hotel,
Cairo – Egypt.







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WELCOME MESSAGES



Prof. Dr. Hani Sewilam

**Minister of Water Resources and Irrigation
Arab Republic of Egypt.**

Dear Esteemed Participants,

On behalf of the Arab Republic of Egypt and the Ministry of Water Resources and Irrigation, it is my distinct honor to extend a warm welcome to all distinguished attendees of the seventh edition of Cairo Water Week (CWW2024). This year's theme, "Water and Climate: Building Resilient Communities," is both timely and critically important as we confront the growing challenges stemming from the intricate relationship between water security and climate change.

Climate change is exacerbating water scarcity, increasing the frequency and intensity of floods, and disrupting established patterns of water availability. These evolving conditions pose significant risks to communities around the world, threatening not only public health and well-being but also the stability of economies, the cohesion of societies, and the integrity of natural ecosystems. The most vulnerable, particularly in developing regions, are bearing a disproportionate share of these challenges, facing threats to their livelihoods, health, and long-term resilience. It is imperative that we fully harness the opportunity presented by this week's discussions to advance sustainable, forward-thinking solutions that will not only strengthen water infrastructure but also enhance the resilience of the communities we serve. Our collective objective is to enable these communities to adapt, recover, and ultimately thrive in the face of climate-related challenges.

CWW has established itself as a cornerstone for international dialogue, bringing together policymakers, experts, and key stakeholders from across the globe to engage in critical discussions and share knowledge. It provides a strategic platform to address complex water-related issues, foster innovation, and build the partnerships necessary to implement sustainable and effective water management strategies. The inclusion of the Ninth Africa Water Week this year further enriches our efforts, offering a broader scope for regional collaboration and aligning African priorities with global frameworks.

Throughout this week, we will engage in high-level discussions, examine pioneering research, and review policies aimed at strengthening the resilience of water systems and the communities that depend on them in the face of climate pressures. The deliberations and outcomes from CWW2024 will not only inform national and regional approaches but also contribute to shaping global strategies for water security and climate adaptation.

I strongly encourage all participants to actively engage in the proceedings, as the insights and solutions generated here will be instrumental in our ongoing efforts to address the challenges that lie ahead. Through collaboration, innovation, and decisive action, we can forge a path toward a more resilient and sustainable future for water resources and the communities we are committed to safeguarding.

With sincere appreciation for your participation and commitment, I wish you a successful and productive week.

Yours faithfully,



Eng. Walid Hakiki

**Head of Planning Sector,
Executive Director, CWW Organizing Committee,
Ministry of Water Resources and Irrigation, Egypt.**

Dear Esteemed Guests and Participants,

It is with great pleasure that I extend a warm welcome to you on behalf of the CWW2024 Organizing Committee. We are truly honored to host you for the seventh edition of CWW, held from 13th to 17th October 2024 in Cairo, Egypt, under the theme “Water and Climate: Building Resilient Communities.”

This year’s conference holds even greater significance as it coincides with the Ninth Africa Water Week (AWW9), bringing together two major water forums in a unified platform. This collaboration enriches our discussions, broadening the scope of knowledge-sharing and cooperation across regions as we address critical challenges at the intersection of water and climate.

CWW has earned its place as a key international event in the water sector, fostering dialogue and driving innovation in water management. With the valued support of H.E. President Abdel Fattah El-Sisi and in partnership with regional and international institutions, CWW2024 promises to be a transformative experience for all involved.

Our goal is to foster high-level dialogue, spark new ideas, and propose practical solutions that address the pressing water and climate issues faced by communities around the world. By bringing together experts, policymakers, industry leaders, and stakeholders, we aim to inspire action that builds resilience and secures a sustainable future for our water resources.

In addition to the diverse program of expert presentations, interactive workshops, and thematic sessions, we are excited to host an exhibition showcasing the latest technologies, innovations, and research in water management. This will be an excellent opportunity to engage with industry experts, discover cutting-edge solutions, and exchange knowledge on the future of water sustainability.

We invite you to actively participate in the conference, contribute to the discussions, and explore the cultural richness of Cairo. Your presence and insights are vital to making this week a success, and together, we can make a meaningful impact on the path to building resilient communities worldwide.

With best regards,



COMMITTEE MEMBERS

HIGHER COMMITTEE

Head of The Technical Committee



Prof Dr. Hani Sewilam

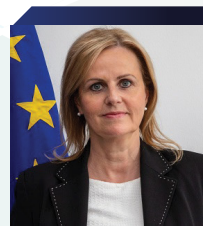
Minister of Water Resources and Irrigation,
Egypt.

The list by alphabetical order



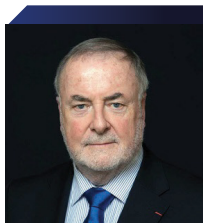
Dr. AbdulHakim Elwaer

FAO Assistant Director-General and Regional
Representative for the Near East and North
Africa.



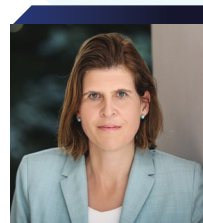
Dr. Florika Fink-Hooijer

Director General for Environment, European
Commission.



Mr. Loïc Fauchon

President, World Water Council.



Ms. Meike van Ginneken

Water Envoy for the Kingdom of The
Netherlands



Mr. Saroj Kumar Jha

The Global Director for the World Bank
Group's Water Global Practice (GP)

SCIENTIFIC COMMITTEE

Head of the Scientific Committee



Prof. Yasser M. Raslan

Emeritus Professor, Nile Research Institute,
National Water Research Center

Committee Rapporteur



Dr. Eman Ragab Nofal

Associate Professor, Deputy Director of
Research Institute for Groundwater,
National Water Research Center.

Scientific Committee Sorted by alphabetical order



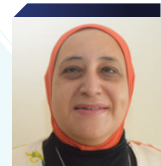
Prof. Eehab Ahmed Badreldin Khalil
Professor Hydraulic Structures,
Construction Research Institute,
National Water Research Center.



Prof. Emad Habib
Endowed Chair and Professor,
Department of Civil Engineering,
Director, Institute of Coastal and Water
Resilience, University of Louisiana at
Lafayette.



Prof. Enas Mohamed Aboutaleb
Professor of Waste Water Treatment
Technology & Environmental Studies,
National Research Center.



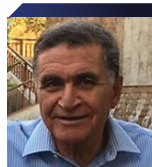
Prof. Hanan Farag
Professor, National Water
Research Center.



Prof. Hesham M. El-Askary
Professor of Remote Sensing and
Earth Systems Science,
Director of Earth Systems Science
and Data Solutions Lab Schmid,
College of Science and Technology.



Prof. Mohamed Abdelhamyd Dawoud
Professor, Res. Inst. for
Groundwater-NWRC.
Senior Water Advisor, Environment
Agency, Abu Dhabi, UAE.



Prof. Mohamed M. Nour El-Din
Professor, Department of Irrigation
and Hydraulics, Faculty of
Engineering, Ain Shams University



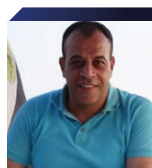
Prof. Mahmoud Roushdi Mohamed
Professor, Environment & Climate
Changes Research Institute,
National Water Research Center.



Prof. Ragab Ragab.
Fellow – Principal Hydrologist & Water
Resources Management Specialist, UK
Centre for Ecology & Hydrology, UK.
Honorary President of the International
Commission on Irrigation & Drainage,
ICID



Prof. Reham Mohamed Elkorashey
Professor of Analytical Chemistry,
General Director of Kitchener Drain
Depollution Project Implementation unit
(PIU), Kitchener Drain Rehabilitation
Component (KDRC), Ministry of Water
Resources and Irrigation (MWRI).



Prof. Waleed Hassan Abou ElHassan
Senior Water Resources
Management Officer, GCC
COUNTRIES and Yemen, FAO



Dr. Yehya E. Imam
Associate Professor, Department of
Irrigation and Hydraulics, Faculty of
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ORGANIZING COMMITTEE

Eng. Walid Hakiki

Head of Planning Sector, Executive Director, Cairo Water Week Organizing Committee, MWRI, Egypt.

Dr. Ahmed Medhat

Sector Head, Minister Office, Assistant to the Executive Director for Logistic Affairs, MWRI, Egypt..

Dr. Rabab Gaber

Head of the Central Administration of Strategic Planning and Policies, Assistant Executive Director for Technical Affairs, MWRI, Egypt.

Organizing Committee (The list is sorted by alphabetical order)

Mr. Abd Ellatif Attia
 Eng. Ahmed Abdelaziz
 Eng. Ahmed Omar
 Mr. Ali Elbanna
 Eng. Ashraf Ghanem
 Eng. Amr Aiad
 Dr. Atef Kamal
 Eng. Dalia Diab
 Eng. Doaa Lashien
 Dr. Eman Ragab
 Eng. Enas Ahmed
 Eng. Ensherah Abdel Hamed
 Eng. Fady Fahim
 Dr. Ghada Anwar
 Eng. Hend Hedar
 Eng. Karim Kamal
 Eng. Maryam Hamza
 Mr. Michael Tharwat
 Mr. Mohamed Atta
 Eng. Mohamed Ghanem
 Ambassador. Mohamed Raffik
 Eng. Mohamed Sabry
 Eng. Mohamed Salah
 Mr. Mohamed Shawky
 Eng. Mona Maher
 Dr. Mostafa Abu Hashem
 Eng. Mostafa Sonousy
 Eng. Nariman Abdelrahman
 Mrs. Neveen George
 Dr. Nihal Adel
 Dr. Nouran Albadawi
 Eng. Radwa Mohamed
 Ms. Rana Elbanna
 Dr. Tahani Sileet
 Mr. Wael Ismael
 Eng. Walaa Eldin Salah
 Eng. Samaa Abdul Majid
 Eng. Sara Mohamed
 Dr. Yosra Allam

COMPETITIONS COMMITTEE

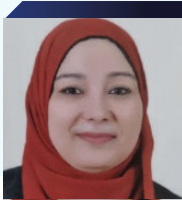
Head of The Technical Committee



Dr. Ayman Ibrahim

Mechanical and Electrical Department
Chairman, MWRI.

Rapporteur of the Committee



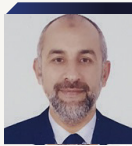
Dr. Ghada Anwer

Department of Water Uses, Planning Sector,
Ministry of Water Resources and Irrigation,
Egypt.

Competitions Committee Sorted by alphabetical order



Prof. Dr. Ahmed Abdelsattar
Professor of Hydraulics, Department of
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Prof. Dr. Ashraf M. Elmoustafa
Professor of Engineering Hydrology,
Faculty of Engineering, Ain Shams
University.



Dr. Bakinam Tarik
Assistant Professor, Civil and
Infrastructure Engineering and
Management Program, School of
Engineering, Nile University.



Prof. Enas Mohamed Aboutaleb
Professor of Waste Water Treatment
Technology & Environmental Studies,
National Research Center.



Dr. Eman Ragab Nofal
Associate Professor, deputy director of
the Research Institute for
Groundwater, National Water Research
Center.



Dr. Mohie Omar
Research Associate at the
International Center for Agricultural
Research in Dry Areas (ICARDA).



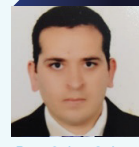
Dr. Moustafa Samir Moussa
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Technology and Director of Sustainable
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Dr. Rabab Gaber
Head of the Central Administration
of Strategic Planning and Policies.



Dr. Reham Elkorashey
Professor of Analytical Chemistry,
Technical Office Director Central
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Research Center (NWRC).



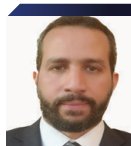
Prof. Selim Gaber
Professor of Environmental Chemistry and
Head of Quality Control and Assurance
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National Water Research Center (NWRC).



Prof. Safaa Mahmoud Ezzat
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Dr. Waleed Hassan AbouElHassan
Senior Natural Resources Officer, (Water
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Dr. Yehya Iman
Associate Professor in the
Environmental Engineering Program at
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Technology.



Dr. Youssef Brouziyne
Regional Representative – MENA Region
and CGIAR Water System Lead – MENA
Region.



Prof. Ziad Mohamed Aly Khalifa
Chemical and Environmental
Engineering Department, Faculty of
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Egypt



الاتحاد الأوروبي في مصر
European Union in Egypt



Co-Organizer of

CWW 2024



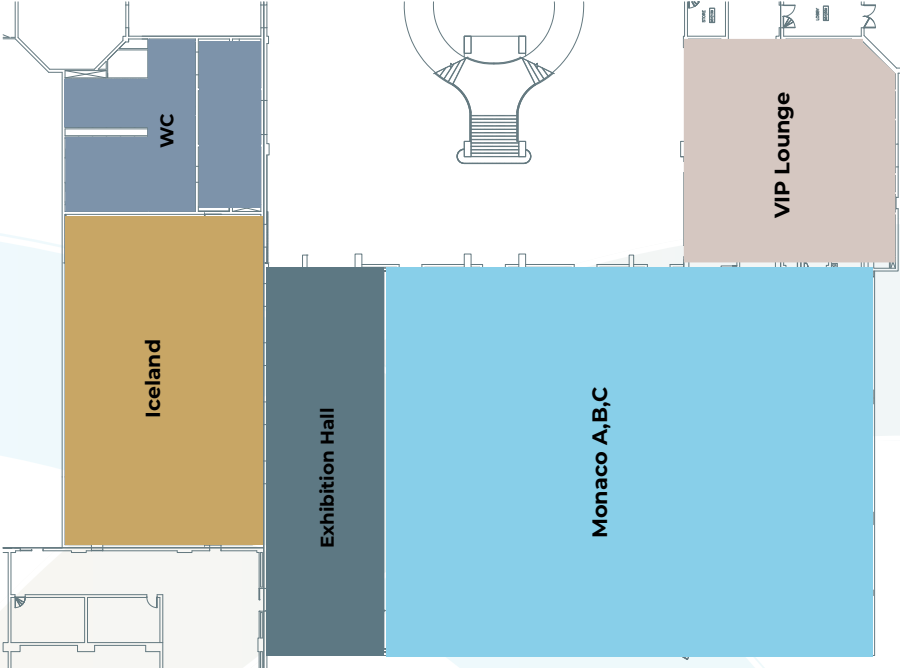
Conference Venue

Triumph Luxury Hotel

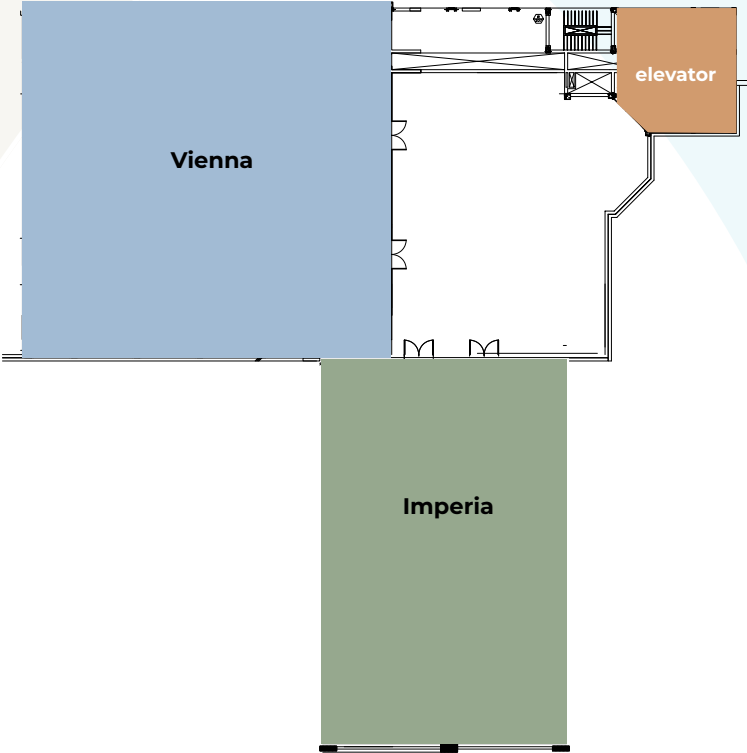
Located in the prestigious 5th Settlement of New Cairo, Triumph Luxury Hotel offers a blend of contemporary design and elegant interiors, all in a prime location. The hotel's proximity to the bustling business district, top shopping destinations, and lively nightlife ensures a convenient stay for all attendees. Additionally, its proximity to Cairo International Airport makes it an ideal choice for travelers. Featuring state-of-the-art facilities, exceptional service, and a welcoming staff, Triumph Luxury Hotel provides an outstanding experience for both business and leisure guests. For more information about the hotel's amenities and services, please visit the Triumph Luxury Hotel website: www.triumphhotel.com/luxury-home

Floor Plan for the Conference Venue

Ground Floor



2nd Floor





7th Cairo Water Week

Defining the Focus: Water and
Climate for Sustainable Communities

CWW2024 will be organized by the Egyptian Ministry of Water Resources and Irrigation under the esteemed auspices of H.E. Mr. Abdel Fattah El-Sisi, President of the Arab Republic of Egypt. Set to take place from October 13th to 17th in Cairo, the event will center around the theme, “Water and Climate: Building Resilient Communities,” underscoring the vital connection between water management and climate resilience.

In an era of increasing climate unpredictability, the world faces escalating challenges such as floods, droughts, and extreme weather events. The impacts of these phenomena are deeply felt across communities globally, making it more urgent than ever to focus on building resilience. Achieving this requires an integrated approach that combines effective water resource management, sustainable infrastructure, and strong community engagement. It’s not just about creating robust water systems but also about implementing eco-friendly practices and developing early warning systems to mitigate and manage climate-related risks.

CWW2024 will bring together leading experts, policymakers, and stakeholders from across the globe to explore innovative strategies and collaborative efforts aimed at addressing these challenges. Over the years, Cairo Water Week has evolved into a significant international platform for tackling critical water-related issues. This year’s event will dive deeper into how water and climate interact, and how their interplay directly affects the resilience of communities.

Through an engaging mix of discussions, workshops, and knowledge-sharing sessions, CWW2024 seeks to not only advance our understanding of these challenges but also develop actionable solutions and policies. The ultimate goal is to ensure sustainable access to clean water and support communities in adapting to changing environmental conditions, thereby contributing to a more secure and sustainable future for all.

Key Themes of CWW 2024: Enhancing Community Resilience in Water and Climate Contexts

The seventh edition of the CWW will focus on the main theme, “Water and Climate: Building Resilient Communities.” This year’s conference will explore the critical relationship between water management and climate resilience through a series of plenary and technical sessions. These sessions will be organized by esteemed international and regional entities, delving into five related sub-themes that underscore the importance of sustainable and adaptive practices in enhancing community resilience against climate change and water scarcity.

- 1

Transboundary Water Governance for Sustainable Development


- 2

Strategic Water Resources Management in Enhancing Community Resilience


- 3

Innovation and Financing Resilient Solutions for Water Security


- 4

Actions for Water and Climate Adaptations and Resilience


- 5

Climate-Smart Communities Planning and Legislation





Theme 1: **Transboundary Water Governance for Sustainable Development**

Transboundary water governance plays a pivotal role in fostering sustainable development by addressing shared challenges and opportunities in managing water resources across borders. This theme explores the complex dynamics of transboundary integrated water resources management, shedding light on both challenges and opportunities. It underscores the significance of water policies in facilitating rural communities' settlement across borders, emphasizing the need for regional cooperation in forecasting through enhanced data sharing and information management. Cooperative governance models are highlighted as crucial for fostering community development and ensuring equitable access to shared water resources. Additionally, the session delves into the role of regional and international communities in supporting transboundary water management efforts amidst the growing impacts of climate change on both national and international scales. Success stories for models of cooperation and sustainability in action are welcome to be showcased.

Sub-themes under this topic:

- Challenges and Opportunities in Transboundary Integrated Water Resources Management.
- Water Policy to Foster Rural Communities' Settlement Among Transboundary States.
- Regional Cooperation in Forecasting: Through Data Sharing and Information Management.
- Cooperative Governance and Community Development Through Shared Water.
- Role of Regional and International Communities in Supporting Transboundary Water Management.
- Impact of Climate Change on National and International Transboundary Waters.





Theme 2: Strategic Water Resources Management in Enhancing Community Resilience

Strategic water resources management for community resilience encompasses various dimensions. One crucial aspect involves understanding the interplay between land use, climate change, and water resources, and assessing their impacts on availability, quality, and infrastructure. Additionally, enhancing community resilience entails employing diverse strategies such as risk communication, social vulnerability assessments, fostering collaboration across multiple sectors, and promoting resilience cropping policy among water users. Moreover, developing and applying simulation models for water resources future planning provide decision makers with variety of options. During extreme events, relevant water management is required for different water sectors. Lastly, promoting sustainable water management through circular economy principles recognize the full value of water, relief stress on water resources and minimize wastewater.

Sub-themes under this topic:

- Future Land Use and Climate Change Impact on Water Resources.
- Enhancing Community Resilience to Changing Climate
- Simulation Models in Future Planning of Water Resources.
- Managing of Extreme Events.
- Circular Economy Framework for Promoting Sustainable Water Management Practices.





Theme 3: **Innovation and Financing Resilient Solutions for Water Security**

Innovation and financing resilient solutions for water security are essential for addressing the diverse challenges of climate change and population growth while ensuring sustainable access to clean water. This involves harnessing non-conventional water resources like rainwater harvesting and greywater recycling to bolster water supply. Proper indices must be utilized to gauge the severity of climate change impacts on water availability and quality for informed decision-making. Across various sectors, deploying water-saving technologies is imperative to enhance efficiency. Additionally, leveraging artificial intelligence and big data analytics can aid in addressing water security issues through predictive modeling and real-time monitoring. Lastly, innovative financing mechanisms such as public-private partnerships, green bonds, and water pricing reforms are pivotal for mobilizing resources for water infrastructure development, ensuring long-term resilience and sustainability.

Sub-themes under this topic:

- Non-Conventional Water Resources.
- Water-Saving Technologies in Different Sectors.
- Role of Artificial Intelligence and Big Data in Identifying Water Security.
- Innovative Financing Mechanisms for Water Infrastructure Development.





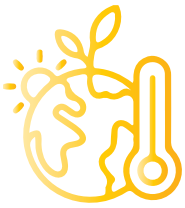
Theme 4: Actions for Water and Climate Adaptations and Resilience

Resilience and adaptation are keys in mitigating the severe impacts of climate challenges and transforming them into viable solutions. Addressing these challenges necessitates advancements in knowledge and breakthroughs across various domains, including technologies, solutions, and adaptation services. Failure to act now will render adaptation significantly and adaptation will be more expensive and challenging for future generations. This thematic focus revolves around recent advancements in understanding climate change uncertainties, assessing impact severity, identifying vulnerable regions, and mapping risks related to water issues. Additionally, it aims to enhance water management solutions, protect communities, and develop tools for effective response and recovery from inevitable crises.

Sub-themes under this topic:

- Analysis of the Uncertainty in Climate Change Scenarios and Modelling Results.
- Identifying the Severity of the Climate Change Impact Through Proper Indices.
- Identifying Vulnerable Regions and Mapping Risks and Impacts.
- Nature Based Solutions for Water Management.
- Retrofitting Hydraulic Structures to Protect Communities Against Climate Change.
- Enhancing Monitoring and Early Warning Systems for Crisis Response and Recovery.





Theme 5: **Climate-Smart Communities Planning and Legislation**

Climate-smart communities planning, and legislation are essential for proactively addressing the impacts of climate change on urban areas. By integrating climate resilience into urban development policies and regulations, these measures promote sustainable growth while enhancing the adaptive capacity of communities to withstand climate-related challenges. Addressing the impacts of climate change on urban areas requires the integration of climate resilience into planning and legislation for climate-smart communities. These measures are essential for sustainable growth and enhancing communities' adaptive capacity. Affordability is a key consideration in implementing resilient strategies, particularly concerning human migration, land use, and job dynamics. Integration of water, sanitation, and hygiene services is crucial within these communities, along with addressing the Water-Food-Energy Nexus. Efficient leak detection technologies, water efficiency standards, and conservation incentives are essential components, supported by community-based water management and legislative frameworks. Proactive interventions and informed decision-making processes are paramount for long-term sustainability.

Sub-themes under this topic:

- Affordable Measures for Enhancing Community Resilience.
- Climate Change and Human Migration, Land Use and Jobs.
- Water Food Energy NEXUS in Planning Climate-Smart Communities.
- Community-Based Water Management.
- Legislative and Policy Instruments for Water Conservation and Climate Adaptation.
- Proactive Interventions and Best Practices for Climate Smart Decision Making.





Food and Agriculture
Organization of the
United Nations



FAO TRACK at Cairo Water Week

14–15 October 2024



For more information, scan the QR code





OPENING CEREMONY

9:30-12:00

H.E. Prof. Dr. Hani Sewilam, President of AMCOW, Egyptian Minister of Water Resources and Irrigation.

H.E. Abdel Fattah el-Sisi, President of the Arab Republic of Egypt.

Dr. F.Z. Jihane El Gaouzi, Head of Sustainable Environment- the African Union Commission.

H.E. Dr. Badr Abdel Ati, Egyptian Minister of Foreign Affairs, Immigration and Egyptian Expatriates Affairs.

Dr. Florika Fink-Hooijer, Director-General of the Environment Department of the European Commission.

H.E. Dr. Mostafa Madbouly, Prime Minister of the Arab Republic of Egypt.

Dr. Rashid Mbaziira, AMCOW Executive Secretary.

Mr. Mtchera Chirw, Acting Director of the Bank's Water Development and Sanitation Department- AFDB.

Mr. Loïc Fauchon, President of the World Water Council.

Dr. AbdulHakim Elwaer, FAO Assistant Director-General, Regional Representative for Near East and North Africa.

H.E. Cheikh Tidiane DIEYE, Ministre de l'Hydraulique et de l'Assainissement , Senegal.



DAY-TO-DAY AGENDA

Your Essential Breakdown of Activities Throughout the Week

Day One 13th October 2024

Plenary Session: Transboundary Water Governance for Sustainable Development

Time: 12:30 - 14:00

Hall: MONACO AB

Convener: The Egyptian Ministry of Water Resources and Irrigation (MWRI)

Transboundary water governance is crucial for fostering sustainable development by addressing the shared challenges and opportunities of managing water resources across borders. Effective governance ensures equitable and sustainable use of these resources, vital for the socio-economic growth of the countries involved. This session will delve into the complex dynamics of transboundary integrated water resources management, highlighting both challenges and opportunities. Robust cooperation among nations is essential, emphasizing the need for comprehensive policies and agreements that facilitate regional collaboration. This includes frameworks for data sharing, joint forecasting, and information management to tackle issues such as water scarcity, pollution, and climate change impacts. The session will also underscore the importance of water policies in facilitating the settlement of rural communities across borders, promoting inclusive governance models for community development and equitable access to shared water resources. Additionally, the role of regional and international communities in supporting transboundary water management efforts will be explored, with a focus on the increasing impacts of climate change on both national and international scale.

Technical Session: Water Storage for Security and Resilience to Climate Change

Time: 12:30 - 14:00

Hall: ICELAND

Convener: Ministry of Water Resources and Irrigation, and Academy of Scientific Research and Technology

Co Convener: Water and Irrigation Research Council

Ancient Egyptians already realized the importance of water storage and they stored water in part of the depression to the west of the Nile valley known as "Lake Moeris". By the end of the eighteenth century, the Old Aswan Dam was built in 1902 to store flood water for use during the recession time of the river flow. Construction of the High Aswan Dam in 1965 allowed century water storage to expand perennial irrigation to all the cultivated land, generate electricity, reclaim new lands and secure supply for domestic and industrial uses. Egypt fixed share from Nile water and escalating demands of all uses and risk of climate change, calls for exploiting all opportunities for increasing water storage capacity above and below ground. Recently, storage

capacity of Lake Nasser has been increased through directing extra flood water to Toshky Depressions, many dams have been built to capture and store flash flood water, artificial recharge of groundwater aquifer has been tested and piloted and feasibility of several other water storage opportunities have been thoroughly studied. In this session, speakers will review the implemented water storage projects and the research carried out to investigate feasibility of more storage options.

Side Event: 2nd EU- EGYPT Water Business Forum -Team Europe Initiative for Integrated Water & Food Security Launch Event

Time: 12:30 - 18:30

Hall: IMPERIA

Convener: The European Union

This is a pivotal event aimed at strengthening the strategic and comprehensive partnership between the European Union (EU) and Egypt, with a special focus on integrated water and food security. Building on the Team Europe initiative and the Joint Declaration on the Water Partnership between the EU and Egypt, this forum emphasizes the importance of public-private partnerships and the principles of the circular economy in addressing water sector challenges.

Key objectives include showcasing investment opportunities, driving innovation, and fostering lasting partnerships that leverage mutual expertise. The forum will specifically address critical water challenges by promoting sustainable practices that maximize resource efficiency and introduce circular economy models. These models aim to ensure that water resources are utilized, recycled, and managed effectively, minimizing waste and optimizing value. Targeting policymakers, industry leaders, investors, and researchers, the forum serves as a nexus for European and Egyptian stakeholders to collaborate on creating a sustainable and circular water economy. By blending traditional resource management with innovative, eco-centric approaches, the event seeks to pave the way for a resilient and sustainable water sector in Egypt, aligned with broader EU-Egypt strategic goals.

DAY TO DAY AGENDA

Technical Session: The launch of the report: “Multidimensional Analysis of Fragility and Resilience Pathways - Bouregreg Watershed, Morocco”

Time: 12:30 - 14:00

Hall: PICASSO 2

Convener: International Water Management Institute (IWMI)

Co Conveners: Ministry of Equipment & Water in Morocco, Agency of Bouregreg and Chaouia Rivers Watershed (ABHBC).

Unveil a groundbreaking assessment study titled “Multidimensional Analysis of Fragility and Resilience Pathways – Bouregreg Watershed, Morocco.”

Technical Session: Water Well Screen Selection

Time: 12:30 - 14:00

Hall: LOUVRE 4

Convener: Roscoe Moss Sahara.

How to select the water well screen according to well type, well production and Material specification

Technical Session: Innovative Approaches towards Water Resource Challenges in Agriculture MENA and Sub-Saharan Africa Regions

Time: 12:30 - 14:00

Hall: PICASSO 1

Convener: IHE Delft Institute for Water Education.

Co Convener: Water Development and Partnership Program.

Agriculture in Egypt, Morocco, Kenya, Nigeria, Jordan, and Iraq faces serious challenges as freshwater resources decrease due to a growing demand and exploitation, leading to depletion and salinization, and largely threatened by groundwater contamination. These challenges are most acute in the MENA and Sub-Saharan Africa, which are among the world's driest regions. This session will look at unconventional solutions, such as the use of smart and participatory monitoring and modelling tools to assess dynamic changes in water and soil parameters, which is essential for adjusting agricultural operations. Furthermore, the reuse of treated wastewater in irrigated agriculture is emerging as a crucial solution, with strong backing from decision-makers. Moreover, we will look at the socioeconomic aspects that are specific to each country and region, underlining the significance of tailor-made solutions. This session provides and invites insights and discussions into practical approaches that might ensure the future of agriculture throughout these water-scarce regions.

High Level Session: The Second Governing Board Meeting of the AWARe Initiative

Time: 15:00 - 16:30

Hall: MONACO AB

Sponsored by: United Nations Educational, Scientific and Cultural Organization (UNESCO) .

Conveners: MWRI, AWARe Coordination Hub

Co Conveners: World Meteorological Organization (WMO), Food and Agriculture Organization (FAO), United Nations Development Programme (UNDP), UNESCO, International Development Research Centre (IDRC), IWMI, Pan-African Centre for Water and Climate Adaptation (PACWA), Egyptian Agency of Partnership for Development (EAPD).

Since the launching of the AWARe initiative at COP 27 on 14th November 2022, countries and stakeholders from Africa and developing regions have joined to further advance the implementation of the initiative.

The challenge of accessing the necessary financing to assist developing countries implement adaptation and mitigation projects to climate change, often hinders the development efforts of many countries; this underscores the need for effective coordination within a collaborative environment.

The AWARe initiative consists of 6 workstreams that cover different themes of water and climate topics. Its demand driven process and action oriented nature enables a unique approach to respond to developing country's needs.

Since its launch, the rollout of AWARe has been organized across different levels:

-A Governing Board was established to monitor the implementation and provide strategic guidance. The Board held its first meeting during the 6th Cairo Water Week on 30 October 2023,

-A Coordination Hub has been set up to facilitate operation of the initiative hosted by WMO in Geneva.

-A first regional hub “the Pan-African Centre for Water and Climate Adaptation” (PACWA) is hosted by Egypt and capacity-development activities have started to serve the implementation of the initiative.

Side Event: Boosting Transitions for Water Security Through Integrated Adaptation Actions for Water Resilience

Time: 15:00 - 16:30

Hall: ICELAND

Convener: Deltares.

Co Conveners: IMWI, Alliance for Global Water Adaptation (AGWA), Arup Group Limited (ARUP).

Recently, the UK Government launched the Just Transitions for Water Security (JTWS) programme that will unlock transformational change for shared water security, climate resilience and sustainable development. The Water Resilience Tracker is a component of JTWS program. The Water Resilience Tracker a consolidated approach to support embedding

water commitments in national climate planning across sectors and supports to design pathways for economic, social, and ecological resilience and to implement coordinated and targeted climate action which acknowledges the critical role of water.

The session will address how the Water Resilience Tracker enables comprehensive assessments of water systems, climate change vulnerabilities and impacts on sectors, society and ecosystems, and supports countries in enhancing water resilience against the multifaceted challenges posed by climate change and water scarcity.

Participants will hear from climate policy experts, national planners and technical experts existing experiences of the Water Resilience Tracker and gain insights into its practical benefits and strategic importance for accelerating climate adaptation actions for building water resilience. The session aims to underscore the importance of water at the heart of climate adaptation strategies and actions and highlighting the Water Resilience Tracker as an instrument in aligning national efforts in achieving climate resilience objectives.

Scientific Session: Transboundary Water Governance for Sustainable Development

Time: 15:00 - 16:30

Hall: LOUVRE 5

Convener: MWRI

Transboundary water governance is essential for sustainable development, addressing shared challenges and opportunities in managing water resources across borders. This session delves into the dynamics of transboundary integrated water resources management, emphasizing challenges and opportunities. It highlights the role of water policies in facilitating rural community settlement across borders, stressing regional cooperation for enhanced forecasting through improved data sharing. Cooperative governance models are crucial for community development and ensuring fair access to shared water resources.

The session also explores the involvement of regional and international communities in supporting transboundary water management efforts amid climate change impacts. Success stories showcasing models of cooperation and sustainability are encouraged. Topics include the prevalence of waterborne pathogens in the Nile Basin, the opportunity cost assessment of cooperative GERD operation, sensitivity analysis of the Nile River Basin hydrologic model, reviving the Ichamati River for Sundarbans Ecosystem sustainability, Water Operators' Partnerships in climate resilience in MENA, and mapping flood hazards in the Red Sea Region, Egypt. This session offers insights into fostering cooperation and sustainability for a better water-managed future.

Technical Session: iWater: Leveraging Digital Transformation for Integrated Water Resources Management

Time: 15:00 - 16:30

Hall: LOUVRE 7

Conveners: TH Köln, University of Applied Sciences.

Co Convener: Ain Shams University, Mansoura University.

The session titled «iWater: Leveraging Digital Transformation for Integrated Water Resources Management» at Cairo Water Week will explore the strategic implementation of digital technologies to enhance the management of water resources. This session aims to examine how digital tools such as IoT, AI, and big data analytics can revolutionize Integrated Water Resources Management (IWRM). Discussions will focus on integrating these technologies for real-time monitoring, comprehensive data analysis, and informed decision-making across all aspects of water resource management, from sourcing and treatment to distribution and conservation.

Key topics of discussion will include the significance of digital strategies in achieving sustainable water management practices, engaging the public in conservation efforts, and developing supportive policies. Additionally, the session will introduce a new IWRM master's program in Egypt, underscoring efforts to educate and equip future water managers with essential skills in digital technologies and integrated water resource management principles. This initiative highlights Egypt's commitment to harnessing digital transformation to advance IWRM and ensure the efficient and sustainable management of water resources.

Side Event: The Launch of the Lebanese Water Reuse Standard

Time: 15:00 - 16:30

Hall: PICASSO 2

Convener: IWMI

Co Conveners: LIBNOR, LARI, Ministry of Energy & Water in Lebanon

This session will spotlight the ongoing efforts to tackle water scarcity and resource management challenges in Lebanon, with a particular focus on the safe and sustainable reuse of treated wastewater. It will also provide an overview of the collaboration between IWMI, LIBNOR, and MWE, which played a key role in the development of the Lebanon Water Reuse Standards.

DAY TO DAY AGENDA

Workshop: Nature-Based Solutions and Green Energy for Water: Local Needs and Prospects for Access to Finance

Time: 17:00 - 18:30

Hall: MONACO C

Convener: UN-Habitat Egypt

Co Conveners: GCoM, The Holding Company for Water and Wastewater (HCWW)

The proposed session for Cairo Water Week, under the theme 3 “Innovation and Financing Resilient Solutions for Water Security,” discuss on-the-ground case studies and challenges in access to climate finance. Topics will cover UN-Habitat Egypt’s pioneering efforts with the state’s holding company for Wastewater and Sanitation (HCWW) in advancing nature-based solutions (NbS), particularly Riverbank Filtration (RBF) units, and future visions into integration of renewable energy, as well as providing insights from the prominent Global Covenant of Mayors (GCOM) Gap Fund assisting local actors around the world among other financial actors. This session will underscore the vital role of bringing together local actors and bottom-up needs with the relevant global community of finance actors, and the need to close the gap from both sides.

The panel will showcase lessons learned from ongoing case studies of identified water-energy nexus needs in Egypt, and also financial institutions will provide guidance on accessing funding for climate-resilient projects and aligning them with international financing standards, equipping participants with the tools needed to overcome financial barriers and advance sustainable water solutions.

Side Event: An Innovative Collective to Respond to Humanitarian WASH Needs

Time: 17:00 - 18:30

Hall: ICELAND

Conveners: French Water Partnership, Action Against Hunger, United Nations Children’s Fund (UNICEF).

Co Conveners: German WASH Network, WASH RoadMap

Co-leads of several WASH RoadMap initiatives present how this unprecedented collective is responding to the gaps of the humanitarian WASH sector in 8 different specific fields (advocacy, data, quality assurance, etc...)

Technical Session: From Research to Action: Integrated Solutions for Climate Adaptation and Resilience

Time: 17:00 - 18:30

Hall: LOUVRE 7

Convener: The Center for Applied Research on the Environment and Sustainability

Co Convener: Cairo Centre for Learning and Education on Adaptation and Resilience

In this session, we will discuss the integrated solutions for climate adaptation and resilience focusing

on Nature-based solutions. We will present the Mangrove Ecosystem Restoration Solution Project, as a community participatory model for mangroves rehabilitation. We will also delve into four key research papers:

- Influence of salinity on the biometric traits of striped catfish (*Pangasianodon hypophthalmus*) and barley (*Hordeum vulgare*) cultivated under an integrated aquaculture-agriculture system: Highlights the need for resilient agricultural practices in saline environments.
- Maximization of brackish water productivity for the sustainable production of striped catfish (*Pangasianodon hypophthalmus*) and grain sorghum (*Sorghum bicolor* (L.) Moench) cultivated under an integrated aquaculture-agriculture system: Demonstrates sustainable use of brackish water resources for food security.
- Spatiotemporal distribution of mangrove along the Egyptian Red Sea coast and analysis of hydrological impact on growth patterns: Demonstrates the importance of mangrove ecosystems in coastal resilience and their hydrological impacts.
- Mangroves in Egypt and the Middle East: current status, threats, and opportunities: Provides insights into conservation strategies and the role of mangroves in climate adaptation.

Technical Session: Egypt-Japan Exchange of Expertise Towards Water and Climate Challenges

Time: 17.00 - 18.30

Hall: MONACO AB

Convener: MWRI

Co Conveners: Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Japan.

Water scarcity, flooding, and the degradation of coastal zones are among the most pressing challenges both Egypt and Japan are facing, particularly in the context of climate change. Egypt, being a predominantly arid country, grapples with limited freshwater resources, while Japan is vulnerable to frequent flooding and coastal zone challenges due to its island geography and heavy rainfall patterns.

This joint session will focus on exchanging experiences and best practices between Egypt and Japan, fostering mutual learning to tackle shared water-related challenges intensified by climate change. By addressing water scarcity, flooding, and coastal zone management collectively, the two countries can build resilient and adaptive strategies to ensure water security and protect vulnerable coastal areas.

The session aims to create a platform for Egypt and Japan to exchange knowledge, innovations, and successful practices in water management. By fostering dialogue between the two nations, the session will explore collaborative solutions for:

- Tackling water scarcity through integrated water resource management.
- Adopting flood mitigation and control measures.
- Managing coastal zones to protect against sea-level rise and extreme weather events.

Day Two 14th October 2024

Plenary Session: Strategic Water Resources Management in Enhancing Community Resilience

Time: 9:30 - 11:00

Hall: MONACO AB

Convener: MWRI

Strategic water resources management is essential for bolstering community resilience, especially amid escalating climate variability and land use changes. Effective management strategies can reduce negative impacts on water availability, quality, and infrastructure, thereby protecting communities from water-related hazards. This session will investigate the interconnections between land use, climate change, and water resources, emphasizing how strategic management can enhance resilience. Building community resilience necessitates a comprehensive approach, including risk communications, social vulnerability assessments, cross-sector collaboration, and the promotion of sustainable practices. By leveraging advanced simulation models and adopting circular economy principles, communities can create resilient water management plans that alleviate pressure on water resources and minimize waste. This multifaceted approach ensures that communities are better equipped to handle the complexities of water management in a changing environment, fostering a sustainable and resilient future for all.

Technical Session: Technologies for Sustainable Water Management: Insights and Case Studies from NENA Region Countries

Time: 9:30 - 11:00

Hall: ICELAND

Convener: FAO

Co Convener: The Regional Initiative on Water Scarcity (WSI)

This session aims to showcase technology-based interventions from FAO projects, implemented in the NENA region, which aim to contribute to sustainable water use and improved agricultural productivity. These interventions seek to improve the livelihoods and resilience of vulnerable communities by increasing agricultural production and transitioning from less efficient conventional irrigation practices to modern smart irrigation practices while considering collective farming systems.

Side Event: EU UfM AfDB 5th Annual Conference on Water Finance and Investment

Time: 9:30 - 17:30

Hall: IMPERIA

Convener: EU

Co Conveners: Union for the Mediterranean (UfM), African Development Bank (AfDB)

The 5th Annual Conference on Water Finance and Investment will be held during Cairo Water Week 2024, alongside Africa Water Week. This conference, part of an ongoing series by the Union for the Mediterranean (UfM), aims to support water security in the Mediterranean and Africa by fostering discussions on water finance and investment strategies.

Key Objectives:

- Seek strategic guidance for WASH (Water, Sanitation, and Hygiene) finance and investment.
- Identify impactful WASH investment opportunities.
- Explore internal resource generation while maintaining affordability.
- Discuss the role of public finance and private sector engagement in WASH.
- Ensure the financial sustainability of WASH services through stakeholder collaboration.

Expected Outcome:

A Policy Brief will be published, summarizing the conference's conclusions and recommendations, contributing to the development of the UfM Recommendations on Water Finance for endorsement at the next UfM Ministerial Meeting on Water.

Technical Session: Demonstrating Resilient Nature-Based Water Solutions in Egypt, Jordan, Lebanon, and the Occupied Palestinian Territories

Time: 9:30 - 11:00

Hall: PICASSO 2

Convener: IWMI

Co Conveners: International Union for Conservation of Nature (IUCN), Center for Environment and Development for the Arab Region and Europe (CEDARE), Palestinian Hydrology Group (PHG).

IWMI and AI Murunah partners will present the range of resilient nature-based water solutions they are implementing to address water scarcity and improve climate change adaptation in agricultural areas of Egypt, Jordan, Lebanon, and the Occupied Palestinian Territories.

DAY TO DAY AGENDA

Workshop: Mainstreaming Climate Risk Management in Mediterranean WEFE Governance

Time: 9:30 - 11:00

Hall: PICASSO 4

Convener: IWMI

Co Conveners: Partnership for Research and Innovation in the Mediterranean Area (PRIMA), CIHEAM of Bari

The Water-Energy-Food (WEF) nexus paradigm is essential for building resilience against climate risks by promoting integrated management of these interdependent resources. This approach enhances resource efficiency, reduces environmental impact, and improves sustainability. It helps communities adapt to climate change by ensuring a stable and resilient supply of water, energy, and food.

The side event aims to explore climate risk management mainstreaming in the multi-scale WEFE nexus governance. Through the discussion of evidences from research and development in the Mediterranean region.

High Level Session: EG-NL High-Level Expert Water Panel

Time: 11:30 - 15:30

Hall: LOUVRE 7

Convener: MWRI

Co Convener: Dutch Embassy in Egypt

Experts from both nations engaged in fruitful discussions, sharing knowledge and insights to boost collaborative efforts in water management.

Technical Session: JCAR A4I: Supporting Policies for Modernization of Irrigation: Stakeholder Views, Field Measurement, and Impact Assessment Through Modelling

Time: 9:30 – 11:00

Hall: MONACO C

Convener: JCAR

Egypt's «Modernization of Irrigation» agenda aims to improve water efficiency in agriculture. To achieve this, it's crucial to involve farmers, water user associations, the private sector, and other stakeholders in decision-making. The project involves measuring and analyzing the effectiveness of various irrigation techniques, including canal lining, drip irrigation, and salinity control. Additionally, models are used to simulate water distribution, soil-water-plant interactions, and agricultural performance.

This session provides an overview of these approaches, drawing on insights from interviews, multi-stakeholder workshops, monitoring data, and modeling efforts. It includes a video showcasing capacity building, an interactive dashboard for running simulations, and

a panel discussion with stakeholders. The session also highlights the results of monitoring efforts, which demonstrate the positive impact of improved soil, water, and crop management practices on agricultural efficiency and decision-making.

Technical Session: Enhancing Water Resilience Using A Data-Driven Approach

Time: 11:30 - 13:00

Hall: ICELAND

Convener: FAO

Co Convener: The Regional Initiative on Water Scarcity (WSI)

This session aims to develop the audience's understanding of how data-driven methodologies can inform sustainable water management and agricultural practices in the NENA region countries, focusing on enhancing agricultural water productivity and optimizing the use of resources considering water-energy-food nexus.

Technical Session: JCAR PEPSI:How Can Asset Management Help Decision Making?

Time: 11:30 - 13:00

Hall: MONACO C

Convener: Joint Cooperation in Applied Research (JCAR)

To improve pump operation of existing pumping systems and to get a better insight in the operational behavior of pump systems in Egypt, an asset management system has been built for MED. By assessing and monitoring the pumping stations in a systematic way, a better understanding of the assets will be developed, leading to a more efficient and more robust operation and maintenance of the systems. The asset management system has been built on the data management system and inspection protocols already in place at MED. During this session, the developers will present the system that has been build and the MED engineers will present their experiences and learnings from the system. The asset management system incorporates data from 25 pumping stations until present. This should be expanded to all pumping stations from the MED.

We will end the session with a panel discussion where a combination of key stakeholders and external advisors will discuss the importance of the system and the potential next steps that could be taken.

Scientific Session: Strategic Water Resources Management in Enhancing Community Resilience

Time: 11:30 - 13:00

Hall: LOUVRE 5

Convener: MWRI

This session focuses on advancing strategic water resources management to bolster community resilience, encompassing vital dimensions for sustainable development. It will delve into the complex interplay between land use, climate change, and water resources, examining their implications on availability, quality, and infrastructure. Strategies to fortify community resilience will be explored, including risk communication, social vulnerability assessments, cross-sector collaboration, and resilience-focused cropping policies for water users.

Moreover, the session will address the application of simulation models in future water resource planning, offering decision-makers diverse strategic pathways. Effective water management during extreme events across various sectors will also be emphasized. Sustainable water management principles grounded in circular economy approaches will be highlighted, emphasizing water's holistic value and minimizing wastage.

Key topics include the impact of the Grand Ethiopian Renaissance Dam on the Epilimnion Temperature in the High Aswan Dam Reservoir, sustainability evaluation of solar-powered drip irrigation for sugarcane, evolutionary optimization of water distribution systems, probabilistic operating rules for Thika Dam in Kenya, and the socioeconomic effects of the Grand Ethiopian Renaissance Dam operation on inland fisheries in the High Aswan Dam Reservoir. This session aims to illuminate effective strategies for enhancing community resilience through strategic water resources management.

Technical Session: Lunching Event “A Roadmap for Egypt: Maintaining Productivity of Salt-affected Agricultural Areas:”

Time: 11:30 - 13:00

Hall: PICASSO 2

Convener: IWMI, MWRI

Co Convener: Arab Organization for Agricultural Development (AOAD)

The launch of the “A Roadmap for Egypt: Maintaining Productivity of Salt-Affected Agricultural Areas” marked a critical step in Egypt’s efforts toward addressing the growing water and soil salinity issues.

Side Event: Enhancing Climate Resilience through Water Operators’ Partnerships in the MENA Region

Time: 11:30 - 13:00

Hall: PICASSO 4

Convener: Global Water Operators Partnership Alliance

MENA region faces the highest water stress globally, with 83% of its population exposed to extremely high water stress. In 2019, 11 out of the 12 most water-stressed countries were in MENA. Over the past 40 years, MENA’s water resources have declined by two-thirds, with projections indicating a further 50% decline by 2050 due to population growth, climate change, and poor water management.

This increasing water scarcity will lead to severe socio-economic and environmental consequences, including food and energy insecurity, health risks, and conflicts over shared water resources. Collaboration between water utilities, regulators, and government agencies is crucial to address these challenges and build resilience against climate change. Water Operators’ Partnerships (WOPs), involving peer support exchanges between water operators on a not-for-profit basis, can play a vital role in this effort.

WOPs enhance resource efficiency, strengthen water operators’ capacity, and improve service delivery. They disseminate best practices for climate change adaptation and mitigation, supporting utilities in becoming more resilient and sustainable. This event will showcase the effectiveness of WOPs through case studies and insights from the MENA region, highlighting their critical role in ensuring safe and reliable water services amidst climate change.

Side Event: Empowering Sustainable Solutions – Expanding on Water Knowledge Outcomes

Time: 14:00 - 15:30

Hall: MONACO AB

Convener: CIHEAM

Co Convener: Hydroaid

Capacity building serves as the foundation for effective and sustainable governance in the water sector and beyond. A comprehensive strategy includes prioritizing training and education, tailoring programs to address specific needs, focusing on institutional strengthening, ensuring responsible decision-making processes, committing to knowledge sharing, and facilitating the exchange of findings, best practices, and innovative solutions. Additionally, advocating for inclusive participation and promoting equitable access to opportunities and benefits are essential.

The outcomes of the Water Knowledge project demonstrate how addressing water-related challenges through collaboration, education, and cooperation empowers a Pan African science-based water diplomacy initiative. By building on these results, we can expand our horizons and ensure long-term sustainability.

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Technical Session: JCAR Safe Coasts: Towards a Climate Resilient and Safe Mediterranean Coast in Egypt – Is Integrated Coastal Zone Management (ICZM) the Answer?

Time: 14:00 - 15:30

Hall: MONACO C

Convener: JCAR

Co Conveners: Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project (ECCADP)

In two sessions, we will present the efforts that have been undertaken by the Joint Cooperation in Applied Research (JCAR) project and Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project (ECCADP), and engage with a broad spectrum of stakeholders, to collect their feedback on how these efforts could be channeled to support decision-making. Our goal is to promote and enhance collaboration and integration between stakeholders, researchers, and practitioners in the coastal zone. The umbrella of integration is the Integrated Coastal Zone Management (ICZM) plan currently in preparation by ECCADP; supported by the tools that are being developed by both JCAR and ECCADP, in addition to the capacity building programs of both projects. The sessions will also emphasize how the ICZM plan along with the developed tools and associated capacity building are cornerstones for evidence-based decision-making that ensures sustainable development in the coastal zone.

Participants in the session will also have a space to express their opinions and reflect on the outputs of the two projects with a view to improving future activities within the two projects and for other similar projects.

Technical Session: Multidimensional Approaches Towards Enhancing Water Planning

Time: 14:00 - 15:30

Hall: ICELAND

Convener: FAO

Adequate policies and strategies at the regional and national levels play a pivotal role in supporting countries achieving the Sustainable Development Goals. Cross sectoral policy coherence paves the way to better coordinated efforts between development actors and countries enabling an efficient response to their needs and requirements. Institutional coordination and coherence between partners are important for policy coherence. At the regional level, the Arab League engages in High-Level exchanges, through its intergovernmental processes, where countries design and endorse sectoral strategies.

Adapted financing mechanisms play a key role in economic development. Investing in the water sector has impacts on the other sectors, inter alia, the

agricultural sector. Thus, innovative financing solutions adapted to the region can enable prioritizing actions for improved water planning. Designing a water finance strategy requires a participatory, inclusive, and gender-based investment planning process that generates benefits across sectors providing social benefits.

Workshop: Source Water Protection Investments

Time: 14:00 - 15:30

Hall: VIENNA

Convener: The Nature Conservancy

Co Conveners: African Water Association (AFWASA), Stockholm International Water Institute (SIWI)

This session targets the protection of source watersheds across Africa through replicable financial and governance models that conserve ecosystems important for biodiversity and support a multitude of services needed by the society

Technical Session: Enhancing Water Reuse In MENA Using AI-Based Technologies

Time: 14:00 - 15:30

Hall: PICASSO 2

Convener: IWMI

Co Convener: Arab Water Council (AWC)

IWMI in partnership with Google.org, is developing advanced analytics and AI-based modeling approaches to address the data gaps in Wastewater estimation and reuse. The project aims to produce several new insights into wastewater sector that will help Egypt, UAE and KSA to formulate policies leading to increase in water reuse.

Technical Session: Institutionalization of WEFE Nexus Hub for MENA

Time: 14:00 - 15:30

Hall: PICASSO 4

Convener: INWRDAM

Co Conveners: Jordanian Ministry of Water and Irrigation, MWRI

Join us at Cairo Water Week for a high-level session on institutionalizing the Water-Energy-Food-Ecosystems (WEFE) Nexus Hub across the MENA region. This session will showcase the integration of the WEFE Nexus approach into national frameworks, particularly in MENA, highlighting strategies for cross-sectoral collaboration and sustainable resource management. Attendees will gain valuable insights into the progress and impact of the WEFE Nexus Hub, with discussions on scaling up this approach in other countries. The event will bring together policymakers, sector professionals, and regional stakeholders to explore best practices and enhance regional cooperation and joining the WEFE Community through registering to the Hub.

High Level Session: Follow Up on UN 2023 Water Conference and Aspirations Towards the UN 2026 Water Conference

Time: 16:00 - 17:30

Hall: MONACO AB

Convener: MWRI

The global Water Community welcomed the convening of the United Nations Conference on the Midterm Comprehensive Review of the Implementation of the Objectives of the International Decade for Action, "Water for Sustainable Development," 2018–2028, from 22 to 24 March 2023, which generated significant momentum towards enhancing water action and political commitment at all levels to address water-related challenges, while reaffirming the sustainable development goals and targets related to water resources and sanitation, including those contained in the 2030 Agenda, and determined to achieve the goal of ensuring the availability and sustainable management of water and sanitation for all and other related goals and targets, emphasizing that water is critical for sustainable development and the eradication of poverty and hunger, that water, ecosystems, energy, food security and nutrition are linked and that water is indispensable for health, well-being and human development, including the empowerment of women, and a vital element of achieving the Sustainable Development Goals and other relevant goals in the social, environmental and economic fields.

Side Event: Towards A Climate Resilient and Safe Mediterranean Coast in Egypt – Is Integrated Coastal Zone Management (ICZM) the Answer?

Time: 16:00 - 17:30

Hall: MONACO C

Convener: ECCADP

Co Convener: JCAR

Project team will present the efforts that have been undertaken by the Joint Cooperation in Applied Research (JCAR) project and Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project (ECCADP), and engage with a broad spectrum of stakeholders, to collect their feedback on how these efforts could be channeled to support decision-making. Our goal is to promote and enhance collaboration and integration between stakeholders, researchers, and practitioners in the coastal zone. The umbrella of integration is the Integrated Coastal Zone Management (ICZM) plan currently in preparation by ECCADP; supported by the tools that are being developed by both JCAR and ECCADP, in addition to the capacity building programs of both projects. The sessions will also emphasize how the ICZM plan along with the developed tools and associated capacity building are cornerstones for evidence-based decision-making that ensures sustainable development in the coastal zone.

Technical Session: Advancing Water Resilience and Management in the NENA Region

Time: 16:00 - 17:30

Hall: ICELAND

Convener: FAO

water scarcity, climate change, and conflicts, amongst other factors, have exacerbated vulnerability of local communities in the Arab region. Difficulty to access water has deteriorated livelihoods leading to increased food insecurity. Water is used unsustainably in particular groundwater resources. According to the world Bank, in some countries, more than half of current withdrawals exceed water availability. Arab countries are facing the challenge of enhancing water resilience to ensure sustainable agricultural production.

Water resource managers face the challenge of making complex planning and management decisions in a changing environment characterized by a high level of uncertainty. The growing gap between water demand and supply for food production requires new approaches of water management to ensure efficient use of water and equitable access to agricultural production.

Water savings towards improving water allocation, access to irrigation facilities, community based early warning systems, groundwater recharge and reduction of abstraction, reduced water-related conflicts are all possible solutions to enhance vulnerable communities' resilience.

This session will explore how countries can strengthen water security through water management accessible and adapted techniques and approaches to avoid the inevitable disruptions of water crises.

Side Event: Advancing Gender Equality in Water, Energy, Food, and Ecosystems

Time: 16:00 - 17:30

Hall: LOUVRE 5

Convener: Partnership for Research and Innovation in the Mediterranean Area (PRIMA)

Co Convener: IWMI

Globally, women constitute 43% of the agricultural labour force but often lack access to land, credit, and technology. In sub-Saharan Africa, women provide up to 80% of the food supply but face barriers to market access. women often bear the brunt of resource scarcity and environmental degradation. In water management, women play essential roles in collecting, using, and safeguarding water resources. However, their contributions are often undervalued. Similarly, in energy access, gender gaps persist. Women face challenges in accessing green energy technologies and participating in decision-making processes. In agriculture and food systems, women contribute significantly to production, yet they encounter unequal access to resources, markets, and decision-making

DAY TO DAY AGENDA

platforms. Women's active participation in decision-making processes and equitable access to resources are essential for advancing gender equality in WEF domains.

Significant progress has been made in empowering women within the Water-Energy-Food (WEF) nexus in the MENA region, particularly in Egypt. Women have increasingly taken on leadership roles in water resource management, energy policy formulation, and agricultural innovation. For instance, initiatives such as the integration of women in local water councils and the promotion of female-led agribusinesses have contributed to greater gender equality.

Technical Session: How Policy Shaped Water Reuse Reality in MENA: Evidence From the Past and Recommendations for the Future

Time: 16:00 - 17:30

Hall: PICASSO 2

Convener: IWMI

Co Convener: FAO

Water reuse is recognized as part of the solution to the water crisis in MENA and the number of projects for direct water reuse has doubled every decade since 1960. Nevertheless, still more than half of the generated wastewater is lost in the sea or evaporated with no productive use. The region cannot afford this loss and needs to accelerate the recovery and reuse of wastewater and make water reuse safer and more productive. In this interactive session we will: i) Shed light on the current situation of water reuse in selected countries of MENA; ii) Discuss what past or existing policy instruments have been more effective in the promotion of water reuse; and iii) explore policy recommendations to accelerate the implementation of water reuse projects.

Technical Session: Technical discussion on Solar Power Desalination for Irrigation Initiative under AWARe Initiative (Part I)

Time: 16:00 - 17:30

Hall: PICASSO 4

Conveners: IDRC, UNDP

Co Convener: MWRI

Closed Technical discussion with countries involved in the potential regional project of solar power desalination for irrigation

Day Three 15th October 2024

Plenary Session: Innovation and Financing Resilient Solutions for Water Security

Time: 09:30 - 11:00

Hall: MONACO AB

Convener: MWRI

Sponsored By: IWMI

Addressing the complex challenges posed by climate change and rapid population growth necessitates innovation and financing resilient solutions for water security. Sustainable access to clean water can be ensured by leveraging non-conventional water resources, such as rainwater harvesting, greywater recycling, and desalination. Additionally, integrating advanced technologies like AI and big data analytics for predictive modeling and real-time monitoring can enhance water management practices. Innovative financing mechanisms, including public-private partnerships and green bonds, play a crucial role in mobilizing resources for sustainable water infrastructure. By combining these approaches, we can improve the resilience of water infrastructure, secure long-term water availability for communities and ecosystems, and promote sustainable water management practices. This holistic strategy not only addresses immediate water security issues but also builds a foundation for future water resilience.

Side Event: Data Diplomacy and Exchange: Hydrological Data Management, Interoperability and Access

Time: 09:30 - 11:00

Hall: MONACO C

Conveners: International Centre for Water Resources and Global Change, Permanent Joint Technical Commission for Nile Waters

Co Conveners: WMO, United Nations Economic Commission for Europe (UNECE), Lincoln Institute

The primary goal of the session is to highlight the role of hydrological data as a critical connection between hydrology, climate resilience, EWS, meteorology, oceans, cryosphere, etc in Africa. By shedding light on these intersections, it aims to raise awareness among political leaders, decision-makers, funding agencies and researchers about the importance of prioritizing hydrological data management interoperability and access in addressing modern-day water-related challenges. Furthermore, it will explore innovative business models and knowledge sharing platforms including synergies among different partners and institutions for sustainable WMO Hydrological Observing Systems as part of WMO Information System

Technical Session: Enabling Environment for Implementation of Nature-Based Solutions in the MENA Region

Time: 09:30 - 11:00

Hall: PICASSO 2

Convener: IWMI

Co Convener: Center for Environment and Development for the Arab Region and Europe (CEDARE).

IWMI and partners will present initial findings related to the systemic enabling environment for implementation of nature-based solutions in the MENA region. Panel discussion and audience interaction will advance understanding of systems change components required for increased application of NBS.

Technical Session: Part I: Innovative Strategic orientations for Advancing Science Based Decision Making in Desalination for Agriculture Development (DAD)(Country cases).

Time: 09:30 - 11:00

Hall: ICELAND

Convener: FAO

Co Convener: The Regional Water Scarcity Initiative (WSI).

The objective of this session is to enhance common understanding by sharing knowledge and exploring the opportunities and challenges of the latest technological innovations in Desalination for Agricultural Development (DAD), addressing their potential to enhance water efficiency and crop yields. It will examine the ecological impacts of desalination on soil and ecosystems, presenting actions for mitigating negative effects. Through technical presentations, participants will gain insights into sustainable good agricultural practices and successful case studies to promote the responsible integration of desalinated water in agriculture development.

DAY TO DAY AGENDA

Workshop: Integrated Research for Sustainable Water Solutions: A Collaborative Partnership for Egypt's Water Future.

Time: 09:30 - 11:00

Hall: VIENNA

Convener: National Water Research Center

Co Conveners: National Research Institute of Astronomy and Geophysics (NRIAG), National Institute of Oceanography and Fisheries (NIOF), National Authority for Remote Sensing and Space Sciences (NARSS)

This session will focus on the vital issue of sustainable water management in Egypt, emphasizing the importance of collaborative partnerships among academic institutions, government agencies, and the private sector. We will present innovative solutions through cutting-edge research and technological advancements to enhance water resource management, conservation, and utilization. Additionally, the session will explore the policy implications of evidence-based research, highlighting its crucial role in informing decision-makers and shaping a sustainable water future for Egypt.

Workshop: National Climate Change Adaptation Plan for Egypt

Time: 09:30 - 11:00

Hall: PICASSO 4

Conveners: NAP Project, UNDP, Green Climate Fund (GCF), Ministry of Environment

The project aims to address climate change risk in the mid- and long-term, catalyze investment in climate change adaptation (CCA), and build on policy and capacity building efforts already underway, the Government of Egypt began a National Adaptation Planning (NAP) process, which resulted in a roadmap for advancing adaptation planning to advance the process further.

In this session, the team of experts working on the NCRA under the NAP process will showcase the progress made so far and discuss the way forward.

Scientific Session: Innovation and Financing Resilient Solutions for Water Security

Time: 11:30 - 13:00

Hall: LOUVRE 5

Convener: MWRI

This session delves into critical approaches for addressing the challenges posed by climate change and population growth, ensuring sustainable access to clean water. This session highlights the significance of leveraging non-conventional water sources, like rainwater harvesting and greywater recycling, to strengthen water supply systems. Utilizing appropriate metrics to evaluate climate change impacts on water availability and quality is essential for informed

decision-making.

The session emphasizes the deployment of water-saving technologies across sectors to boost operational efficiency. Furthermore, the integration of artificial intelligence and big data analytics for predictive modeling and real-time monitoring is explored to address water security challenges comprehensively. Innovative financing mechanisms such as public-private partnerships, green bonds, and water pricing reforms are crucial for mobilizing resources to develop resilient water infrastructure, ensuring long-term sustainability.

Topics include enhancing water stress tolerance in wheat, irrigation system modernization experiences in Morocco, efficient pollutant removal using nanocomposites, agricultural water management in Turpan, China, use of numerical model in predicting sea level for coastal engineering design in Egypt, and seasonal water clarity assessments in Lake Burullus via satellite imagery. This session aims to showcase cutting-edge solutions for advancing water security resilience through innovation and strategic financing

Technical Session: Scaling Resilient Nature-Based Water Solutions: MENA Lessons and Opportunities

Time: 11:30 - 13:00

Hall: PICASSO 2

Convener: IWMI

Co Conveners: IUCN, CEDARE

This session aims to Convene scaling actors for nature-based solutions for water (NBSW), Gain insights into NBSW scaling experiences of these actors and projects, and Share key findings and recommendations for scaling NBSW in the MENA region.

Technical Session: Policy and Technical Solutions for Water Data Diplomacy and Exchange

Time: 9:30 - 13:00

Hall: MONACO C

Conveners: Center for Geospatial Solutions, The Lincoln Institute of Land Policy, WMO, Permanent Joint Technical Committee for Nile Waters, International Centre for Water Resources and Global Change (ICWRGC), United Nations Economic Commission, Women in Water Diplomacy Network and Environmental Law Institute.

In this two-part session, the co-convening partners will engage expert decision-makers and session participants in an experience exchange dialogue on water data exchange and explore application of water diplomacy approaches to supporting dialogue, trust-building, and exchange within hydrological and meteorological services at local, national, and regional levels with focus on Africa.

Part 1 of the session will share new research related

to good practice in data-sharing and consider how water diplomacy can support data-sharing processes. Reflections will be invited from a panel of experts elevating a variety of perspectives (context, scale, government, inter-government, global, civil society, etc.). Part 2 will provide an update on the current state of water data exchange at various scales and invite session participations to engage in an interactive exercise to explore water data exchange in practice and provide input into the WMO Unified Data Policy's draft classification for prioritized data exchange. This event is open to all participants of the African Hydrological Dialogue, Africa Water Week, and Cairo Water Week conference participants joining in-person and online including formal and informal water and policy decision makers, researchers, and practitioners among others.

Workshop: Adaptation Costing for Mobilizing Climate Finance for Water

Time: 11:30 - 13:00

Hall: PICASSO 4

Conveners: League of Arab States (LAS), GCF, The Government of Sweden, Islamic Development Bank, FAO, United Nations Economic and Social Commission for Western Asia (ESCWA)

Co Conveners: Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD), Arab Fund for Economic and Social Development (AFESD)

The Arab Initiative for Mobilizing Climate Finance for Water is a Water Action Agenda commitment launched by ESCWA, LAS, GCF, IsDB, FAO and Sweden in collaboration with ACSAD and AFESD, that is supported by the Arab Ministerial Water Council and Council of Arab Ministers Responsible for the Environment.

The initiative advocates for improved adaptation costing to demonstrate the benefits and savings generated by water and water-related projects under projected climate change scenarios. Increased capacity to develop costed, bankable and affordable project pipelines help to mobilize climate finance. The workshop will train water and agricultural sectors representatives on tools and methods for assessing and projecting adaptation costs, which can be used to inform the preparations of the next generation of nationally determined contributions (NDCs), which are to be submitted in early 2025, and adaptation commitments at different scales of analysis.

The initiative partners (ESCWA, GCF, IsDB, FAO, LAS, AFESD, ACSAD and the Government of Sweden) will deliver training on how to strengthen adaptation costing to better mobilize climate finance for water in the Arab region. Technical powerpoint presentations and an expert panel will be delivered and complemented by interactive discussions and exchange of lessons learned.

Technical Session: Part II: Innovative Strategic orientations for Advancing Science Based Decision Making in Desalination for Agriculture Development (DAD) (Panel Discussion)

Time: 11:30 - 13:00

Hall: ICELAND

Convener: FAO

Co Convener: The Regional Water Scarcity Initiative (WSI)

Objective: This panel discussion will open dialogue on strategic orientations to foster informed decision for safe and sustainable use of desalinated water resources in agriculture sector and explore the multifaceted decision-making considerations for implementing desalination for agriculture development projects to achieve food security. Discussions will address also, circular economy, energy consumption, environmental impact, water quality, infrastructure, social acceptance, sustainable finance, and climate resilience.

High Level Session: Solar Power Desalination for Irrigation under AWARE

Time: 11:30 - 13:00

Hall: MONACO AB

Conveners: IDRC, UNDP

Co convener: MWRI

Opportunities associated with solar powered desalination technologies, as an alternative water resource, need to be explored based on global best practices. This should include an integrated water-energy-food-ecosystem nexus that maximize the benefit from every desalinated water drop through the implementation of efficient irrigation systems, multiple water recycling mechanisms, high agriculture productivity techniques, while considering the mitigation options for brine management and reducing environmental impacts for long term sustainable use. This approach can enhance food production in the countries suffering from limited or erratic water resources that are aggravated by climate change. IDRC and UNDP, under the AWARE initiative are organizing a high-level panel discussion with government officials from MENA region to reflect on the challenges and opportunities of using desalinated brackish/sea water in agriculture to enhance food security and climate resilience in the region. Case studies/success stories from MENA countries and other countries will be presented.

DAY TO DAY AGENDA

Technical Session: Green Energy Transition for Enhanced Climate Resilient in MENA Agriculture

Time: 14:00 - 15:30

Hall: LOUVRE 5

Convener: International Center for Agriculture Research in the Dry Areas (ICARDA)

Co Convener: Massachusetts Institute of Technology (MIT)

MENA is a water scarce, food deficient, energy intensive region and highly vulnerable to the impacts of climate change. In addition, predominance of fossil fuel use for irrigation water pumping is the main cause of huge CO₂ emissions from agricultural sector. Green energy has the potential to resolve conflicts between vital sectors such as water, agriculture, energy, and environment and bring them to collaborate for better livelihoods of the populations of the region. Efforts in field of green energy by ICARDA and partner institutions that are interested in MENA region will be presented in this session to disseminate best practices, innovations, and success stories for maximizing affordable green energy solutions in MENA such as solar-powered technologies in the desalination of brackish groundwater, ultra-low energy (ULE) drip irrigation reducing pumping power and enabling farmers to adopt solar-powered, agrivoltaic systems and traditional solar irrigation, and solar-powered IoT-based controllers for optimal water management. The session will involve presentations and panel discussion on advantages of and bottlenecks facing the scalability of green energy in agriculture in MENA and its link with water productivity and carbon footprint in agriculture.

Side Event: The Launch of the Report “Food-Land-Water Policies Coherence in Egypt”

Time: 14:00 - 15:30

Hall: PICASSO 2

Convener: IWMI

Co Conveners: MWRI, World Fish

The objective of this session is to launch the CGIAR NPS initiative flagship report on food, land, and water in Egypt. The session emphasizes climate-adaptive water productivity as a policy coherence framework to analyze these interlinkages. The session should highlight the main recommendations and priorities for implementation on the agenda of the relevant ministries.

Workshop: Shaping Water Policies: The National Water Research Center’s Pioneering Scientific Contributions

Time: 14:00 - 15:30

Hall: VIENNA

Convener: National Water Research Center

As a premier authority in water research, NWRC has played a vital role in developing innovative solutions to address the nation’s water challenges. Their state-of-the-art studies provide essential insights into water scarcity and management strategies, the effects of climate change on water resources, water quality and pollution control, and advancements in water-related technologies.

This session will feature presentations from distinguished NWRC experts, who will share their latest findings and discuss the implications of their research for policymakers and stakeholders.

Technical Session:Part I: From Waste to Resource: Advanced frameworks for Integrating Treated Wastewater in Modern Agricultural Practices (Country Cases).

Time: 14:00 - 15:30

Hall: ICELAND

Convener: FAO

Co Convener: WSI

This session aims to explore the regulatory frameworks governing the use of treated wastewater in agriculture, emphasizing quality assurance and safety standards. It will cover the development and enforcement of regulations, best practices for monitoring and compliance, and the role of policymakers in ensuring public health, gender considerations and environmental protection. The session will also address sanitary safety planning and the safe use of treated sludge, highlighting strategies for mitigating health risks and maximizing the benefits of sludge as a valuable agricultural resource. Participants will learn about successful implementation examples and the importance of robust regulatory frameworks in promoting the sustainable and safe reuse of wastewater and sludge for irrigation.

Technical Session: Connections: From Observations to Resilience-Recent Advances

Time: 14:00 - 15:30

Hall: MONACO C

Convener: UNESCO Regional Office in Cairo

The session aims to explore the innovative approaches including practical applications in hydrological sciences that aim to improve water resources management. The session bring together experts, researchers working on state-of-the-art remote sensing application, hydrological modeling and evidence based water resources management strategies to present. The session will bring together renowned international experts, researchers, from (1) the International Center for Integrated Water Resources Management at the US Army Corps of Engineers (ICIWaRM), at the US Army Corps of Engineers, (2) the International Center for Water Hazard and Risk Management (ICHARM), in Japan, (3) the Center for Hydrometeorology and Remote Sensing at the University of California, Irvine (CHRS), at the University of California, Irvine, and (4) the Global Hydrology and Water Resources Group at the University of Virginia in the USA to discuss state-of-the-art remote sensing application, hydrological modelling and evidence-based water resources management strategies.

Technical Session: Best practices on Ground water

Time: 14:00 - 15:30

Hall: LOUVRE 7

Convener: MWRI

In light of the great importance of groundwater to Egypt as a non-renewable water resource and one of the most important determinants of its water balance. The best practices and successful models with technical, economic and social returns on groundwater have been monitored, especially in areas that are facing a persistent challenge in the potential of this non-renewable resource, especially in the areas of the western Delta, Al-Moghra and Al-Farafra.

A number of companies from those areas have been targeted to participate in this session, during which they will review the challenges that each company has faced until reaching successful models with tangible returns that can be built upon in replicating those experiments and disseminating them on the widest scale, whether in relation to the irrigation systems used, cropping patterns and their relation to the needs of both local and global markets and the extent of their impact on small farmers.

Technical Session: High-Level Session on Empowering Key Perspectives in Water Diplomacy

Time: 14:00 - 17:30

Hall: MONACO AB

MONACO AB

Conveners: SIWI, Women in Water Diplomacy Network, The Lincoln Institute of Land Policy

Co Conveners: Environmental Law Institute (ELI), UN University Institute for Water, Environment and Health (UNU-INWEH)

This high-level event will explore the critical role of gender equality in decision-making processes for transboundary water governance, with a particular focus on enhancing women's leadership in regional dialogues around shared water resources. The session will gather a diverse array of experts, high-level government representatives, and water diplomacy practitioners to underscore the importance of inclusive and equitable participation in water diplomacy.

Central to the discussion will be the pioneering work of the Women in Water Diplomacy Network, a global initiative dedicated to advancing gender equality in transboundary water negotiations. Originating in the Nile Basin and now expanding across various regions, the Network fosters collaboration between women decision-makers and male champions, advocating for strengthened women's leadership in some of the world's most water-insecure and conflict-sensitive basins.

The event will highlight key initiatives of the Women in Water Diplomacy Network, advocating for collective action to address barriers to women's participation in water governance while promoting the critical linkages between water, peace, security, and gender equality.

Technical Session: Shaping the Future of Sustainable Water Management through Precision Agriculture

Time: 16:00 - 17:30

Hall: LOUVRE 5

Convener: ICARDA

Co Conveners: Excellence in Agronomy (EiA) Initiative, AWC

Water digitalization in the agricultural sector is a very significant step towards rationalization of water use in the largest user sector for water resources in the MENA region. ICARDA and have been backstopping the digitalization of water and agricultural sectors in the MENA region at all levels and in all areas even in the most isolated and fragile dry areas to facilitate faster, better, and more accurate data collection, knowledge sharing, analysis, and decision-making. This session will present the developments in technologies, irrigation applications and tools, digital analytics, remote sensing, networks, knowledge sharing hubs, data-driven platforms, and data pools. The event will involve presentations and panel discussion about innovations, best practices, and success stories from the farm to basin levels.

DAY TO DAY AGENDA

Side Event: Supporting Water Security in Africa with the Peaceful Application of Nuclear Science and Technology

Time: 16:00 - 17:30

Hall: VIENNA

Convener: CRDF Global

Co Convener: Morocco's National Center for Nuclear Energy Science and Technology (CNESTEN)

The Sustained Dialogue on Peaceful Uses (SDPU) aims to expand the conversation on peaceful uses of nuclear science and identify opportunities for using nuclear technology in pursuit of the United Nations Sustainable Development Goals. With a participant-driven approach, the program brings together diverse stakeholders to foster new relationships so that, as a global community, we can find ways for nuclear science and technology to most effectively serve our shared interest of sustainable development while identifying and addressing barriers to access.

Organized by CRDF Global, in partnership with Morocco's National Center for Nuclear Energy, Science, and Technology (CNESTEN), this 1.5-hour side event at Cairo Water Week will feature an expert panel discussion on the role of nuclear science, notably isotope hydrology, in informing water resource management in relation to UN SDG 6 – Clean Water and Sanitation. The event will also feature a fire-side chat with representatives from CNESTEN and Morocco's Ministry of Equipment and Water to explore how CNESTEN has successfully advanced the use of isotope hydrology and integrated this data into decision-making processes to address water security challenges.

Technical Session: Part II: From Waste to Resource: Advanced frameworks for Integrating Treated Wastewater in Modern Agricultural Practices (Panel Discussion)

Time: 16:00 - 17:30

Hall: ICELAND

Convener: FAO

Co Convener: WSI

Objective: This Panel will explore advanced strategies for effectively integrating the safe use of treated wastewater into farming practices with the aim of enhancing water resource sustainability. It will examine cutting-edge treatment technologies, health and safety standards, and the economic benefits of wastewater reuse. Participants will gain insights into overcoming implementation challenges and maximizing agricultural productivity through innovative wastewater management frameworks and protocols.

Side Event: Launch of the One CGIAR Water Systems Integration Framework 2024-2030

Time: 16:00 - 17:30

Hall: PICASSO 2

Convener: IWMI

Co Conveners: CGIAR, ICARDA, International Food Policy Research Institute (IFPRI), World Fish, The Alliance of Bioversity International and CIAT, MWRI

CGIAR's network of research centres formed the One CGIAR integrated partnership in 2020 to tackle the complex, global and interconnected challenges of sustainable development, climate change, and biodiversity crisis. One CGIAR recognizes that the 21st century's challenges require a new integrated agenda for research and innovation. One that's built on CGIAR success. Over the last 50 years, at the forefront of agricultural research across the Global South.

The newly developed One CGIAR Water systems integration roadmap 2024-2030 will apply capabilities in water systems science from across CGIAR to transformations for future water security. It will build a whole-of-CGIAR response to the urgency of water security, to put in place for the first time, an integration road map for CGIAR to address the reality that its vision of food-secure future is possible only in water-secure world.

OBJECTIVES OF THE SIDE-EVENT

1. Unveil the One CGIAR Water systems integration road map 2024-2030: Present the development process and the strategic focus areas of the roadmap,
2. Highlight Impact-Driven implementation: Discuss the identified transformation levers, delivery and excellence mechanisms.
3. Strengthen Stakeholder Collaboration: Discuss the role of partnerships and cooperation to support the strategy's implementation and excellence.

Technical Session: Technical discussion on Solar Power Desalination for Irrigation Initiative under AWARe Initiative (Part II)**Time: 16:00 - 17:30****Hall: PICASSO 4****Conveners: IDRC , UNDP****Co Convener: MWRI**

Technical discussion continuation on Solar Power Desalination for Irrigation Initiative under AWARe Initiative (Part II)

Side Event: Launching UNESCO NEXUS Hackathon on Water Energy and Food in Egypt**Time: 16:00 - 17:30****Hall: MONACO C****Convener: UNESCO Regional Office in Cairo**

UNESCO Regional Office in Cairo will launch Hackathon on Water Energy and Food Nexus in Egypt in joint collaboration with the relevant Ministries including Ministry of Water Resources and Irrigation and the Ministry of Youth and Sports in addition to private sector. The main aim is to promote youth engagement in WEF Nexus activities and to promote youth-led actions for the sustainable management of the water , food and energy systems.

Technical Session: From Satellites to Fields: Innovations Supporting Water Managers and Farmers**Time: 9:30 - 11:00****Hall: PICASSO 2****Convener: IWMI****Co Convener: FAO**

IWMI and partners will present the WaPOR based tools focusing on Jordan and Tunisia and Potentially Iraq co-designed with local stakeholders to support irrigation water management using combined remote sensing and ground based data for better decision-making.



Day Four 16th October 2024

Plenary Session: Actions for Water and Climate Adaptations and Resilience

Time: 9:30 - 11:00

Hall: MONACO AB

Convener: MWRI

Co Convener: WMO

Resilience and adaptation are crucial in mitigating the severe impacts of climate challenges and transforming them into viable solutions. Addressing these challenges requires advancements in knowledge and innovations across various domains, including technology, solutions, and adaptations services. Delaying action will only increase the cost and difficulty of adaptation for future generations. This thematic focus centers on recent advancements in understanding climate change uncertainties, assessing the severity of impacts, identifying vulnerable regions, and mapping risks related to water issues. It aims to enhance water management solutions, protect communities, and develop tools for effective response and recovery from inevitable crises. Emphasis is placed on integrating advanced modeling techniques, fostering nature-based solutions, and retrofitting hydraulic infrastructure to withstand climate impacts. By improving monitoring and early warning systems, we can ensure timely and effective crisis response, ultimately safeguarding water resources and enhancing community resilience against climate-induced challenges.

Side Event: Empowering Climate Action: The Water Resilience Tracker's Role in National Adaptation Planning

Time: 9:30 - 11:00

Hall: MONACO C

Convener: AGWA

Co Conveners: Deltares, ARUP, and IWMI

The Water Resilience Tracker (WRT) is a pivotal tool and a component of the Just Transitions for Water Security (JTWS) program, a new initiative designed to integrate water resilience into national climate adaptation strategies.

This session will delve into how the WRT enables comprehensive assessments of water systems, aiding countries in enhancing resilience against the multifaceted challenges posed by climate change and water scarcity.

Side Event: The second EU Aqua Dialogues - Nurturing Water Innovators: Youth and Entrepreneurship in the Heart of the Nile

Time: 9:30 - 17:30

Hall: IMPERIA

Convener: EU

The “The second EU Aqua Dialogues - Nurturing Water Innovators: Youth and Entrepreneurship in the Heart of the Nile” event, held during Cairo Water Week 2024, is dedicated to supporting young water entrepreneurs in Egypt, empowering them to transform their innovative ideas into successful businesses. This event aligns with the strategic initiatives of the EU-Egypt Water Partnership and the broader goals of the Team Europe Initiative on Water and Food Security.

Key Objectives:

- **Showcase Innovative Solutions:** Highlight cutting-edge water management and conservation solutions developed by young entrepreneurs.
- **Capacity Building:** Provide workshops and seminars on sustainable water management, resilience to climate change, and entrepreneurship.
- **Foster Partnerships:** Create opportunities for dialogue between young innovators, policymakers, established businesses, and international partners like the EU.
- **Support Entrepreneurial Growth:** Empower young water entrepreneurs with the knowledge, networks, and support needed to become successful business owners and leaders in water sustainability.
- **Create EU Young Water Ambassadors:** Identify and nurture young leaders to become ambassadors for water sustainability within the EU and Egypt.

High Level Session: The 6th Meeting of the High-Level Joint Water-Agriculture Technical Committee of the Leagues of Arab States

Time: 9:30 - 17:30

Hall: ICELAND

Convener: The League of Arab States

Co Conveners: FAO, ESCWA

The 6th Annual Meeting of the High-Level Joint Water-Agriculture Technical Committee of the Leagues of Arab States

Scientific Session: Actions for Water and Climate Adaptations and Resilience

Time: 11:30 - 13:00

Hall: LOUVRE 5

Convener: MWRI

The session on “Actions for Water and Climate Adaptations and Resilience” underscores the pivotal role of resilience and adaptation in mitigating the harsh impacts of climate challenges and transforming them into sustainable solutions. Advancements in knowledge and breakthroughs across diverse domains, including technologies, solutions, and adaptation services, are crucial for effective addressing of these challenges. Urgent action is imperative as postponing adaptation efforts will escalate costs and complexities for future generations.

This thematic focus centers on recent strides in comprehending climate change uncertainties, evaluating impact severity, identifying vulnerable regions, and mapping water-related risks. The session aims to bolster water management solutions, safeguard communities, and foster the development of tools for efficient response and recovery during crises. Key topics include the role of HydroSOS in climate actions, the impact of climate change on water and crop productivity in Palestine, interactive flood risk analysis for Hamburg, Germany using GIS and remote sensing, flash flood hazard assessment in Egypt, groundwater vulnerability in arid coastal aquifers, and hydroponic system assessments for lettuce growth compared to soil-based cultivation. This session aims to showcase actionable strategies for enhancing water and climate adaptations while fostering resilience in the face of evolving challenges.

Technical Session: Building a Water-Secure Future for Africa: Capacity Building Success Stories for Sustainable Water Management

Time: 11:30 - 13:00

Hall: MONACO C

Convener: The Center for Applied Research on the Environment and Sustainability

Co Convener: The National Water Research Center

Capacity building is essential for sustainable development and effective management of water resources in Africa.

Through targeted training programs, skill development, and knowledge transfer, African nations can enhance their ability to address water-related challenges exacerbated by climate change. This session aims to discuss the outcomes of various training initiatives, ongoing efforts, and success stories in capacity building across the continent.

This session focuses on the importance of capacity building in Africa for water resource management. It aims to:

1. Discuss the outcomes of past and ongoing training programs.

2. Highlight success stories in capacity building efforts.
3. Identify best practices and lessons learned from these initiatives.

Workshop: Building Peace through Water Governance in Fragile and Conflict-Affected Regions

Time: 11:30 - 13:00

Hall: PICASSO 2

Convener: IWMI

Co Conveners: Supporting Partnerships for Agriculture and Resource Conservation (SPARC), Cairo International Center for Conflict Resolution, Peacekeeping and Peacebuilding (CCCPA)

“There is weak evidence for arguments that water insecurity and climate change lead to conflict. However, there is abundant evidence that conflict leads to water insecurity and climate vulnerability. Fragile and conflict-affected (FCA) Arab and African countries include some of the most water insecure and climate vulnerable people in the world. In drylands, choices made about scarce water resources are highly consequential, and conflict exacerbates the political dimensions of these choices. The humanitarian task of delivering water services can create winners and losers, bringing advantages to some communities and costs to others. And political settlements at the end of conflict can lock-in long-term challenges for both water management and climate vulnerability. Yet even in these most difficult situations there are examples of interventions supporting water security and climate resilience, and examples of water governance enabling security and peacebuilding. In the run-up to COP29 in Baku, this session builds on discussions about climate change, recovery, and peacebuilding at COP 27 in Sharm El Sheikh and COP 28 in Dubai. It asks, how can good water governance contribute to climate resilience and peacebuilding in FCA situations, and what are the entry points for good water governance in FCA situations?”

Poster Session

Time: 14:00 - 15:30

Hall: LOUVRE 7

Convener: MWRI

The limited time allocated for oral presentations during the five days of Cairo Water Week 2024 posed a significant challenge for the Organizing Committee, resulting in the exclusion of numerous compelling research works submitted for presentation. As a consequence, approximately 15 studies will be displayed as posters in the session dedicated to “Water and Climate: Building Resilient Communities.” This format allows for a broader dissemination of innovative ideas and research findings within this critical area.

DAY TO DAY AGENDA

Technical Session: Innovation in Climate Change Adaptation

Time: 14:00 - 15:30

Hall: MONACO C

Convener: Nile Water Sector, MWRI

Africa faces significant challenges due to climate change, particularly in water resource management. Changing precipitation patterns, increased frequency of extreme weather events, and prolonged droughts have severely impacted water availability and quality across the continent. Additionally, the intrusion of seawater into deltas threatens freshwater supplies and agricultural lands, worsening the situation.

Technical Session: Results in Community-Water Company Collaboration & Energy Efficiency in Upper Egypt

Time: 14:00 - 17:30

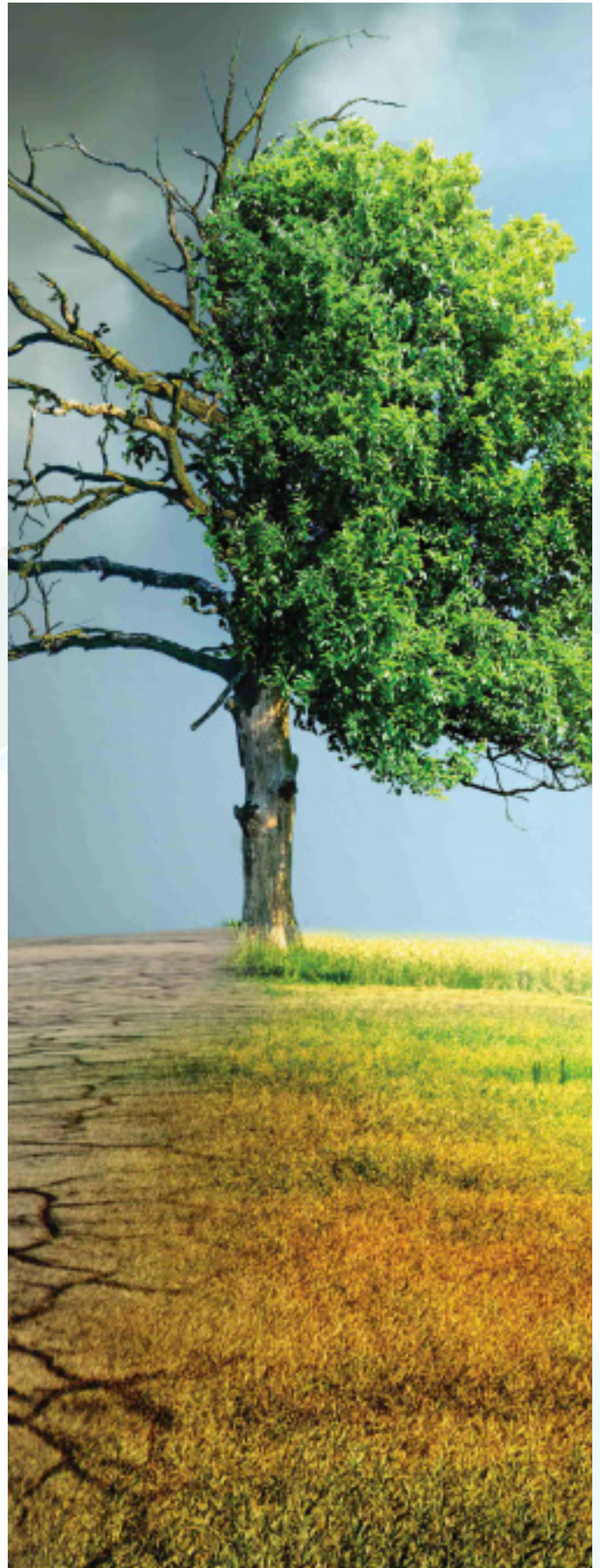
Hall: LOUVRE 5

Convener: VNG International

Improving Sustainability of the WASH Sector in Upper Egypt (ISWS), funded by the Netherlands Embassy in Egypt, will share two sessions worth key results in strengthened community-water company-governorate collaboration, and significance of energy efficiency activities for overall sustainable management of water companies. Both sessions share experiences and challenges directly by representatives from the HCWW, water companies, and governorates and experts in a.o. ISO 50001 certification, and interactive discussion.

The first session presents the adaptation and introduction of the Community Score Card instrument with the HCWW and MoLD in 16 districts of Qina, Sohag, Assiut, and Minia, backed with a set of knowledge/awareness tools for citizens and service providers to ensure that local communities and stakeholders have the capacity to engage in effective processes to strengthen trust, protect sustainability of water resources and infrastructure, and achieve continuous improvement of WASH services with an active role for communities on the local level.

The second session showcases the water companies' work on energy efficiency improvement as a crucial input for more sustainable WASH services management. Including outcomes, challenges, and benefits of supporting ISO 50001 certification and power factor correction training for environmental sustainability, and how to replicate such initiatives peer-to-peer throughout water companies.



Day Five 17th October 2024

Plenary Session: Climate-Smart Communities Planning and Legislation

Time: 9:30 - 11:00

Hall: MONACO AB

Convener: MWRI

Planning and legislation for climate-smart communities are crucial in proactively addressing the impacts of climate change on urban areas. By embedding climate resilience into urban development policies and regulations, we can promote sustainable growth and enhance the adaptive capacity of communities to withstand climate-related challenges. Effective planning and legislation ensure sustainable growth by integrating affordability considerations, particularly concerning human migration, Landuse and job dynamics . The integration of water ,sanitation, and hygiene services is vital, alongside addressing the Water-Food-Energy Nexus. Key components include efficient leak detection technologies, water efficiency standards, and conservation incentives, all supported by community -based water management and robust legislative frameworks. Proactive interventions and informed decision-making processes are essential for long-term sustainability . These measures not only foster resilient urban infrastructure but also promote equitable access resources, ensuring that communities can thrive despite the evolving climate landscape.

Technical Session: The National Drainage Programme 3 in the context of the Joint Integrated Sector Approach in the Irrigation Sector (NDP3/JISA)

Time: 9:30 - 11:00

Hall: MONACO C

Convener: MWRI

Co Conveners: EU, Kreditanstalt für Wiederaufbau (KfW), Mott MacDonald

The project, funded by the European Union, the German Federal Ministry for Economic Cooperation and Development (BMZ) through KfW, and the Government of Egypt, and Implemented by the Egyptian Ministry of Water Resources and Irrigation, is composed of two work packages: (WP1) the National Drainage Programme Phase III (NDP3), and (WP2) the Joint Integrated Sector Approach (JISA), Phase 3. The goal of NDP3, implemented by the Egyptian Public Authority for Drainage Projects (EPADP) of MWRI, is to achieve socio-economic development in Egypt by improving agricultural performance. The specific objective of NDP3 is to increase agricultural production by providing adequate drainage infrastructure and enhancing the capacities of different stakeholders to

rehabilitate and extend subsurface drainage networks. NDP3 is considered the top investment priority in the operationalization of JISA, which is the main development partner co-ordination mechanism aimed at enhancing investment effectiveness in the irrigation sector by means of an improved co-ordination of investment planning and implementation within the Ministry of Water Resources and Irrigation of the Government of Egypt. The current technical assistance supports MWRI in implementing the JISA investment planning and monitoring methodology and to improve coordination throughout MWRI.

Side Event: Climate-Resilient Cities: Innovative Solutions for Strategic Water Resources Management

Time: 9:30 - 11:00

Hall: PICASSO 4

Convener: ESCWA

Co Convener: UN Habitat

In accordance with theme 2 of Cairo Water Week (Strategic Water Resources Management in Enhancing Community Resilience), this session will emphasize the role of technical solutions in achieving water security and climate adaptation in urban settings. An urban water focused Adaptation Fund project being implemented by UN-Habitat with support from ESCWA will be used as a launching board to explore how satellite imagery and GIS analyses may be deployed in urban planning efforts and used to address challenges around freshwater availability and quality, including climate change impacts. Understanding the interconnectedness of technical solutions is key to addressing environmental challenges, such as climate change, at both macro and micro scales. Additionally, the session will highlight strategies to make technical solutions for water resource management financially sustainable at the city-level.

DAY TO DAY AGENDA

Scientific Session: Climate-Smart Communities Planning and Legislation

Time: 11:30 - 13:00

Hall: LOUVRE 5

Convener: MWRI

“Climate-Smart Communities Planning and Legislation” session delves into the critical importance of proactive measures in addressing the impacts of climate change on urban areas. By integrating climate resilience into urban development policies and regulations, these initiatives foster sustainable growth and enhance communities’ adaptive capacities against climate-related challenges. The integration of climate resilience into planning and legislation is paramount for developing climate-smart communities, ensuring sustainable growth and bolstering adaptive capacities.

This session emphasizes the significance of affordability in implementing resilient strategies, particularly concerning human migration, land use, and job dynamics. It underscores the integration of water, sanitation, and hygiene services within communities, along with addressing the Water-Food-Energy Nexus.

Topics include proposed policy framework to mainstream the Water-Food-Energy-Environment Nexus into water resources management, presentation of World Water Policy Journal presented by Editors-in-Chief, unconventional coastal structures like the Kemit Armour Layer, mitigation measures for methane emissions in global rice cultivation, the application of virtual reality in water resources management, and the implications of climate change on water-related risk management in developing countries, with examples from three African states. This session aims to explore innovative approaches to climate-smart community planning and legislation, fostering resilience and sustainability in the face of climate challenges.



أحكي للي يكبرك مع الأهلي بيزنس

15011

أسهل وأسرع تمويل
بخبيرة في كل المجالات



تطبق الشروط والأحكام
احذر.. لا تشارك بياناتك أو أرقامك السرية مع أحد

البنك الأهلي المصري
NATIONAL BANK OF EGYPT

رقم التسجيل الضريبي ٤٦٢-٢٠٠٠٠٠٠٠٠٠



COMPETITIONS

Where the Quest for Innovative Solutions
Turns into A Celebration of Water's Future

The CWW Competitions are designed to foster awareness and inspire action on water-related challenges among a diverse group of students and researchers. Applicants are encouraged to submit innovative projects and give insightful presentations that address pressing water concerns. These submissions should not only highlight issues but also propose viable, efficient, and inventive solutions that demonstrate technical feasibility and potential for real-world application.

Best Water Conservation Practices

Date: 14th October 2024

Time: 14:00 - 15:30

Hall: LOUVRE 5

Convener: MWRI

Co Conveners: FAO, the German International Cooperation Agency GIZ

The Ministry of Water Resources and Irrigation proudly launched the seventh edition of the National Competition for Water Conservation, titled «Best Farmers' Practices,» in February 2024. This initiative aims to promote water-saving efforts by recognizing the outstanding contributions of farmers and water user associations dedicated to safeguarding this critical resource. The competition's submission phase saw enthusiastic participation, with 392 participants. Currently, a specialized panel of judges is meticulously reviewing the entries, ready to highlight and celebrate the most effective and innovative water conservation practices.

Three Minutes Thesis Competition (3MT)

Date: 15th October 2024

Time: 11:30 - 13:00

Hall: LOUVRE 7

Convener: MWRI

Sponsored by: The National Bank of Egypt

Introduced by The University of Queensland, the Three-Minute Thesis (3MT) competition was warmly embraced by Cairo Water Week in 2019. This renowned contest challenges postgraduate researchers to condense their thesis and its real-world applications into a clear, three-minute presentation, accessible to a general audience. The 2024 edition, which concluded on June 30, attracted 41 participants from 33 Egyptian and eight international universities. After thorough evaluations, 13 researchers were accepted to present during the final session of Cairo Water Week. A panel of judges is set to review and recognize the top contributions in water research.

EBTIKAR Competition

Date: 16th October 2024

Time: 14:00 - 15:30

Hall: IMPERIA

Sponsored by: EU

The EBTIKAR Competition is a key initiative of Cairo Water Week, designed to empower both emerging and established entrepreneurs, particularly the youth, in contributing to a sustainable and peaceful future. Participants aged 17 to 40 are invited to propose innovative solutions addressing Egypt's critical water management challenges, with a focus on social, economic, and environmental issues. This year, proudly sponsored by the European Union (EU), the competition attracted 26 submissions. A diverse panel of academic experts, industry leaders, and investors evaluated the entries on 29 September 2024.

Best Graduation Projects Competition (BGP)

Date: 17th October 2024

Time: 11:30 - 13:00

Hall: MONACO C

Sponsored by: European Union

For the seventh consecutive year, the Best Graduation Projects competition will be a highlight of Cairo Water Week 2024, with the European Union proudly sponsoring this edition. The competition is open to graduating students from public, private, and non-profit Egyptian universities for the 2023/2024 academic year. A total of 41 students submitted projects, with 22 advancing to the first round. Following evaluations, 10 projects were selected for the semi-finals, and the final judging session was scheduled for September 29, 2024. The competition emphasizes innovative solutions for water management.

Young Water Inventors Competition (STEM)

Date: 17th October 2024

Time: 11:30 - 13:00

Hall: ICELAND

Convener: MWRI

Sponsored by: FAO, The German International Cooperation Agency GIZ, the National Bank of Egypt

Aimed at nurturing interest in water challenges among the youth, this year's competition has invited students aged 15 to 19 from various STEM schools across the governorates to present their water-related science projects. Both individual and team submissions are encouraged. From the 123 research projects submitted, five were chosen for presentation during the conference session.



CWW2024 and Ninth Africa Water Week: A Unified Approach to Water and Climate Resilience

This year, CWW2024 will be held in tandem with the Ninth Africa Water Week (AWW9), creating a powerful platform for regional and global cooperation on water and climate challenges. By combining these two key events, participants will gain access to a broader range of expertise, perspectives, and solutions from across Africa and the international community. The joint event enhances opportunities for meaningful dialogue, knowledge exchange, and collaboration, fostering stronger partnerships aimed at tackling shared challenges. This unified approach amplifies the impact of both conferences, enabling participants to develop more comprehensive strategies for water management and climate adaptation, ultimately contributing to the resilience of communities worldwide.

Uniting for Water Security: Africa Water Week Overview

The Africa Water Week (AWW) is an AMCOW flagship initiative to facilitate dissemination, sharing, networking and brokering of knowledge and information on water management and WASH services provision in Africa.

Historically, over 1000 participants from Africa and beyond participate in the Africa Water Week. This includes Ministers and representatives responsible for water affairs in Africa; development partners; civil society organizations and lake and river basin organization to contribute to identifying practical solutions for advancing successes in the water sector. The youths, research organizations, academia; and the media are also instrument in ensuring discussions during the water week is amplified to attract the desired attention.

From the first edition in 2008, the African Ministers' Council on Water (AMCOW) now convenes this event every two years in collaboration with the African Union Commission (AUC), the African Development Bank (AfDB) and other partners.

The 9th AWW: Placing Water and Sanitation at the Heart of Achieving Agenda 2063: The Africa We Want

The 9th edition of the AWW, held jointly with Cairo Water Week 2024 from October 13 to 17, 2024, in Cairo, Egypt, will assess progress on the Africa Water Vision 2025. The event will focus on the following key themes: Financing, Investments, and Resource Mobilization; Water Supply, Sanitation, Hygiene, and Wastewater; Water Infrastructure for Economic Growth, Climate Resilience, and Disaster Risk Reduction; Water Governance and Institutions for Managing and Protecting Water Resources; Information Management and Capacity Development; and Gender Equality and Social Inclusion. These themes aim to support sustainable water management across the continent.



THE 9th AWW

Day-by-Day Highlights: Key Events and Activities to Follow

Day1: 13th October 2024

Technical Session: Advancing Citywide Inclusive Sanitation (CWIS) Regulation for Accelerating Universal Sanitation Access

Time: 15:00 - 16:30

Hall: LOUVRE 3

Convener: Eastern and Southern Africa Water and Sanitation (ESAWAS) Regulators Association

Co conveners: World Health Organization (WHO), UNICEF, Water & Sanitation for the Urban Poor (WSUP).

The SDG target for sanitation is falling short, requiring a five-fold acceleration in progress to achieve universal access to safely managed sanitation by 2030. Globally, there is growing recognition of the critical role that regulation plays in ensuring that sanitation services are safe, affordable, sustainable and inclusive. Yet, sanitation regulation remains relatively weak compared to that of water, with regulations mainly skewed towards sewered systems that only serve a fraction of the population, unclear mandates and weak accountability mechanisms.

To address this need, the World Health Organization (WHO), Water & Sanitation for the Urban Poor (WSUP) and others have developed a Roadmap for advancing sanitation regulation. The roadmap builds on practical experience from regulators across the globe and provides high level, step-by-step guidance to support countries in implementing sanitation regulation. In parallel, ESAWAS Regulators Association and United Nations Children's Fund (UNICEF) have produced complementary documentation of CWIS regulatory journeys in 6 countries in East and Southern Africa that provides evidence of how effective regulation enhances safe and inclusive sanitation service provision.

This interactive session will share key components of the roadmap for strengthening sanitation regulation, supported by practical experience from countries with nascent and advanced progress in implementing CWIS regulation.

Technical Session: ACEWATER III Project contribution to research and capacity development for a post-Africa Water Vision 2025

Time: 15:00 - 16:30

Hall: LOUVRE 4

Convener: Stellenbosch University as host of AUDA NEPAD Water Centres of Excellence

Co conveners: AMCOW, European Commission

With a focus on transboundary water resources management (TBWM) and collaboration in Africa, the 20 ACEWATER III project partners will perform high-quality research, HCD (human capacity development) and science-policy engagements from 2024-2027.

With TBWM as the main theme, the project is positioned to address this important subtheme of the 9th Africa Water Week, on water governance and the various stakeholders involved, but also the subtheme topic on cooperation on shared watercourses.

With this alignment, ACEWATER III will address some of the critical challenges and considerations for a post-Africa Water Vision 2025, namely governance, collaboration, cooperation, stakeholder engagement, high-quality research and capacity development. This project is funded by the European Commission, and constitutes the academic arm of the Team Europe Initiative on Transboundary Water Management in Africa (TEI-TWM), and is therefore well positioned in the broader Africa-Europe collaboration framework, for maximum impact.

The session will comprise 2-3 presentations on the above, followed by a panel discussion. It is envisaged that the panel will consist of colleagues from relevant RECS such as Southern African Development Community (SADC), Economic Community of West African States (ECOWAS), and East African Community (EAC), but also AMCOW and the European Commission.

Technical Session: Launch of African Union, Green Climate Fund and AIP Partners Support to at least 20 Countries: Mobilizing Commitments for Implementing AU-Africa Water Investment Programme (AIP) High-Level Panel Investment Action Plan

Time: 15:00 - 16:30

Hall: PICASSO 1

Convener: Africa Union Commission African Water Investment Programme (AIP)

Co conveners: AIP High Level Panel Secretariat, Global Water Partnership Africa

The event will launch the support to will at least 20 countries that will receive support from GCF, Austria Development Agency and AIP Partners for developing AIP national climate resilient water investment programmes. This will take place during the 9th Africa Water Week.

The event will be convened by the African Union Commission (AUC) in collaboration with the AIP International High-Level Panel on Water Investments for Africa and AIP Partners; AUDA-NEPAD, UNDP, UNICEF, DBSA, UNCDF and others.

The event will launch the support to the 20 countries and highlight progress in mobilising investments by the African Union's High-Level Panel and achievements of the AIP that aims to close the water investments gap by mobilising at least an additional US\$30 billion and creating five million jobs towards the SDG 2030 water related targets.

Day 2: 14th October 2024

Technical Session: Strengthening Sanitation Data Systems in Zambia

Time: 8:00 - 9:30

Hall: LOUVRE 3

Convener: UNICEF

Co convener: AMCOW

This session will explore the specific interventions implemented through the BMGF project in Zambia to enhance sanitation data collection, analysis, and utilization by government working with subnational WASH teams including commercial utilities. Participants will share their experiences and best practices in developing innovative approaches, tools, and capacity development initiatives. By strengthening data systems, Zambia is gaining a clearer understanding of the current state of sanitation services, identifying gaps and challenges, and allocating resources more effectively. This will ultimately contribute to better service delivery to the most vulnerable communities including women and children and to the realization of Agenda 2063's vision of a prosperous, inclusive, and resilient Africa.

Technical Session: Implementation of Early Warning Systems in Africa

Time: 8:00 - 9:30

Hall: LOUVRE 4

Convener: UNESCO

Co convener: ICHARM, ICeWaRM, IHE Delft, AGRHYMET

Early warning systems are a necessity to face the effects of climate change who often result in more frequent and intense extreme weather events, impacting adversely the lives of people and socio-economic developments causing related losses and damages.

According to the AfDB, as of the beginning of 2023, the African continent has reported a record numbers of fatalities due to events caused by climate change such as rising temperatures, persistent and prolonged droughts, catastrophic floods, destructive cyclones and landslides. Mounting evidence shows that Africa is the most vulnerable continent to the adverse impacts of climate change.

Technical Session: Meeting SDG6 through Innovative Financing Partnerships- Contribution of CSOs and Communities in Tanzania, Uganda and Rwanda

Time: 8:00 - 9:30

Hall: PICASSO 1

Convener: Water For People

Co convener: Tanzania Water and Environmental

Sanitation Network (TAWASANET))

The session will be convened by Water For People and its collaborating partners that include Governments of Tanzania, Rwanda, and Uganda and a CSO coalition - Tanzania Water and Environmental Sanitation Network (TAWASANET). The session will demonstrate progress and contributions made in mobilizing resources to strengthen implementation of various WASH interventions at national and community level in the 3 countries. It is expected that the session will be ideal for diverse range of participants such as civil society, networks, coalitions, Governments, Development Partners, and Donors.

Technical Session: WASH in Climate Action – A Cornerstone For A Climate Resilient Africa

Time: 9:30 - 11:00

Hall: LOUVRE 3

Convener: WaterAid

Universal provision of water, sanitation and hygiene services should be a firm part of climate action. Without a reliable supply of clean water, safely managed sanitation facilities and good hygiene practices, the very existence of humanity is threatened. One of the goals of the Africa Agenda 2063 is to have climate resilient communities. Reliable and resilient WASH systems and services are the first line of defense against climate impacts. Because of this importance of having access to WASH services, climate policies and plans should have water, sanitation and hygiene firmly represented as part of national adaptation strategies that deliver long-term and crosscutting benefits.

National Adaptation Plans (NAPs) are a central instrument for adaptation planning that should provide a comprehensive assessment of a country's vulnerabilities and develop the required actions needed to build a country's resilience. Similarly, the adaptation component of Nationally Determined Contributions (NDCs) should clearly articulate the country's adaptation needs alongside its mitigation commitments. Underpinning these climate actions should be a clear consideration of gender sensitivities and all-inclusive participation in the development of policies and plans.

Technical Session: Implementation of the Youth, Gender and Social Inclusion strategy: Effective and Transparent Public-Private Partnerships to Ensure Mainstreaming of Youth into the Water and Sanitation Sector

Time: 9:30 - 11:00

Hall: LOUVRE 4

Convener: Department of Water and Sanitation, South Africa

Co convener: AMCOW

The Department of Water and Sanitation, South Africa, Youth, Gender, and Social Inclusion strategy is a strategy aimed at addressing power imbalances and social inequalities based on various social identities, thereby enhancing the opportunities and dignity of disadvantaged individuals aligned with the Agenda 2063 aspiration 6. Taking an action oriented, and youth and women-led approach; it is improving the terms on which individuals and groups take part in society - improving the ability, opportunity, and dignity of those who have been disadvantaged based on their identity.

Technical Session: The Role of Transboundary Aquifers in Socioeconomic Development

Time: 9:30 - 11:00

Hall: PICASSO 1

Convener: UNESCO

Co conveners: ORASECOM, IGAD, OMVS

Groundwater is the main source of water on the continent, supporting 80% of the resource needed for agricultural and potable purposes. Aquifers provide a sustainable solution to enhance the resilience of local communities from the effects of climate change. The last result of SDG indicator 6.5.2 report shows that in Africa fewer than 10% of transboundary aquifers are the object of agreements. In addition, most agreements assume that future water supply and quality will not change and fail to consider increasing climate-induced water variability, lacking the capacity to adapt to temporal and spatial changes in water quantity. Further to that the knowledge scale of the resource is not adequate to support activities at community level and the awareness on the sustainable management of the resource is at best limited.

The session aims to describe current efforts in Southern Africa (SADC Region), Western and Eastern Africa, presenting examples of current cooperation, showcasing lessons learned and identifying gaps that require further investments.

Technical Session: Citywide Inclusive Sanitation: The Role of the Urban Planning Department

Time: 14:00 - 15:30

Hall: LOUVRE 3

Convener: UN-Habitat

Co conveners: UNICEF, International Water Association (IWA), Eastern and Southern Africa Water and Sanitation Regulators Association (ESAWAS).

Rapid urbanization in developing countries requires better integration of planning for basic services including sanitation services, if cities are to remain healthy and safe. However, sanitation is often not framed in the urban development policies leading to the failure to realize harmonized and equal expansion of basic services including sanitation with urban diverse settlements growth.

There is a strong linkage between urban planning and the provision of basic infrastructure and services including sanitation. This call for policies and regulations that enhance the performance of the urban institutions to provide essential urban services satisfactorily. Urban Planning and Development Department by nature of their planning roles is central to anchoring all the planning processes of all development sectors thus integrating sanitation in their planning cycles, will help in targeting low-income informal settlements and rapid expansion of inclusive sanitation services at the city level.

The session will highlight the importance of mainstreaming sanitation into urban development governance towards making sanitation as a public service that is inclusive and focusing progressive elimination of inequalities in access and promotion of joint strategies and plans to build and building city level intersectoral partnerships and coordination.

Technical Session: The Regional AUSII launch

Time: 14:00 - 15:30

Hall: LOUVRE 4

Convener: African Water Facility

In response to the urban sanitation crisis in Africa, particularly in contrast to the contemporary sanitation solution, in 2018, the Bank conceived of creating a dedicated urban sanitation investment window in partnership with the Bill and Melinda Gates Foundation. Preparation included implementing seven pilot projects in seven countries. In 2024, the Bank approved the African Urban Sanitation Investment Initiative (AUSII) as a sanitation-focused window of the African Water Facility. This window comes in as an accelerator and innovator with grants to develop bankable projects for downstream investments and tailored financing with concessional and blended finance and guarantees.



Over the next ten years, AUSII aims to connect at least 15 million people to safely managed sanitation services via USD 7 billion downstream investments generated from an initial USD 320 million capitalization. The session is focused to present the AUSII window, its concept, implementation plan, and targeted results and impact. A panel will be organized to discuss the effective implementation of the AUSII interventions and possible measures to tackle implementation challenges and risks. The floor will be open further to the sanitation stakeholders for discussions and providing feedback.

Technical Session: Advancing Water System Transformation for the Africa We Want

Time: 14:00 - 15:30

Hall: PICASSO 1

Convener: International Water Management Institute (IWMI)

Co convener: AMCOW

The world faces critical water-related challenges, including Hunger (1.2 billion people live in areas with severe water scarcity in agriculture); Climate Change (by 2050, global water demand is projected to increase by 50% compared to 2000 levels); Poverty and Exclusion (in the next decade, climate change will drive 32-132 million more people into extreme poverty, affecting mostly women); Deep uncertainty; and Ecosystem Breakdown (about 89% seasonal inland wetlands are unprotected). Africa's water sector needs to intensify measures to ensure water security. With a mission to advance the transformation of water systems for climate-resilient development, the International Water Management Institute (IWMI) is at the forefront, drawing on its 40-year track record of water research. IWMI has set an ambitious agenda for research and innovation on water security reflecting the complexity and severity of current and future challenges in water management. Through collective action with a global partnership network and an agile, interdisciplinary, and systems-oriented approach, IWMI aims to mitigate water risks and manage water sustainably while addressing inequalities. The organization leverages data science and the power of artificial intelligence (AI) to enhance water governance at local, national, and transboundary levels, strengthening the scaling of water security innovations through data-driven investment support tools.

Technical Session: Driving Sustainable WASH Investments in Africa

Time: 16:00 - 17:30

Hall: LOUVRE 3

Convener: FINISH Mondial

This session, hosted by FINISH Mondial, will explore innovative financing models to address the pressing need for increased investment in water, sanitation, and hygiene (WASH) services in Africa. With public funds insufficient to meet growing demand, this session will emphasize the role of the private sector and microfinance institutions (MFIs) in closing the WASH financing gap. Drawing on real-world success stories from Africa and Asia, participants will learn how blended finance models and microfinance have empowered households, entrepreneurs, and communities to invest in sustainable sanitation infrastructure. The session will also highlight challenges in attracting private investment, including perceived risks, lack of bankable projects, and coordination barriers. Through a multi-stakeholder approach, participants will explore solutions to overcome these challenges and scale up private sector involvement in the WASH sector to contribute to achieving Africa's Agenda 2063 and SDG6.

Technical Session: Towards Gender Transformative WASH for the achievement of Agenda 2063 and SGD 6

Time: 16:00 - 17:30

Hall: LOUVRE 4

Convener: WaterAid

Co conveners: AMCOW, Global Water Partnerships (GWP)

Eastern & Southern Africa Water and Sanitation Regulators Association ESAWAS, Speak Up Africa, ANEW

The session will use the findings of a recent Water Aid research on Gender Transformative WASH to inform its discussion and seek long-term solutions to resolve the challenges faced by women and girls due to lack of Gender Transformative WASH in most Africa countries.

Technical Session: Harnessing the Potential of Small-Scale Irrigation: Need Assessments, Business Models, and the Enabling Environment

Time: 16:00 - 17:30

Hall: PICASSO 1

Convener: IWMI

This side event will share lessons learnt in the on-going assessment and compendium of business models for private sector engagement (including Public-Private Partnerships (PPPs) in small-scale irrigation services in Eastern and Southern African countries. The event will show how various forms of innovations in small-scale irrigation are bundled to enhance agricultural productivity, resilience, economic growth, and efficient water use. Through using data-driven evidence and case studies, the event aims to inform investment decisions and facilitate the scaling of these solutions across Eastern and Southern Africa countries. The findings show the private sector's engagement, and the interventions appropriateness depends on the type of irrigation in use, innovation, and service availability, and enabling environment. This side event will ensure that the participants are well informed and gained a deeper understanding of the enabling environment, institutional frameworks, and private sector governance structures which are critical for the realization of successful growing private sector engagement and investment decision in the region.



Day 3: 15th October 2024

Technical Session: Enhancing Policy Environment and Governance for Reaching Safely Managed Sanitation in Kenya

Time: 8:00 - 9:30

Hall: LOUVRE 3

Convener: UNICEF

Co conveners: Kenya Ministry of Water Sanitation and Irrigation, the African Population and Health Research Center

This session was designed to allow in-depth discussions and reflect on enabling environments for accelerating safely managed sanitation (SMS) through strengthening national policies as well as governance among government and non-government partners in the region, based on Kenya's experiences in developing the National Sanitation Management Policy (NSMP) and other strategies providing an enabling policy framework.

The development of the NSMP is a significant policy milestone. The NSMP was developed based on the African Sanitation Policy Guidelines (ASPG). It addresses this historical relegation of the sanitation function by giving it the prominence it deserves in Kenya's development agenda. It also provides the institutional basis for fulfilling Kenya's commitments towards achieving SDG Target 6.2.

The session introduces the lessons drawn on what future policy processes could borrow from Kenya's experience and ASPG-guided processes, reflecting on how various stakeholders engaged in developing the NSMP. Moreover, national-level efforts for strengthening the enabling environment, aligned with and designed to support the implementation of the NSMP, will be introduced, such as a strategy for scaling up safely managed on-site sanitation options and monitoring framework and a national SMS workshop that UNICEF supports.

Technical Session: African Transboundary Management Benchmarking Workshop: Promoting Sustainable Transboundary Cooperation To Strengthen African Development

Time: 8:00 - 9:30

Hall: LOUVRE 4

Convener: Department of Water and Sanitation, South Africa

The sustainable and innovative management of the Transboundary River basins in the continent is essential to realise national and continental aspirations as well as strengthen international cooperation and peace. This workshop seeks to highlight the important

and strategic role-played by African watercourse commissions and partners in ensuring equitable sharing of water, sustainable management of the river systems and their ecosystems, while promoting sustainable socio-economic development. The workshop will also seek to benchmark practices amongst the watercourse commissions on their management of climate change, water quality, research development and innovation, infrastructure, social, economic, political, and partnership and cooperation challenges.

Technical Session: One CWIS, One Voice: Joint Statement from Development Finance Institutions

Time: 8:00 - 9:30

Hall: PICASSO 1

Convener: African Development Bank (AfDB)

Co conveners: World Bank (WB), Agence Française de Développement (AFD), Bill & Melinda Gates Foundation (BMGF), Asian Development Bank (ADB), Islamic Development Bank (IDB).

In recent years, Citywide Inclusive Sanitation (CWIS) has gained significant acceptance in the urban sanitation sector to achieve SDG 6.2 for urban sanitation. As a result, several Development Finance Institutions (DFIs) have been mobilizing investments in CWIS-aligned projects and programs to improve urban sanitation services in different countries, particularly in Asia and Africa regions. In February 2022, a CWIS working group (WG) among DFIs – the Asian Development Bank (ADB), Islamic Development Bank (IsDB), African Development Bank (AFDB), World Bank (WB), Agence Française de Développement (AFD), and the Bill & Melinda Gates Foundation (Foundation)- was created to discuss progress and recent activities on CWIS implementation challenges and solutions. In February 2024, the DFIs WG reached a significant milestone by establishing a Joint Statement to "Mainstreaming citywide inclusive sanitation to accelerate progress towards SDG 6". This joint declaration acknowledges the fundamental contribution of DFIs in making City-Wide Inclusive Sanitation (CWIS) a global movement, highlights the lessons learned in integrating CWIS approaches into investment projects in Asia and Africa, and emphasizes the DFIs' commitment to institutionalizing CWIS through coordinated action. It also underscores the importance of strengthening a global coalition of development partners while addressing cross-functional and cross-sectoral challenges.

Technical Session: Leveraging Institutional Synergies to Drive Sustainable Growth in Kenya's Water Services Delivery

Time: 09:30 - 11:00

Hall: LOUVRE 3

Convener: GATSBY AFRICA

Co conveners: Water Services Regulatory Board (WASREB), Water Sector Trust Fund (WSTF), Kenya Water Institute (KEWI)

Kenya's Water sector has seen significant changes from the initial reforms of the 2002 to date. The sector has witnessed increased access to clean and safe drinking water from 39% in 2005 to 65% in 2023, increased revenue collection from merely USD 38.5 million to USD 201.5 million over a span of 18 years. These changes have led to better operational efficiencies and improved creditworthiness of utilities. The changes are because of industry institutions providing different functions i.e. regulatory, financing, capacity building and appropriate leadership to water utilities.

Further we will provide perspective on how the industry regulator has driven data-based performance assessments of the water utilities that have been very instrumental in monitoring country's progress towards achieving universal access to clean and safe drinking water. Additionally, we would explore how WSTF has grown the funding and financing landscape for water utilities by creating an ecosystem of creditworthy water utilities through use of various financing and funding instruments. We would demonstrate how KEWI provides capacity building services to promote better performance of water utilities in NRW management. Lastly, GA will share its experience of infusing entrepreneurial mindset in the leadership of utilities to drive growth and sustainability in services provision.

Technical Session: Empowering Climate Action: The Water Resilience Tracker's Role in National Adaptation Planning

Time: 09:30 - 11:00

Hall: LOUVRE 4

Convener: Alliance for Global Water Adaptation (AGWA)

Co conveners: IWMI, Deltares, ARUP

The Water Resilience Tracker (WRT) is a pivotal tool and a component of the Just Transitions for Water Security (JTWS) program, a new initiative designed to integrate water resilience into national climate adaptation strategies. This session will delve into how the WRT enables comprehensive assessments of water systems, aiding countries in enhancing resilience against the multifaceted challenges posed by climate change and water scarcity.

Focusing on robustness and flexibility, the Water Resilience Tracker enables stakeholders to evaluate and adapt to a range of anticipated and unforeseen water-related impacts within their climate action plans. We will explore its role in strengthening the water components of Nationally Determined Contributions (NDCs) and National Adaptation Plans (NAPs), which are crucial for achieving the goals of the Paris Agreement.

Attendees will hear from climate policy experts and national planners who have successfully implemented the Tracker, gaining insights into its practical benefits and strategic importance. The session aims to underscore the necessity of water-centric approaches in climate strategies, highlighting the Tracker as an essential instrument in aligning national efforts with global climate resilience objectives.

Technical Session: Achieving Sustainable Wastewater Management and Sanitation Provision in Africa

Time: 09:30 - 11:00

Hall: PICASSO 1

Convener: United Nations Environment Programme (UNEP)

Co conveners: African Development Bank (AfDB), The Hygiene and Sanitation Fund (UN HSF), AMCOW

The session will focus on Africa and will discuss the role and importance of sustainable wastewater management and sanitation provision.

The session will gather key players such as international organizations, research institutes and governmental institutions to showcase tools, share experiences from recent projects, exchange information and discuss how to scale up solutions to tackle wastewater pollution and lack of sanitation in Africa.

It will be a great opportunity to learn about financing mechanisms for wastewater and sanitation, and it will also provide information on emerging topics such as wastewater surveillance for the environment and public health using the One Health approach. The event will also shed light on the importance of wastewater as a resource to address challenges such as job creation, food and energy security, and climate change mitigation.

Finally, the session will be an opportunity for the audience to learn about the key role that sustainable wastewater management and sanitation provision play in achieving the 2030 Agenda and its SDGs, and other relevant international objectives such as the Kunming-Montreal Global Biodiversity Framework (GBF), the Global Framework on Chemicals targets, and the Paris Agreement's adaptation and mitigation goals.

Technical Session: Empowering Communities in Sustainable WASH Services: Integrating Gender Equality and Social Inclusion

Time: 14:00 - 15:30

Hall: LOUVRE 4

Convener: Research and Development Without Borders

The recognition of the role of WASH for all aspects of human development is fast growing, nevertheless indigenous groups/people, ethnic minorities, women, persons with disabilities and youths often result in WASH services that are inappropriate, inaccessible and unaffordable. Through our experiences during workshops, trainings and sensitization campaigns, there's a great number of youth and women's interest, involvement and engagement in knowing more about WASH practices. This session will therefore explore the critical role of gender equality and social inclusion in achieving sustainable WASH services and universal access. It will highlight innovative approaches and successful case studies from the field, focusing on the integration of women, youth, and marginalized groups into water and sanitation initiatives. Participants will engage in discussions on strategies for mainstreaming these principles into WASH policies and programs, ensuring that no one is left behind in the pursuit of water security and public health.

Technical Session: Importance of the Collaborative Approach in Accelerating Coverage Rates in Africa: Sanitation for All by 2030

Time: 14:00 - 15:30

Hall: PICASSO 1

Convener: Speak Up Africa

This session is organized by the CAPOOP alliance. The Communications, Advocacy, Policy Opportunities and Outreach for Poop (CAPOOP) is an alliance of organizations committed to achieve access to adequate and equitable sanitation and hygiene for all, and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations by 2030. This session will be an opportunity to bring together partners to take stock of progress and discuss each member's flagship activities and how through CAPOOP we can work towards better stakeholder coordination and collaboration.

Technical Session: The Role of a Conducive Enabling Environment in Enhancing Non-Sewered Sanitation: Lessons from Kenya

Time: 16:00 - 17:30

Hall: LOUVRE 3

Convener: USAID's WASHFIN 2

Co conveners: Kenya Ministry of Water Sanitation and Irrigation, World Bank WRG 2030, Sanitation and Hygiene Fund

The session is led by the Department of Sanitation of the Ministry of Water, Sanitation and Irrigation and is based on an Enabling Environment Assessment for NSS undertaken by USAID's WASH-FIN 2, work on private sector engagement in NSS being supported by the World Bank's WRG 2030, and enabling environment work being supported by the Sanitation and Hygiene Fund. Given the increased focus on NSS globally, the findings from Kenya are applicable to many countries of the global South.

Technical Session: Youth Role in Access to WASH Services at School Level Including Gender Equality and Social Inclusion

Time: 16:00 - 17:30

Hall: LOUVRE 4

Convener: Association des Jeunes Professionnels de l'Eau et de l'Assainissement du Sénégal (AJPEAS)

This session on title mentioned above, will be organized by the Senegalese Association of Young Water and Sanitation Professionals which has strong partnerships with main public/private water and sanitation actors. It will be focused on the Association main related program on WASH education, awareness raising and facilities building. Along the session presentation, achievements, raw experiences and lessons learnt from the program will be shared. Furthermore, mentorship chain from primary school to young professional level in order to ensure continuity and strength in Senegalese WASH sector from early age will be highlighted. Besides youth empowerment, other strong links of the program to childcare, environmental protection, circular economy, may be presented.

Technical Session: Africa Water Vision and Human Resources Capacity:Paving the Way

Time: 16:00 - 17:30

Hall: PICASSO 1

Convener: UNESCO

Co convener: IHE Delft, AUDA NEPAD, Southern African Network of Water Centres of Excellence, ICeWaRM, ICWRGC

Africa Water Vision 2025 identified as a compound challenge of the water sector in Africa the inadequate research for water-resources development adding that a key challenge is “Securing and retaining skilled and motivated water professionals”. Twenty years later, water security is still being hampered by the limited human resources in the water sector. Recently a number of efforts have been initiated at Global and Regional levels to amend the situation. The UN-Water SDG 6 Capacity Development Initiative and the Global Water Education focus on a comprehensive assessment of the human resources requirements and trainings to respond to them in a sustainable way. Similarly, efforts have been made at continental level via the work of the AUDA-NEPAD Network of Water Centres of Excellence. The required capacity development is not limited to water resources management but it further focuses on issues of quantity and quality of data as well as research capacities.

The session aims to raise the awareness of the participants on the human resources related gaps identified and current initiatives developed to respond to them. Furthermore, to discuss and draw a common way forward on ways to domesticate them further at continental, regional and national levels.

Technical Session: Institutionnalisation du Premier Exercice des Comptes WASH au Niger : Un Pas Vers la Transparence et l'Efficacité

Time: 17:30 - 18:30

Hall: LOUVRE 3

Convener: Ministère de l'hydraulique, de l'assainissement et de l'environnement du Niger

Co convener: ONG, WaterAid

L'accès aux services EAH constitue un défi majeur au Niger. Seulement 43,7 % de la population a accès aux services basiques d'eau potable, dont 44,5 % en milieu rural, contre 38,4 % en milieu urbain. Les taux pour le service optimal sont de 10,6 % avec de très fortes disparités entre le milieu urbain (52,7 %) et le milieu rural (3,9 %). Les besoins de financement du programme sectoriel eau, hygiène et assainissement (PROSEHA) 2016–2030 sont estimés à 3 289 milliards de FCFA (5.3 milliards \$US). Pour la phase 1 de ce programme (2016–2020), seulement 31 % du budget ont été mobilisés, soit 336 milliards sur 1 098 milliards

de FCFA. À l'instar des autres pays voisins, le Niger s'est engagé dans le processus d'élaboration des comptes WASH afin d'avoir une description systématique des flux financiers dans le secteur WASH. Ce processus a été participatif incluant les acteurs étatiques, bailleurs de fonds société civile, ONG et association œuvrant dans le secteur WASH.

Technical Session: AWF 20th Anniversary Event

Time: 17:30 - 18:30

Hall: LOUVRE 4

Convener: African Water Facility

This session aims to bring together the partners of the African Water Facility on the occasion of AWF's 20th anniversary. The session will provide an opportunity to review AWF's successes, discuss strategic projects for the coming years and engage in dialogue with the AWF partner community. A short presentation session will then be followed by a cocktail reception.

Day 4: 16th October 2024

Technical Session: Investment Opportunity in Water and Sanitation Sector

Time: 8:00 - 9:30

Hall: LOUVRE 3

Convener: Africa Water Facility

The African Water Facility (AWF) is Africa's only project preparation facility focused on water and sanitation. It was established in 2004 as the African Ministers Council on Water (AMCOW) initiative and operationalized in 2006 under the African Development Bank.

The Goal of the AWF is to mobilize and deploy financial and human resources to improve water security and access to sustainable sanitation services in Africa, thus contributing to the achievement of the goals and targets set by the African Water Vision 2025 and the Sustainable Development Goals (SDGs)

Since its inception in 2006, the AWF has supported 138 water and sanitation projects across 52 African countries. The funding it has provided has facilitated access to safe water supply for 13.5 million people and sanitation services for 8.4 million people and secured USD 1.96 billion in downstream investments through bankable projects.

The session will showcase project briefs to the interest of the investors/ donors, inform the forthcoming digital facilitation process in investment promotion for the water and sanitation sector, and present the upcoming opportunities for the private/ SME sector in inclusive urban sanitation through the newly created Africa Urban Sanitation Investment Initiative (AUSII) window.

Technical Session: Youth and Women at the Center of Transformative Water and Sanitation Discussions

Time: 8:00 - 9:30

Hall: LOUVRE 4

Convener: Kenya Water for Health Organization

Co convener: Kenya Water and Sanitation Civil Society Network

The session will aim to highlight how Kenya's youth water parliaments are transforming the water and sanitation discourse through youthful but innovative approaches, creating lasting space to initiate and sustain change for improved service delivery but also mainstreaming involvement of left behind groups in wider decision making processes

Technical Session: Professionalising Rural Water Service Delivery in Malawi, Tanzania and Kenya through WASH Systems Strengthening and Partnerships – A Key to Sustainable Services

Time: 8:00 - 9:30

Hall: PICASSO 1

Convener: SNV Netherlands Dev. Organization

Co convener: Water For People

The world has made considerable progress in expanding rural water supply services. In Malawi, access to improved water sources increased from 60% to 87.5% in rural areas (2000-2020). In Tanzania, a new national agency was set up in 2019 (RUWASA) to scale up and professionalise services delivered by community-based organisations. In Kenya, the regulator WASREB has come up with water service delivery models for rural areas. However, many community-managed water supply facilities still do not provide an adequate service, often under-performing over time. Within this context, a study commissioned by Malawi's Ministry of Water and Sanitation recommended two professionalised management models: (i) Refining and strengthening Water Point Committee direct service provision with maintenance function delegation for hand pumps. (ii) Facilitating water boards to manage a greater proportion of rural piped water supply services. These two models are now being piloted. Similarly in Tanzania, new service delivery model guidelines are supporting strengthening and professionalising Community-Based Water Supply Organisations. In Kenya, SNV with financing from the European Delegation, implemented a 4-year project (2020-2024) to improve functionality of rural water systems through Public-Private-Community Partnerships in eight ASAL counties.


Technical Session: Irrigation Policy Post Malabo: Insights for Investments

Time: 9:30 - 11:00

Hall: LOUVRE 3

Convener: International Food Policy Research Institute

More and better irrigation development is a key factor in ensuring the resilience of food systems in Africa, particularly with rapidly increasing impacts from climate change. The post-Malabo agenda calls for efficient water management and innovative approaches to irrigation to sustainably increasing agricultural productivity across the region. While some countries have made significant strides in expanding irrigated areas and increasing water productivity, others face severe constraints due to water scarcity, economic challenges, and political instability. In this context, a dialogue about lessons learned from past and current irrigation policies, new irrigation technologies, and the management of water resources in the post-Malabo



context will be vital to inform sustainable irrigation development in the future. This session will bring together the African Union Commission, and experts and representatives from African governments, CGIAR, academia, think tanks, USAID, and the private sector to discuss irrigation strategies that support water, food, energy and climate resilience in the region.

Technical Session: Launch of AMCOW Updated Knowledge Hub / Presentation of Africa Voice on Water Magazine

Time: 9:30 - 11:00

Hall: LOUVRE 4

Convener: AMCOW

Co convener: South Africa Department of Water and Sanitation

The session aims to launch the newly upgraded AMCOW Knowledge Hub as part of efforts to operationalise the initiative. During the session, AMCOW will also update participants on the result of the Audit conducted across the member states to guard their KM status and determine the kind of support they require.

Technical Session: Intersectoral Coordination for Improved Sanitation Services in Nakuru City: Lessons from WASH Governance in Kenya and other African Countries

Time: 9:30 - 11:00

Hall: PICASSO 1

Convener: UN-Habitat

Fast-growing urban populations coupled with expanding urban informal settlements continues to exert pressure on already overstretched social infrastructure and services such as WASH, housing, and healthcare that have not kept pace with the fast-ballooning population. To tackle these challenges, innovatively formulated coordination mechanisms are key to improving planning, prioritization and resources allocation for improved urban sanitation services. The session will examine the opportunities for intersectoral coordination between urban sanitation sub-sector players both at national and city levels, share examples of how these mechanisms are established and challenges faced. A case study of Nakuru City focusing on Nakuru Countywide Sanitation Technical Steering Committee (NACOSTEC) as one such efforts to strengthen coordination and the National level Urban Sanitation Technical Working Group (USTWG) in Kenya as the other among other two will be presented to the audience. The presentations will be followed by a panel discussion involving sanitation and urban planning experts drawn from across Africa to share experiences of different countries and cities in Africa. The panel discussion will be followed by questions and the session then will close with key recommendations for strengthening sector coordination for better urban sanitation services.

Day 5: 17th October 2024

Technical Session: Africa Hydrology Dialogue

Time: 8:00 - 11:00

Hall: VIENNA

Convener: World Meteorological Organization (WMO)

Co convener: International Centre for Water Resources and Global Change (ICWRGC)

The World Meteorological Organization (WMO) Vision and Strategy for Hydrology (Resolution 4 (Cg-Ext (2021)) underscores commitment to contributing to the management of water resources and associated disasters, science-based hydrological predictions, and data standardization. The strategy is in line with The African Union Commission (AUC) continental multi-hazard early warning system, strategic pillars of the African Ministers' Council on Water (AMCOW Strategy 2018 – 2030), and the strategies for other regional and international organizations

WMO in collaboration with AMCOW and the Government of Egypt, and in partnership with a wide range of institutions is organizing the Africa Hydrology Dialogue (AHD) 2024 under the theme: Bridging the gap in the Africa Water Sector and Disaster Risk Management - Towards the implementation of SDG6 and EW4ALL through integration of Hydrology and Climate Resilient Approaches. The dialogue will bring diverse range of stakeholders working across the science-policy-practice-usage spectrum. It promotes the implementation of EW4All systems, improve visibility of hydrological services and their socio-economic benefits, and enhance regional and sub-regional co-operation. It will create a better understanding of the factors driving change, challenges, the associated impacts, and opportunities for mutual dialogue between different stakeholders to align needs of NMHS and policy makers with that of scientific research

Closing Ceremony

Time: 14:00 - 16:00

Interpretation: Arabic- English- French



TECHNICAL VISITS

Explore Egypt's Water Management Innovations

CWW 2024 will feature a series of technical visits, offering participants the opportunity to explore and learn about Egypt's key water projects and initiatives. These visits provide valuable insights into the country's water management strategies, technological advancements, and sustainable practices. Attendees will gain a unique perspective on how Egypt addresses critical water challenges.

Please note:

To participate, registration for your chosen visit is required at the information desk during the conference.

Date: 15th October 2024

Time: Full Day

Witnessing Innovative Irrigation and Agriculture Practices in Kafr El Sheikh

Join us for an exciting field visit to two sites in Kafr El Sheikh Governorate, where innovative irrigation and agriculture practices are being implemented!

This visit is to the locations of the “Enhancement of Agricultural Productivity Project,” funded by the Japanese Government and overseen by the Food and Agriculture Organization of the United Nations (FAO). The project aims to reduce rural poverty and build resilience for vulnerable farming families in Upper Egypt and the Nile Delta.

Here’s what you can expect to see:

- Site 1: Witness the establishment and awarding of a greenhouse on a farm plot, which represents the initiative of supporting vulnerable smallholding farmers by providing them with the resources, training, and technical assistance needed to operate and maintain a greenhouse.
- Site 2: Observe the implementation of micro-topography-induced soil salinity control measures. This innovative practice addresses the issue of soil salinity in hotspot areas like Kafr El Sheikh, which is often caused by the uneven application of irrigation water.
- This field visit offers a unique opportunity to:
- Learn about the challenges and opportunities facing Egyptian agriculture, from the perspective of both experts and farmers.
- Witness firsthand the positive impact of the work on progress in the field of the Enhancement of Agricultural Productivity
- Interact with local farmers.

Date: 16th October 2024

The National Water Research Center (NWRC) and the Historic Nilometer.

Join us for an insightful field trip to the National Water Research Centre (NWRC) and the historic Nilometer. The trip includes a visit to the ancient Nilometer on Rhoda Island, a historical instrument used since 861 AD to measure the Nile’s water levels. Learn about its crucial role in predicting agricultural conditions and its impact on ancient Egyptian society.

At the NWRC, you’ll explore a centre of excellence in water resources research, known for its interdisciplinary approach and innovative solutions in water policymaking. Discover how NWRC’s twelve research institutes contribute to advancements in both traditional and emerging water disciplines.

Date: 16th October 2024

Time: Full Day

Adaptation Projects in the Nile Delta

Join us for a full day visit to Damietta Governorate, to explore two key adaptation projects addressing the impacts of sea level rise.

The visit will feature:

- Site 1: The Damietta Power Plant's shore protection structures, designed to safeguard the plant and New Damietta City using locally sourced materials.
- Site 2: A pilot landscape project in New Damietta City, incorporating native coastal plants to enhance the area and promote nature-based solutions.

Date: 15th October 2024

New Delta Water Treatment Plant

Join us for a fascinating field trip to the New Delta Water Treatment Plant (Al Hammam). This landmark facility, the largest of its kind globally, boasts a daily treatment capacity of 7.5 million cubic meters of agricultural wastewater.

Explore the innovative technology behind this groundbreaking project, including the world's longest artificial river and advanced SCADA systems for managing and monitoring operations, operating, and maintaining this new technology.



البنك الزراعي المصري
Agricultural Bank of Egypt



راعى ارض مصر



معاً.. لمستقبل مستدام

سعيًا لتحقيق أهداف التنمية المستدامة، نسعى للتوسع في تمويل مشروعات تطوير نظم الري وتحفيز المزارعين للمحافظة على مواردنا المائية وترشيد استخدامها لضمان مستقبل أفضل للأجيال القادمة



TOURISTIC TOURS

Discover Egypt's Timeless Treasures

In collaboration with Misr Travel, CWW 2024 is pleased to offer exclusive special rates on tours and excursions across Cairo and Egypt's renowned landmarks. Whether you're interested in exploring Egypt's rich history, visiting the Great Pyramids, or enjoying the Nile, tailored experiences are available for all participants. Visit our dedicated Travel Desk, conveniently located at the event entrance, for on-the-spot bookings and personalized recommendations. Make the most of your time at CWW 2024 and discover Egypt like never before. For more information, please visit:

www.misrtravel.net/Cairo%20Water%20Week%202024.pdf



GALA DINNER

by Invitation Only

A Memorable Evening at the Salah El-Din Citadel

You are cordially invited to the CWW 2024 Gala Dinner at the historic Salah El-Din Citadel in Cairo on 14th October 2024 at 7:00 PM. This iconic venue offers breathtaking views of the city and provides a remarkable setting for the evening's festivities. We kindly request formal attire for this special occasion. The meeting point for the event will be the Triumph Luxury Hotel lobby at 5:30 PM. We look forward to welcoming you and hope you can join us for an unforgettable evening!



EXHIBITION

A Journey Through Innovation and Discovery

The Exhibition, concurring with the CWW activities, is a premier event that showcases the latest advancements in water-related technologies. This exhibition is a nexus for water professionals, industry practitioners, and leading companies to engage in a dynamic exchange of solutions addressing water challenges on a national, regional, and international scale. It offers exhibitors an unparalleled opportunity to present their services and products to a discerning professional audience, fostering a robust platform for communication and information within the water industry.

Premium



Diamond



Gold



Silver



EXHIBITION





GENERAL INFORMATION

GENERAL INFORMATION

Airport

Cairo International Airport (code: CAI) is the main international gateway to the city, located approximately 15 kilometers northeast of Cairo's business area. It serves as the primary hub for most major airlines. The Triumph Luxury Hotel, which is the conference venue for Cairo Water Week 2024, is situated around 7 kilometers from Cairo International Airport, making it conveniently accessible for all attendees.

For more information, please visit : <http://www.cairo-airport.info/>

Visa

Most foreign nationals require a visa to enter Egypt. Only citizens of 10 countries and territories can visit visa-free for a limited time. Tourists from 74 eligible countries can apply for an Egypt eVisa online, provided they meet the necessary requirements. For detailed information and to apply, kindly visit Egypt Visa.

Accommodation

Different options for accommodation preferences in neighboring hotels to the venue of the conference have been announced on our website on the following link:

<https://www.cairowaterweek.eg/conferencevenue/>

Please note that you will not obtain the special rates of these hotels unless you mention your registration confirmation code. The registration team will send the confirmation code to you when they receive a copy of your payment document.

Transportation

To ensure smooth and convenient transportation for all participants, Cairo Water Week 2024 will provide daily shuttle services to and from the conference venue, Triumph Luxury Hotel, and the designated hotels: Helnan Landmark Hotel, Jewel Sport City & Aqua Resort, and Tolip El Narges. Additionally, shuttles will operate from two key pickup points in the city: Abd Al Moneim Riad Square and Stadium Metro Station. Simply head to these locations, hop on a shuttle, and enjoy a stress-free ride to the event.

Registration

Registration is required for all participants and accompanying persons. Registration fees and online registration procedures are available on the CWW website at www.cairowaterweek.eg/register/

Weather

The average temperature in Cairo during October reaches a high of around 30°C (86°F) during the day and falls below 19°C (64°F) at night.

Local Time

Cairo is GMT + 3 hours ahead of GMT.

Telephone Calls

In case of an emergency, please contact the registration or information desk, or number 122 for police, 123 for ambulance service, and 180 for fireman service.

Electricity

Egypt's electrical current is 220 volts with a 50-cycle alternating current (AC). Continental-style plugs with two circular prongs are accepted by wall outlets.

TRANSFORMING WATER, TRANSFORMING LIVES

At IWTE, we are dedicated to providing **high-quality, sustainable water treatment systems** that meet the demands of various industries. With over **31 years of experience**, we have installed **4,000+ systems** and purified over **10 million gallons of water per day**, ensuring reliable solutions for critical applications in **food & beverage, pharmaceuticals, industrial plants, and more.**



WHY IWTE?

Customized Solutions: Tailored designs for industrial, commercial, and residential water treatment needs.

Comprehensive Services: From system design and manufacturing to installation and maintenance.

Global Expertise: Leveraging our partnerships with leading international manufacturers to deliver cutting-edge technology at competitive prices.

Sustainability: Solutions that help businesses reduce their environmental impact while maintaining operational efficiency.



OUR GLOBAL REACH

IWTE operates with a strong presence in the Middle East and beyond:

- **Office and factory in Egypt** for local manufacturing and service support.
- **Branch in Saudi Arabia**, delivering water solutions tailored to regional needs.
- Partnerships with **Meyahh and WaterPro** in **Egypt and Saudi Arabia**, enhancing our capacity to deliver specialized water solutions.
- **Sister companies** in the **UAE and UK**, extending our reach to international markets and ensuring access to global expertise.



INDUSTRIES WE SERVE

Construction

Agriculture

Food & Beverage

Life Sciences

Industrial

Residential & Hospitality



OUR IMPACT

400+ clients across the Middle East and Africa.

15,000+ distributed products to enhance water treatment operations.

A trusted partner in the drive toward water sustainability and efficiency.

LET'S WORK TOGETHER

We are committed to delivering **economical, climate-friendly** water solutions. Whether you're looking to improve an existing system or design a new one, IWTE is your trusted partner in achieving water security and sustainability.



DISCOVER EGYPT

A Land of History, Modernity,
and Wonder

Discover Egypt: A Land of History, Modernity, and Wonder

Egypt, officially the Arab Republic of Egypt, is a land of ancient marvels, diverse culture, and vibrant landscapes. From the Great Pyramids of Giza and the Sphinx to the magnificent temples of Luxor, Egypt's rich heritage spans over 3,000 years, offering an unparalleled historical experience. But Egypt is not just a reflection of the past; it is also a country of dynamic progress.

Today, Egypt is transforming into a contemporary hub, blending ancient history with cutting-edge development. The construction of the New Administrative Capital, located east of Cairo, is a symbol of this transformation. This futuristic city is designed to be Egypt's new political and economic center, equipped with state-of-the-art infrastructure, government offices, and residential areas. The capital aims to reduce congestion in Cairo and create a sustainable urban environment for future generations.

On the North Coast, the city of New Alamein is rising as a premier destination. With its pristine beaches, luxury resorts, and a master-planned urban core, New Alamein represents Egypt's vision for a modern Mediterranean city. It will offer year-round tourism, high-end residential spaces, and a vibrant cultural scene, further solidifying Egypt as a global destination for both tourists and investors.

Beyond these modern advancements, Egypt's natural wonders continue to captivate visitors. The Red Sea coastline, renowned for its world-class diving and vibrant marine life, attracts adventurers from around the globe. The serene towns of Hurghada, Marsa Alam, and Safaga offer stunning beaches, golf courses, and thrilling water sports like snorkeling and kitesurfing.

Whether you are exploring the timeless treasures of the past or witnessing the remarkable growth of Egypt's future, this nation offers a unique and unforgettable experience for every traveler. Egypt truly stands as a bridge between ancient civilizations and modern innovation, with something to offer for all.

Egyptian Cuisine: A Taste of Tradition

Egyptian cuisine is known for its authenticity, featuring staple ingredients such as beans, lentils, pasta, rice, and bread. One of the most beloved traditional dishes is Koshary, a mix of rice, lentils, pasta, tomatoes, chickpeas, crispy onions, and garlic sauce. Tamiya, made from ground beans, is another local favorite. Egypt is also known for its flavorful meat dishes like stuffed pigeons, kebabs, and kofta. With access to some of the freshest seafood, Egyptian cuisine offers a variety of delicious fish and seafood dishes as well.

Egyptian Arts: A Rich Cultural Legacy

Egyptian arts have a deep and rich history that dates back to the time of the pharaohs, with iconic contributions in sculpture, painting, and architecture. Ancient Egypt's artistic achievements, like the detailed hieroglyphics, monumental sculptures, and the iconic temples of Karnak and Luxor, have influenced civilizations for centuries. Modern Egyptian art blends tradition with contemporary themes, as seen in the works of painters, sculptors, and filmmakers. The performing arts, particularly music and cinema, also play a significant role, with Egypt being a hub of Arab film and music production.

From ancient treasures to contemporary expressions, Egyptian art continues to be a powerful medium reflecting the country's rich heritage and evolving identity.

Shopping and Malls: A Blend of Tradition and Modernity

Egypt offers an exceptional shopping experience, ranging from traditional bazaars to modern malls. Khan El Khalili, a historic market in the heart of Cairo, is famous for its unique souvenirs, handmade crafts, jewelry, and spices. Visitors can enjoy bargaining and discovering authentic Egyptian treasures. On the other hand, Cairo is home to numerous luxury shopping malls like Cairo Festival City Mall, Mall of Egypt, and City Stars, offering international brands, dining, and entertainment options, combining modern retail with Egyptian hospitality.



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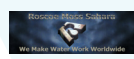
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Cairo Water Week Permanent Secretariat Ministry of Water Resources and Irrigation



**Ministry Building, Governmental District,
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