CAIRO
WATER WEEK

Action on Water Adaptation for Sustainability

29th Oct - 2nd Nov 2023
Cairo - Egypt

CONTACT US:
@ Cairo Water Week

www.cairowaterweek.eg

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Prof. Dr. Hani Sewilam

Minister of Water Resources and Irrigation
Arab Republic of Egypt

Esteemed guests, distinguished participants and dedicated advocates of sustainable water management,

With deep respect and a heartfelt welcome, I warmly greet the esteemed assembly gathered for Cairo Water Week 2023 (CWW 2023). In the face of the challenges posed by climate change, we must first acknowledge its profound impact on our precious water resources. Climate change transcends borders, and its far-reaching effects on the water sector, from altering rainfall patterns to exacerbating droughts and floods, serve as a stark reminder of the urgency of our actions.

In recognition of this critical need for action, this year, our chosen theme, “Action of Water Adaptation for Sustainability,” underscores the paramount importance of our collective response to these pressing challenges. Here, in the heart of Cairo, we acknowledge not only the urgency of our actions but also the imperative of collaboration. Our commitment to sustainable development and action is deeply rooted in our historical relationship with the Nile River, an enduring source of life, culture, and identity for our nation.

Throughout the five-day conference, we embark on a comprehensive journey that illuminates the path toward water adaptation and sustainability. The mosaic of activities thoughtfully woven into our program encompasses a series of plenary sessions where distinguished experts will share their invaluable insights, serving as guiding beacons throughout our deliberations.

In addition, CWW 2023 featured a diverse range of high-level sessions addressing critical aspects of global water challenges. One session delved into the transition of water agendas between international climate conferences, emphasizing continuity in addressing water-related issues. Another session examined the rights of refugees in water-scarce regions and their impact on sustainable development goals. Furthermore, an investment forum provided insights into financing strategies for water-related projects. These sessions collectively showcased the comprehensive discussions held during CWW, highlighting the intricate facets of global water management.

Moreover, our technical sessions will delve into the intricacies of water management, offering a deep dive into the practical aspects of adaptation. Simultaneously, the meticulously designed workshops facilitate collaborative learning experiences where minds converge to shape innovative solutions.

In recognition of the crucial role that our youth and society play in this endeavor, we have incorporated competitions to provide a platform for them to showcase their dedication to water adaptation and sustainability. The vibrant energy and fresh perspectives of our youth are vital to driving sustainable change.

Additionally, the exhibition component of this event stands as a testament to the latest innovations and solutions in the field of water adaptation, bridging the theoretical with the practical. It is here that we witness the fruits of research and innovation converging to tackle the complex challenges that lie ahead.

I sincerely thank all participants and partners for contributing their expertise and insights. Together, let us reaffirm our dedication to preserving our vital water resources and collectively strive to build a future characterized by prosperity, resilience, and sustainability.

With great anticipation and profound appreciation,

Eng. Walid Hakiki

Executive Director of the CWW 2023
Permanent Secretariat

Dear Esteemed Guests and Distinguished Colleagues,

With immense pleasure, we extend our heartfelt welcome to all esteemed participants of Cairo Water Week 2023 (CWW 2023), a distinguished event set to transpire in the vibrant city of Cairo from October 29th to November 2nd. This prestigious gathering, graced by the esteemed patronage of H.E. Mr. Abdel Fatah El-Sisi, President of the Arab Republic of Egypt, is orchestrated in harmonious collaboration with esteemed national, regional, and international partners.

Cairo Water Week 2023 revolves around the main theme of "Action on Water Adaptation for Sustainability," aligning itself with the urgent global call for proactive water management.

In a world where the effects of climate change are becoming increasingly evident and where environmental conditions vary, our focus on "Action on Water Adaptation for Sustainability" holds great importance. This theme emphasizes the need for resilient and sustainable water management practices to address the evolving water-related challenges of our time.

Cairo Water Week 2023 is poised to delve deeply into the critical issue of water adaptation for sustainability, with a spotlight on strategies, policies, plans, and practical measures to tackle the dynamic water challenges we face today. Over the course of five days, we will explore this theme through a range of high-level events, technical sessions, side events, workshops, and plenary sessions.

As you engage in the discussions and knowledge-sharing at CWW 2023, we cordially invite you to explore our exhibition, which will showcase the latest technologies and innovations in the field of water management, providing tangible examples of our theme in action.

The ultimate goal of Cairo Water Week is to advance our collective understanding of current and future water challenges and to develop practical solutions that ensure the well-being of future generations. Your presence here, as esteemed participants, significantly enriches our collective efforts to create a sustainable water future.

We eagerly anticipate your participation in the insightful discussions and networking opportunities that await you during the event. Additionally, we hope you have an enjoyable and enriching stay in the captivating city of Cairo.

Warm regards,

COMMITTEE MEMBERS

HIGHER COMMITTEE

https://www.cairowaterweek.eg/higher-committee/

Head of Higher 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.

Ms. Florika Fink-Hooijer
Director General for Environment, European Commission

Mr. Loïc Fauchon
President, World Water Council

Dr. Mahmoud Mohieldin
The UN Climate Change High-Level Champion for Egypt and the Executive Director at the International Monetary Fund

Ms. Nuria Sanz
Officer in charge, UNESCO Regional Bureau for Science in the Arab States

SCIENTIFIC COMMITTEE

The formation of the Scientific Committee stands as a pivotal step in the advisory structure supporting the Higher Committee. This esteemed body comprises accomplished national and international scientists and experts spanning various water and sustainable development domains. This assemblage is purposefully designed to amplify and diversify the reservoir of knowledge and insight within the Scientific Committee and its associated Working Parties.
https://www.cairowaterweek.eg/higher-committee

Head of Scientific Committee

Prof. Dr. Mohamed Safwat Abdel-Dayem Eid, Professor Emeritus, National Water Research Center, Former Drainage Advisor, The World Bank

Rapporteur of the Committee

Prof. Nahla Mohamed Zaki Abouelfotouh, Professor Emeritus, National Water Research Center.

Names of the Scientific Committee (sorted by alphabetical order)

Prof. Dr. Abdelaziz Ibrahim TAGELDIN, Professor Emeritus, Water Resources Economics, Institute of National Planning- Cairo, Egypt.
Prof. Dr. Ashraf M. Elmoustafa Professor of Engineering Hydrology, Faculty of Engineering, Ain Shams University.
Dr. Eman Ragab Nofal, Associate Professor, deputy director of Research Institute for Groundwater,National Water Research Center.
Prof. Dr. Enas Mohamed Aly AbouTaleb, Professor of wastewater treatment technology and Environmental studies, National Research Center.
Prof. Dr. Hesham El-Askary, Professor of Earth System Science, Chapman University.
Prof. Dr. Hosam Shawky, Director, Egypt Desalination Research Center of Excellence, Vice President of Desert Research Center.
Prof. Dr. Mohamed A Dawoud, Professor, National Water Research Center, Egypt, Senior Water Resources Advisor, Environment Agency, Abu Dhabi, United Arab Emirates.
Prof. Dr. Mohamed M. Nour El-Din, Professor, Irrigation & Hudraulics Dep. Faculty of Engineering – Ain Shams University Cairo, Egypt.
Prof. Nagwa El-Ashmawy, Professor of Remote Sensing - National Water Research Center.
Prof. Dr. Ragab Ragab, President of the International Commission on Irrigation and Drainage, ICID, and Fellow – Principal Hydrologist & Water Resources Management Specialist.UK Centre for Ecology &Hydrology, Maclean Building, Crowmarsh Gifford, Wallingford, Oxon, Ox 10 8 BB, UK.
Prof .Dr. Reham Mohamed Elkorashey, Professor of Analytical Chemistry, Technical Office Director Central Laboratory for Environmental Quality Monitoring (CLEQM), National Water Research Center (NWRC).
Dr. Waleed Hassan AbouElHassan, Senior Natural Resources Officer, (Water Resources Management),Food and Agriculture Organization of the United Nations, Sub Regional Office for the GCC States and Yemen, Abu Dhabi, United Arab Emirates.
Dr. Yehya Imam, Associate professor in the Environmental Engineering Program at the Zewail City University of Science and Technology.

الاتحـــاد الأوروبـــي في مصـــر

European Union in Egypt

Co-Organizer of

CWW

Flow of Co-operation Since 2007

#EUinEgypt #European _Union #EU4Water

COMPETITION COMMITTEE

https://www.cairowaterweek.eg/technical-committee/

Head of Technical Committee

Dr. Ayman El sayed, Mechanical and Electrical Department Chairman, Ministry of Water Resources and Irrigation.

Rapporteur of the Committee

Eng. Doaa Lashien, Head of Crisis, Disaster and Risk Management Department, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.

Names of the Technical Committee (sorted by alphabetical order)

Prof. Dr. Ahmed Abdelsattar, Professor of Hydraulics, Department of Irrigation and Hydraulics, Faculty of Engineering, Cairo University.
Prof. Dr. Ashraf M. Elmoustafa Professor of Engineering Hydrology, Faculty of Engineering, Ain Shams University.
Dr. Bakinam Tarik Essawy, Assistant Professor, Civil and Infrastructure Engineering and Management Program, School of Engineering, Nile University.
Dr. Eman Ragab Nofal, Associate Professor, deputy director of Research Institute for Groundwater,National Water Research Center.
Dr. Ghada Anwar,Technical Office, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Eng. Maryam Hamza, Civil Engineer, Department of Water Uses, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Dr. Mohie Omar,Research Associate at the International Center for Agricultural Research in Dry Areas (ICARDA).
Dr. Moustafa Samir Moussa, Director of the Valley of Science & Technology and Director of Sustainable Development Center, Zewail City of Science and Technology.
Dr. Rabab Abbas, General Director of Water Uses Department, Planning Sector, Ministry of Water Resources and Irrigation.
Prof.Dr. Reham Mohamed Elkorashey, Professor of Analytical Chemistry, Technical Office Director Central Laboratory for Environmental Quality Monitoring (CLEQM), National Water Research Center (NWRC).
Dr. Waleed Hassan AbouElHassan, Senior Natural Resources Officer, (Water Resources Management), Food and Agriculture Organization of the United Nations, Sub Regional Office for the GCC States and Yemen, Abu Dhabi, United Arab Emirates.
Dr. Yehya Imam, Associate professor in the Environmental Engineering Program at the Zewail City University of Science and Technology.
Dr. Youssef Brouziyne, Regional Representative - MENA Region and CGIAR Water System Lead - MENA Region.

PERMANENT SECRETARIAT

https://www.cairowaterweek.eg/permanent-secretariat/

Head of permanent-secretariat

Eng. Walid Hakiki, Head of Planning Sector, Executive Director, Cairo Water Week Permanent Secretariat, MWRI, Egypt.
Dr. Ahmed Medhat, Head of the Minister's Office Central Department, Assistant to the Executive Director for Logistic Affairs, MWRI, Egypt.
Dr. Amr Fawzy, General Manager of the Water Resources Department, Planning Sector, Assistant Executive Director for Technical Affairs, MWRI, Egypt.

Names of the Technical Committee (sorted by alphabetical order)

Dr. Abd Ellatif Attia, Head of Central Department of Financial and Administrative Affairs, Ministry of Water Resources and Irrigation, Egypt.
Eng. Abdelrheem Yehia, Assistant Minister for Regional Cooperation, Ministry of Water Resources and Irrigation,Egypt.
Eng. Ahmed Omar, Minister's Technical Office, Ministry of Water Resources and Irrigation, Egypt.
Eng. Ahmed Yassin, Water Resource Engineer, Ministry of Water Resources and Irrigation, Egypt.
Mr. Ali Elbanna, Senior Accountant, Ministry of Water Resources and Irrigation, Egypt.
Eng. Amira Adel, Civil Engineer, Reservoir Sector, Ministry of Water Resources and Irrigation, Egypt
Eng. Amr Ayad, Software Engineer, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Dr. Atef Kamal, Senior marketing officer, Technical office of the Permanent undersecretary of the Ministry, Ministry of Water Resources and Irrigation, Egypt.
Eng. Dalia Diab, Software Engineer, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Eng. Doaa Lashen, Head of Crisis, Disaster and Risk Management Department, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Dr. Eman Ragab, Assistance Professor, Deputy Director, Research Institute for Groundwater, Ministry of Water Resources and Irrigation, Egypt.
Eng. Ensherah Abdel Hamed, Software Engineer, Planning Sector, Ministry of Water Resources and Irrigation,Egypt.
Eng. Fady Fahim, Software Engineer, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Dr. Ghada Anwar Fahd, Technical Office, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Eng. Maryam Hamza, Civil Engineer, Department of Water Uses, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Mr. Michael Tharwat, Head of Public Relations Management, Ministry of Water Resources and Irrigation, Egypt.
Mr. Mohamed Atta, General Manager, Procurement Department, Ministry of Water Resources and Irrigation, Egypt.
Ambassador. Mohamed Raffik, Minister›s Advisor, Ministry of Water Resources and Irrigation, Egypt.
Eng. Mohamed Sabry, Civil Engineer, Minister's Technical Office, Ministry of Water Resources and Irrigation, Egypt.
Eng. Mohamed Salah, Manager of Agreements and External Financing Department, Ministry of Water Resources and Irrigation, Egypt.
Mr. Mohamed Shawky, Secretariat, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Dr. Mohamed Wahba, Vice president Honorary - International Commission on Irrigation and Drainage (ICID).
Eng. Mona Maher, Senior External Affairs and partnerships officer, Ministry of Water Resources and Irrigation, Egypt.
Eng. Nariman Abdelrahman, General Coordinator, Ministry of Water Resources and Irrigation, Egypt.
Eng. Mostafa Sonousy, Civil Engineer, Minister's Technical Office, Ministry of Water Resources and Irrigation, Egypt
Mrs. Neveen George, Accountant, Technical Office, Planning Sector, Ministry of Water Resources and Irrigation,Egypt.
Eng. Radwa Mohamed, Software Engineer, Planning Sector, Ministry of Water Resources and Irrigation, Egypt.
Ms. Rana Elbanna, Art Director, Ministry of Water Resources and Irrigation, Egypt.
Mr. Wael Ismael, Graphic Designer, Ministry of Water Resources and Irrigation, Egypt.
Dr. Yosra Allam, Minister's Advisor for Media, Ministry of Water Resources and Irrigation, Egypt.

CONFERENCE VENUE

CWW Venue

Get ready for an unforgettable experience at Cairo Water Week, hosted at the prestigious Nile Ritz-Carlton Hotel in this magnificent city's heart. With its breathtaking panoramic view of the Nile River, this luxurious venue offers the perfect setting for water enthusiasts worldwide to come together.

Aside from the excitement of Cairo Water Week, this location also offers easy access to some of Egypt's most treasured landmarks. Guests can explore the fascinating exhibits at the Egyptian Museum, stroll through the iconic Tahrir Square, and immerse themselves in the vibrant energy of Cairo Downtown.

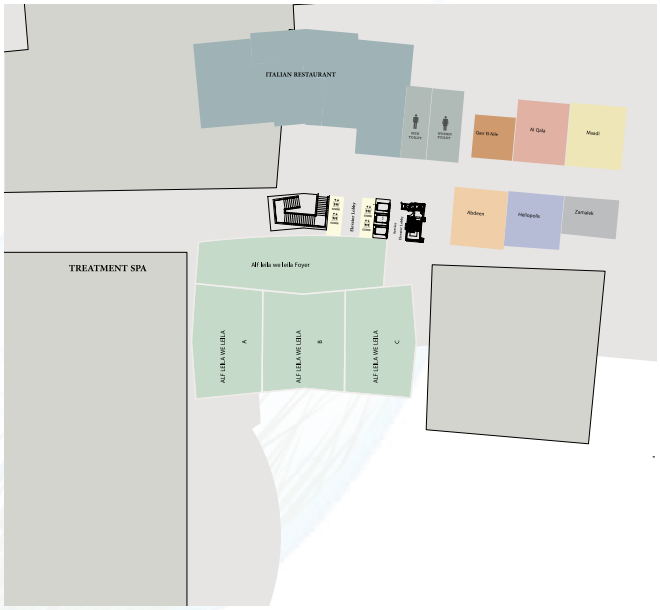
The hotel's address is 1113 Corniche El Nile, Cairo, 11221. For more information on the Nile Ritz-Carlton Hotel, please visit their website at http://www.ritzcarlton.com.

Prepare to be charmed by the magic of Cairo and the wonder of the Nile Ritz-Carlton Hotel at Cairo Water Week. We are excited to welcome you to this exceptional gathering of distinguished individuals. We look forward to seeing you there!

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

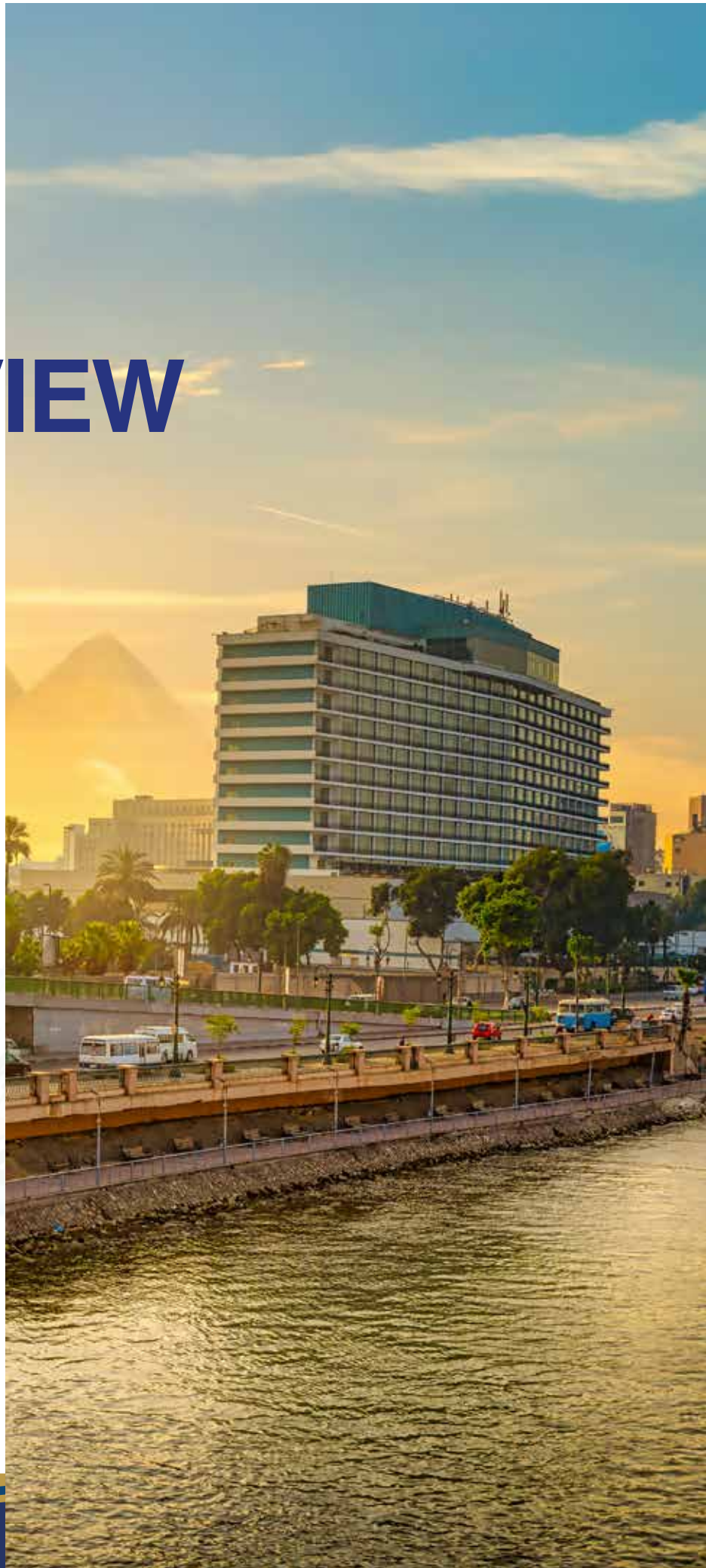
FLOOR PLAN

GROUND Floor Plan



FRIST Floor Plan

CWW OVERVIEW



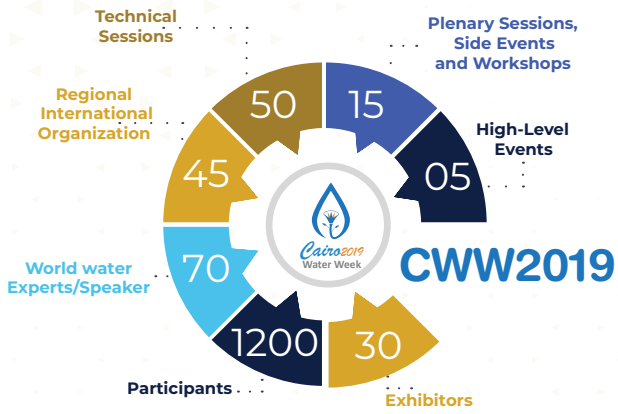
CWW OVERVIEW

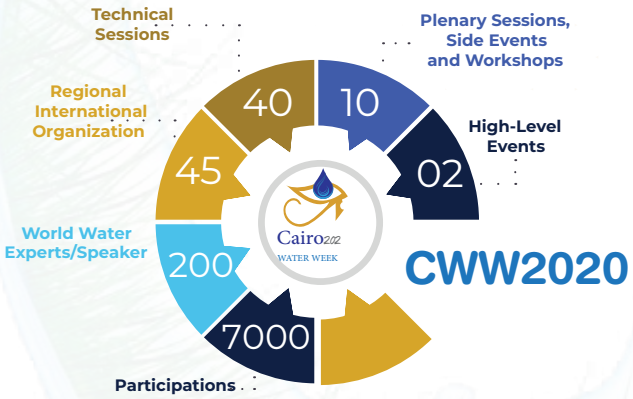
Cairo Water Week 2023, an eagerly anticipated and influential global gathering, is proudly organized by the Egyptian Ministry of Water Resources and Irrigation. Under the esteemed patronage of His Excellency ***Mr Abdel Fattah El-Sisi,*** **the President of the Arab Republic of Egypt,** this year's event is poised to make a significant impact. Scheduled to take place from ***October 29th to November 2nd,*** Cairo Water Week 2023 embraces the main theme of ***"Action on Water Adaptation for Sustainability."*** Amidst mounting challenges such as water scarcity, shifting climate patterns, and growing populations, the imperative to undertake comprehensive and collaborative measures is more pressing than ever.

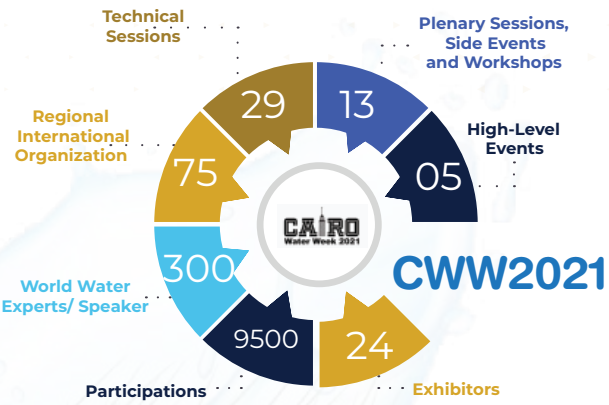
Cairo Water Week 2023 will be a global platform where luminaries, thought leaders, researchers, policymakers, and stakeholders converge to share profound insights, pioneering innovations, and holistic solutions. The event aims to forge a path toward enhanced water security, resilient ecosystems, and sustainable growth by fostering dialogue and exchanging knowledge.

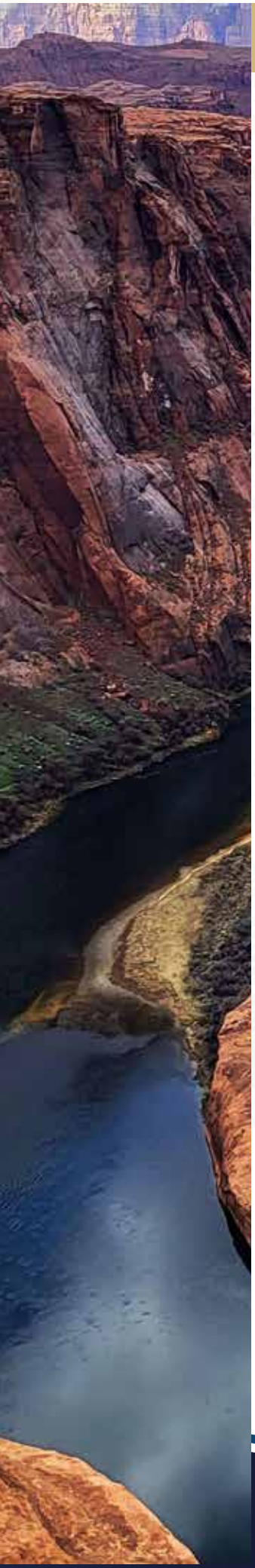
As Egypt assumes the role of host, participants worldwide will engage in meaningful discussions, workshops, and seminars, channeling their collective expertise towards actionable strategies for water adaptation. The event's significance is underscored by the participation of influential figures and organizations, culminating in a comprehensive blueprint for water sustainability. Under the guidance of the Egyptian government and the visionary leadership of ***President Abdel Fattah El-Sisi***, Cairo Water Week 2023 will undoubtedly catalyze the formulation of progressive policies, transformative technologies, and collaborative initiatives. By intertwining the realms of science, policy, and practice, this gathering represents a pivotal milestone on the journey toward securing a water-resilient future for our planet.

CWW IN FIGURES









CWW 2023
Main & Sub Themes

Theme (1)
Cooperative Management of River Basins

The importance of transboundary water cooperation is globally recognized as %60 of global freshwater supplies are found in transboundary basins. Transboundary cooperation is necessary to prevent possible negative impacts of unilateral measures by enabling joint development of more cost-effective solutions that benefits all riparian states.

Cooperative management requires coordination, integration, and coherence across political, sectoral, ecological and institutional boundaries. Unilateral action by communities, sectors and countries can lead to unsustainable and often more costly development choices, and if left unaddressed can even spiral into threats of regional stability and peace, especially within the context of weak governance systems and situations of fragility, conflict and violence which necessitates basin-wide strategies that involves a combination of scientific assessments, stakeholder engagement, and policy analysis.

To efficiently and openly inform water-related decision-making processes at various levels, data and information sharing within and across communities, sectors, and countries is crucial. Building trust and a shared knowledge base, which in turn helps to prevent disputes, can be facilitated by data and information interchange, including scientific collaboration. In addition, it will be challenging to realize the SDGs or other relevant international goals without the institutional and human ability to handle the complex and interconnected concerns of climate change, disaster risk reduction, and environmental degradation and their impacts on water.

Cooperation on water issues should be inclusive. Many different stakeholders at multiple levels are involved in and impacted by water resources, including civil society, national and local governments, private sector, and the scientific community. Water governance systems should take into account the intercultural dimensions of water cooperation and the variety of stakeholder values. It ought to be cross-sectoral as well. Combining resources for water, energy, agriculture, and the environment, enables better trade-off management and can increase the advantages of collective action, while protecting ecosystems. Sectoral silos must be broken down in a way that may lead to legitimate, equitable, and long-lasting outcomes, and this requires multi-level governance frameworks.

Topics

- Importance of transboundary water cooperation, related challenges, and interlinkages with SDGs
- Concrete examples of successful transboundary cooperation at the basin level
- Data exchange for developing basin-wide IWRM plans and basin-wide strategies

Theme (2)
Support Co-Benefits of Water Management Adaptation Actions and Economic Growth

The challenge of water security is global and growing. As populations, cities, and economies grow and the climate changes, more significant pressure is being placed on water resources, increasing the exposure of people and assets to water risks and the frequency and severity of extreme climatic events. Rising water stress, increasing supply variability, flooding, inadequate access to safe drinking water and sanitation, and higher water pollution levels drag economic growth.

Water management adaptation actions can support co-benefits that promote economic growth and development and build resilience to climate change. These co-benefits can be achieved through various strategies that focus on sustainable management of water resources, such as:

- Promoting water-efficient technologies and practices.
- Investing in water infrastructure.
- Enhancing water quality.
- Strengthening water governance and institutions.

Meanwhile, investing in water security will drive sustainable growth. These investments must be well-planned, fit broader development agendas, benefit local communities and the environment, and be flexible enough to adapt to changing circumstances.

Estimates of current investments in water security are often incomplete and difficult to compare due to different methodologies (an exception is the water supply and sanitation sector). At the international level, reliable information on who pays for what is lacking. Investments in large infrastructure projects can be traced, but operation and maintenance expenditures are monitored with different accuracy.

Economic growth facilitates opportunities for policy reform, strengthened institutions for water management, and financing for investments in water-related technologies, infrastructure, and information systems.

This theme focuses on supporting the achieved environmental and economic co-benefits via proper water management to support a growing economy and addressing water management challenges and opportunities with submissions on measures of decoupling economic growth from governing policies, partnerships, research, and innovation. It also highlights the integrated water and climate approach and proper recognition of the role of water for informed decision-making in climate change mitigation and adaptation action.

Under this theme, the CWW will cover the topics (but not limited to):

- Adaptation and mitigation options to support mutually agreed policy.
- Cooperation as a key to climate change adaptation and its co-benefits.
- Solutions to integrate water and climate action to leverage co-benefits of adaptation.
- Promoting measures to decouple economic growth from freshwater use and degradation.
- Mobilizing funds for activities related to technical research to achieve economic growth.

Theme (3)

Green Water for Restoring Freshwater Ecosystems and Adapting to Changing Climates.

Green water in our soils holds most of the world›s freshwater and constitutes most of the water used in rain-fed agriculture. Although the green water is often hidden, sustainable management is critical to the planet›s enormous water security challenges.

Restoring freshwater ecosystems through green water management involves a variety of strategies, such as reforestation, soil conservation, and the creation of wetlands and other natural water storage features. These measures help to increase the amount of water available for vegetation and other wildlife, which in turn supports the health and productivity of ecosystems.

One of the key policy challenges for ensuring freshwater protection is to find a way to maintain connectivity, integrity, and the resilience of freshwater ecosystems while continuing anthropogenic activities, including the generation of hydropower and irrigation, among others. This challenge is made even more complex with climate change. The recently adopted Sharm el-Sheikh Implementation Plan flags this challenge, «recognizing the critical role of protecting, conserving and restoring water systems and water-related ecosystems in delivering climate adaptation benefits and co-benefits while ensuring social and environmental safeguards.» Managing freshwater ecosystems with these goals will require collaboration across local, regional, national, and transboundary scales.

Along with water supplies, healthy freshwater ecosystems provide a wealth of benefits to people and nature and are critical to mitigating and adapting to climate change and achieving the Sustainable Development Goals (SDGs). Yet one-third of the world›s wetlands have been lost over the past 50 years, and we are still losing them faster than forests. Rivers and lakes are the most degraded ecosystems in the world, with fish populations, many of which are vital for community food security, pushed to the brink (UN Water Conference in New York, 2023).

Green water management can also help communities adapt to changing climates by increasing the resilience of their water supply. By conserving and using rainwater and soil moisture, communities can reduce their reliance on surface water and groundwater sources that may become scarcer or more polluted as climate conditions change.

The session will highlight how Green water is accounted for, developing national utilization plans, adaptation and mitigation strategies, and protecting & restoring freshwater ecosystems. In addition, the wise and productive use of green water can reduce demands on blue water. Therefore, green water must be accounted for, and its potential contribution to the productivity, restoration, and sustainability of freshwater ecosystems is to be understood and optimized – not least in the context of nature-based solutions. Under this theme, the CWW will cover the topics (but not limited to):

- Vulnerability of Freshwater ecosystems to global warming.
- Mitigation and adaptation actions to restore freshwater ecosystems.
- Climate-smart irrigation & agriculture facilities.
- Performing Green water accounting (water balance).
- Green water utilization and investment projects.
- Basin-wide strategies to promote low-emission water and energy sources.

Theme (4)
Improving Early Warning Systems for Severe Weather Events and Prolonged Droughts.

Early warning systems (EWS) are critical elements of climate change adaptation and disaster risk reduction and aim to avoid or reduce the damages caused by hazards. To be effective, early warning systems must actively involve the people and communities at risk from a range of threats, facilitate public education and awareness of risks, disseminate messages and warnings efficiently, and ensure that there is a constant state of preparedness, and that early action is enabled. The significance of an effective early warning system lies in the recognition of its benefits by local people.

Improving early warning systems for severe weather events and prolonged droughts is critical to reducing the impacts of these events on communities, infrastructure, and natural resources. Here are some ways in which early warning systems can be improved: Investing in technology and infrastructure, enhancing data collection and analysis, strengthening communication and dissemination, engaging with communities, and coordinating across sectors and levels of government.

Overall, improving early warning systems for severe weather events and prolonged droughts is essential to building resilience to climate change. By investing in technology, enhancing data collection and analysis, strengthening communication and dissemination, engaging with communities, and coordinating across sectors and levels of government, stakeholders can develop more effective and comprehensive early warning systems that reduce the impacts of these events on people and the planet.

This theme will highlight a comprehensive input regarding generating more suitable and operative drought indices and enhancing the probabilistic flood forecasting systems, integrating several tools to implement a powerful Early Warning System (EWS). Besides, putting this knowledge to work and developing information tools based on technologies that are basic for managing flood and drought risk will do this in close collaboration with the stakeholders and end-users to ensure adequate uptake of the newly developed products.

Under this theme, the CWW will cover the topics (but not limited to):

- (EWS) as a key element of climate change adaptation and disaster risk reduction.
- Prolonged droughts forecast and long-term mitigation and adaptation actions.
- Floods forecast and disaster risk reduction (DRR)
- Early warning systems global initiatives.
- Investments mechanisms for early warnings and early action.
- Enhancement of risks observation, monitoring, and forecasting infrastructure.

Theme (5)
Integration of Climate and Water Policies with National Sustainable Development Visions

Integrating water resources policies with the national sustainable development vision ensures that water resources management contributes to achieving sustainable development goals. The impact of climate change on water resources poses different challenges to different regions of the world. Therefore, interventions for dealing with those challenges should be identified in the national water strategies, policies, plans, and climate change adaptation strategies. An adaptation strategy should be synchronized with existing environmental, health, social and economic plans and lead to the implementation of adaptation actions. There are some ways in which water resources policies can be integrated with national sustainable development.

visions: Aligning water resources policies with sustainable development goals, incorporating water resources considerations into national planning processes, promoting cross-sectoral collaboration, encouraging stakeholder participation, and monitoring and evaluation.

The key Goals for Linking Water and Climate Policies in the region include Developing and implementing national water resources management strategies that are country-specific, including the climate action dimension, Translating the water resources management policies into legislations and regulations in line with climate action commitments (NDCs), Incorporating water sustainability dimensions (water policies) as an integral part of the national climate action plans and NDCs. Mechanisms for water and climate-interrelated risk management. An extensive review of information, data collection, and consultation will be conducted to identify effective policies and instruments that can mitigate the impact of climate on water resources. They include financial tools for climate risk management, early warning and response, risk profiling, and contingency planning.

Integrating water resources policies with national sustainable development visions ensures that water resources management contributes to sustainable development objectives. By aligning water resources policies with sustainable development goals, incorporating water resources considerations into national planning processes, promoting cross-sectoral collaboration, encouraging stakeholder participation, and monitoring and evaluating progress, policymakers can develop effective and comprehensive water resource policies that support sustainable development.

This theme will highlight the integrated water and climate approach recognizing the role of water for informed decision-making in climate change mitigation and adaptation action. Also, it will Link water resources policies with national climate action to reflect climate change's

long-term impacts on water resources and demand and to support preparedness and adaptation measures.

Under this theme, the CWW will cover the topics (but not limited to):

- Water and climate synergies and integrated policies
- Institutional coherence and multi-stakeholder partnerships
- Governance of water resources and climate actions for sustainable development.
- Promoting Nature Based Solutions to adapt to climate change impacts in coastal zones
- Floods management and rainwater harvesting for climate adaptation and food security

AWARe

BRIDGING WATERS

Insights from Cairo Water Week 2023

AWARe

H.L.E: Towards Harnessing Successful Transition of the Water Agenda from COP27 to COP28

The Ministry of Water Resources and Irrigation (MWRI), on behalf of the Egyptian Government, tookthe initiative and pledged the first H.L. event during CWW2023. The H.L sessions will be held on (29th – 30th) October 2023 at the 6th Cairo Water Week. It will provide a platform for governments and non-government experts to express their support for AWARe proposed financing mechanism, which mainly focuses on: finance availability, technology and innovation, natural-based solutions, regional and sectoral cooperation, capacity building, and disaster risk reduction. UN Member States, as well as the countries, donors and institutions, are invited to the event which will be broadcasted to the public.
The sessions will gather government representatives, international and regional entities, multidisciplinary organizations, and High-Level experts from all parts of the world.

H.L.E: AWARe 1st Steering Committee Meeting

Since the adoption of the first international water action initiative in the history of climate conferences, which is the initiative of the COP27 Egyptian presidency titled “Action on Water Adaptation and Resilience (AWARe)”, in partnership with many international organizations, huge efforts have been made to engage more countries and stakeholders from Africa and developing regions to further advance the implementation of the initiative.
The Steering Committee (SC) of the AWARe is mandated with a major role mainly: follow up on the progress made and provide strategic guidance; lead structuring the way forward and take important decisions to further develop the next steps to fully operationalize AWARe.
The SC consists of founding members, as well as countries and international organizations who expressed their support during and post COP27. Regional and International partners are invited to support the joint efforts to build on the achievements particularly the link to loss and damage fund in the water sector.
The SC meeting will also serve as a preparatory session for advancement of the water agenda at COP28, discuss national, regional, and global challenges and define key action areas.

H.L.E: Refugee's Water Rights in Water-scarce Countries and its Implication on SDGs

The side event will occur on October 31st, 2023, in the Sixth Water Week in Cairo. The side event will provide a platform for governmental and non-governmental experts to present documented information and showcase international efforts to deal with refugee water issues, which mainly focus on the availability of financing, technology and innovation, regional and sectoral cooperation, capacity building, and decision support tools. UN Member States, as well as the countries and institutions are invited to the event, which will be broadcast to the public. The sessions will gather government representatives, international and regional entities, multidisciplinary organizations, and High-Level experts from around the world.

H.L.E: Follow-up Interactive Dialogue 3: Water for Climate, Resilience and Environment of The 2023 UN Conference on the Midterm Comprehensive Review of the Water Action Decade

The side event will be held on 1st November 2023 at the 6th Cairo Water Week. The side event will provide a platform for governments and non-government experts to express their support for the proposed UN-Water ID3 follow-up mechanism, which mainly focuses on: finance availability, technology and innovation, naturalbased solutions, regional and sectoral cooperation, capacity building, and disaster risk reduction. UN Member States, as well as the countries and institutions, are invited to the event which will be broadcasted to the public.

Food and Agriculture Organization of the United Nations

CAIRO WATER WEEK

As the host of the Regional Water Scarcity Initiative and for the sixth year, FAO Regional Office for the Near East and North Africa is co-organizing the Cairo Water Week (CWW) 2023 conference with the Ministry of Water Resources and Irrigation in Egypt. This year, the CWW coincides with FAO World Food Day 2023, which highlights water as a fundamental resource for life on Earth. For the first time, the "FAO Track at the CWW" is launched, serving a new modality of partnership with the Ministry. Scheduled for October 30-31, the FAO Track aims to provide a platform to deliberate and present FAO's various initiatives, projects, and activities related to water planning, management, governance, productivity and sustainability.

FAO's Presence at Cairo Water Week 2023

Date	Time	Session Title	Room
Technical Sessions			
30 Oct 2023	9:30 - 11:00	**Non-Conventional Water Resources: Addressing Opportunities and Challenges in the Context of Changing Climate and the Global Agricultural Commodity Market**	Alf Lila We Lila – C Ballroom
30 Oct 2023	11:30 - 13:00	**Navigating the NEXUS: Synergies and Strategies for Water, Food, and Energy in the NENA Region**	Alf Lila We Lila – C Ballroom
30 Oct 2023	14:00 - 15:30	**Harnessing Open Access Data and Earth Observation Technologies to Tackle Water Scarcity: A Data-Driven Approach** (Register Here)	Alf Lila We Lila – C Ballroom
31 Oct 2023	9:30 - 11:00	**A multi-dimensional and coordinated response to cope with drought challenge to achieve food security in the Arab region**	Alf Lila We Lila – C Ballroom
31 Oct 2023	11:30 - 13:00	**Climate –Resilient Water Systems and Infrastructure for Sustainable Agriculture**	Alf Lila We Lila – C Ballroom
31 Oct 2023	14:00 - 15:30	**Enhancing Sustainable Agriculture: FAO's Irrigation Projects in Egypt - A Focus on Achievements and Future Pathways**	Alf Lila We Lila – C Ballroom
Sponsorship of Competitions			
30 Oct 2023	14:00 - 15:30	**Competition sponsored by FAO - Best Water Conservation Practices**	Qalaa Ballroom
31 Oct 2023	14:00 - 15:30	**Competition sponsored by FAO - The Three Minutes Thesis (3MT)**	Qalaa Ballroom
2 Nov 2023	11:30 - 13:00	**Competition co-sponsored by FAO and UNESCO - Young Water Inventors Competition**	Al Qahira - C Ballroom
Sponsorship of Special Events			
1 Nov 2023	10:00 –16:45	**The Fifth Meeting of the High-Level Joint Water-Agriculture Technical Committee of the League of Arab States**	Nile Ritz Carlton
3 Nov 2023	7:30 – 15:30	**Field Trip to Irrigation Sites operated by Solar Power – The Station was constructed through collaboration between FAO and MWRI.**	Behira Governorate

DAILY PROGRAM

OPENING CEREMONY

AlQahira Ballroom
From 9:00 to 11:00

H.E AbdulHakim Elwaer, Assistant Director General, Food and Agriculture Organization.

Mr. Abdalah Al Dardari, Assistant Secretary-General and new Director for the Regional Bureau for Arab States.

Ms. Meike van Ginneken, Special Envoy of international Water Affairs, the Netherlands.

Ms. Florika Fink Hooijer, EU Representative, DG of Environment ENV.

H.E Madam Zhu Chengqing, Vice Minister of Water Resources of China.

H.E. Mr. Sameh Shoukry, Minister of Foreign Affairs of Egypt.

Amb. Ahmed Abo Elgheit, Secretary General of the league of Arab States.

H.E. Prof Dr. Hani Sewilam, Minister of Water Resources and Irrigation, Egypt.

H. E. Abdel Fattah El-Sisi, President of Arab Republic of Egypt (Recorded Speech).

CANAL SUGAR

- We are the largest private integrated agro-industrial project since 1950.
- Our Project incorporates a large-scale desert land of 181k feddans (76K hectare/189K acres) for reclamation and cultivation; a sugar beet processing factory built on an area of 240 feddans (100 hectare/247 acres) with a capacity of up to 950,000 of premium white sugar/year in Minya governorate with a total investment cost of US$ 1 billion.
- Our goal is to transform arid desert into fertile arable land through the application of modern technology in land reclamation and growing much needed strategic food crops.
- We aim to bridge the US$ 10 billion food/feed supply gap in Egypt through competitively producing essential commodities by means of an efficient vertically integrated supply chain and bulk storage facilities.
- Our ambition is to turn Egypt from a consistent net importer to a potential net exporter while introducing new technologies and elevating conventional methods to set new standards while maintaining safe work environment and positively contributing to our community.

DAY 1: 29 OCTOBER 2023

S.E.1.1: EU-Egypt Water Talks/Water Investment Forum

(Closed by invitation)

Convener(s): EU

Co-Convener(s): CEEBA

Alf Lila We Lila A Ballroom

11:30 - 17:30

The "EU-Egypt Water Investment Forum" stands as a milestone event to bolster bilateral ties in the water sector between the European Union, EU Member states and Egypt, with a particular emphasis on the principles of the circular economy. With the primary objectives of showcasing investment opportunities, driving innovations, and forging lasting partnerships, this forum aims to address critical challenges while leveraging mutual expertise. The forum addresses pressing water challenges and promotes sustainable practices that maximize resource efficiency. One of the forum's key outcomes is to introduce and integrate circular economy models into the water sector, ensuring that water resources are utilized, recycled, and managed in a manner that minimizes waste and optimizes and optimizes value. Catering to policymakers, industry leaders, investors, and researchers, this forum is a nexus for European and Egyptian stakeholders to work towards a sustainable and circular water economy, blending traditional resource management with innovative, eco-centric approaches.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/43

S.E.1.2: Urban Planning for Water Scarcity in the MENA Region

(Open)

Convener(s): ESCWA

Co-Convener(s): UN-Habitat

Abdeen Ballroom

11:30 - 13:00

"With support from ESCWA, UN-Habitat is leading the implementation of a project financed by the Adaptation Fund to address climate impacts on water scarcity in cities hosting displaced persons in Jordan and Lebanon. A central component of this project is the development of spatial/urban master plans that incorporate climate change risks and vulnerabilities, including water scarcity. This panel discussion session would provide an overview of the current water scarcity challenges impacting cities in the MENA region, the trajectory of urban water scarcity in light of climate change, and a description of potential solutions to the challenge, including climate mainstreamed urban planning and technological solutions, such as rooftop rainwater harvesting and treated wastewater use."

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/76

H.L.1.1: Egyptian - Dutch Expert Water Panel on Water

(Closed by Invitation)

Convener(s): MWRI

Alf Lila We Lila C Ballroom

11:30 - 15:30

A long history of more than 45 years Egyptian-Dutch cooperation on water management will be continued in this yearly organized expert panel. During this 'closed' meeting at the margin of the Cairo Water Week. The memorandum of understanding signed in 2020, will be used as a guideline to continue the important dialogues between the two countries regarding Integrated Coastal Zone Management, Water Supply and Sanitation and Water and Agriculture.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/94

DAY 1: 29 OCTOBER 2023

T.S.1.1: Women leadership in Water Diplomacy and the WEFE Nexus in the MENA

(Open)

Convener(s): GWP-Med & GWH

Heliopolis Ballroom

11:30 - 13:00

The Initiative on Empowering Women in Water Diplomacy in the Middle East and North Africa has entered its third year of being active, predominantly through voluntary and pro bono work from all those involved. Taking stock and recording of what has been achieved since 2020, when the Initiative came to being, has been an important process for reflecting, reconsidering and repositioning the work's context, methodology and structure. Importantly, this has assisted with working tangibly for the next phase. Following the tradition of holding sessions during the Cairo Water Weeks already since 2020, the Initiative is organising a session during the 6th Cairo Water Week with the aim to launch the publications of the initiative to date, highlight the elements of the new phase and benefit from the reflections of a panel of targeted experts and practitioners regarding the specific action needed for moving towards a gender transformative MENA. The meeting is organised by the Initiative's institutional co-leaders Global Water Partnership – Mediterranean (GWP-Med) and the Geneva Water Hub, with the support of the Initiative's co-founders and Comparative Study's co-authors, Eng. Charafat Afailal, Dr. Anthi Brouma, Eng. Natasha Carmi, Dr. Tahani Moustafa Sileet and Ms. Maysoon Zoubi.

For more information:

https://platform.cairowaterweek.eg/sessions/128

P.S.1.1: Cooperative Management of River Basins

(Open)

Convener(s): MWRI

Sponsored by: PJTC

AL QAHIRA C,D,E Ballroom

14:00 - 15:30

The main objective of this session is to underline the importance of cooperation in transboundary basins as a catalyst to regional peace and security and a main driver in achieving the Sustainable development aspirations. It also highlights the Cooperative analysis at the river basin scale as a key objective to propose and support mutually agreed policies to advance a "do no harm" approach. More specifically, the expected outcomes of the session are the following:

- Provide a platform and facilitate mutual learning to discuss experiences and good practices in developing basin wide strategies.
- Exchange of good practices on key topics including Financing, Data and information, Capacity development, innovation, and governance.
- Present success stories of different river basins on transboundary cooperation and their role to prevent the possible negative effects of unilateral action.
- Fostering North-South and South-South collaboration, to exchange experiences and expertise, as well as building capacities on integrated planning at a basin scale.
- Identification of needs and priorities for future cooperative arrangements to enable water for all and capitalize on the catalytic role transboundary water cooperation can have across SDGs.

Translation: English/Arabic/French

For more information:

https://platform.cairowaterweek.eg/sessions/86

T.S.1.2: Intelligence in Water Resources Management

(Open)

Convener(s): NWRC

AL QAHIRA B Ballroom

14:00 - 15:30

"Everyday Water Resources Management (WRM) includes a wide range of challenges related to water availability, pressure on water demand including inefficient allocation between different sectors, the proper quality, and operation and maintenance of the infrastructure. Moreover, the climate change and global warming brought more challenges to the table. Hence, the sustainable management of water resources is vital. It involves regulating water uses and their interactions with food security, energy, human-induced activities, and ecosystem health. In the last decade, intelligence approaches have made significant breakthroughs in WRM and offered intriguing solutions to these challenges. These approaches have the advantages to deal with complex and non-linear models (soft intelligence), overcoming the data-scarcity by using sensors (hard intelligence), congregated algorithms and machine learning techniques, forecasting with better accuracy extreme events, and using the Internet of Things (IoTs). In this session, the NWRC will share its experience in using artificial intelligence (AI) and IoTs in sustainable water resources management. The overall objectives are as follows; -Provide a comprehensive understanding of hard and soft intelligence in the field of water resources. -Application of Artificial Intelligence (AI) and Machine Learning (ML) -Case study on IOTs that are specifically designed for water and wastewater operators This session will last for 1.5 hrs. and include 4-3 Key presentations and Open discussion after"

For more information:

https://platform.cairowaterweek.eg/sessions/52

S.E.1.3: Improving Sustainability of the WASH Sector in Upper Egypt (ISWS)

(Open)

Convener(s): VNG International

Abdeen Ballroom

14:00 - 17:30

The WASH sector in Egypt has seen significant investments in the past years for increased access of services. Simultaneously, climate impacts on Egypt, especially in terms of drought, require adaptation in water use and consideration even of water re-use in various ways. Therefore, sustainability in management of the WASH sector, and its infrastructure, are essential to consider. Due to many countries facing alike challenges in the water sector, as well as focusing on new and improved practices in the water sector, in such an environment knowledge exchange is essential to share good practices nationally between governorates as well as with other water actors facing similar issues. ISWS is a project implemented in four governorates of Upper Egypt since 2022 in collaboration with Dutch regional water authority and drinking water company of Brabant. The ISWS project aims to achieve firstly, improved sustainability of social inclusiveness of WASH services and secondly, improved institutional sustainability of WASH services management in terms of reliability, efficiency, and quality, through working with citizens, governorates, and regional water companies. During Cairo Water Week, the sessions will focus on sharing learnings of VNGI and the ISWS project and discussing key topics of sustainability in the sector on the local level, through presentations and interactive panel discussion with project experts.

For more information:

https://platform.cairowaterweek.eg/sessions/129

T.S.1.3: Building the foundations for community-led development of integrated, nature-inspired water solutions in Egypt and the wider MENA region

(Open)

Convener(s): **IWMI**

Co-Convener(s): **CEDARE, Ministry of Agriculture and Land Reclamation, Egypt**

Heliopolis Ballroom

14:00 - 15:30

"Middle East and North African (MENA) communities have deep knowledge of their agro-ecological environments and contemporary water challenges. The Al-Murunah project – led by IWMI in collaboration with IUCN, governments, and national organizations like CEDARE in Egypt – supports rural communities in Egypt, Jordan, Lebanon, and Palestine to lead the planning and implementation of integrated nature-based and agricultural water management interventions to address pressing water challenges. Additionally, the project lays the groundwork for upscaling these climate change adaptation solutions by building capacity, and developing business cases and financial options for their development. In Egypt, the project focuses on Abu Matamir District in Beheira Governorate in the Nile Delta and will address water availability and quality challenges that affect agricultural production. This session will bring together civil society organizations, government representatives, donors, financiers, and researchers to examine barriers to implementation of nature-inspired solutions in Egypt and the MENA region stemming from knowledge and capability gaps, as well as financial, institutional, and regulatory constraints."

For more information:

https://platform.cairowaterweek.eg/sessions/59

S.S.1.1: Cooperative Management of River Basins

(Open)

Convener(s): MWRI

Qalaa Ballroom

14:00 - 15:30

River basin scale adaptation and mitigation measures is a topic of special interest not only for hydrologists or meteorologists but also to many other scientific disciplines. In this session, researchers - mainly from the Nile Basin countries - will present their research findings regarding cooperative analysis of river basin scale adaptation and mitigation options. They will discuss topics such as seasonal river flow forecasting for the Upper Blue Nile Basin, modeling the wetlands of the Nile Basin, climatic mechanisms that complement El-Nino events for causing the Blue Nile flood-drought periods, water diplomacy and cooperation in Eastern Nile Basin, and other issues.

For more information:

https://platform.cairowaterweek.eg/sessions/102

H.L.1.2: Towards Harnessing Successful Transition of the Water Agenda from COP27 to COP28

(Open)

Convener(s): **MWRI**

AL QAHIRA C,D,E Ballroom

16:00 - 17:30

Regional and International partners are invited to support the joint efforts to build on the achievements of COP27 and its historic outcomes, particularly regarding loss and damage in the water sector, and call for the full implementation of all COP27 decisions. Starting up "H.L. plenary sessions" as a series of these events, chaired by the government of Egypt, will be used as a platform where several member states and international organizations can report on the progress of their commitments so that follow-ups can take place. These HLE plenary sessions will enable discussions to make use of the governance and demand-driven nature of the AWARe as a channel for Climate financing mechanism and seek to turn the tide on cross-sectoral implementation of the initiative as a promising platform for developing countries starting from Africa as a first stage. Also, it will serve as a preparatory session for the water agenda at COP28, discuss national, regional, and global challenges and define key action areas and potential cooperation to support policy recommendations and enhance the implementation of water and climate-related SDGs as an essential contribution to the outcomes of 2023 U.N. Mid-term Review Conference.

Translation: English/Arabic/French

For more information:

https://platform.cairowaterweek.eg/sessions/110

W.S.1.1: Maintaining productivity of salinity-affected landscapes: Roadmap for Egypt *(Open)*

Convener(s): IWMI

Co-Convener(s): AOAD

Heliopolis Ballroom

16:00 - 17:30

"Under the Cairo Water Week 2023 and in harmony with the different strategies of Egypt regarding maintaining productivity of saline landscape. IWMI-MENA office under the CGIAR Regional Integrated Initiative "From Fragility to Resilience in Central Asia and West Asia and North Africa (F2R-CWANA)" in collaboration with the Arab Organization for Agricultural Development (AOAD) is convening a workshop to present the current situation of water and soil salinity in Egypt; showcase success stories and lessons learned (good practices/ technologies /techniques) from across the region and make use of cutting-edge scientific evidence developed to date by IWMI, CGIAR centers and partners around the world to advise Egypt policies on maintaining productivity of saline landscape in and beyond the agricultural sector. The problem of soil and water salinity has been a long-standing challenge for agricultural development in Egypt, mainly in the Nile Delta, due to seawater intrusion, in addition to the usage of irrigation systems such as drainage water, to compensate for the shortage in irrigation water. Climate change further exacerbates the issue of salinity and increases the vulnerability of landscapes to its impacts. In general, soil salinization in Egypt is influenced by several factors, including both natural and human-induced processes as follows: Dissolved salts added through irrigation and fertilization water; Inefficient irrigation practices; Seawater intrusion; and Use of saline groundwater for irrigation. Managing saline landscapes in Egypt involves various strategies and interventions aimed at mitigating the effects of soil salinity and preserving the productivity of agricultural land. Given the prevalence of salinity issues in certain regions, particularly the Nile Delta and Nile Valley, several approaches can be employed. Following are few examples of mitigation measures to combat the effects of soil salinity on crop production: Improved irrigation practices; Leaching; Salt-tolerant crop selection; Soil amendments; Techniques for land preparation; Crop rotation and diversification; Subsurface drainage; and Mulching. This session aims to bring together experiences from IWMI and AOAD to consolidate learnings and share experiences – particularly around managing water and soil salinity– which are crucial for developing the salinity roadmap for Egypt. In addition, the session will draw on CGIAR's international as well as the MENA region experience (ICARDA, IFPRI, World Fish)– to understand how, salinity roadmap / will maintain productivity and transform food systems in Egypt. The project goal shall be achieved through the following sub-objectives:

1. Shed lights on the current situation of salinity (soil and water) in Egypt and its impact on productivity with focus on field level in selected areas.
2. Discuss the socio-economic impact of salinity on farmers livelihoods.
3. Presenting solutions and good practices for managing saline landscapes at field level and on ground success stories.
4. Discussing the governance system of managing saline landscapes in Egypt, and the enabling environment for a successful roadmap for managing saline landscapes in Egypt.

The expected_outcomes of this dialogue will contribute to the development of salinity roadmap (IWMI is currently leading) to advise policymakers on multiple aspects to maintain/enhance saline landscape productivity through better management and integration in Egypt. This includes technology, governance, innovation, financing and socio-economic, policy tools, interventions, and regulation related to water and soil salinity in Egypt."

For more information:

https://platform.cairowaterweek.eg/sessions/62

T.S.1.4: Strengthening resilience of Governorate in Egypt for climate change crisis and water scarcity management-National Model *(Open)*

Convener(s): UNICEF

Alf Lila We Lila C Ballroom

16:00 - 17:30

National Model for Strengthening resilience of Governorate in Egypt for climate change crisis and water scarcity management.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/65

DAY 2: 30 OCTOBER 2023

P.S.2.1: Support Co-Benefits of Water Management Adaptation Actions and Economic Growth

(Open)

Convener(s): **MWRI**

Sponsored by: **FAO – SUEZ Company**

AL QAHIRA C,D,E Ballroom

09:30 - 11:00

The session will focus on supporting the achieved environmental and economical co-benefits via proper water management to support a growing economy. In addition to addressing water management challenges and opportunities with submissions on measures of decoupling economic growth from governing policies, partnerships, research, and innovation. It also highlights the integrated water and climate approach and proper recognition of the role of water for informed decision-making in climate change mitigation and adaptation action.

Translation: English/Arabic/French

For more information:

https://platform.cairowaterweek.eg/sessions/87

T.S.2.1: Action on the Ground

(Open)

Convener(s): **Deltares**

AL QAHIRA B Ballroom

09:30 – 11:00

30 October 2023, 09:30-11:00 To deal with the effects of climate change, as part of the UN supported Water and Climate Coalition, three countries: Egypt, the Netherlands and Bangladesh have teamed up in the project Action on the Ground. The project counts on financial support from the Netherlands Ministry of Infrastructure and Water Management. In the project, global and local data and modelling are being combined to provide real-life and 'on-the-ground' solutions to enhance water security. Specific topics are developing better insight into Nile basin basin hydrology and operational water management, and mapping active erosion in the Brahmaputra river corridor in Bangladesh. Policy makers, scientists and practitioners from the three participating countries will join in sharing the latest scientific and applied research results. A panel discussion with the session participants will then explore the huge potential for further cooperation and scientific development in the use of global data and models. The session is organised with the cooperation of the Ministry of Water Resources and Irrigation in Egypt, the Ministry of Infrastructure and Water of the Kingdom of the Netherlands, the Ministry of Water Resources of the People's Republic of Bangladesh, the Bangladesh Water Development Board and the Institue of Water Modelling.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/137

H.L.2.1: EU-UfM -AfDB Water investment forum

(Closed by invitation)

Convener(s): **EU**

Co-Convener(s): **UFM - African Development Bank**

Alf Lila We Lila A Ballroom

09:30 - 15:30

Overall objective of the Annual conferences aims to enhance water security in the Mediterranean and Africa by providing a platform for policymakers and stakeholders to discuss and improve water finance and investment policies.

Specific objectives:

- To identify how efforts to define, assess and apply the water-energy-food-environment (WEFE) nexus concept take into account finance and investment issues in the Mediterranean and Africa.
- To explore what efforts are Mediterranean and African countries making to apply a WEFE nexus approach through water investment policies, plans, programs and projects.

- To promote peer learning among IFIs regarding efforts to apply a WEFE nexus approach to investment projects, and to identify how they are currently supported or undermined by national policy frameworks.
- The WEFE nexus approach aims to utilize green and sustainable finance to facilitate the transformation of the water sector.
- To seek input to identify best practices on applying a WEFE nexus approach to water investment planning and financing, and recommendations on how to advance the water finance and investments agenda.
- To seek high level guidance on water finance and investment topics in national and regional dialogues around the WEFE nexus.

Translation: English/French/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/42

T.S.2.2: Non-Conventional Water Resources: Addressing Opportunities and Challenges in the Context of Changing Climate and the Global Agricultural Commodity Market

(Open)

Convener(s): FAO

Co-Convener(s): AWC

Alf Lila We Lila C Ballroom

09:30 - 11:00

"Agriculture, a significant consumer of approximately 85 percent of available freshwater resources within the Near East and North Africa (NENA) region, faces formidable challenges in maintaining its water allocation amidst intensifying competition among various sectors and demands. These pressures impact the region's capacity to ensure both water and food security. In the backdrop of shifting climate patterns characterized by rising temperatures, rainfall variability, heatwaves, and increased evapotranspiration, the agricultural sector witnesses substantial setbacks such as crop failures and production shortfalls. These challenges disproportionately affect both irrigated and rainfed agriculture, leaving vulnerable farming communities and food security at risk. Climate change has led to a reduction in cereal yields in the NENA region, with wheat yields decreasing by about 20% in some areas. Furthermore, climate change as well as the degradation and depletion of natural resources, and rapid urbanization, affect the livelihoods of almost 420 million people in the region. NENA is the only region in the world where harvest area shrinkage is expected by 2050. NENA countries now rely increasingly on imports to meet their populations' needs. The NENA region was receiving about one-third of all international shipments of cereal, sheep meat and whole grains in 2019, and about one-fifth of all sugar, poultry meat, and skimmed milk imports. An over-reliance on food imports can also have political repercussions. The COVID-19 pandemic has had impacts on food security, exacerbating land and water inefficiencies. Food price increases were recorded in 2020, while in some countries such as Lebanon, Sudan and the Syrian Arab Republic, price rises exceeded 116 percent (SOLAW-NENA 2022). The ongoing Ukraine conflict is aggravating the food insecurity. The potential supply gaps, the raise of the international food and feed prices by 8 to 22 percent, above their already elevated baseline levels (2021) may translate into humanitarian food crisis affecting 400 000 people in the NENA region. Driven by escalating water scarcity and the surging volume of wastewater, many countries prioritize expanding their collection, treatment, and reuse capabilities. Notable progress has been achieved in the NENA region, exemplified by nations such as Oman, Qatar, and Jordan. While these countries make significant strides, none have yet achieved full collection, treatment, and reuse. The deleterious effects of salinity, exacerbated by irrigation with saline water and coastal sea water intrusion, continue to render vast swaths of farmland unproductive. Globally, salinity annually affects 0.3 to 1.5 million hectares of land and diminishes productivity on an additional 20 to 46 million hectares. Findings of a regional TCP project on sustainable soil management showed that more than half of the soils examined in eleven countries of the region exhibit varying degrees of soil salinity. Recent study FAO, International center for biosaline agriculture and Union of Maghreb Arab Union indicated that, in the Maghreb countries, saline soils, with electrical conductivity exceeding 2 deci-Siemens/meter, cover an area of 66 million hectares. FAO's ""State of the World's Land and Water Resources for Food and Agriculture 2021"" report underscores the importance of adopting biosaline agriculture for difficult soils. This approach involves selecting salt-tolerant crops and implementing suitable management practices

and cropping patterns. Across the Arab region, seawater desalination is extensively employed. A recent FAO-League of Arab States study delves into the status, challenges, and prospects of desalination within this region, highlighting the potential of nanotechnologies, renewable energies, and green hydrogen as catalysts for desalination advancement. Amidst the backdrop of global agricultural commodity market uncertainties, countries strive for food self-sufficiency. Consequently, the utilization of desalinated water within the agriculture sector could shift from cash crops to crops vital for food security. Within the NENA region, countries exhibit varying level of progress in promoting non-conventional water resources. This encompasses aspects such as vision, policies, institutional frameworks, regulations, quality control, incentivizing private sector participation in maintenance and operation of treatment facilities, water pricing reflective of scarcity and costs, and more. Nevertheless, there is a growing inclination towards comprehensive water reuse and integration of non-conventional water resources into broader water management strategies. In line with these dynamics and under the framework of the Regional Water Scarcity Initiative (WSI), FAO, alongside its partners, continues to offer support to NENA countries in tackling their most pressing challenges: ensuring sustainable food and water security for economic and social development. As part of its participation in Cairo Water Week 2023, scheduled from October 29th to November 2nd, FAO will host a special session entitled “”Non-Conventional Water Resources: Addressing Opportunities and Challenges in the context of changing climate and the global agricultural commodity market.”” This session aims to foster connections among organizations and communities invested in non-conventional water resources and sustainable development. Furthermore, it seeks to facilitate discussions on strategies and alternatives for harnessing non-conventional water resources within the region, considering the evolving context of global food commodities market volatility and climate change challenges.”

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/75

T.S.2.3: Water and Wastewater treatment for resource recovery and reuse in the Middle East: technological innovations and practice

(Open)

Convener(s): IHE-Delft

Abdeen Ballroom

09:30 - 11:00

“IHE Delft Institute addresses water and sanitation challenges through education, research and capacity development, at global, national, local and even microscopic scales – the latter in IHE laboratories. We at IHE focus on all water-related fields, including engineering, social sciences, and more. Our world-class experts teach and research fields such as desalination, water supply, wastewater treatment, reuse, resource recovery, climate change adaptation, governance, water diplomacy, wetlands and sustainable hydropower. The objectives of this session are as follows: - Shed light on an innovative natural-based technology developed at IHE Delft which treats wastewater and produces soil conditioner. - Emphasise recent advances, techniques and approaches for ensuring the safe reuse of treated wastewater in irrigated agriculture. - Address the emerging trends in brackish and saline water desalination.”

For more information:

https://platform.cairowaterweek.eg/sessions/53

T.S.2.4: Addressing water scarcity in fragile and refugee-hosting communities - anticipatory action, climate change adaptation, and nature-based solutions

(Open)

Convener(s): IWMI

Heliopolis Ballroom

09:30 - 11:00

“The water-scarce MENA region is confronted with an especially volatile situation – due to climate change, large numbers of refugees and internally displaced persons (IDPs), and political instability. Communities hosting migrants and refugees are generally presented with a complex set of scenarios when considering humanitarian action and development investment, and even more so when establishing disaster risk reduction and crisis prevention strategies. Addressing these issues requires coordinated research, innovation, and inter-organizational action. For example, under

the CGIAR Fragility Conflict and Migration Initiative, in partnership with governments and implementing agencies, IWMI is studying water stress in host communities to identify risks and vulnerabilities which can be addressed by early warning systems and climate adaptation strategies. Likewise, in Palestine, IWMI is working with local communities through the Al Murunah project to leverage nature-based solutions to mitigate wastewater management and pollution problems associated with refugee camps in the West Bank. This session will bring together government officials, donors, researchers, and humanitarian and development actors in a roundtable setting to explore the challenges and opportunities for addressing water security in fragile and refugee-hosting communities, especially in relation to anticipatory action, climate change adaptation, and nature-based solutions."

For more information:
https://platform.cairowaterweek.eg/sessions/60

S.S.2.1: Support Co-Benefits of Water Management Adaptation Actions and Economic Growth-Part1

(Open)

Convener(s): MWRI

Qalaa Ballroom

09:30 - 11:00

The theme of Co-benefits of Water Management Adaptation Actions and Economic Growth attracted the biggest number research papers. The broad scope and depth of the theme provided an opportunity to present a wide variety of topics to the extent that one session time-slot became obviously not enough to present all the submitted quality research. Therefore, session 2 will split over two time slots. Topics to be presented include findings of several interesting research work. Just as few examples, nano-membranes for removal of heavy metals and microbes from water resources, ultra-sonication treatment for saline groundwater, and highly efficient coagulation/flocculation process of contaminated raw surface water.

For more information:
https://platform.cairowaterweek.eg/sessions/103

S.E. 2.1: 6th African Young Water Professional Forum

(Closed By Invitation)

Convener(s): ICID – AFRWG – ESCWA – ICARDA – GWP-MED – IWMI – ACSAD – UNCCD

Virtual

9:30 to 13:00

The 6th Af-YWPF Building on the success of five editions of African Young Water Professional Forum's, which were organized under the platform of CWW, it gives the pleasure and honor to International Commission on Irrigation and Drainage and the African Regional Working Group to continue the success and to organize the 6th AfYWP-Forum in collaboration with Cairo Water Week, October 29th-2nd November, 2023 virtually due to the limitation in financial support for this year. The 6th Af-YWP Forum will be organized Virtually during 30 October – November 1, 2023 and in 3 days training workshops to cover some important topics related to the themes of CWW and to the training needs assessment of African young professionals under the theme " Actions on the climate change impacts and sustainability of irrigated agricultural".

For more information:
https://platform.cairowaterweek.eg/sessions/123

T.S.2.6: IPDC – International Panel of Deltas and Coasts – bridging the gap between implementation and financing for climate adaption

(open)

Convener(s): Deltares – IPDC

Al QAHIRA B Ballroom

11:30 – 13:00

IPDC – International Panel of Deltas and Coasts – bridging the gap between implementation and financing for climate adaption. The Session will give an introduction to the International Panel of Deltas and Coasts (IPDC) to allow participants from all layers to explore the gap between climate adaptation implementation and financing on the example of IPDC member country Egypt.

Translation: English/Arabic

For more information:
https://platform.cairowaterweek.eg/sessions/48

DAY 2: 30 OCTOBER 2023

W.S.2.1: Improved Groundwater Management in the Arab Region through Enhanced Data and Information Access and Innovative Technologies

(Open)

Convener(s): ESCWA

Co-Convener(s): ACSAD

AL QAHIRA C Ballroom

11:30 - 17:30

The United Nations Economic and Social Commission for Western Asia (ESCWA) is supporting Arab States in improving their water security by strengthening their capacities for the sustainable management of groundwater resources. This is supported by the development of the Arab Groundwater Knowledge Platform which aims to improve access to groundwater relevant data and information. The Platform will build on existing regional and national data sets that will be complemented by innovations in water technologies, geospatial analysis and remote sensing tools that can be used for monitoring, managing and reporting on scarce water resources. The objective of this workshop is to strengthen the capacity of ESCWA Member Countries to achieve integrated and sustainable management of groundwater with focus on enhancing data and information access and innovative technologies. National focal points will be informed of the updates made to the Arab Groundwater Knowledge Platform, the update of the hydrogeological map of the Arab region being executed in partnership with ACSAD, the hydrogeological data received from countries, and the national workshops that will be conducted to implement pilot case studies on the use of GRACE analysis, remote sensing tools and modeling of impacts of climate change on groundwater.

Translation: English/French/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/78

H.L.2.2: Towards Harnessing Successful Transition of the Water Agenda from COP27 to COP28

(Open)

Convener(s): MWRI

AL QAHIRA D,E Ballroom

11:30 - 13:00

The AWARe initiative is one of the promising mechanisms through which adaptation efforts can be achieved in the water sector, especially in the African continent. Regional and International partners are invited to support the joint efforts to build on the achievements of COP27 and its historic outcomes, particularly regarding loss and damage, and call for the full implementation of all COP27 decisions. Starting up an “H.L. plenary sessions” as a series of these events, chaired by the government of Egypt, will be used as a platform where several member states and international organizations can report on the progress of their commitments so that follow-ups can take place.

These HLE plenary sessions will comprise a discussion to propose a financing mechanism and seek to turn the tide on cross-sectoral implementation of the AWARe initiative as a promising platform for developing countries starting from Africa as a first stage. Also, it will serve as a preparatory session for the water agenda at COP28, discuss national, regional, and global challenges and define key action areas and potential cooperation to support policy recommendations and enhance the implementation of water and climate-related SDGs as an essential contribution to the outcomes of 2023 U.N.

Translation: English/Arabic/French

For more information:

https://platform.cairowaterweek.eg/sessions/110

T.S.2.7: Navigating the NEXUS: Synergies and Strategies for Water, Food, and Energy in the NENA Region

(Open)

Convener(s): (FAO)

Co-Convener(s): MWRI

Alf Lila We Lila C Ballroom

11:30 - 13:00

“The NENA region is characterized by its arid and semi-arid climate, making water a particularly scarce and precious resource. With a rapidly growing population and expanding urban centers,

the demand for water, food, and energy has surged, putting immense pressure on existing resources and infrastructure. These sectors are not only crucial for socio-economic development but also deeply intertwined, meaning that changes or challenges in one sector can have ripple effects across the others. This session delves into the intricate interplay of water, food, and energy – often referred to as the NEXUS – within the NENA (Near East and North Africa) region. With a focus on synergy and strategic navigation, this session aims to unravel the complexities and opportunities inherent in managing these critical resources collectively. Participants will engage in in-depth discussions and case studies that illuminate the interconnectedness of water, food, and energy systems, emphasizing the necessity of holistic approaches to address challenges. Through expert insights and practical experiences, the session will explore innovative strategies that capitalize on synergies among these domains to optimize resource use, enhance sustainability, and promote resilience. Key topics include sustainable water management practices that bolster agricultural productivity, reduce energy consumption, and ensure equitable access to resources. Additionally, the session will spotlight advancements in technology and policy frameworks that enable the efficient utilization of these resources while minimizing trade-offs. By fostering dialogue among policymakers, experts, and practitioners, this session seeks to identify actionable pathways for achieving a harmonious balance among water, food, and energy needs in the NENA region. Through collaboration and knowledge exchange, participants will gain a deeper understanding of the NEXUS dynamics and emerge equipped with insights to drive sustainable development and address regional challenges. The session aims to bring together experts, practitioners, policymakers, and researchers to share insights, experiences, and innovative solutions. By exploring case studies, discussing policy approaches, and highlighting successful projects, the session intends to foster a deeper understanding of the NEXUS dynamics in the NENA region and chart a path toward sustainable development that harmonizes water, food, and energy needs."

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/71

W.S.2.2: Resilient water for a resilient future: a community of practice for innovative adaptation in Africa *(Open)*

Convener(s): **AGWA**

Co-Convener(s): **ARUP - Deltares - IWMI**

Abdeen Ballroom

11:30 - 15:30

All countries face serious strategic choices and tradeoffs in how they build adaptation and resilience, and support a "just transition", defined as a low-carbon transition that is fair, inclusive, creates decent work opportunities — and leaves no one behind. A climate-resilient future is not possible without reliable, safe, and accessible water resources. Understanding where water plays a role as a resource for climate action is critical to accelerate progress and avoid wasting financial and human resources through maladaptation.

This side event will bring together stakeholders and practitioners from across the globe to participate in a workshop on opportunities and challenges for building water resilience in the region. The event will foster a constructive dialogue between government officers, non-state actors, technical and the scientific community, and provide an opportunity to share good practices and lessons learned from addressing climate impacts and implementing adaptation actions.

There will be a particular focus on the use of (Open)-source data, conducting climate risk assessments, and tools for decision-making under uncertainty. The workshop will also present an opportunity to showcase successful adaptation actions and approaches, as well as other useful tools for strengthening policies and programs, such as the Water Tracker for National Climate Planning.

For more information:

https://platform.cairowaterweek.eg/sessions/54

DAY 2: 30 OCTOBER 2023

W.S.2.3: Nexus Perspective in Water Reuse Projects In Egypt: ''Scientific Evidence for Policy Advice''

(Closed by invitation)

Convener(s): IWMI

Co-Convener(s): AWC - MWRI

Heliopolis Ballroom

11:30 - 13:00

"Under the Cairo Water Week 2023 and in harmony with the different strategies of the MENA countries regarding sustainable water reuse and agricultural development and building on IWMI's Rewater MENA expected_outcomes. IWMI-MENA office under the CGIAR Regional Integrated Initiative "From Fragility to Resilience in Central Asia and West Asia and North Africa (F2R-CWANA)" is convening a high level side event to present policy recommendations; showcase success stories and lessons learned from across the region and make use of cutting-edge scientific evidence developed to date by IWMI and partners around the world to advise Egypt policies on water reuse barriers in and beyond the agricultural sector under the Nexus framework. The expected_outcomes of this dialogue will contribute to the development of policy note to advise policymakers on multiple aspects to enhance water productivity through reuse and better integration towards successful nexus implementation in Egypt and the region. This includes innovation, financing, policy tools, interventions, regulation, and standards development related to reuse-nexus in MENA. Water reuse within the WEFE nexus: Developing water reuse projects with a nexus perspective can deliver multiple benefits with a single intervention. For example, if we transition from wastewater treatment plants that dispose treated effluents to the environment to bio-refineries that recover water and nutrients for food production and biogas for energy generation we can maximize the returns on investment in water reuse. Another nexus example is the use of recycled water to produce food and energy crops. Such type of Nexus reuse directly contributes to food and energy security, but also can reduce the removal and collection of biomasses (for heating and cooking) and thus protect ecosystems. The replication and scaling of these types of examples will bring multiple dividends in MENA countries."

For more information:

https://platform.cairowaterweek.eg/sessions/61

S.S.2.2: Support Co-Benefits of Water Management Adaptation Actions and Economic Growth-Part 2

(Open)

Convener(s): MWRI

Al Qalaa Ballroom

11:30 - 13:00

The theme of Co-benefits of Water Management Adaptation Actions and Economic Growth attracted the biggest number research papers. The broad scope and depth of the theme provided an opportunity to present a wide variety of topics to the extent that one session time-slot became obviously not enough to present all the submitted quality research. Therefore, session 2 will split over two time slots. Topics to be presented include findings of several interesting research work. Just as few examples, nano-membranes for removal of heavy metals and microbes from water resources, ultra-sonication treatment for saline groundwater, and highly efficient coagulation/flocculation process of contaminated raw surface water.

For more information:

https://platform.cairowaterweek.eg/sessions/108

T.S.2.8: Egypt Sea Level Rise Hackathon (Launching event): Impacts and adaption options to cope with accelerated sea level rise

(Open)

Convener(s): Deltares – IPDC – JCAR – ECCADP

Al Qahira B Ballromm

14:00 – 17:30

The primary objective of this Hackathon is to explore the challenges and adaptation pathways for climate-resilient socio-economic development in the Nile Delta and Egyptian Coast under rapid economic growth and accelerated sea-level rise. In this event, we launch the Policy Hackathon and engage with stakeholders from different sectors. We will commence with a brief introduction consisting of three presentations. Subsequently, delve into the concept of a hackathon, share insights from our past hackathon experiences, and provide an overview of the current landscape of Sea-Level Rise (SLR)-related studies and strategic plans in Egypt. Following these presentations, a panel

discussion will take place to facilitate in-depth discourse on these topics. In the second session of the event, we will engage with experts and stakeholders to co-create the scope and focus of the main Hackathon event (early next year). We will join forces with decision-makers and experts to explore the challenges posed by various SLR scenarios across different sectors. The discussion will take the form of brainstorming on thematic topics (discussion tables). Together, we will identify potential adaptation pathways for addressing these challenges effectively.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/136

H.L.2.3: AWARe 1st Steering Committee Meeting

(Closed by Invitation)

Convener(s): MWRI

AL QAHIRA D,E Ballroom

14:00 - 15:30

Since the adoption of the first international water action initiative in the history of climate conferences, which is the initiative of the COP27 Egyptian presidency titled “Action on Water Adaptation and Resilience (AWARe)”, in partnership with many international organizations, huge efforts have been made to engage more countries and stakeholders from Africa and developing regions to further advance the implementation of the initiative.

The UN 2023 Water Conference presented a critical juncture to promote the linkages between the water and climate agendas, where AWARe was endorsed as one of the key outcomes of the third Interactive dialogue on Water and climate at the UN Conference.

Continued efforts to help developing countries adapt to climate change became essential requirements for the planet’s survival. The dilemma of providing the necessary climate financing to help developing countries implement adaptation/mitigation projects to climate change impacts that hinders the development endeavors of many countries. The international water community employs extreme efforts to harness finance for climate & water interconnected activities.

The AWARe initiative is a promising mechanisms through which adaptation efforts can be achieved in the water sector. Its Demand driven nature enables smooth channeling of climate financing given the well-tailored and comprehensive governance that ensure inclusivity of all partners in decision making. AWARe initiative consists of six work streams covering the multiple themes of Water Resources Management amid changing Climate (Document and short presentation are Attached)

To this end, COP27 Presidency in collaboration with the Ministry of Water Resources and Irrigation are inviting the interested organizations and countries to attend the 1st meeting of the steering committee to discuss the main outcome of the water actions in COP27 ”AWARe” and shed light and its operationalization as a Game-Changer in the Water Action Agenda to support the implementation of the relevant SDGs of the 2030 Agenda.

The Steering Committee (SC) of the AWARe is mandated with a major role mainly: follow up on the progress made and provide strategic guidance; lead structuring the way forward and take important decisions to further develop the next steps to fully operationalize AWARe.

The SC consists of founding members, as well as countries and international organizations who expressed their support during and post COP27. Regional and International partners are invited to support the joint efforts to build on the achievements particularly the link to loss and damage fund in the water sector.

The SC meeting will also serve as a preparatory session for advancement of the water agenda at COP28, discuss national, regional, and global challenges and define key action areas.

Translation: English/Arabic/French

For more information:

https://platform.cairowaterweek.eg/sessions/93

T.S.2.9: Harnessing Open Access Data and Earth Observation Technologies to Tackle Water Scarcity: A Data-Driven Approach *(Open)*

Convener(s): FAO

Alf Lila We Lila C Ballroom

14:00 - 15:30

" The Near East and North Africa (NENA) region faces significant water scarcity challenges, resulting from a combination of factors, including climate change, population growth, unsustainable water management practices, and limited access to reliable data. Adequate water resource management and effective decision-making require accurate and timely information on water availability and usage. Traditional data collection methods often fall short in providing comprehensive and up-to-date data on water resources, leading to data gaps and hindering effective water management efforts. The technical session aims to explore how the integration of (Open)-access remote sensing data, earth observation (EO) cloud computing platforms, and analysis-ready big data can help address water scarcity-related issues in the NENA region. The session will focus on showcasing the potential of remote sensing technology in monitoring water resources, assessing agricultural water consumption, and filling data gaps in the water-scarce NENA region. Key Objectives include: – Introduce participants to cutting-edge earth observation-related technologies (cloud computing analysis platforms, (Open) access big data platforms, mobile applications, etc.) in the context of water resource management. – Share success stories and case studies illustrating the use of EO to address water scarcity challenges. – Launch the "Remote Sensing Determination of Evapotranspiration" publication. – Facilitate knowledge exchange and discussions among experts, researchers, and stakeholders on the potential of earth observation for addressing water scarcity issues."

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/69

T.S.2.10: Wetlands Adaptation and Resilience to Climate Change along the Nile: Bridging between Wetlands Ecosystems and Communities Livelihoods *(Open)*

Convener(s): NBCBN

Co-Convener(s): Cap-Net UNDP - IHE-Delft

Heliopolis Ballroom

14:00 - 15:30

"Many ecosystems worldwide face severe degradation leading to biodiversity loss and the impairment or disruption of ecosystem functions and services. Terrestrial, freshwater, and marine ecosystems and their biodiversity underpin sustainable development and human well-being in Africa. Moreover, Africa hosts some of the unique wetlands ecosystems in the world, especially those allocated in the Nile basin. Wetlands play a crucial role in the Nile Basin ecosystem, supporting a high level of biodiversity and providing numerous ecosystem services. However, these ecosystems are vulnerable to climate impacts, which can have significant consequences for both the wetlands themselves and the biodiversity they support. Climate change is leading to rising temperatures, altered precipitation patterns, and increased frequency and intensity of extreme weather events in many regions, including the Nile basin. These changes can have various effects on wetlands and their biodiversity. Hence, there is a necessity to support the conservation, development and resilience of these ecosystems and of the communities living around them, to maintain the sustainability of the environmental services, to ensure water and food security, and to sustain and conserve the wealth of biodiversity. Sharing knowledge, resources, and best practices can help develop effective strategies for the conservation and sustainable management of wetlands and their biodiversity and to ensure the livelihoods of communities living in these ecosystems. The session will display different case studies and real experiences from wetlands in Nile Basin countries and their adaptation practices to the climate change impacts, their eco-services, and their communities' resilience measures."

For more information:

https://platform.cairowaterweek.eg/sessions/57

DAY 3: 31 OCTOBER 2023

P.S.3.1: Green Water for Restoring Freshwater Ecosystems and Adapting to Changing Climates

(Open)

Convener(s): MWRI

Co-Convener(s): UNESCO

AL QAHIRA C,D,E Ballroom 09:30 - 11:00

The session will highlight how Green water is accounted for in developing national utilization plans, adaptation and mitigation strategies, and protecting, and restoring freshwater ecosystems. green water can be mismanaged or used unproductively. In addition, the wise and productive use of green water has the potential to reduce demands on blue water. Because of this, green water must be accounted for, if its potential contribution to the productivity, restoration, and sustainability of freshwater ecosystems is to be understood and optimized – not least in the context of nature-based solutions.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/89

T.S.3.1: JCAR: Evidence-based decision making in water management – the role of applied research

(Open)

Convener(s): Deltares – NWRC – SWERI – Wageningen University and Research

AL QAHIRA B Ballroom

09:30 - 17:30

On the 31st of October 2023 between 9:30 - 5:30pm the Joint Cooperation of Applied Research (JCAR) project will be hosting 4 diverse sessions around evidence-based decision-making in water management and the role of applied research. Session 1 - 9:30 – 11:00 am - "Performance Enhancement of Pumping Stations for Irrigation & drainage (PEPSI): Asset management to improve decision-making." Session 2: 11:30 – 1:00pm - "Assessing the effects of irrigation improvement through an integrated quantification framework." Session 3: 2:00- 3:30 pm - "Towards Safe Coasts in Egypt." Session 4: 4:00 – 5:30pm - "'The role of women in Egyptian agriculture and water management – how much knowledge do we have?"

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/47

S.E.3.1: EU-UfM -AfDB Water investment forum

(Closed by invitation)

Convener(s): EU

Co-Convener(s): UFM - African Development Bank

Alf Lila We Lila A Ballroom 09:30 - 15:30

Overall objective of the Annual conferences aims to enhance water security in the Mediterranean and Africa by providing a platform for policymakers and stakeholders to discuss and improve water finance and investment policies.

Specific objectives:

- To identify how efforts to define, assess and apply the water-energy-food-environment (WEFE) nexus concept take into account finance and investment issues in the Mediterranean and Africa.
- To explore what efforts are Mediterranean and African countries making to apply a WEFE nexus approach through water investment policies, plans, programs and projects.
- To promote peer learning among IFIs regarding efforts to apply a WEFE nexus approach to investment projects, and to identify how they are currently supported or undermined by national policy frameworks.
- The WEFE nexus approach aims to utilize

green and sustainable finance to facilitate the transformation of the water sector.
- To seek input to identify best practices on applying a WEFE nexus approach to water investment planning and financing, and recommendations on how to advance the water finance and investments agenda.
- To seek high level guidance on water finance and investment topics in national and regional dialogues around the WEFE nexus.

Translation: English/French/Arabic

For more information:
https://platform.cairowaterweek.eg/sessions/42

T.S.3.2: A multi-dimensional and coordinated response to cope with drought challenge to achieve food security in the Arab region *(Open)*

Convener(s): **FAO**
Co-Convener(s): **LAS**
Alf Lila We Lila C Ballroom
09:30 - 11:00

"The Near East and North Africa region is facing adverse effects of drought. In a water-scarce landscape, drought episodes are expected to be more recurrent, intense, and with longer duration because of Climate Change. Drought is defined by the World Meteorological Organization as a "prolonged dry period in the natural climate cycle that can occur anywhere in the world. It is a slow-onset phenomenon caused by a lack of rainfall. Compounding factors, such as poverty and inappropriate land use, increase vulnerability to drought". Effects of drought on ecosystems in the Arab region are more visible with direct impact on food security, health, and population displacement. Although crisis-driven actions are important, more integrated and proactive medium and long-term strategies are needed to cope with drought effects. A systemic approach considering different drought-related dimensions is crucial to ensure effective, coordinated, and ad hoc actions leading to better humanitarian responses in affected Arab countries. These dimensions could consider national-specific context, policy, food production systems, socioeconomic conditions, and many others. Data-based approaches are being conducted by the international development community to inform drought monitoring under different climate scenarios. These approaches aim to support effective responses at the country level through an efficient early warning system. Designing integrated strategies to cope with drought at the national level in the Arab region remains an important challenge where many dimensions are crucial such as policy coherence between relevant sectors, availability of adapted finance schemes, adequate national technical capacities, socio-economic considerations, etc."

Translation: English/Arabic

For more information:
https://platform.cairowaterweek.eg/sessions/70

T.S.3.3: Water Supply and Wastewater Management *(Open)*

Convener(s): **GIZ**
Co-Convener(s): **HCWW**
Abdeen Ballroom
09:30 - 11:00

"Nile Delta Water Management Program (NDWMP) Implemented by the German International Cooperation Agency (GIZ) and Commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ). The comprehensive approach by the Nile Delta Water Management Program (NDWMP) includes the subsectors water supply and wastewater management and irrigated agriculture. Benefitting from several decades of experience in this field, NDWM combines upscaling successful approaches with developing innovative measures. Capacity development as well as promoting digitalization are the cornerstones of the project's activities. This session will showcase the actions taken by NDWMP in coordination with its stakeholders in terms of water, wastewater management and sludge management."

Translation: English/Arabic

For more information:
https://platform.cairowaterweek.eg/sessions/49

S.E.3.2: Launch of the policy paper ''Expanding Water Reuse in MENA'' *(Open)*

Convener(s): **IWMI**

Co-Convener(s): **AWC – FAO – LAS – SIDA – CEDARE – ACWUA - AOAD**

Heliopolis Ballroom

09:30 - 11:00

Water reuse can help tackle the water scarcity problems of the region, which have been exacerbated by climate change. It also has the potential to play an important role in water resources management to lessen the present and long-term demand-supply imbalance. The successful and efficient use of treated water in agriculture will depend on its reliability, in quantity and quality, as an alternative source of water for irrigation. In this side event, the newly launched policy report about ''Expanding Wastewater Reuse in MENA'' will be officially introduced. This knowledge product of the ReWater MENA Project unveils and discuss solutions to overcome the factors that limit the materialization of the regional full water reuse potential, including cultural barriers and distrust; institutional fragmentation; inadequate regulatory frameworks; and the lack of appropriate tariffs, economic incentives and financial models that undermine cost recovery and the sustainability of reuse projects.

For more information:

https://platform.cairowaterweek.eg/sessions/63

T.S.3.4: Egyptian Chinese University (ECU) Role in serving the community through its international cooperation with Prima Foundation *(Open)*

Convener(s): **the EU-Prima funded project "Safeguarding the livelihood of rural communities and the environment in the Mediterranean through Nature-based Solutions (Mara-Mediterra)"**

Co-Convener(s): **(ECU)**

Qalaa Ballroom

09:30 - 11:00

"The Egyptian Chinese University (ECU) is considered as the first technological, productive and nontraditional university based on productivity and techniques. ECU contributes to establish factories, workshops, and transferring technology. It helps to create a second class of entrepreneurs and push young people into self-employment for highly trained graduates. Along it research plan, comes international cooperation that ECU values the most towards serving the community and supporting its students with the most updated technologies and ideas. ECU is the sole Egyptian partner in the EU-Prima funded project "Safeguarding the livelihood of rural communities and the environment in the Mediterranean through Nature-based Solutions (Mara-Mediterra)". This project is an important international activity implemented under Prima foundation with partnership from 7 Mediterranean countries and coordinated by Greece. The current session is foreseen to present and discuss about the ECU role in serving the community through different activities and specifically Mara-Mediterra project, its interventions, and expected expected_ outcomes and benefits at the different levels. Session Objective The main objective of the current session is to present the vital role of ECU at the different levels (socioeconomic – academia – research – entrepreneurship). In addition, an important international ECU cooperation project (Mara-Mediterra) will be presented in a detailed fashion as an honorable example. It is foreseen that this session will last for one and half hour."

For more information:

https://platform.cairowaterweek.eg/sessions/73

DAY 3: 31 OCTOBER 2023

S.E.3.3: Round Table on Supporting Policy Development for Integrated Water Management in OIC Member States *(Open)*

Convener(s): IOFS - INWRDAM

Maadi Ballroom

09:30 - 15:30

The round table will focus on "Supporting Policy Development for Integrated Water Management." As water scarcity and quality issues become more critical with climate change, population growth, and economic development, there is an increasing need for integrated policies and strategies. The event's objective is to examine how such policies can be formulated and implemented effectively and to explore the role of different stakeholders in this process.

The discussions will consider various facets of integrated water management. These include, but are not limited to, the legal and regulatory frameworks, technological innovations, financial mechanisms, capacity building, and public participation. The event will also provide an opportunity to exchange experiences and best practices among different countries and regions. The round table will also identify ways to enhance cooperation among OIC Member States and with other international entities. It will promote the sharing of knowledge and expertise and foster partnerships for addressing common water challenges.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/119

S.E.3.4: 6th African Young Water Professional Forum *(Closed By Invitation)*

Convener(s): ICID – AFRWG – ESCWA – ICARDA – GWP-MED – IWMI – ACSAD – UNCCD

Virtual

9:30 - 13:00

The 6th Af-YWPF Building on the success of five editions of African Young Water Professional Forum's, which were organized under the platform of CWW, it gives the pleasure and honor to International Commission on Irrigation and Drainage and the African Regional Working Group to continue the success and to organize the 6th AfYWP-Forum in collaboration with Cairo Water Week, October 29th-2nd November, 2023 virtually due to the limitation in financial support for this year. The 6th Af-YWP Forum will be organized Virtually during 30 October – November 1, 2023 and in 3 days training workshops to cover some important topics related to the themes of CWW and to the training needs assessment of African young professionals under the theme " Actions on the climate change impacts and sustainability of irrigated agricultural".

For more information:

https://platform.cairowaterweek.eg/sessions/123

H.S.3.1: Refugee's water rights in water-scarce countries and its implication on SDGs

(Open)

Convener(s): MWRI

AL QAHIRA D,E Ballroom

11:30 - 13:00

The session aims to focus on the water aspect related to refugee issues in water-scarce countries on the sidelines of Cairo Water Week in its sixth edition to learn about the latest developments in this file and its impact on the ability of governments to achieve sustainable development goals.

- The international dimensions associated with refugee issues and the role of the international community and international organizations in providing support
- Discussing lessons learned from some regional cases in dealing with refugee problems
- Proposing aspects and areas of cooperation in alleviating the severity of the water crisis resulting from hosting refugees, implementing the provisions of the New York Charter on the Rights of Refugees, and sharing international responsibility for the asylum file.
- Proposals to provide support and grants to the government that suffers from additional water stress due to the refugee situation, implement development projects, and provide low-cost loans for adequate financing to ensure that refugee problems don't spread to regional and continental levels, and prevent illegal immigration.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/96

W.S.3.1: Improved Groundwater Management in the Arab Region through Enhanced Data and Information Access and Innovative Technologies

(Open)

Convener(s): ESCWA

Co-Convener(s): ACSAD

AL QAHIRA C Ballroom

11:30 - 17:30

The United Nations Economic and Social Commission for Western Asia (ESCWA) is supporting Arab States in improving their water security by strengthening their capacities for the sustainable management of groundwater resources. This is supported by the development of the Arab Groundwater Knowledge Platform which aims to improve access to groundwater relevant data and information. The Platform will build on existing regional and national data sets that will be complemented by innovations in water technologies, geospatial analysis and remote sensing tools that can be used for monitoring, managing and reporting on scarce water resources.

The objective of this workshop is to strengthen the capacity of ESCWA Member Countries to achieve integrated and sustainable management of groundwater with focus on enhancing data and information access and innovative technologies. National focal points will be informed of the updates made to the Arab Groundwater Knowledge Platform, the update of the hydrogeological map of the Arab region being executed in partnership with ACSAD, the hydrogeological data received from countries, and the national workshops that will be conducted to implement pilot case studies on the use of GRACE analysis, remote sensing tools and modeling of impacts of climate change on groundwater.

Translation: English/French/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/78

T.S.3.5: Climate –Resilient Water Systems and Infrastructure for Sustainable Agriculture

(Open)

Convener(s): FAO

Co-Convener(s): LAS

Alf Lila We Lila C Ballroom ,

11:30 - 13:00

This session will explore the role of climate–resilient water systems and infrastructure in achieving sustainable agriculture and improving rural livelihoods. The session will showcase successful climate-proofed interventions and inclusive water management models that prove to be successful in improving resilience against climate extreme events with a pro-poor focus on water access and sustainability. It will also emphasize the role of innovative practices that combine public, private, research and community partnerships and can lead to real behavioral changes toward sustainable agrifood-systems and enhanced conservation of scarce water resources.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/68

T.S.3.6: Efficient Water Management in Irrigated Agriculture

(Open)

Convener(s): The German International Cooperation Agency GIZ

Co-Convener(s): Ministry of Agriculture and Land Reclamatio - Project Management Unit - Plug and Grow - AgriCash

Abdeen Ballroom

11:30 - 13:00

“Nile Delta Water Management Program (NDWMP) is implemented by the German International Cooperation Agency GIZ , Commissioned by German Federal Ministry for Economic Cooperation and Development (BMZ). The comprehensive approach by (NDWMP) includes the subsector of irrigated agriculture. Benefitting from several decades of experience in this field, NDWM combines upscaling successful approaches with developing innovative measures.

Capacity development as well as promoting digitalization are the cornerstones of the project’s activities. This session will provide an exhibition of key activities supporting end-users to adopt water efficient technologies and innovative measures in irrigation”.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/50

T.S. 3.7: Climate Adaptive Water Productivity Management: Building Coherence across Food, Water, and Land Policies

(Open)

Convener(s): IWMI

Co-Convener(s): MWRI – IFPRI – World Fish – Ministry of Social Solidarity

Heliopolis Ballroom

11:30 - 13:00

The need to make food, land, and water systems more productive, resilient, and responsive to growing demand — and future shocks — in a rapidly changing global context has never been greater. Some countries experience rapid economic development often driven by urban areas, but many parts of society continue to experience food and nutrition insecurity, income poverty, inequality and economic marginalization. And while economic development and urbanization offers great opportunities, macroeconomic challenges, climate change and other demographic and social changes continue to pose risks to countries’ development. Addressing these challenges requires in-country analytical capacity, strong institutions, and decisive and effective policy action. In Egypt, one of the focus areas of the CGIAR’s National Policies and Strategies (NPS) is to to improve the lives of people by identifying ways of building stronger policies and strategies governing the Water, Food and Land systems with greater coherence and capacity, helping the relevant stakeholders to increase water productivity in the face of climate change.

For more information:

https://platform.cairowaterweek.eg/sessions/64

S.S.3.1: Green Water for Restoring Freshwater Ecosystems and Adapting to Changing Climates

(Open)

Convener(s): MWRI

Qalaa Ballroom

11:30 - 13:00

Water is the natural resource most affected by climate change. Thus, research on green water for restoring freshwater ecosystems to adapt to climate change receives attention of the scientific community. In this session, researchers will share their research findings on several related topics including: using green water to increase crop productivity in sub-Saharan Africa, visualizing and quantifying the effect of rigid bank weeds on the flow parameters, biofloc systems for sustainable production of economically important aquatic species, and Water productivity for date and olive in Palestine.

For more information:

https://platform.cairowaterweek.eg/sessions/104

S.E.3.4: Water Reclamation/Desalination Expert Meeting

(Open)

Convener(s): UNDP - (MWRI)

AL QAHIRA D,E Ballroom

14:00 - 15:30

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/97

T.S.3.8: Enhancing Sustainable Agriculture: FAO's Irrigation Projects in Egypt - A Focus on Achievements and Future Pathways

(Open)

Convener(s): FAO

Co-Convener(s): MWRI - ICARDA

Alf Lila We Lila C Ballroom

14:00 - 15:30

"Egypt is confronted with substantial challenges stemming from water scarcity, a predicament exacerbated by its heavy reliance on the Nile River as a primary water source. This confluence of factors is further compounded by the nation's burgeoning population and the escalating demands of the agricultural sector, which collectively exert immense strain on the available water resources. In the contemporary context, it is imperative to amplify crop yields per unit of irrigation water, a necessity dictated by the pressing requirements of food security. Within the Egyptian agricultural sector, the communities face many challenges, including water scarcity and the fragmentation of arable land. These challenges have the unfortunate consequence of eroding the gains achieved through concerted efforts. In response to this complex scenario, there exist a variety of strategic pathways that can be pursued to surmount the prevailing challenges. Among these avenues, a pivotal approach involves the transition toward modern irrigation techniques, thoughtfully aligned with the unique contours of the country's regulatory framework. Concurrently, the judicious utilization of Comprehensive Soil and Water Management (CSWM) tools offers the potential for enhanced operation and management of agricultural processes, contributing to more efficient resource utilization. Furthermore, integrating environmentally friendly methodologies such as solar energy into agricultural practices presents a compelling opportunity to mitigate the impact of these challenges. It is within this overarching context that FAO-Egypt is implementing a project centering its efforts on the deployment of analogous practices and tools with the explicit objective of augmenting water productivity within the agricultural domain. FAO's irrigation projects aim to address these challenges by implementing

sustainable and efficient irrigation systems. The Food and Agriculture Organization (FAO) has been involved in several irrigation projects in Egypt aiming to enhancing agricultural productivity, water management, and sustainable development. This session will highlight the initial results and expected_outcomes from the new projects and provide a discussion platform for the different stakeholders and partners. the projects under discussion include the following: a. The project on "Enhancement of Agricultural Productivity," OSRO/EGY/041/JPN, is an emergency project supported by the government of Japan. The project aims to help vulnerable agricultural households in Upper Egypt and the Nile Delta regions of Egypt, who are threatened by climate change and insufficient water supplies, to become more resilient and less dependent on government assistance. This project is expected to enhance the use of water for farming, increase agricultural production for smallholder farmers, increase incomes, and provide impoverished rural households with economic opportunities. The project will work towards achieving increased crop yields per unit of irrigation water used over time and improving food security and income generation in selected Haya Karima villages of Minya, Qena, and Kafr El Sheikh Governorates through the upscaling of tested and validated modern irrigation technologies (such as solar-powered pumps and hybrid (low energy drip and/or sprinkler) irrigation systems), climate-smart water management (CSWM) practices, and good agricultural practice (GAP) principles. b. Government of the Netherlands funded project "Modernization of Irrigation Techniques to Improve the Livelihoods of Smallholder Farmers in Upper Egypt" GCP/EGY/038/NET, which contribute to improving the livelihoods and resilience of vulnerable rural people in the Upper Egypt Region. This contribution will be achieved by improving agricultural productivity through:
(i) smallholder farmers transforming from inefficient conventional irrigation practices to collective farming systems and modern irrigation techniques – while adapting to climate change and variability – that include innovative and improved cropping systems.

(ii) agrifood value chain actors increasing their effectiveness to support the more efficient irrigation systems and increased agricultural production."

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/72

T.S.3.9: Water_Energy -Food Nexus, Challenges and Opportunities *(Open)*

Convener(s): **The German International Cooperation Agency GIZ**

Co-Convener(s): **RCREEE – PRIMA – Noornation - AWC**

Noornation

Abdeen Ballroom

14:00 - 15:30

The Interlinkage between Water, Energy and Food is a key approach towards efficient recourses management and avoiding tradeoffs. This session will provide an overview of the WEF Nexus approach ,capacity building projects and case studies from across MENA region.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/51

T.S.3.10: Accounting for Green water: Water adaptation actions towards COP28 *(Open)*

Convener(s): **UNESCO**

Co-Convener(s): **MWRI**

Heliopolis Ballroom

14:00 - 15:30

Promoting cooperation and interlinkages between water and climate action through highlighting international and regional expertise in green water accounting and estimation, towards designing and cooperative capacity building programmes in support of Member States accounting of green water into their national adaptation actions.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/66

البنك الزراعي المصري
Agricultural Bank of Egypt

We value our land and will always preserve it

The Agricultural Bank of Egypt promotes environmental sustainability in Egypt, it contributes to achieving the nation's goal to reduce carbon emissions by financing and increasing projects in agricultural areas; and to convert to modern irrigation methods and encourage the use of renewable energy.

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DAY 4: 1 NOVEMBER 2023

P.S.4.1: Improving Early Warning Systems for Severe Weather Events and Prolonged Droughts

(Open)

Convener(s): MWRI

Sponsored by: UNDP

AL QAHIRA C,D,E Ballroom

09:30 - 11:00

The session will highlight a comprehensive input regarding the generation of more suitable and operative drought indices, and enhance the probabilistic flood forecasting systems, integrating several tools to implement a powerful Early Warning System. Besides, putting this knowledge to work and developing information tools based on technologies that are basic for the management of flood and drought risk, and will do this in close collaboration with the stakeholders and end-users to ensure an adequate uptake of the new products developed.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/90

H.L.4.1: The Fifth Meeting of the High-Level Joint Water-Agriculture Technical Committee of the League of Arab States

Convener(s): LAS - AOAD

Co-Convener(s): FAO - ESCWA

Al QAHIRA B Ballroom 9:30 - 17:30

The fifth annual meeting of the High-Level Joint Water-Agriculture Technical Committee (HLJTC) of the League of Arab States will be organized by the Joint Technical Secretariat, comprising the technical secretariat of the Arab Ministerial Water Council and the Arab Organization for Agricultural Development (AOAD), in coordination and with the support of the Food and Agriculture Organization of the United Nations-Regional Office for the Near East and North Africa (FAO), and the Economic and Social Commission for Western Asia (ESCWA).

Translation: English/French/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/125

S.E.4.1: "Aqua Dialogues: Youth Debates on Global Water Challenges"/EU-Water Talks

(Closed by invitation)

Convener(s): EU

Alf Lila We Lila A Ballroom

09:30 - 17:30

The "EU Aqua Dialogues with Youth" event, scheduled for 1/11/2023, is a forward-thinking initiative crafted to bridge the gap between established leaders in the water sector and the upcoming generation. Central to its objectives is the intent to engage with young visionaries, providing them a platform to voice their unique perspectives, innovative ideas, and actionable water management and conservation solutions. Foreseen results from this dialogue include the amalgamation of fresh insights into policy-making and project implementation, fostering a more inclusive and adaptive approach to water challenges. By targeting young enthusiasts, scholars, and budding professionals, this event seeks to harness the dynamism of youth, ensuring that their vision and energy play an instrumental role in shaping the future of water management.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/79

T.S.4.1: Capacity Development to Foster Sustainable Management of Water Resources in Egypt and in the Region: the Water Knowledge Project

(Open)

Convener(s): CIHEAM - Bari

Co-Convener(s): RCTWS

Alf Lila We Lila C Ballroom

09:30 - 11:00

Falling within the National Egyptian Strategy 2030 for sustainable development, the Egyptian-Italian Water Training Programme is an initiative that contributes to foster a sustainable management and common shared vision of water resources use in Egypt and in the region.

Through a comprehensive capacity development program, Water Knowledge addresses the Technical, Environmental, Institutional & Socio-Economic dimensions of Water Resources Planning and Management and targets the Regional Training Center for Water Resources and Irrigation to become a National and Regional hub for training services, and Officials from Egyptian Ministries and institutions, Arab Countries and African Neighborhood Countries.

This technical session will:

- Discuss the "Conditions for Success" in capacity development.
- Highlight the potential of the capacity development to bring the scientific knowledge to institutions and decision-makers for the purposes of a new governance of a more resilient water ecosystem.
- Emphasize the factors to be addressed to make the capacity development process sustainable.

For more information:
https://platform.cairowaterweek.eg/sessions/101

S.E.4.2: WES in Egypt: consultations with Stakeholders:

a) Assisting Egypt in developing financial mechanisms for the management of water resources at on-farm level (9:30-13:00)

b)overview and the way forward at national level for the period 2024-2028 (14:00-16:00)

(Open)

Convener(s): WES

Abdeen Ballroom 09:30 - 17:30

As part of the activity entitled "Assist Egypt in developing financing mechanisms allowing the private sector to improve water efficiency at the on-farm level", implemented by the EU funded 'Water and Environment Support (WES) project, a workshop on the side of the CWW is organised in partnership with the Egyptian Ministry of Water Resources and Irrigation (MWRI).

The activity aims to assist Egypt in developing financing mechanisms to support farmers in purchasing water-saving equipment. Three profound case studies of countries with significant reforms related to financing irrigation equipment were evaluated and recommendations were made for the application of selected financing methods. The workshop will be used to present the findings and proposed practices to the participants.

Translation: English/Arabic

For more information:
https://platform.cairowaterweek.eg/sessions/46

T.S.4.2: Water-Energy-Food-Environment Nexus for Enhanced Climate Resilience in Mena Region

(Open)

Convener(s): ICARDA

Co-Convener(s): AWC

Heliopolis Ballroom

09:30 - 11:00

"MENA is a water scarce, food deficient, energy intensive region and highly vulnerable to the impacts of climate change. The WEFE Nexus approach has the potential to resolve conflicts between vital sectors such as water, agriculture, and energy, and bring them to collaborate for better livelihoods of the populations of the region. Efforts in field of WEFE nexus 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 on-farm WEFE Nexus parameters in MENA such as ultra-low energy (ULE) drip irrigation, agrivoltaic systems, raised bed machinery (RBM), conservation agriculture, and water harvesting. The session will involve presentations and panel discussion around linkages between water, energy, and food on the farm level and the cross-sectoral coordination on the basin level in the region. The session will present a diagnosis for farm performance combining water, energy, food, and ecology pillars in several farms representing different irrigation systems and agroecological conditions using an on-farm WEFE nexus index as a quantitative measure."

For more information:
https://platform.cairowaterweek.eg/sessions/55

DAY 4: 1 NOVEMBER 2023

S.E. 4.3: 6th African Young Water Professional Forum

(Closed By Invitation)

Convener(s): ICID – AFRWG – ESCWA – ICARDA – GWP-MED – IWMI – ACSAD – UNCCD

Virtual 9:30 - 13:00

The 6th Af-YWPF Building on the success of five editions of African Young Water Professional Forum's, which were organized under the platform of CWW, it gives the pleasure and honor to International Commission on Irrigation and Drainage and the African Regional Working Group to continue the success and to organize the 6th AfYWP-Forum in collaboration with Cairo Water Week, October 29th-2nd November, 2023 virtually due to the limitation in financial support for this year. The 6th Af-YWP Forum will be organized Virtually during 30 October – November 1, 2023 and in 3 days training workshops to cover some important topics related to the themes of CWW and to the training needs assessment of African young professionals under the theme " Actions on the climate change impacts and sustainability of irrigated agricultural".

For more information:

https://platform.cairowaterweek.eg/sessions/123

H.L.4.2: Follow-up Interactive Dialogue 3: Water for Climate, Resilience and Environment of the 2023 UN Conference on the Midterm Comprehensive Review of the Water Action Decade

(Open)

Convener(s): MWRI

AL QAHIRA D,E Ballroom

11:30 – 15:30

Starting up a " UN Water ID3 Follow-up Session" as a series of these events, chaired by the government of Egypt and Japan, where several member states and international organizations will report on the progress of their commitments so that follow-up can take place. MWRI, on behalf of the Egyptian Government, took the initiative and pledged the first side event during CWW2023 titled "Follow-up Interactive Dialogue 3: Water for Climate, Resilience and Environment". This side event will comprise a plenary session to propose a follow-up mechanism and seek to turn the tide on cross-sectoral implementation of the water and climate-related goals and targets of the 2030 Agenda for Sustainable Development. The side event will discuss these national, regional, and global challenges and define key action areas and potential cooperation to support policy recommendations and enhance the implementation of water and climate-related SDGs as an important contribution to the 2023 UN Mid-term Review Conference.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/112

W.S.4.1: The GCF project in Egypt. Status of the ICZM plan.

(Open)

Convener(s): ECCADP

Co-Convener(s): UNDP

Alf Lila We Lila C Ballroom

11:30 - 13:00

"In this session the status of the integrated coastal zone management (ICZM) plan will be given as follows:

1- presentation of the proposed institutional setup
2- presentation on the progress of the establishment of the National Observation System 3- presentation of the modelling work
4- Way forward"

For more information:

https://platform.cairowaterweek.eg/sessions/67

T.S.4.3: Digital Applications for Improved Water Resources Management

(Open)

Convener(s): **ICARDA**

Co-Convener(s): **National Authority for Remote Sensing and Space Sciences**

Heliopolis Ballroom

11:30 - 13:00

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 NARSS 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.

For more information:

https://platform.cairowaterweek.eg/sessions/56

S.S.4.1: Improving Early Warning Systems for Severe Weather Events and Prolonged Droughts

(Open)

Convener(s): **MWRI**

Qalaa Ballroom

11:30 - 13:00

Sever climate events such as high temperature waves, heavy rains, floods and drought became common all over the world. Improving early warning systems is now a world-wide priority to protect lives and properties. In this session, researchers and organizations will present the latest of knowledge they have. This includes for example: harnessing Satellite services to reduce flood risk – a WMO's contribution, development of Intensity-Duration-Frequency Curves for hydrologic design in Egypt, and mitigating flash floods and urban floods approach to implementing a flood early warning system in Nigeria, and a road map for Alexandria against drown possibilities.

For more information:

https://platform.cairowaterweek.eg/sessions/105

T.S.4.4: The Roadmap Towards Sustainable Capacity Development of Africa's Water Sector: Experiences from Networks, Alliances and Partnerships

(Open)

Convener(s): **NBCBN Foundation**

Co-Convener(s): **Cap-Net UNDP - IHE-Delft**

Heliopolis Ballroom

14:00 - 15:30

Addressing water resource challenges in Africa are fundamental to realizing progress towards meeting the UN 2030 Sustainable Development Goals. Effectively addressing water security on the continental level requires moving beyond short-term projects where capacity building is a result or just a component in a project, in favor of long-term processes that favor regional integrated approaches to strengthening technical and science capacities and advancing integrated learning. The co-joint multisector partnerships that capacity building networks can bring through engaging academia, policy, NGO's, private sector, and other stakeholders for re-thinking of research and training designs and developing new structures which are essential for capacity development within Africa's water sector. This session will focus on highlighting the African challenges of the water sector and the needs for capacity development innovative and sustainable programs. Examples from the African networks experiences and contributions to capacity development of the water sector will be presented and a road map to the future will be discussed.

For more information:

https://platform.cairowaterweek.eg/sessions/58

S.S.4.2: Poster Sessions – Part 1 *(Open)*

Convener(s): **Ministry of Water Resources and Irrigation- Egypt**

Maadi Ballroom

14:00 – 15:30

The challenge of available time for oral presentations over the 5-days of the CWW2023 could not let the Organizing Committee overlook many interesting research work submitted for presentation. About 30 studies will be presented as posters in two successive sessions. The first session will be devoted to poster presentations related to theme 3: Support Co-Benefits of Water Management Adaptation Actions and Economic Growth. The second session will include a mix of poster presentations related to the rest of the CWW2023 themes. Participants are encouraged to stop-by and speak with the authors.

For more information:

https://platform.cairowaterweek.eg/sessions/142

H.L.4.4: African event: On the Road to the 10th World Water Forum *(Open)*

Convener(s): **MWRI**

AL QAHIRA D,E Ballroom

16:00 - 17:30

For Africa, as we draw closer to the target year of Africa Water Vision, the 10th WWF serves as a pivotal platform for shaping the post-2025 framework and aggregating input to refine the continent's water landscape. The successor framework for the Africa Water Vision 2025 will need to take into account the emerging challenges and increased demand for water and sanitation services.

Given that AMCOW is playing the role of coordination of the African Regional Process , Egypt as AMCOW President seized the opportunity of the Cairo Water Week as a Milestone on WWF 10 timeline, to organize a high level Event at the Cairo Water Week Conference, as one of the preparatory meetings on the Road to Bali to gather the messages of African countries that they want to send to the world through the 10th World Water Forum, to be held in Bali, Indonesia, during the period (18-24) May 2024, under the title "WATER FOR SHARED PROSPERITY"

This High-Level Event will comprise a plenary session to propose African messages to the international water community regarding the implementation of the water and climate-related goals and targets of the 2030 Agenda for Sustainable Development. The HL event will discuss these national, regional, and global challenges and define key action areas and potential cooperation to support policy recommendations and enhance the implementation of water and climate-related SDGs as an essential contribution to the 10th WWF outcomes.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/100

W.S.4.2: Adaptation to climate change through the water-energy nexus in Egypt *(Open)*

Convener(s): **MALR – DRC – EDRC - TICO**

Co-Convener(s): **University of Strathclyde Glasgow - England**

Heliopolis Ballroom

16:00 - 17:30

"The fast growing development in Egypt has required big movements of investments and people from the Nile Valley towards the east, with the fantastic Red Sea and Sinai coastal zones, and also towards the Western Desert that has promising brackish groundwater potentialities. In both cases, fresh water supply is essential and desalination is a feasible option that can cover the wide gap between the available capacities and the accelerating demands. The cost of desalination is decreasing in recent times due to the developments in desalination technologies and desalination is now able to successfully compete with conventional water resources for potable water supplies. On the other hand, prices of fossil fuels have increased considerably during the last five years and the same trend may continue. Therefore, the use of renewable energy for desalination may be cost-effective. The suitability of renewable energy technologies, especially wind turbines and photovoltaics, for reverse osmosis (RO) desalination systems is due to the fact that RO is suitable for desalinating small amounts of water for remote and isolated areas; it has low energy consumption and little need for maintenance. Small capacity desalination units utilizing the Reverse osmosis (RO) technology and powered by photovoltaic (PV) cells, represent an ideal solution for providing freshwater to small

communities in isolated arid areas with high solar irradiation and having access to the sea or brackish water. The greatest benefit from this projects is helping poor people in this region and improving the standard of its living."

For more information:
https://platform.cairowaterweek.eg/sessions/45

S.S.4.3: Poster Sessions – Part 2

(Open)

Convener(s): MWRI

Maadi Ballroom

16:00 – 17:30

The challenge of available time for oral presentations over the 5-days of the CWW2023 could not let the Organizing Committee overlook many interesting research work submitted for presentation. About 30 studies will be presented as posters in two successive sessions. The first session will be devoted to poster presentations related to theme 3: Support Co-Benefits of Water Management Adaptation Actions and Economic Growth. The second session will include a mix of poster presentations related to the rest of the CWW2023 themes. Participants are encouraged to stop-by and speak with the authors.

For more information:
https://platform.cairowaterweek.eg/sessions/107

DAY 5: 2 NOVEMBER 2023

P.S.5.1: Integration of Climate and Water Policies with National Sustainable Development Visions.

(Open)

Convener(s): MWRI

Sponsored by: EU

AL QAHIRA C,D,E Ballroom

09:30 - 11:00

The session will highlight the integrated water and climate approach recognizing the role of water for informed decision-making in climate change mitigation and adaptation action. Also, it will Link water resources policies with national climate action to reflect climate change's long-term impacts on water resources and demand and to support preparedness and adaptation measures.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/91

T.S.5.1: The National Drainage Programme 3 in the context of the Joint Integrated Sector Approach in the Irrigation Sector (NDP3/JISA)

(Open)

Convener(s): MWRI - EPADP

Co-Convener(s): EU – KFW - Deutsche Zusammenarbeit – Mott MacDonald

Abdeen Ballroom

09:30 - 11:00

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. NDP3 is a key part of the government's Water Resources Development Strategy that seeks to optimize water use and improve the efficiency of the drainage systems. The goal of NDP3, implemented by the Egyptian Public Authority for Drainage Projects (EPADP) of MWRI, is to achieve socio-economic development in Egypt through generating and strengthening sustainable economic activity by improving agricultural performance. NDP3 is also considered the top investment priority in the framework of the operationalization of the Joint Integrated Sector Approach (JISA), which is the main donor co-ordination mechanism aiming 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 (MWRI) of the Government of Egypt.

Translation: English/Arabic

For more information:

https://platform.cairowaterweek.eg/sessions/130

W.S.5.1: Research for Water Sector Adaptation to Climate Change

(Closed by invitation)

Convener(s): ASRT

Alf Lila We Lila A Ballroom

09:30 - 13:00

Climate Change is bringing great challenges to Egypt manifested by extreme weather events, increased water scarcity and sea level rise. This will put Egypt's food security, economy, environment and social life at great risk which threats the countries chances to achieve sustainable development. Adaptation to the different manifestations of climate change is a strategic objective for Egypt. The water sector, being the most affected sector by climate change, is mobilizing all possible resources to build more resilience and flexibility through implementing sufficient adaptation capacity. Research and technology is a key player to embark on effective adaptation measures. The workshop will report and share findings of an extensive study that identified, documented and analyzed the research work and studies carried out by many research institutions in Egypt. The study identified also technical and

institutional gaps that need further attention by the climate-water adaptation scientific research.

For more information:
https://platform.cairowaterweek.eg/sessions/40

T.S. 5.2: Advances in managing water resources, exploration, and contamination evaluation.

(Open)

Convener(s): Academy of Scientific Research and Techlogy - National Research Institute of Astromy and Geophysics

Alf Lila We Lila C Ballroom

11:30 - 13:00

FRESHWATER MANAGEMENT in CONTEXT of climate change: case STUDY NILE BASIN
-Evaluation of surface and ground water using integrated recent satellite
-Geophysical and geodetic techniques to determine the Saltwater intrusion at the NILE Delta
-Groundwater Resources in Egypt: Exploration and MANAGEMENT
-Assessment of Groundwater Contamination techniques."

For more information:
https://platform.cairowaterweek.eg/sessions/39

TS 5.3: Strengthening WASH Systems for a Water Secure MENA Region

(Open)

Convener(s): UNICEF

Co-Convener(s): SIWI - LAS

Abdeen Ballroom

11:30 - 13:00

"Strengthening WASH Systems for a Water Secure MENA Region" aims to explore the governance tools and good practices utilized to enhance WASH systems in MENA region. Drawing on the 2022 in-depth assessment conducted by SIWI and UNICEF, the session will present case studies from different countries, showcasing successful approaches to governance and highlighting the importance of effective implementation strategies, regulations and financing mechanisms in MENA region, where water scarcity and climate change pose significant challenges, it is crucial to have robust governance frameworks that ensure the provision of sustainable WASH services. These frameworks encompass various aspects, including national policies, financial systems, institutional arrangements, and monitoring mechanisms. The assessment conducted by SIWI and UNICEF shed light on the existing gaps and opportunities within the region's WASH systems, emphasizing the importance of strengthening governance approaches to build upon the assessment's findings, this session will present case studies and discuss good practices from different countries in the MENA region. These case studies will showcase successful initiatives and innovative approaches employed to strengthen WASH systems. Examples of such practices could include the establishment of effective regulatory frameworks, the implementation of financial mechanisms for sustainable funding, the engagement of relevant stakeholders, and capacity-building initiatives.

Translation: English/Arabic

For more information:
https://platform.cairowaterweek.eg/sessions/41

S.S.5.1: Integration of Climate and Water Resources Policies with the National Sustainable Development Vision.

(Open)

Convener(s): MWRI

Qalaa Ballroom

11:30 - 13:00

Achieving the World's Sustainable Development Goals (SDGs) is representing a great challenge due to the recent economic developments brought by the COVID-19 epidemic followed by Russian-Ukraine war. This uneasy situation requires integration of water resources policies with the national sustainable development vision. Researchers will tell the audience about their options to do so. As an example one will present an assessment of potential improvement of crop productivity and water use efficiency to sustain future crop production of major crops in Egypt. Another will speak about a co-creation strategy for resilient (coastal) arid areas. Additional interesting topics will be presented.

For more information:
https://platform.cairowaterweek.eg/sessions/106

DAY 5: 2 NOVEMBER 2023

CLOSING CEREMONY

Alqahira Ballroom
From 14:00 to 15:30

14:00- 14:10 **Master of Ceremony- Opening Speech.**

14:10- 14:20 **Dr. Elena Manaenkova, Deputy-Secretary-General, World Metrologica Organization WMO.**

14:20- 14:30 **Amb. Christian Berger, Ambassador and Head of the EU Delegation to Egypt.**

14:30- 15:00 **H.E. Prof. Dr. Hani Sewilam, Egyptian Minister of Water Resources and Irrigation.**

15:00- 15:30 **Honoring the winners of Competitions.**

GALA DINNER

(By Invitation Only)

The Cairo Water Week 2023 Gala Dinner is set to be a spectacular event, taking place on the 30th of October amidst the breathtaking backdrop of the Giza Pyramids Sound and Light Show, where the evening's festivities will commence. This exclusive event promises an enchanting evening celebrating water conservation, with the ancient wonders of the pyramids as a magnificent backdrop, creating a memorable experience for all attendees.

COMPETITION

C.S.2.1: Best Water Conservation Practices

Organized by: MWRI
Sponsored by: FAO
Qalaa Ballroom,
16:00- 17:30
(30th October 2023)

The Ministry of Water Resources and Irrigation has proudly initiated the sixth edition of the National Competition for Water Conservation "Best Farmers Practices " This vibrant competition is dedicated to championing water-saving endeavors, with a focus on acknowledging the commendable efforts of farmers and water user associations committed to preserving this vital resource.

Having concluded on June 10, 2023, the submission phase witnessed an enthusiastic response, resulting in a remarkable total of 407 participants engaging in the competition. Presently, the dedicated panel of judges is diligently evaluating these entries, poised to illuminate and celebrate the most impactful and efficient water-saving approaches

C.S.3.1: The Three Minutes Thesis (3MT)

Organized by: **MWRI**
Sponsored by: FAO
Alf Lila We Lila C Ballroom
16:00- 17:30
(31st October 2023)

The University of Queensland introduced the Three-Minute Thesis (3MT) competition, which was warmly embraced by the Cairo Water Week in 2019.
This unique contest challenges students to condense their thesis topic and its real-world impact into a brief three-minute talk, accessible to non-specialized audiences. Postgraduate researchers specializing in water-related fields were cordially invited to share their passion and insights with a diverse crowd. As the submission deadline (Closed) on July 1, 2023, an enthusiastic response emerged, with 30 participants hailing from 15 Egyptian and international universities, collectively representing a mix of 30 master's and doctoral candidates. Presently, the competition's judging committee is actively evaluating the submissions, poised to recognize outstanding contributions.

C.S.4.1: EBTIKAR

Organized by: MWRI
Sponsored by: UNESCO
Qalaa Ballroom,
14:00 - 15:30
(1st November 2023)

In a groundbreaking initiative, we present "Ebtikar Award," which aims to reward innovative practical solutions to water management challenges and conservation as a sustainable resource in Egypt. We eagerly await creative ideas addressing topics like recycling agricultural drainage water, utilizing Nile and aquatic plants, solid waste recycling, floodwater utilization, modern irrigation systems, coastal protection, and developing mobile applications for water management, among others. This competition is (Open) to participants of all ages and educational backgrounds, encouraging diversity in problem- solving.

COMPETITION

C.S.5.1: The Best Graduation Project Competition

Organized by: **Ministry of Water Resources and Irrigation- Egypt (MWRI)**
Sponsored by: **European Union (EU)**
AL QAHIRA B Ballroom,
11:30 - 13:00
(2nd November 2023)

Since CWW's first edition in 2018, the Best Graduation Project (BGP) Competition has been one of the major events of the conference. The BGP Competition aim is to inspire and encourage creativity among university students for graduation projects in the field of sustainable development, especially in the water sector, striving to increase active participation from the younger generation in water-related issues. The competition targets graduate of the academic year 2022/2023 from both government and private universities, with their projects being linked to climate adaptation and water sustainability, encompassing all disciplines as long as the project pertains to water resource development as a natural asset.

C.S.5.2: Young Water Inventors Competition

Organized by: **Ministry of Water Resources and Irrigation- Egypt (MWRI)**
Sponsored by: **Food and Agriculture Organization (FAO)**
The United Nations Educational, Scientific and Cultural Organization - UNESCO (UNESCO Cairo)
AL QAHIRA C Ballroom,
11:30 - 13:00
(2nd November 2023)

Aligned with the pivotal objective of nurturing a heightened understanding of water challenges within the younger generation, this competition was introduced as an essential feature of the Cairo Water Week 2023 events. Students aged 15 to 19 from Egyptian STEM schools, who have engaged in water-related scientific projects, were enthusiastically invited to participate. Submissions, which concluded on July 2, drew a remarkable response with a total of 160 entries spanning across 26 Egyptian governorates. This platform provides students with a valuable opportunity to exhibit their discoveries, encouraging critical thinking and collaborative talent, whether working independently or in teams. Currently, the diligent Competition Judge committee is carefully evaluating the submitted projects, poised to recognize, and approve outstanding contributions.

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EXHIBITION

Running concurrently with the Cairo Water Week proceedings from October 29th to November 2nd, 2023, the CWW2023 Expo is set to unfold at the venue of the conference. This presents an exceptional platform for both public and private entities within the water sector, alongside affiliated businesses and industries, to showcase their initiatives, programs, and products. The expo also serves as a catalyst for fostering innovative concepts and cutting-edge technologies across the waterrelated domain, encompassing areas like desalination, renewable energy, and water conservation.

https://www.cairowaterweek.eg/exhibition/

Premium Exhibition

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CAIRO WATER WEEK

GENERAL INFORMATION

Airport

The Cairo International Airport (code: CIA) is Cairo's main international airport; it is located in the north-eastern part of the city, about 15 kilometers from the City's business area; it functions as the main hub for most Airlines. The meeting venue (The Nile Ritz Carlton) is around 19 kilometers away from Cairo International Airport. For more information please visit: www.cairo-airport.info/

Visa

Most foreign nationals need a visa to travel to Egypt. Citizens of just 10 countries and territories can visit visa-free for a limited time. Tourists can apply for an Egypt visa online. They must be from one of the 74 eligible countries and meet Egypt's eVisa requirements. For more information kindly visit www.visa-egypt.com

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: 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.

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/

Currency Exchange

Exchange rate is around 1 USD = XXXX EGP and 1 EURO = XXXX EGP as of date DD/MM/YYYY. The Central Bank of the Arab Republic of Egypt provides the most recent exchange rate values on its website:
http://www.cbe.org.eg.
The daily published exchange rates can be used to exchange foreign money at the airport, hotels, currency exchange businesses, and all banks. ATMs can be found in supermarkets, shopping malls, and even on the streets, in addition to banks. The quantity of foreign currency that can be brought in is limited and should not exceed US$ 10,000.

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.

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.

Local Time

Cairo is GMT + 2 hours ahead of GMT.

ABOUT Egypt

Egypt, a land steeped in history, invites travelers with its captivating mix of ancient marvels and modern treasures. Nestled along the legendary Nile River, this timeless destination is like a living history book. From the astonishing Pyramids of Giza, showcasing the brilliance of the pharaohs, to the mystical temples of Luxor and the bustling markets of Cairo, every corner of Egypt tells stories of its rich past. Yet, Egypt's charm extends beyond its historical heritage; the serene oases of the Western Desert and the crystal-clear waters of the Red Sea offer tranquility and adventure. So, embark on a journey through time and culture in Egypt, where the past gracefully intertwines with the present.

Egypt Culture

Egypt's culture is a captivating blend of history and modernity. With roots tracing back to ancient times, Egypt's cultural heritage is as enduring as its famous pyramids. From the bustling markets of Cairo to the melodious strains of Arabic music, from the flavorsome dishes of Egyptian cuisine to the intricate craftsmanship of traditional arts, every facet of Egyptian culture is a delight for the senses. Egyptians are renowned for their warm hospitality, treating strangers like old friends. The Nile River, the lifeblood of the country, has deeply influenced art, music, and daily life. In Egypt, culture isn't just something to observe; it's an immersive journey into a nation's heart and soul that has made a lasting impact on the world.

Egypt's Lifeline: The Ever-Flowing Nile

Throughout history, the Nile River has been Egypt's steadfast companion, sustaining this ancient land through the passage of time. As the world's longest river, it winds its way through Egypt, nourishing its fertile banks with life-giving waters. In a land where the desert dominates, the Nile's annual flood, as reliable as the stars, brought prosperity to both pharaohs and farmers, fostering a great civilization. Today, in modern Egypt, the Nile continues to be the nation's lifeblood, providing water for farming, support for communities, and a source of beauty and inspiration for all who appreciate its timeless grace. The river's tale is Egypt's own, a lasting narrative of resilience, abundance, and the unbreakable connection between a people and their cherished waters.

“Engineering the Nile: Egypt’s Water Marvels and Oasis”

- Egypt’s water infrastructure stands as a testament to both its historical ingenuity and modern ambition. The High Aswan Dam, a monumental engineering feat, not only tames the mighty Nile’s unpredictable floods but also provides a steady flow of life-giving water and electricity to Egypt’s growing population. It’s a symbol of stability in a land where the river’s embrace has always been both a blessing and a challenge.

- The New Assuit Barrage is another remarkable addition, enhancing Egypt’s control over the Nile’s flow, improving irrigation, and bolstering agriculture in the region. It’s a modern marvel that ensures a more secure future for the country’s breadbasket.

- In the heart of the Egyptian desert, the Bahr al-Baqar wastewater treatment plant shines as a beacon of environmental responsibility. It purifies wastewater, conserving precious water resources and safeguarding the delicate balance of Egypt’s ecosystems.

- Meanwhile, Siwa Oasis, located in Egypt’s tranquil heart, is abuzz with ongoing development projects. These transformations aim to enhance its infrastructure and preserve its unique cultural heritage. From eco-friendly resorts harmoniously blending with the natural surroundings to initiatives promoting sustainable tourism, these projects not only protect the oasis’s pristine beauty but also create new opportunities for both locals and visitors to enjoy this hidden gem in Egypt’s western desert.

- Together, these endeavors illustrate Egypt’s steadfast commitment to harnessing the power of the Nile for a sustainable and prosperous future.

TECHNICAL TOURS

Full Day Tours

27th of October 2023

T.T 1.1: Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project (ECCADP)

(Closed by Invitation)

Lead Convener: ECCADP

Description:

Nature-based solutions are getting more and more common in many sectors including coastal protection. They are usually low cost and environment-friendly which gives double benefits in terms of spending budget efficiently and also protecting the environment. This trip introduces two examples of Nature-Based Solutions for coastal protection in the Delta area (Kafr Elsheikh governorate). The first example is a pilot that was constructed in 2016 using local materials such as sand and wooden fences. The structure is fascinating, and the visit will show how dynamic is the structure and how can this help to minimize the impacts of sea-level rise on the people, land, and infrastructure. The second site is recently constructed as part of the Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project (ECCADP) which is funded by the Government of Egypt, Green Climate Fund, and the UNDP. The trip will be an enjoyable experience. We encourage you to participate as places are limited.

The Enhancing Climate Change Adaptation in North Coast and Nile Delta Regions in Egypt project (ECCADP) aims at supporting the adaptation efforts in Egypt, particularly in Nile Delta, which the Intergovernmental Panel on Climate Change (IPCC) identifies as one of the world's "extremely" vulnerable deltas in the world

3rd of November 2023

T.T 1.2: Sustainable Energy in Water Irrigation

Registration: will be added soon

Lead Convener: FAO

Description:

A field visit to two sites in Behera Governorate where solar energy has been used for water pumping. The project implemented in the two sites is a pilot experiment in replacing traditional use of fossil energy in water lifting for irrigation by sustainable energy. Beside the environmental benefit from the project, the experiment targeted reducing water loss by evaporation from surface water ways through installing the solar panels over mesqa in one of the sites. The experiment stimulated farmers in the project area to expand in using sustainable energy resources in irrigation. It also supported MWRI in building capacities of technical staff in implementing, operating, and maintaining this new technology.

TOURISTIC TOURS

Pyramids of Giza

These ancient structures are like colossal puzzles waiting to be solved. They are famous worldwide and have stood for thousands of years.

The Egyptian Museum

Located in Cairo, this museum is a time machine filled with very old and fascinating things. It's a great place to learn about Egypt's history.

New Alamin City

This modern city is by the sea and has beautiful beaches. It's a perfect spot for relaxation and fun.

Red Sea

If you like diving or just relaxing on the beach, the Red Sea is the place to be. Its clear waters and vibrant coral reefs are a paradise for underwater explorers.

Luxur and Aswan

These cities are like living history books. You can see ancient temples and take a boat ride on the Nile River, which is really special.

Siwa Oasis

Nestled in the Sahara Desert, this oasis is a calm and peaceful getaway. It's known for its unique culture and soothing hot springs.

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ECU
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SIWI
University of Strathclyde Glasgow
UN HABITAT
Cap-Net

LIST OF ABBREVIATIONS

AC	**Alternating Current**
ACSAD	Arab Center for the Studies of Arid Zones and Dry Lands
AfDB	African Development Bank
AFRWG	African Regional Working Group
AGWA	Alliance for Global Water Adaptation
AI	Artificial Intelligence
AOAD	Arab Organization for Agricultural Development
AWC	Arab Water Council
AWARe	Action for Water Adaptation and Resilience initiative
BGP	Best Graduation Project
BMZ	The German Federal Ministry for Economic Cooperation and Development
CEDARE	Center for Environment and Development for the Arab Region and Europe
CEEBA	Confederation of Egyptian European Business Associations
CGIAR	Consultative Group on International Agricultural Research
CLEQM	Central Laboratory for Environmental Quality Monitoring
COP	Conference of the Parties
CSWM	Comprehensive Soil and Water Management
CWW	Cairo Water Week
DRR	Disaster Risk Reduction
EO	Earth Observations
ECCADP	Enhancing Climate Change Adaptation Project in North Coast and Nile Delta in Egypt
ECU	Egyptian Chinese University
EPADP	Egyptian Public Authority for Drainage Projects
ESCWA	Economic and Social Commission for Western Asia
EU	European Union
EWS	Early Warning Systems
FAO	Food and Agriculture Organization
GAP	Good Agricultural Practice
GCC	Gulf Cooperation Council
GIZ	The German International Cooperation Agency
GWP	Global Water Partnership
GWH	Geneva Water Hub
HCWW	Holding Company of Water and WasteWater
HL	High-Level
HLE	High-Level Event
HLJTC	High-Level Joint Water-Agriculture Technical Committee
ICARDA	International Center for Agricultural Research in the Dry Areas
ICID	International Commission on Irrigation and Drainage
ICZM	Integrated Coastal Zone Management
IDPs	Internally Displaced Persons
IFPRI	International Food Policy Research Institute
IoTs	Internet of Things
IPDC	International Panel of Deltas and Coasts
ISWS	Improving Sustainability of the WASH Sector
IUCN	International Union for Conservation of Nature
IWMI	International Water Management Institute

IWRM	Integrated Water Resources Management
JCAR	Joint Cooperation on Applied Research on Water
JISA	Joint Integrated Sector Approach
KfW	Kreditanstalt für Wiederaufbau
MENA	Middle East and North Africa
ML	Machine Learning
MWRI	Ministry of Water Resources and Irrigation, Egypt
NARSS	National Authority for Remote Sensing and Space Sciences
NBCBN	Nile Basin Capacity Building Network
NDCs	Nationally Determined Contributions
NDP	National Drainage Programme
NDWMP	Nile Delta Water Management Program
NENA	Near East and North Africa
NGO	Non-Governmental Organization
NPS	National Policies and Strategies
NWRC	National Water Research Center
OIC	Organization of Islamic Cooperation
PRIMA	Partnership for Research and Innovation in the Mediterranean Area
PS	Plenary Session
PV	Photovoltaic
RBM	Raised Bed Machinery
RCREEE	Regional Center for Renewable Energy and Energy Efficiency
RO	Reverse Osmosis
SDGs	Sustainable Development Goals
SE	Side Event
SIWI	Stockholm International Water Institute
SS	Scientific Session
TS	Technical Session
UfM	Union of the Mediterranean
ULE	Ultra-Low Energy
UN	United Nations
UNDP	United Nations Development Programme
UNECE	United Nations Economic Commission for Europe
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNICEF	United Nations Children's Fund
UNRWA	United Nations Relief and Works Agency for Palestinian Refugees in the Near East
VNGI	The International Cooperation Agency of the Association of Netherlands Municipalities
WASH	Water, Sanitation, and Hygiene
WEFE	Water-Energy-Food-Environment
WES	Water and Environment Support
WMO	World Meteorological Organization
WRM	Water Resources Management
WSI	Water Scarcity Initiative
3MT	Three-Minute Thesis

CAIRO
WATER WEEK

Looking Forward to Welcoming You at Cairo Water Week 2023!

We are eagerly anticipating your presence at CWW 2023, where a world of innovation, collaboration, and transformative solutions awaits. From 29th October to 2nd November, we'll be immersed in thought-provoking discussions and activities revolving around this year's theme, "Action on Water Adaptation for Sustainability" Your expertise and passion will be invaluable in shaping the future of water sustainability. Secure your spot and get ready to make a lasting impact at CWW 2023!

Contact us

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