INTRODUCTION

Welcome to our latest newsletter—the fourteenth edition, which we hope has kept you updated on our latest news, and has provided you with vital information pertaining water sector in the Arab countries.

Since its official launch in 2009 at Amman, Jordan; ACWUA has expanded its membership network to reach more than 100 utility members from 18 Arab countries, in addition to private sector companies, NGOs and academic institutions along with more than 200 individual members. Furthermore, ACWUA has also developed important partnerships with several international organizations and donors, thus introducing potential opportunities to its members.

In order to sustain knowledge sharing with our esteemed members and partners, we trust this newsletter may be useful to you and your organization in comprehensively projecting the latest regional and international developments in water sector.

Sincerely Yours

ACWUA Secretary General
Eng. Khaldon H. Khashman
ACWUA, as a global center of excellence, will work in partnership with water and wastewater utilities in the Arab countries, on instituting best practices and on building capacities within a high-quality level.

ACWUA is committed to provide all services with high quality, provide safe and healthy working conditions and to protect the environment, which will be achieved through the following:

• Conform with the quality requirements and specifications in all ACWUA matters.
• Provide health and safe working conditions.
• Apply pro-active actions and procedures to eliminate hazards and reduce OHS risks to prevent injury and ill health.
• Commitment to consultation and participation of employees regarding their health and safety.
• Reduction of energy and water consumption.
• Protect the environment and reduce the pollution resulted from ACWUA activities.

In addition, ACWUA is committed to meet all applicable legal and other requirements relevant to Quality, Health, Safety, and Environment.

ACWUA commitment will be achieved through continual improvement by planning and implementing specified and measurable QHSE objectives and to enhance members and other interested parties’ satisfaction.
MISSION

In partnership with the Arab water and wastewater utilities, ACWUA will provide the necessary knowledge and tools for utilities to be a trusted, efficient and effective in providing safe, affordable water and wastewater services.
VISION

To become a global center of excellence for water and wastewater management and know-how.

ACWUA
جمعية العربية لمرافق المياه
Arab Countries Water Utilities Association

GLOBAL CENTER OF EXCELLENCE

YOUR GATE TO THE WORLD
This section lists key strategic objectives planned by ACWUA for the period 2019-2023, while the next section details action plan and targeted indicators for each objective.

**EXPAND ACWUA MEMBERS’ KNOWLEDGE EXCHANGE**

- Improve knowledge exchange with members through consulting activities for members or through partnerships with them using available knowledge/know-how ACWUA Tools (Non-Revenue Water, Technical Sustainable Management (TSM), Wastewater Treatment and Reuse, Energy Efficiency, Water Safety Plan, Benchmarking, comprehensive customer survey and any additional requirements for the members during the life of this Strategic Plan) and pool of experts working with at least 5 members by the year 2023.

- Share outcomes with members through annual report, conferences reports (bi-annual), guidelines/manuals (at least 3 by the year 2023), operation members and outcomes of large projects implemented by ACWUA or members (at least 3 by the year 2023-if eligible projects available).

**IMPROVE MEMBERS’ COMMUNICATION**

- Update the assessment of members needs annually from the year 2020 to accommodate their internal and external factors changes.

- Continue the implementation of the ACWUA approved “Marketing Strategy & Communication Plan” to improve ACWUA marketing and members’ promotion by the year 2023.

- Expand members base by at least 20% with more focus on individuals and private sector in cooperation with member utilities.

- Continuous networking through bi-annual Arab Water Week, and partnership with members interested in organizing a thematic conference by sharing knowledge and experience.

- Respond to members’ utilities requests (or suggest) at least 3 twinning/match making activities by the year 2023 subject to funds availability.

- Build an internal mechanism to connect ACWUA members from the private sector and utilities to transfer the knowledge and new business opportunities by the year 2021.

**IMPROVE ACWUA EFFICIENCY AND EFFECTIVENESS**

- Update the organizational structure to accommodate current and future needs of ACWUA and its members in the year 2019.

- Achieve cost recovery (Net Income adjusted for depreciation) by the year 2023 with a maximum of 10% variance (calculated based on net revenue) to assure sustainability.
The Memorandum of Understanding between the Arab Union of Electricity and the Arab Countries Water Utilities Association (ACWUA) was renewed on Monday 05th July, 2021. The purpose of this MoU is to establish and continue cooperation and coordination between the two parties in the fields of water and energy sectors, as the scope of cooperation between the two institutions included the development of Training programs and their implementation for the employees of the two institutions and working together to find funding sources to develop these programs in addition to marketing the services and programs of the two parties in the field of training, consultancy and studies.

The memorandum was signed at the headquarters of ACWUA as represented by its Secretary General, H.E. Eng. Khaldoun Khashman, and the Arab Electricity Union represented by its Secretary General, H.E. Eng. Nasser Al-Mohannadi.
ACWUA participated 5th Arab Water Forum on 21-23 of September, 2021 in Dubai, UAE. AWF was convened by the Arab Water Council (AWC) and under the patronage of The United Arab Emirates Ministry of Energy and Infrastructure. Where the conference was under the overarching Slogan "Arab Water Security for Peace and Sustainable Development", the 5th AWF is intended to address three main priorities: Arab Water Security; Transboundary Water Cooperation and Water for Sustainable Development including about 14 different topics as well as cross-cutting Means and Tools.
ACWUA participated in the thirteen Meeting of the Arab Ministerial Council where the meeting comprised Ministerial and technical meetings for the Housing, environment and water resources Technical Advisory Committee. This meeting was convened by Water League of Arab States, the economic sector - Department of Environment, held between 14th to 18th of November 2021 in Cairo, Egypt.

During the meeting Arab Ministerial Council welcomed the proposed cooperation between the Arab Water Utilities Association (ACWUA) and UN-Habitat to follow up on achieving the 2030 Sustainable Development Goals in the field of sanitation 6.3 and invited the ministries of water in the Arab countries to nominate contact officers to cooperate with ACWUA and members of ACWUA’s board of directors in their countries in order to obtain necessary data and approved them.
ACWUA, represented by H.E. Eng. Khaldon Khashman, participated in APSU Conference for Dam Safety on 13-14 of November, 2021. Where the conference was under the Slogan: “International Cooperation & Experiences Exchange, Base & Starting Point for Enhancing Dams Safety in Iraq”. This conference aims to develop dam safety procedures within the framework of scientific research and methodologies that keep pace with development in the world. In addition, it aims to allow researchers and employees to exchange scientific views and benefit from experiences to increase knowledge and achieve the anticipated benefit in this field.
Memorandum of understanding was signed on Sunday 17th October 2021, between the Arab countries water utilities association (ACWUA) representative by H.E. Eng. Khaldon Khashman and APSU representative by Mr. Ali Atharie. This MoU aims to establish the rule of cooperation in technical consultations, training and capacity building and exchange of experiences in the field of management and operation in the water and wastewater sector.
ACWUA in collaboration with GWOPA/UN-Habitat was co-convening a session for water utilities in the MENA region at the 4th Global WOPs Congress that was taking place. The Session on “Promoting WOPs to address water scarcity in the MENA region” took place on Wednesday, 27th October 2021.
ACWUA 2021 | 2ND HALF
TRAINING WORKSHOPS
The Association of Boards of Certification

ACWUA certified programs developed within the international standards, which were technically reviewed and accredited by (Technical and Vocational Skills Development (Tvscd), Association of Boards of Certification (ABC), Umwelt bundesamt (UBA) and International expert (IWA and World Bank)).

INTERNATIONAL STANDARDS

The Association of Boards of Certification

ACWUA certified programs developed within the international standards, which were technically reviewed and accredited by (Technical and Vocational Skills Development (Tvscd), Association of Boards of Certification (ABC), Umwelt bundesamt (UBA) and International expert (IWA and World Bank)).

Technical and Vocational Skills Development Commission

Tvscd Vision:
Manpower with vocational and technical experience and skills, that meets the needs of the labor market, and capable to participate in entrepreneurial projects.

The Technical and Vocational Skills Development Commission (Tvscd) was established in 2019. Tvscd encouraging all forms of learning, skills development, and recognizing them within the educational system and the labor market, in addition to create new high-level options for TVET in line with the national qualifications’ framework levels. As well as, accrediting the Training Programmes License of vocational and technical training providers by issuance of a document (license) to practice the training, it is one of the most important quality assurance processes for TVET providers, to ensure that the training provider has the clear infrastructure, plans, owns all systems and resources before carrying out
One of ACWUA mandates is to develop resources, facilitate training programs, and advocate for Professional Certification to enable staff of utility members to perform their duties in a professional, reliable and cost-effective manner. ACWUA is providing all kinds of training programs for water and wastewater utilities in different areas, such as: institutional, managerial, technical and financial distributed on different working levels.

ACWUA has trained different levels of utilities staff at top and middle management and operational levels from water and sanitation utilities in the MENA region. Where ACWUA had initiated, developed and implemented 34 new training programs, accredited by the Association of Boards of Certification (ABC) and The Technical and Vocational Skills Development Commission (TVSDC) /Ministry of Labor – Jordan.
WASTEWATER QUALITY AND LABORATORY MANAGEMENT

Under the auspices of Bremen Overseas Research & Development Association (BORDA), the Arab Countries Water Utilities Association (ACWUA) held a training course entitled “Wastewater Quality and laboratory Management- Level 1” which is one of the new certified courses launched by ACWUA recently, as it was held for the first time in the region.

The training was conducted in Aqaba for 25 participants from Water Authority Jordan and Aqaba Water Company from (Tafila, Karak, Ma’an, and Aqaba).
2022 PROJECTS
PR# 1
MIYAHCON PROJECT - HANDED OVER
ACWUA Team handed over SWMS mobile application to the Beqaa Water Establishment (BWE) and the North Lebanese Water establishment (NLWE) through an online session on the date of 16th December 2021. A one day rolling out will take place on January 2022, where ACWUA role will be through virtual supervisor.
PR#2
REWATER MENA PROJECT - FIELD TRIPS

Funded by: SIDA
Egypt Field Trip Report (Wastewater and Reuse site in Egypt (21-23) November):

Within the framework of the REWATER MENA Project, a field visit to some reuse sites in Egypt was organized by the Arab Countries Water Utilities Association (ACWUA) in cooperation with the Holding Company for Water and Wastewater (HCWW) in Egypt. Delegates from Jordan, Morocco, Tunisia, Lebanon, and Egypt participated in the field visit. The visit comprised wastewater treatment plants and the associated reuse sites in which direct and indirect reuse was implemented.

Three of the treatment plants, namely, El Jabal El Asfar and Berka wastewater treatment plants in Cairo and Tezmant wastewater treatment plant in Beni Suef utilize treated wastewater indirectly after mixing with other water sources.

The visited treatment plants in Cairo have a near future plan to divert mixed water (treated wastewater, agricultural drainage, and Nile River water) to the north west of Sinai for agricultural irrigation after being additionally treated in Bahr El Baqar wastewater treatment plants. Additional reuse site in Beni Suef governorate incorporated direct reuse of treated effluent in agricultural production.
Jordan Field Trip Report: Wastewater and Reuse site in Jordan (10-12) October:

Within the framework of the ReWater MENA project, the Arab Countries Water Utilities Association (ACWUA) had organized a field visit to some of wastewater and reuse projects and sites in Jordan.

Participants from Jordan, Egypt, Lebanon, and Iraq had the opportunity to visit three sites operated by Aqaba Water Company (AWC) in the south of Jordan. The sites were selected based on their diverse reuse models. Muta-Mazar site represents the first model in which a family business was developed to utilize the effluent of the treatment plant that serves some settlements in Karak governorate. Effluent was fully utilized in irrigating fodder crops; mainly alfalfa and barely.

Fodder production facility was established and different fodder mixtures were developed, examined and commercially produced for cattle and cow farms. Additionally, milk and dairy products factory was established and all produced quantities are either sold in Karak or/and Amman.

The second reuse model incorporated the establishment of farmers' association to utilize the effluent of Wadi Musa wastewater treatment plant (WWTP) in irrigating fodder crops and fruit trees. This model was unique since it was the first project reported in the region to utilize drip irrigation system in fodder production. The third model consisted of a fit-for-purpose water source with a profit-making project. Different effluent qualities are produced in which the highest water quality is sold to industries, golf courses, and for the municipality of Aqaba for landscaping purposes; while lower water quality produced by natural treatment system is utilized for palm trees. Moreover, a bird observatory was established at the location of the natural treatment system by the Royal Society for Conservation of Nature (RSCN), in which the location is considered as the second important migratory birds' pathway in the world.

During the field visit, participants also shared their home countries experiences in water reuse, particularly crop patterns that might be used to optimize profit. Moreover, a general overview on wastewater treatment and reuse projects was presented by the Egyptian participants and discussions were fostered and highly encouraged.
“THIS PROJECT CAN GIVE NEW LIFE FOR EVERYONE AND VULNERABLE COMMUNITIES”.

DR AMGAD ELMAHDI
HEAD OF IWMI’S MENA OFFICE
Advertisers who want to reach loyal and engaged readers who are passionately interested in water sector, water projects, environment and climate change.

Astonishingly attractive rates for full and half-page advertising in ACWUA's newsletter, from $0.

To find out more, email acwua_secretariat@acwua.org
Digital transformation of the water sectors has already become a game-changer and critical for water security in the Arab region, the most water-scarce region in the world. Digital water technology adoption offers the promise of improving water security, fueling sustained economic development, and providing solutions into everyday operations from customer and asset management, to maximizing operational efficiency and informing smarter, more efficient decision making.

This webinar aims to provide a platform for sharing knowledge and experience on recent developments and advancements in the digitalization of the water sector, exploring its benefits and identifying the enabling and hindrance factors in adopting and scaling the digital solutions for the water sector in the Arab region.
MEMBERSHIP BENEFITS & ANNUAL FEE SYSTEM

WATER UTILITIES (TREATMENT AND DISTRIBUTION) ANNUAL MEMBERSHIP FEE

WATER UTILITIES (TREATMENT OR DISTRIBUTION) ANNUAL MEMBERSHIP FEE
PRIVATE SECTOR COMPANIES ANNUAL MEMBERSHIP FEE

Company Size (Up to 50)
$900
- Having new Business Opportunities
- Free advertisement on ACWUA website and newsletter
- Create your profile on ACWUA website
- Let your logo appear on home page for ACWUA website
- Become part of ACWUA consultation and implementation projects
- Building new partnership with international agencies in water and sanitation sector
- Access to publication and scientific materials
- Having 10% discount on ACWUA events and exhibition
- Having 20% discount for ACWUA certifications programs

Company Size (51 to 300)
$1800
- Having new Business Opportunities
- Free advertisement on ACWUA website and newsletter
- Create your profile on ACWUA website
- Let your logo appear on home page for ACWUA website
- Become part of ACWUA consultation and implementation projects
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- Access to publication and scientific materials
- Having 10% discount on ACWUA events and exhibition
- Having 20% discount for ACWUA certifications programs

Company Size (Over 500)
$3600
- Having new Business Opportunities
- Free advertisement on ACWUA website and newsletter
- Create your profile on ACWUA website
- Let your logo appear on home page for ACWUA website
- Become part of ACWUA consultation and implementation projects
- Building new partnership with international agencies in water and sanitation sector
- Access to publication and scientific materials
- Having 10% discount on ACWUA events and exhibition
- Having 20% discount for ACWUA certifications programs

ASSOCIATES (NGOS AND ACADEMIA) & INDIVIDUALS ANNUAL MEMBERSHIP FEE

NGO’s
$500
- Having new Business Opportunities
- Free advertisement on ACWUA website and newsletter
- Create your profile on ACWUA website
- Let your logo appear on home page for ACWUA website
- Become part of ACWUA consultation and implementation projects
- Building new partnership with international agencies in water and sanitation sector
- Access to publication and scientific materials
- Having 10% discount on ACWUA events and exhibition
- Having 20% discount for ACWUA certifications programs

Academic
$500
- Having new Business Opportunities
- Free advertisement on ACWUA website and newsletter
- Create your profile on ACWUA website
- Let your logo appear on home page for ACWUA website
- Become part of ACWUA consultation and implementation projects
- Building new partnership with international agencies in water and sanitation sector
- Access to publication and scientific materials
- Having 10% discount on ACWUA events and exhibition
- Having 20% discount for ACWUA certifications programs

Regulators Annual Membership Fee
$500
- Having new Business Opportunities
- Free advertisement on ACWUA website and newsletter
- Create your profile on ACWUA website
- Let your logo appear on home page for ACWUA website
- Become part of ACWUA consultation and implementation projects
- Building new partnership with international agencies in water and sanitation sector
- Access to publication and scientific materials
- Having 10% discount on ACWUA events and exhibition
- Having 20% discount for ACWUA certifications programs

Friends of ACWUA (Students Incentives)
$25
- Having new Business Opportunities
- Free advertisement on ACWUA website and newsletter
- Create your profile on ACWUA website
- Let your logo appear on home page for ACWUA website
- Become part of ACWUA consultation and implementation projects
- Building new partnership with international agencies in water and sanitation sector
- Access to publication and scientific materials
- Having 10% discount on ACWUA events and exhibition
- Having 20% discount for ACWUA certifications programs

Freelance Professionals
$100
- Having new Business Opportunities
- Free advertisement on ACWUA website and newsletter
- Create your profile on ACWUA website
- Let your logo appear on home page for ACWUA website
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THANK YOU TO
OUR MEMBERS & PARTNERS
FOR YOUR SUPPORT
WE WOULD LIKE TO WELCOME ACWUA NEW MEMBER: GHD GLOBAL PTY LTD - QATAR