



REPUBLIC OF KENYA



WEEKLY Newsletter

March 1st - March 7th

Partnership Meeting between Kenya Water Institute (KEWI) and Gatundu Water: A Step towards Sustainable Sewer Sanitation.



A team from KEWI and Gatundu Water and Sanitation Company pose for a group photo at the Main Campus, Nairobi after convening a meeting that lead to a fruitful collaboration in order to improve sewer sanitation systems.

BY: BRITNEY MOKEIRA

A significant meeting took place between Kenya Water Institute (KEWI) and Gatundu Water on 6th March 2025, focused on discussing a potential collaboration to improve sewer sanitation systems in the Gatundu area. The key agenda was to explore how KEWI, with its expertise in water and sanitation management, could support Gatundu Water in modernizing and optimizing

its wastewater treatment and sanitation systems. During the meeting, KEWI expressed its commitment to providing technical support in several areas, with a particular emphasis on training on installing bio digesters. These eco-friendly systems not only effectively treat wastewater but also generate biogas, an energy source that can be harnessed to benefit the local community.

In addition to technical assistance, KEWI highlighted

HIGHLIGHTS

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Partnership Meeting between Kenya Water Institute (KEWI) and Gatundu Water: A Step towards Sustainable Sewer Sanitation.

The importance of community engagement and education. They proposed to help sensitize the community about the benefits of bio digesters and proper waste management practices. The need for the creation of a professional development program focused on wastewater management systems, ensuring that local professionals and workers are equipped with the skills needed to operate and maintain these systems effectively was discussed. Furthermore, the partnership would provide KEWI students with practical experience by offering them attachments with Gatundu Water, allowing them to apply

a modern wastewater treatment plant for the Gatundu area. This facility would not only improve wastewater management but also have the potential to convert waste into energy, offering a sustainable solution to the region's sanitation challenges. The proposed plant would serve the larger Gatundu area, significantly improving sanitation and benefiting the local community. The partnership between KEWI and Gatundu Water is seen as an opportunity to bring innovative and sustainable solutions to the region's wastewater management needs.

formalize their collaboration. The MoU would outline the roles and responsibilities of each party, ensuring that the objectives of the partnership are met and that the project progresses smoothly. This collaboration represents a significant step forward in addressing the sanitation challenges in Gatundu and demonstrates how partnerships between educational institutions and local utilities can drive meaningful change. With KEWI's expertise and Gatundu Water's local knowledge, this partnership is poised to bring lasting improvements to the region's wastewater management and sanitation systems, benefiting both the environment and the



KEWI CEO Dr. Leiro Letangule Ph.D., and Gatundu Water MD Mr. Frederick K. Mwangi having a handshake after the meeting.

their academic knowledge in real-world settings and gain valuable hands-on experience in the water and sanitation field.

A key aspect of the meeting was the need for construction of

At the conclusion of the meeting, both teams expressed enthusiasm for the partnership, agreeing to draft a Memorandum of Understanding (MoU) to

community

KEWI Facilitates Short course participants Visit to Dandora Wastewater Treatment Plant.



Participants from Eldoret Water and Sanitation Company during their tour at Dandora Estate Waste Water Treatment Plant.

BY: FAITH GENESIS.

The Kenya Water Institute (KEWI) is dedicated to enhancing the training of its learners by providing hands-on experience in various aspects of water and wastewater management. In line with this commitment, KEWI recently facilitated a visit for short course participants studying Operation and Maintenance sewer Networks system, to the Dandora Estate Wastewater Treatment Plant in Ruai, located east of Nairobi. The objective of this

educational trip was to allow short-course learners to interact with the machinery and processes used in wastewater management, gaining firsthand experience in both physical and biological treatment methods. Wastewater treatment plays a crucial role in protecting human health, safeguarding the environment, and enabling resource recovery. The treatment process at Dandora involves a combination of physical and biological treatments, ensuring that wastewater is

purified before being released back into the environment. This process helps maintain sanitation standards and reduces pollution.

The City Water and Sewerage Company (CWSC) is instrumental in wastewater management through several key responsibilities. It regulates trade effluent discharge by monitoring and controlling industrial and commercial wastewater to ensure compliance with environmental standards. Additionally, CWSC oversees private

exhausters, ensuring that wastewater collection and disposal services adhere to legal requirements. The organization is also responsible for the operation and maintenance of the sewer system, providing exhauster services in non-sewered areas upon request. Furthermore, CWSC manages wastewater treatment plants in Ruai and Kariobangi, along with wastewater ponds in Karen and Kahawa Sukari. Trade effluent refers to wastewater discharged from industrial, commercial, or trade premises,

KEWI Facilitates Short course participants Visit to Dandora Wastewater Treatment Plant.

must obtain an effluent discharge license and an exhauster discharge license, both of which require annual renewal. The discharged wastewater must comply with the standards set forth in the Fifth Schedule of the Environmental Management and Coordination Act (EMCA).

The Nairobi Wastewater Project has yielded several

of water for residents while increasing revenue for CWSC, thereby strengthening the financial sustainability of the water sector.

Beyond its primary function, the Dandora Estate Wastewater Treatment Plant has become an ecological haven. The facility serves as a habitat for various wildlife species, including hippos,

KEWI remains committed to equipping its students with practical knowledge and skills in water and wastewater management. By facilitating field visits such as the one to the Dandora Estate Wastewater Treatment Plant, the institution ensures that learners are well-prepared to address real-world challenges in environmental protection, human health, and



A Sewage Tunnel at the Dandora Estate Waste Water Treatment Plant.

benefits. It has contributed to the supply of sustainable and affordable water while reducing leakages and wastage. The project has also decreased the distance households must travel to access water and sanitation services. By fostering fair competition, the initiative has helped lower the unit price

crocodiles, and diverse bird species. The presence of ponds that facilitate oxygenation and the cleaning of wastewater has created a suitable environment for these animals, adding an unexpected ecological benefit to the plant's operations.

sustainable resource management. As wastewater treatment continues to be a vital component of urban infrastructure, such initiatives significantly contribute to capacity building in the sector.

Institute successfully concludes short course training on Water and Sewer Systems Management.



Trainees from Eldoret Water and Sanitation Company (ELDOWASCO), pose for a group photo after completing their Professional Development Trainings at KEWI Nairobi.

BY: C. KIPTOO

The Kenya Water Institute (KEWI) successfully concluded a comprehensive short course on the Operation and Maintenance of Water Supply Systems and Operation and Maintenance of Sewer Systems and Networks today. The training, which commenced on Monday, February 4th, saw the participation of professionals from Eldoret Water and Sanitation Company, eager to enhance their expertise in water and sewer management.

The Operation and Maintenance of Water Supply Systems course had 10 participants, while 7 participants enrolled in the Operation and Maintenance of Sewer Systems and Networks training. The program was conducted by KEWI's highly skilled trainers and

instructors, who delivered a thorough mix of theoretical knowledge and practical field experiences.

As part of the training, participants engaged in insightful study tours. The team specializing in water supply systems visited the Kabete Water Treatment Plant, managed by the Nairobi Water and Sewerage Company. Here, they were taken through the entire water treatment process, water distribution systems, pipe sizing models, pump sizing, and pressure regulation and calibration. Additionally, they toured the water testing laboratory, where they observed various testing equipment and conducted sample tests of treated water. This visit allowed participants to compare Kabete's systems with their own back home and identify areas for

improvement. The participants in the sewer systems and networks also course toured the Ruai Wastewater Treatment Plant, also managed by Nairobi Water and Sewerage Company. They gained firsthand insight into the sewage treatment process, from raw wastewater reception to its final treatment before safe discharge into the Nairobi River. They were particularly impressed by the automation of the plant, which operates with minimal human interaction through the SCADA (Supervisory Control and Data Acquisition) system, ensuring seamless monitoring and control by skilled technicians.

At the conclusion of the short course, participants expressed satisfaction and appreciation for the training, noting the practical skills acquired would significantly impact their respective roles in the water and sanitation sector.

KEWI continues to offer a wide variety of short courses tailored for water and environmental management professionals. More details can be found on our website www.kewi.go.ke or by contacting us at info@kewi.or.ke.

Staff Spotlight: Engineer Simon Ndeweni's PhD Journey at Wageningen University



Mr Simon Ndeweni during a presentation at Wageningen University.

Since October 2024, Engineer Simon Ndeweni has been attached to Wageningen University & Research, where he embarked on his PhD trajectory. This marks a significant milestone in KEWI's ongoing efforts to enhance staff capacity and foster global collaborations with leading academic and research institutions.

As part of his academic journey, Simon has actively participated in prestigious advanced conferences and training, including Foundations of Inter- and Transdisciplinary Research, Academic and Scientific Writing & Publishing, and The Bigger

Picture. These engagements are equipping him with cutting-edge knowledge, essential skills, and a broader perspective on global water challenges.

One key aspect of his training is the development of interdisciplinary and systems thinking skills. By engaging with experts from diverse fields, he is refining his ability to approach water resource management holistically. His research integrates perspectives from hydrology, GIS & remote sensing, engineering, and environmental management, providing a well-rounded approach to sustainable water solutions.

In addition to technical expertise, Simon is also honing collaboration and negotiation skills, which are crucial for working with stakeholders, policymakers, and researchers. These skills enable him to bridge the gap between scientific research and practical implementation, ensuring that innovative water management strategies are effectively communicated and adopted.

Furthermore, his training in scientific writing and publishing is enhancing his ability to synthesize complex ideas, present research findings effectively, and contribute to global knowledge on sustainable water management. This individual growth strengthens KEWI's capacity to produce high-impact research and drive evidence-based policy decisions in the water sector.

Simon's progress is a testament to KEWI's dedication to continuous learning and strategic partnerships. As he advances in his PhD research, we look forward to the impactful contributions his work will bring to KEWI and the broader water sector.

Grad Eng. Simon Ndeweni

Institute and Equity Bank Limited reaches out to start-ups for a Sanitation Value Chain Workshop



Call for Sanitation Business Ventures.

GROWING YOUR SANITATION BUSINESS

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BY: PIUS KIMANI

Kenya Water Institute (KEWI) is set to organize a one-day Sanitation Value Chain Workshop that will culminate into onboarding in a business development support project implemented by Equity Bank Limited.

Through a call for business ventures placed on its website and which seeks to unlock opportunities at the end of the sanitation value chain, the institute has called out to entrepreneurs or innovators who are passionate about transforming the sanitation

sector and driving sustainable development to apply for the opportunity before the end of February 2025

The call which also targets formal and informal businesses and start-ups that have a scalable solution with a clear business model and a commitment to advancing the Sustainable Development Goals (SDGs) seeks to further identify and promote sustainable, innovative, and practical solutions that transform wastewater management into profitable businesses, contributing to economic growth,

environmental sustainability, and also identify the efficient use of water resources, while emphasizing, resource recovery, recycling, reuse, and safe disposal.

The call is urging the participants to submit businesses that innovatively repurpose wastewater for reuse in agriculture, industry, or municipal purposes, integrate technology to enhance wastewater treatment processes and safe disposal methods, create commercial opportunities that generate income while addressing environmental challenges,



Institute and Equity Bank Limited reaches out to start-ups for a Sanitation Value Chain Workshop



particularly through recycling and resource recovery and contribute to water conservation, recycling, and sustainable water management practices.

Winning participants will qualify for a chance to develop their ideas further at the KEWI Water Technology Innovation & Incubation Hub which will consequently provide access to resources, mentorship, and technical expertise to help scale up the ideas into competitive business ventures.

The call has outlined several key considerations for the participants who are looking for this opportunity to be inducted into the innovation and incubation hub. Among them is such start-ups to be operating within the sanitation value chain, focusing on waste treatment, resource recovery, recycling, reuse, or innovative by-products and demonstrate a

clear alignment with more than one SDG. The start-ups are also required to have a scalable and defensible business model that possess a Minimum Viable Product (MVP) or operational prototype.

Those with innovations and creative models in wastewater management solutions, particularly in recycling, reuse, and safe disposal which are commercially viable and scalable, can pass technical and environmental feasibility and have a wide social impact and sustainability are also encouraged to apply.

Terming it as an opportunity to commercialize ideas and get a chance to give life to innovative and industry-changing ideas in the sanitation sector, the head of the short courses coordination unit in the institute Eng. Nanetia Nchoko has outlined

scores of benefits that will be accrued by those who will attend and get the chance of getting farther attention from the implementing partner.

“Selected ventures will receive among other benefits collateral-Free Financing mentorship, coaching and capacity building from experts in sanitation, finance, and technology and access to investor networks and potential partnerships and key stakeholders in the sanitation and development sectors.” She spoke.

Interested participants and who also stand an opportunity to get business development support and formalization of the informal business venture are required to visit the website www.kewi.go.ke and fill in the application form.

Institute Excels in Friendly Floor ball Match at Meru University.

BY: BRITNEY MOKEIRA



KEWI Female Floor ball team pose for a photo before the game.

The Kenya Water Institute (KEWI) male and female floor ball teams showcased their talent and determination in a thrilling friendly tournament held on March 1st at Meru University. The competition brought together KEWI, Meru University, the National Industrial Training Authority (NITA), and Mukiria Technical Training Institute in a spirited display of teamwork and sportsmanship.

The event provided an excellent platform for the teams to test their skills, foster friendships, and promote the growing sport of floor ball in Kenya. The KEWI teams came into the tournament well-prepared, displaying great energy and strategy throughout the matches.

The KEWI female team delivered an impressive performance, demonstrating

resilience and strong coordination. Competing against formidable opponents, they fought their way to an admirable second-place finish. Their agility and teamwork were evident as they faced off against Meru University, NITA, and Mukiria Technical Training Institute, securing crucial victories that propelled them to the finals.

Though they fell just short of the top spot, their performance was a testament to their dedication and hard work.

On the other hand, the KEWI male team emerged as the undisputed champions of the tournament. They showcased remarkable skill, speed, and tactical play, overpowering their competitors to claim the first position. Their journey to the top was marked by thrilling matches, with each game highlighting their excellent coordination, precise passing, and relentless attacking strategies. The final match saw them put on a dominant display, securing their well-deserved victory.

The friendly tournament was not just about competition; it was an opportunity for the teams to network, learn from each other, and grow the sport of floor ball in Kenya. The event emphasized teamwork, discipline, and the importance of sports in fostering healthy interactions among institutions. The KEWI teams also reaffirmed their commitment to continued training and improvement, aiming for even greater success in future competitions.

With this outstanding performance, KEWI has solidified its position as a formidable force in floor ball. The tournament served as a stepping stone for further growth, and the players are eager to build on their success. Congratulations to the KEWI



Part of the KEWI Male team during a floor ball match.

male and female teams for their exceptional achievements!

Institute Organizes International Knowledge Dissemination Webinars for Water Sector Practitioners, Researchers and Learners

WEBINAR 2

Topic

Non-Revenue Water Reduction through Pressure Management and System Modelling

Date:

March 12th, 2025

Time:

3:00 PM – 4:30 PM EAT

Registration Link:

Visit www.kewi.go.ke

About the webinar

Non-Revenue Water (NRW) is a major challenge in the water sector, leading to significant financial losses and inefficient service delivery. This webinar will feature Carl Yates, President of Yates Water Management Inc. and Chair of the Canadian Water Network, who will share expertise on best practices in NRW reduction.

Key discussion areas will include pressure management and advanced system modelling. Participants will learn about innovative strategies that utilities can adopt to enhance efficiency and revenue recovery.

Why You Should Attend

- Gain expert knowledge from industry leaders in water management.



...In Partnership with



Join us as we host this upcoming

Virtual WEBINAR

Subject: Non-Revenue Water Reduction through Pressure Management and System Modelling



Guest Speaker: Carl Yates
President, Yates Water Management Inc.
Chair of the Canadian Water Network
Director of Operators Without Borders

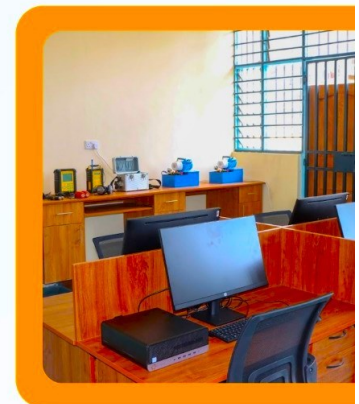


12th March 2025, 3:00 PM – 4:30 PM EAT

Host: Kenya Water Institute, Non - Revenue Water Management Center of Excellence (CoE)

Click here to Register: [Follow this link](#)

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Kenya Water Institute

- Learn about cutting-edge technologies and strategies to improve water service provision.
- Interact with professionals, researchers, and policymakers in the water sector.
- Receive practical guidance on implementing sustainable water solutions.

These webinars reaffirm KEWI's commitment to knowledge dissemination and capacity building in the water sector. Don't miss this opportunity to expand your expertise and contribute to sustainable water management in Kenya and beyond.

For inquiries, contact KEWI at info@kewi.or.ke or visit our website www.kewi.or.ke.

WATER SECTOR JOB FAIR 2025



The Ministry of Water, Sanitation and Irrigation, Kenya Water Institute (KEWI) in partnership with National Employment Authority (NEA) and Association of Skilled Migration Agencies of Kenya (ASMAK) Invites you to the;

WATER SECTOR JOB FAIR 2025

For Water Sector
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Connect with recruiters and explore
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- ✓ Secure Recruitment opportunities

📍 Kenya Water Institute, Nairobi, South C

📅 13th & 14th March, 2025

“Click attached Link to Register”

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KEY COMPONENTS OF THE WATER SECTOR JOB FAIR 2025

Recruitment Agency Spaces for Networking and Engagement; Opportunities for job seekers to engage directly with employers in the water sector and related industries.

Workshops and Panel Discussions: Topics will include skill development by KEWI, industry needs by recruiters, labor migration policies, and safe migration practices by NEA.

Career Guidance and Counseling: Personalized career advisory services to assist job seekers in navigating the labor market.

Information on Safe Migration: In collaboration with ASMAK, the fair will provide insights into safe & legal migration pathways, including job opportunities abroad & protections for migrant workers.

Recognition of Prior Learning (RPL) Demonstrations: Sessions showcasing how formal and experiential skills can be assessed and certified for greater employability.

To register click the link below

<https://shorturl.at/r4SQO>

Call for Environmental Impact Assessment (EIA) & Environmental Audit (EA) Training



REPUBLIC OF KENYA



KENYA WATER INSTITUTE

Fountain of Water Knowledge

Call for Applications

Kenya Water Institute Calls for Applications for its

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Short Course

Course Timelines: March 24th, 2025 - May 2nd, 2025

Mode of Delivery: Blended (Online and Face to Face)

Application Deadline: March 18th, 2025

Non-Residential Cost: Ksh. 50,000

Venue: Kenya Water Institute, Nairobi, South C

"KEWI is a NEMA - Kenya Accredited EIA/EA Training Center."

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16th - 18th April, 2025



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Kenya Water Institute



Quote of the Week

"Our greatest glory is not in never falling, but in rising every time we fall.

Confucius

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Round up of The Week's Events



Trainees from Eldoret Water and Sanitation Companies during the closing ceremony of their Professional Development Trainings.

Long - Term Programmes

Diploma in Water Engineering Technology (DWET) Diploma in Wastewater
 Diploma in Water, Sanitation Engineering Technology (DWSET)
 Diploma in Water Resources Management Technology (DWRMT)
 Diploma in Irrigation and Drainage Engineering Technology (DIDET)
 Diploma in Information Communication Technology (DICT)-KNEC
 Diploma in Water Laboratory Technology (DWLT)
 Certificate in Wastewater and Sanitation Engineering Technology (CWSET)
 Certificate in Water Resources Management Technology (CWRMT)
 Certificate in Information Communication Technology (CICT)- KNEC
 Certificate in Water Laboratory Technology (CWLTL)
 Certificate in Water Engineering Technology (CWET)
 Drilling Operations and Management (DOM)
 Plumbing and Pipe Fitting (PPF)
 Water Operators Course (WOC) in:

- Water Supply
- Meter Reading
- Sewerage Operations

Short - Term Programmes

Use of Earth Observation Tools and GIS for Water Resources Management
 Entrepreneurship and Financial Management for Water Managers
 Operation and Maintenance of Water Supply Networks
 Metering and Installation of Water Supply Networks
 Leak Detection & Repair techniques
 Drilling Operations and Management (DOM)
 Operation & Maintenance of Pumping Stations
 Pump Selection, Installation and Maintenance
 Plumbing, Pipe Fitting and Solar Water Heating
 Instrumentation for Water and Wastewater Systems
 Water Governance, Management and Technology
 Application of GIS for Water Utilities Mapping
 Drilling Operations and Management
 Water Quality Sampling and Testing
 Microbiological Water Quality Assessment
 Integrated Water Resources Management
 Non-Revenue water
 Water Management
 Customer Care

Vision

A Technical Centre of Excellence in Training, Research, Innovation and Consultancy in the water, Sanitation and Irrigation Sector.

Mission

To offer Competency-Based Training, Research, Innovation, Consultancy and Outreach Services in the Water, Sanitation and Irrigation Sector for sustainable development.

Core Values

Good Corporate Governance
Professionalism
Customer Focus
Innovativeness
Inclusivity
Patriotism
Integrity

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Repair of pumps boreholes and distribution systems

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