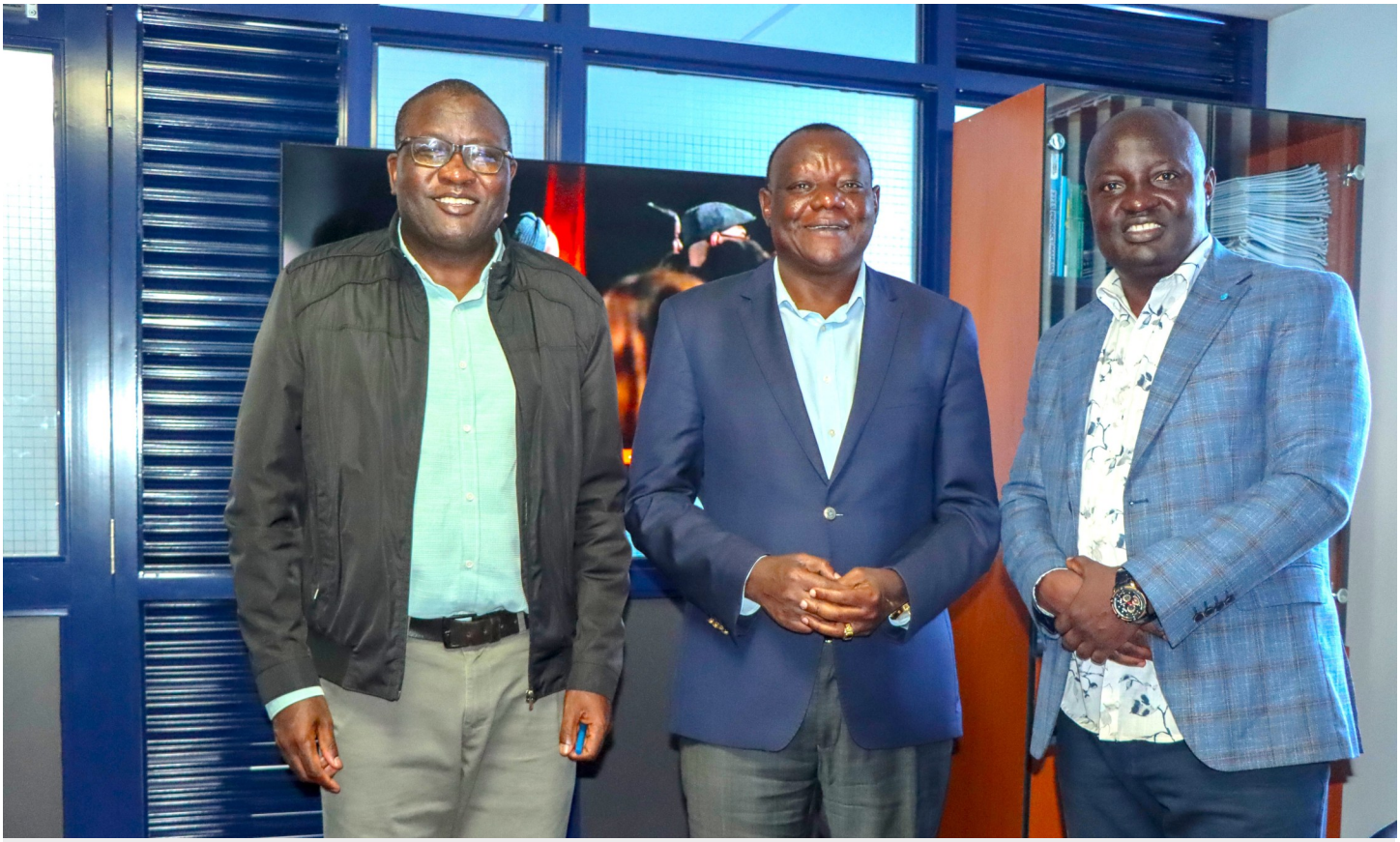
Volume 3 Issue 04

REPUBLIC OF KENYA

WEEKLY Newsletter

February 01– February 07 2025

Former Immediate Deputy Governor Machakos County Visits KEWI For Strategic Collaboration Discussions



Engineer Francis Maliti (Centre), a Senior Advisor on Water Matters to Machakos County Governor poses for photo with Deputy Director Research, Consultancy and Technical Services Mr. Nelson Kwamini (Right) and Deputy Director, Academic Affairs Mr. Eric Wamiti (Left) at KEWI Headquarters. The trio discussed on areas of possible collaboration.

BY: PIUS KIMANI

In what is set a stage for illustrious collaboration between Kenya Water Institute (KEWI) and Machakos County, the institute has hosted Eng. Francis Maliti, the former Deputy Governor of Machakos County and current Advisor to the Governor on water matters, in a significant visit aimed at strengthening partnerships between the institute and the county government.

Eng. Maliti met the Deputy Director Academic Affairs Mr. Eric Wamiti and his Research, Consultancy, and Technical Services counterpart Mr. Nelson Kwamini in a meeting which focused on exploring various areas of collaboration to enhance water service provision in Machakos County.

During the discussions, the trio identified capacity building

HIGHLIGHTS

3 KEWI And WILO East Africa Set Up an Energy Efficiency Lab to Advance Sustainable Water Solutions

5 Digitization: How KEWI E-Citizen Integration is Transforming Water Sector Services in Kenya

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

8 Upcoming Professional Development Program

Former Immediate Deputy Governor Machakos County Visits KEWI For Strategic Collaboration Discussions

Deputy Directors, Mr. Nelson Kwamini and Mr. Eric Wamiti (Seated Right and Left respectively) when they hosted Eng. Francis Maliti (Centre) from Machakos County Government.

for water service providers in the county as a critical area for partnership. They emphasized training on the operation and maintenance of water supply infrastructure and reducing non-revenue water.

KEWI's expertise in these areas will be instrumental in equipping water service providers with the necessary skills to improve service delivery and reduce water losses, which remain a significant challenge in the sector.

A key highlight of the collaboration was the proposed mapping of the 59-kilometer Yatta Canal, constructed in 1959. The canal, which stretches from Thika River to Athi River, plays a vital role in supplying water to communities along its route. The mapping exercise will help assess its current condition and explore opportunities for rehabilitation and improved management.

Eng. Maliti commended KEWI for its ongoing efforts to improve infrastructure, create impactful partnerships, and enhance training, research, and consultancy services. He expressed optimism that the collaboration between KEWI and Machakos County will result in improved water service delivery, contributing to the county's sustainable development goals.

Eng. Maliti's visit comes at a time when the management is exploring on possibilities of acquiring a land within the county for its intended establishment of International Research and Training Centre on Rainwater Harvesting and Irrigation. The centre which is a result of a collaboration between the institute and Gansu Academy for Water Conservancy (GAWC) in China and which is supported by the ministry of Science and Technology of China under China-Africa Cooperation Forum framework is set to help address critical challenges in water resources and supply management and agriculture.

Mr. Nelson Kwamini during the meeting.

Eng.Francis Maliti at KEWI Headquarters.

KEWI And WILO East Africa Set Up an Energy Efficiency Lab to Advance Sustainable Water Solutions

Some of the modern water pumps on display at the upcoming Energy Efficiency Lab at KEWI Headquarters.

BY: BRITNEY MOKEIRA

The Kenya Water Institute (KEWI) has continued to make significant advancement in promoting energy-efficient water solutions in water sector through the establishment of an Energy Efficiency Lab at its main campus in Nairobi. This initiative is a result of a strategic partnership with WILO East Africa, a global leader in pump manufacturing and water solutions, formalized through a Memorandum of Understanding (MoU) signed last year.

The upcoming Energy Efficiency Lab is designed to provide hands-on training and practical demonstrations for students and sector practitioners, equipping them with essential skills in sustainable water management. The lab is furnished with seven advanced water pumps, four of which are fully operational for real-world applications, while the remaining three are dedicated to demonstrations and practical learning.

With the pumps designed to cover a wide range of applications, serving both industrial and domestic needs, this will ensure that learners gain practical experience with state-of-the-art technology, preparing them to address current and future challenges in water resource management. The lab will go beyond traditional training spaces by serving as an innovation hub, fostering skill development and research in energy-efficient water solutions.

This collaboration signifies a major milestone in KEWI's mission to enhance technical

KEWI And WILO East Africa Set Up an Energy Efficiency Lab to Advance Sustainable Water Solutions

education and promote the optimization of pump systems. By integrating industry expertise with academic training, the Energy Efficiency Lab will play a pivotal role in shaping the next generation of professionals committed to sustainable water management in Kenya and beyond.

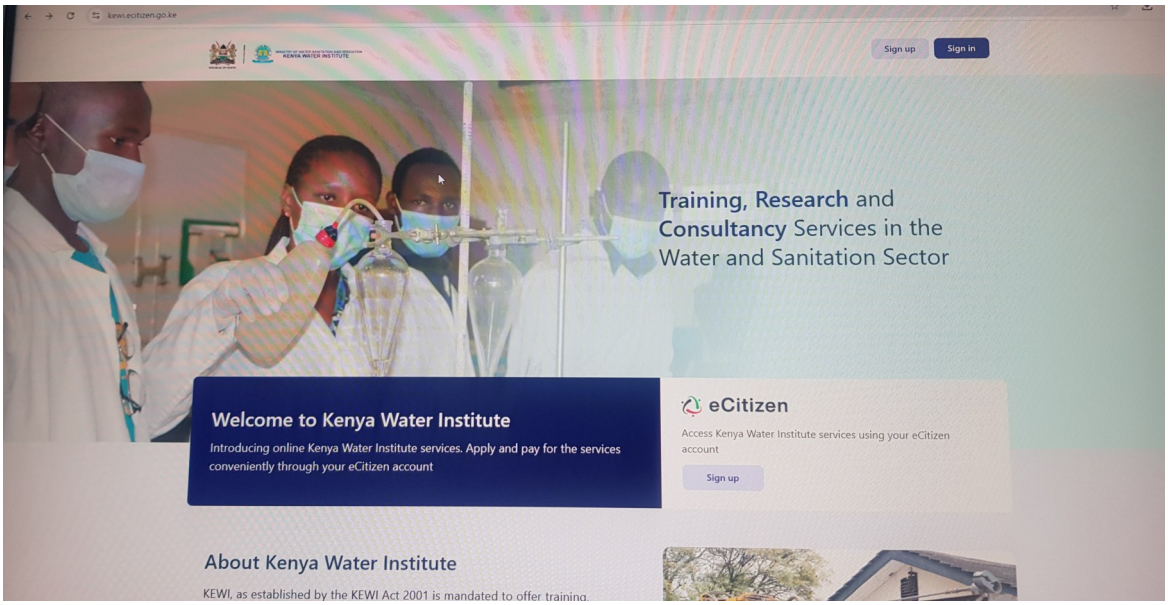
Additionally, the lab will serve as a research facility where students and professionals can collaborate on projects aimed at improving energy efficiency in water pumping systems. With growing concerns about climate change and resource conservation, KEWI's initiative aligns with global efforts to reduce energy consumption and promote environmental sustainability.

The partnership with WILO East Africa ensures that students not only receive theoretical knowledge but also gain real-world insights into the industry's best practices. Through interactive training sessions, workshops, and research opportunities, KEWI aims to produce skilled professionals capable of implementing innovative solutions to optimize water usage and minimize waste.

KEWI and WILO East Africa still have plans to expand the lab's capabilities by incorporating more advanced technologies such as smart pump systems and automation. This will further enhance the learning experience, allowing students to explore cutting-edge advancements in water management.

As KEWI continues to champion technical education and sustainable practices, the Energy Efficiency Lab stands as a beacon of progress in Kenya's water sector, setting a precedent for future collaborations aimed at addressing water challenges through innovation and efficiency.

Digitization: How Kenya Water Institute E-Citizen Integration is Transforming Water Sector Services in Kenya



A screen grab of the institutes e-citizen login interface. KEWI has on-boarded some of its services on the platform following the governments directive to enhance service delivery via service digitization.

BY: FAITH GENESIS JEPTAUNET

The government of Kenya is keen on its commitment to ensuring the public offices are well managed and effective in delivering quality services to the public. This commitment aligns with the provision of the constitution of Kenya, which prioritizes transparency, efficiency, and accessibility in public service delivery.

As part of the government's digitization efforts, the Kenya Water Institute (KEWI) has taken a significant step by onboarding various of its key services on the e-citizen platform. With the digitization of its services and hosting them on the platform being one of the institute's deliverables under the Performance Contract obligation, the institute has contributed by digitalizing several of its services, which include tender documents application, water quality analysis (chemical, bacteriological, and wastewater), hydrogeological services, and drilling, among others.

This move has helped streamline the processes, enhancing accessibility and ensuring smooth service delivery. This integration of digital services has not only reduced bureaucratic inefficiencies but has also provided citizens with easier and faster access to essential water-related services.

KEWI's successful onboarding of its services on the e-Citizen platform helped accelerate its service provision, with the effect already getting felt on the ground. Digitalization of Water Quality Analysis has helped speed up the application processes for water quality analysis services and consequently enabled faster and more efficient testing and thus ensured that water safety standards are met.

On hydrogeological training services, citizens and stakeholders are now conveniently accessing hydrogeological assessments online, aiding in informed decision-making for sustainable water resource management. A streamlined digital application for drilling services has not only enhanced efficiency and reduced bureaucratic bottlenecks but has also accelerated the provision of safe and reliable water sources through borehole drilling services.

With other services like students' application and admission and tender document application joining the long list of services onboarded, the seamless digital application process has allowed for easy access and submission of documents, eliminating unnecessary delays and reducing paperwork.

The integration of digital

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Mechanical engineers servicing a borehole drilling rig at KEWI. The institute has digitized its process of borehole drilling services.

services at KEWI has far-reaching benefits, not only for the institution but also for the broader Kenyan population.

The process has significantly cut down on bureaucratic inefficiencies, making service delivery faster and more transparent. Applications for water quality tests, hydrogeological assessments, and borehole drilling training services can now be processed more swiftly, ensuring timely responses to citizens' needs.

By embracing digital tools, KEWI ensures that services such as water quality analysis and drilling are conducted with greater precision and speed. This contributes to better water management practices, improved public health through safer drinking water, and more informed decision-making in water resource utilization.

A digitized service delivery framework minimizes cases of corruption and malpractice, as all transactions and applications are tracked electronically. This fosters greater accountability within KEWI and aligns with the government's commitment to transparency in public service.

KEWI's embrace of digitization marks a significant milestone in Kenya's journey towards a more efficient and technologically advanced public service sector. By leveraging digital platforms, the institution is not only improving service delivery but also contributing to the sustainable management of the country's water resources.

As the government continues to prioritize digital transformation, the institute's success serves as a model for other institutions seeking to enhance their operations. With increased accessibility, reduced bureaucracy, and improved transparency, the digitization of its services is a game-changer, ensuring that Kenyans receive top-tier water-related services with ease and efficiency.

In the years to come, continued investment in digital infrastructure and innovation will be crucial in driving even greater improvements in public service delivery. Through these advancements, KEWI is not just adapting to the digital age—it is leading the way in shaping a smarter, more accessible, and more efficient water sector for all Kenyans.

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

BY: PIUS KIMANI

The Kenya Water Institute (KEWI) has been accredited by NEMA Kenya to offer Environmental Impact Assessment (EIA) and EA short course. This course aims to equip participants with the necessary knowledge and skills to conduct EIA/ESIA and EA effectively, in line with the regulations set by NEMA.

This intensive program will be rolled out for six weeks (in both online and face to face). Participants who complete the course will gain valuable insights into EIA and EA methodologies, processes, and reporting, which will enable them to contribute effectively to environmental protection and sustainable development.

The purpose of Environmental Impact Assessment (EIA) is to identify and evaluate the potential impacts (beneficial and adverse) of development and projects on the environmental system. It is a useful aid for decision making based on understanding of the environment implications including social, cultural and aesthetic concerns which could be integrated with the analysis of the project costs and benefits. This exercise should be undertaken early enough in the planning stage of projects for the selection of environmentally compatible sites, process technologies and such other environmental safeguards.

Environmental Audit (EA) is the systematic documented, periodic and objective evaluation of how activities and processes of an ongoing project to determine how far these activities and programs conform with the approved environmental management plan of that specific project and sound environmental management practices. A comprehensive EA promotes a safe and healthy environment at all stages of project operations, as well as decommissioning.

The goal of EA is to establish if proponents of projects are complying with environmental requirements and enforcing legislation. NEMA reviews annual environmental audit (EA) reports submitted by businesses and other listed facilities under the Environmental Impact Assessment/Audit regulations, 2003.

Upcoming Professional Development Program

Professional Development Program Schedule (February)

MANAGERIAL			
Strategic Leadership in water Management	3rd—7th February 2025	KEWI Main Campus	Ksh.45,000
Water Governance			
SUPERVISORY			
Non-Revenue Water Management	17th—21st February 2025	KEWI Main Campus	Ksh. 35,000
Advanced Pump Technology			
TECHNICAL			
Drilling Techniques	17th—21st February 2025	KEWI Main Campus	Ksh.30,000
Non-Revenue Water Management			

PICTORIAL

KEWI and National Employment Authority (NEA) Meeting at KEWI

Quote of the Week

"Opportunities don't happen, you create them."

Chris Grosser

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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 (DWRTM)
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 (CWLT)
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

T o 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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OTHER SERVICES OFFERED

Water Quality Laboratory Services
Drilling and Test Pumping Services
Ground water Assessment Services
Conferencing Services
Troubleshooting of pumps boreholes and distribution systems
Repair of pumps boreholes and distribution systems

Your feedback is crucial for our improvement

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