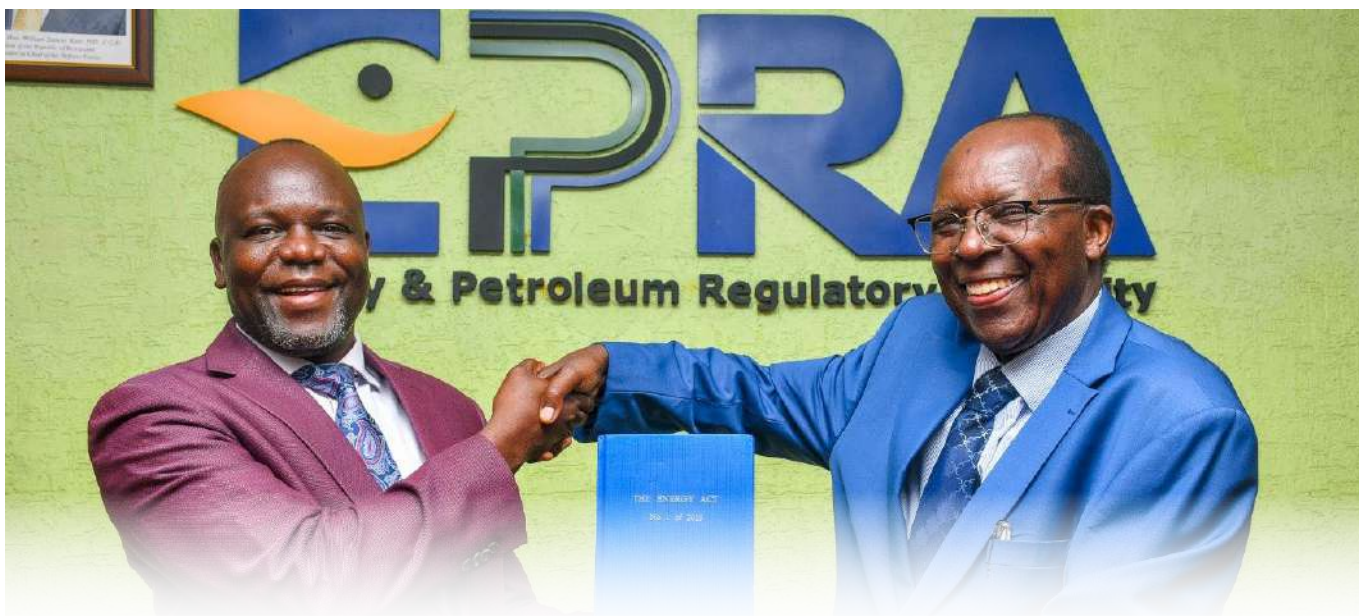




The cover art features a composite image. In the background, a large green leaf with prominent veins is superimposed over a view of Earth from space. A hand is visible on the left, reaching towards the leaf. In the center, an industrial oil rig is shown with smoke or steam rising from it. To the right, a large oil tanker ship is depicted. The overall theme suggests the intersection of nature, industry, and global energy.

EPRA **Monthly**

Mr. George Wanga joins EPRA as the new Chairperson of the Board of Directors



Mr. George Wanga, shakes hands with outgoing chairperson, Hon Justice (Rtd) Prof Jackton Ojwang during the handover.

By Bon Osia

The Authority welcomed the new Non-Executive Chairperson of the Board of Directors, Mr. George Wanga, following his appointment by President William Ruto through a Gazette notice on Friday, 17th January 2025.

Mr. Wanga takes over from the outgoing Chairperson, Hon. Justice (Rtd) Prof. Jackton Ojwang, who has served diligently for the last four years.

The new chairperson beamed with excitement on taking the new role as he expressed his desire to make an impact in the Energy & Petroleum sector.

Present at the handover ceremony were Board Directors Mr. Anthony Gachara, Ms Jane Masai, Ms Jennifer Nawoi, Mr. Gabriel Kitumu and the Director General. Also present were members of the Senior Management team.



EPRA Board Chairperson Mr. George Wanga, (right) in a conversation with outgoing Chairperson Hon. Justice (Rtd) Prof. Jackton Ojwang (Left), and Director General Mr. Daniel Kiptoo Bargarua.



Board of Directors and Senior Management team members pose for a photo with the outgoing Chairperson, Hon. Justice (Rtd) Prof Jackton Ojwang

Petroleum and Gas Directorate Conducts Fact-Finding Mission to Guide Regulations for Small Marine Vessel Refueling

By Somoni Miruka

A team from the Petroleum and Gas Directorate conducted a fact-finding mission in Homa Bay and Kisumu Counties to inform the development of regulations for refueling small marine vessels powered by outboard engines.

This was prompted by increasing safety risks and pollution concerns, aimed at establishing a clear framework for safe, sustainable refueling practices while supporting the livelihoods of Lake Victoria's fishing communities.

The team engaged a wide range of stakeholders such as the Homa Bay County Government, the National Government Administrative Officers (NGAO), National Environment Management Authority (NEMA), the Kenya Forest Service (KFS), the Kenya Fisheries Service (KeFS), Beach Management Units

(BMUs), fuel vendors, boat owners, fishermen, and local community leaders.

Other participants included the Kenya Maritime Authority (KMA), Kenya Ports Authority (KPA), Water Resources Authority (WRA), Kenya Railways Corporation (KRC), Civil Society Organizations (CSOs), and conservation agencies such as Kenya Wildlife Service (KWS).

These engagements provided valuable insights into the challenges and potential solutions to ensure safe supplies of fuel to motor boats operating in Lake Victoria.

Key findings included widespread use of makeshift fuel tanks, frequent fuel spillages, and unregulated refueling activities in open waters, compounded by inaccessibility to conventional filling stations.

Additional concerns highlighted included fuel adulteration, high fuel

prices, and the lack of insurance for vessels and crews. Stakeholders emphasised the need for affordable, accessible fuel solutions, structured emergency response plans, and robust public sensitisation.

Moving forward, EPRA aims to collaborate with relevant agencies to develop practical regulations. This include monitoring mechanisms and public engagement frameworks.

This effort seeks to mitigate risks, reduce environmental harm and promote safe, equitable access to fuel for the fishing communities that depend on Lake Victoria for their livelihoods.

It is anticipated that this intervention will significantly contribute to the sustainability of the Blue Economy ecosystem in Homa Bay, Kisumu, Siaya, Migori and Busia counties that border Lake Victoria.



EPRA, KPA, KeFS, KMFRI officials pose for a photo during a fact finding mission in Homabay & Kisumu Counties.

GSK Leadership Engages Director General for Collaborative Efforts in Geoscience and Energy



(L-R) GSK's Salome Mwangi, EPRA's Michael Karanja, Joshua Ngechu from the State Department for Petroleum, EPRA DG Daniel Kiptoo, GSK President Ng'ang'a Kuria and Evans Masachi from the Office of the President.

By Gladys Njoroge

On Wednesday, 29th January 2025, the Geological Society of Kenya (GSK), led by its President, Geol. Ng'ang'a Kuria, paid a courtesy call to the Director General, Mr. Daniel Kiptoo, to discuss potential areas of collaboration. These discussions centered on advancing research, knowledge sharing, and mentoring young professionals in the geosciences field.

During the meeting, the GSK President also took the opportunity to brief the Director General about the upcoming 30th Colloquium of African Geology, scheduled to take place from 23rd to 27th September 2025 at the Safari Park Hotel in Nairobi.

The Director General reaffirmed EPRA's commitment to advancing the role of geoscience within the energy and petroleum sectors, highlighting the importance of strategic partnerships in promoting growth and innovation.

Public Advocacy sensitisation drive moves to Changamwe, Likoni & Watamu



Stakeholder in Watamu gives comments on electricity safety

By Bon Osia

The Public Education and Advocacy spread it awareness forums in Changamwe, Likoni and Watamu in Mombasa and Kilifi counties respectively to foster advocacy, education and enforcement of laid down energy and petroleum regulations.

The fora targeted National Government Administration Officers, LPG & petroleum dealers as well as electrical workers and contractors. The fora were spearheaded by our surveillance and enforcement officer (Electricity) Mr. Vincent Aquino alongside surveillance and enforcement officer (Petroleum) Mr. Vincent Kirui and Public Education & Advocacy officers Mr. Felix Terigin and Ms. Caroline Mwangi.

The team touched on LPG safety, safe handling of electrical appliances, safe transportation and handling

of petroleum products as well as complaints handling mechanisms for the public to the Authority.

They accentuated EPRA's commitment to promoting fair competition, safe business practices, protection of consumers and balancing stakeholder and investor interests.

"The Authority envisions compliance in the energy and petroleum sectors to address challenges in the sector. We shall endeavour to balance between the interests of the public and those of investors through continuous capacity building, stakeholder engagement and consultation programmes," stated Ms. Mwangi in Changamwe.

In addition, Mr. Kirui sensitised tanker drivers on Legal Notice No. 99 which spells out precautions to be taken by tanker drivers to prevent accidents and Safety measures to undertake in case of accidents.

The sensitization drive focused on Journey Plans, Driver Certification, and Fatigue Management to minimise accidents and prepare and activate Emergency Response Plans in case of an accident to minimise the impact on safety, health and the environment.

Petroleum transporters are required to have transport licenses while drivers are required to have a certificate to transport petroleum products. Additionally, tankers are required to have permits issued by the Authority at no cost.

The Authority continues to look out for various platforms to engage with stakeholders and ensure their participation in the regulatory process.



Petroleum Tanker drivers follow proceedings during sensitization in KPRL changamwe.



Likoni area DDCC keenly follows proceedings during a baraza in his ears of jurisdiction.

EPRA extends public awareness initiatives on petroleum and electrical safety in Central region



EPRA's Director for Public Education, Advocacy and Consumer Protection, CPA Cyprian Nyakundi speaks during a meeting with NGAOs.

By Dennis Chacha

The Authority continued its series of public awareness forums in Nyeri County to educate National Government Administration Officers (NGAOs) and security committees, County Government of Nyeri staff, LPG and petroleum dealers and electrical workers and contractors in the region.

Speaking during a meeting with NGAOs, the Director for Public Education, Advocacy and Consumer Protection, CPA Cyprian Nyakundi implored the administrators to be proactive in ensuring compliance with safety standards in the petroleum and electricity sectors.

"We look forward to reinforce relationships within the industry and through your support

(NGAOs), we will eradicate malpractices such as electricity theft, transformer vandalism, fuel siphoning, illegal activities at LPG and petroleum facilities thus ensure safety standards are upheld across all operations," noted Nyakundi.

Committees in Nyeri County follow proceedings at FK Resort & Spa, Nyeri.

He underscored EPRA's commitment to promoting fair competition, safe business practices, protection of consumers and investor interests.

"The Authority aims to ensure compliance within the energy and petroleum sectors to tackle challenges associated with malpractices in the sectors. We are committed to striking a balance between investor and consumer

interests by engaging stakeholders and facilitating consultation programs. This seeks to foster a collaborative environment that promotes safety across all sectors," said Mr. Nyakundi.

Deputy Director for Public Education and Advocacy, Ms. Anne Kiprotich, Central Regional Manager, Ms. Yvonne Otsyula, Electricity Officer, Mr. Sospeter Lotuko, Facilities Engineer, Mr. Timothy Kangogo, Petroleum and Gas Officer, Ms. Benter Otieno and Public Education & Advocacy Officers: Ms. Caroline Mwangi and Mr. . Felix Terigin attended the forums.

EPRA Holds Retreat to Review its Customer Service Delivery Systems

By Dennis Chacha

In January 2025, a team convened for a strategic retreat aimed at enhancing the integration of Customer Relationship Management (CRM) and Regulatory Management Information Systems (RMIS) in Machakos County.

Speaking at the meeting, the Deputy Director of Corporate Communications, Ms. Letitia Ouko noted that the integration of CRM and RMIS will reinforce service delivery at EPRA such as complaints resolution, improve data accessibility and foster better communication across departments.

“Integrating CRM with RMIS will streamline services such as resolution of customer complaints. This will ensure that our teams managing complaints have access to data and facilitate real-time responses to customer needs. The seamless flow of information between CRM and RMIS will ease responsiveness to customer issues and thus enhance customer satisfaction,” said Ms. Ouko.

On his part, the Deputy Director for ICT, Mr. Jared Arika emphasised the importance of a unified system noting the initiative will improve EPRA’s operational efficiency.

“Overall integration of the two systems is poised to boost EPRA’s service delivery by ensuring we can proactively address issues before they escalate. This means customers will receive timely support on any issue as pertains to services provided by EPRA,” said Mr. Arika.

During the discussions, participants identified areas for improvement, emphasizing the need for a robust system that addresses customer issues in real-time, improve stakeholder confidence in EPRA’s services.



EPRA’s CRM & RMIS integration working group

Public Education & Advocacy: Safety Awareness Forums in Kikuyu and Dagoretti

By Bon Osia

Safety is a top priority in all sectors and industries around the country. In the energy sector, we continuously advocate for the safe handling of Liquefied Petroleum Gas, Petroleum, and Electricity.

As part of EPRA's awareness initiatives, the Public Education & Advocacy team held a series of public engagement forums in Kikuyu and Dagoretti educating

residents on matters of licensing and consumer safety.

This was aimed at protecting consumers from malpractices such as illegal refilling and illegal rebranding of LPG cylinders and avoiding accidents and incidents that may lead to injury, death, or property loss.

The awareness initiatives were conducted by Ms. Caroline Mwangi, and Mr. Felix Terigin.



Public Education & Advocacy officer Mr. Felix Terigin engages with LPG retailer in Dagoretti, Nairobi County.



Public Education & Advocacy officers Mr. Felix Terigin and Ms. Caroline Mwangi engage bodaboda riders in Kikuyu Town.

Knowledge Management Champions trained to Drive Organizational Excellence

By Gladys Njoroge

The Authority hosted a comprehensive training session for its Knowledge Management (KM) Champions from 20th – 24th January in Machakos County where 14 selected champions attended.

The training was aimed at equipping them with the knowledge and skills necessary to drive the Authority's KM initiatives forward. The session was facilitated by Mr. Joseph Mbugua, a renowned expert in Knowledge Management, and Mr. Ezekiel Manyara from the State Department of Planning, both of whom shared invaluable insights and practical knowledge on the subject.

The training was centered around enhancing the champions' understanding of the various types of knowledge critical to an organisa-

tion like EPRA. These include tacit knowledge (knowledge gained through experience, often difficult to articulate), implicit knowledge (knowledge that is understood but not formally expressed), and explicit knowledge (knowledge that is codified and easily shared).

The facilitators highlighted how EPRA, as a knowledge-driven institution, can capture and disseminate these forms of knowledge to enhance organisational effectiveness and service delivery.

In her remarks, Ms. Esther Njenga, the Deputy Director of Corporate Strategy & Performance emphasised the central role that Knowledge Management plays in the Authority's operations. She underscored that embracing KM is essential for the Authority to identify, capture, and retain organisational knowledge that is aligned with

EPRA's strategy and operations.

Ms. Esther added that effective KM ensures that the knowledge assets critical for sustaining long-term organisational performance are safeguarded and passed on to future generations of employees.

"By adopting robust knowledge management practices, we can ensure that the wealth of knowledge we have in our teams is not lost, but rather transferred and built upon," she stated.

The training marked a fundamental milestone in EPRA's ongoing efforts to become a more knowledge-centered organisation. With the training of the champions, the Authority is poised to create an environment for free sharing of information, proactively address gaps subsequently enable the energy sector to thrive.



Knowledge Management champions pose for a photo during the training



UP CLOSE WITH THE DG

In an exclusive interview with the Director General Daniel Kiptoo Bargoria, he shares his inspiring journey — from childhood aspirations, an odyssey of ambition and leadership to the sparks that ignited his passion in the energy and petroleum sector. His reflections offer a blend of wisdom and a visionary outlook on the industry's opportunities, challenges and a motivation to EPRA staff on navigating professional growth, writes **Brian Mureithi**.

Take us a little about your background

I was born in 1984 and raised in Nairobi. I went to Nairobi Primary School and Mang'u High School. I trained as a Lawyer but a lot of people don't know that I'm a lawyer by training. I have worked in the public and private sector with a focus in the energy sector. My career has been primarily focused on the energy sector. I started at the regulator, went full circle, and I've come back to the regulator again as the Director General.

What inspired you to join the energy and petroleum sectors?

I had a lot of interest in the energy sector, influenced by family as some of my relatives had interest in the energy space. I found that to be an exciting space to be in. But ultimately, the person who was the driver for me to get serious and get involved in the energy space was my father. He had a plan for all of us. So the plan that he picked for me was to be in the energy space. I was probably going to end up as a professional rugby player, but that did not pan out very well.

How would you describe your leadership style and what makes you fulfilled in being a leader?

For me, it is being able to rally people to achieve a common goal. I think that stems from my background in sports. I look at how to achieve this common goal with the different skills sets people have. In an organisation like EPRA, you have communications

people, you have economists, you have lawyers, you have engineers, but they are all working towards one common goal. As a leader in such an organisation, you have to focus everybody on one common goal, which is the organization's goal by leveraging on the strengths that the individuals have. It is also supporting those with their weaknesses to achieve the same agenda, which is one common goal for the organization.

What do you see as the biggest challenge in the energy and petroleum sector?

The biggest challenge in the energy sector is a lack of information and that is why as a regulator, we are investing in public education and advocacy. A lot of people are struggling not because they do not have the means or they do not have the will, but it is because they don't have the information as to how they can better their lives with respect to energy.

You have been consistent in your own career up to now, what advice would you give to staff who want to grow in their careers?

The first thing is knowing your stuff which I keep saying is the basic building block. Knowing your stuff is broad, because first you go to school and acquire training. You also need to be proactive and know what's going on within your professional circle to be able to upskill yourself and to ensure that you do have the tools, and the skill set to allow you to undertake your mandate. This is the primary one.

The second one is when you work in an organization, whether it is corporate, private sector or public sector, you will not succeed in what you do unless you have personal drive. You will not succeed if you either do things because you have been asked to by your boss, or because your supervisor is watching you or if your boss is not in the office, then you do not have the drive to deliver. If you do not have the drive to focus as an individual, you will not go far. But if you have the drive whether you are being supervised or not, or whether you are being appraised or not, if you have your own personal drive to focus on what you want to achieve, you will then achieve it.

The third one is now collaboratively working with people, because you will not only learn from them but also work with them to assist you to achieve the goal that you have as an individual.

What values would you like manifested from the EPRA team in terms of how they operate and how they do their work?

I have spoken to teamwork and how you work together, because we have different skill sets. But ultimately, even within the organization, we are all from diverse backgrounds, and for us to be able to work very well as a team, we have to be accommodative of each other, because at the end of the day, we are all human beings.

We have our highs, we have our lows, we have our strengths, we have our weaknesses. So being able to work collaboratively together really helps. I think the other area is having empathy. I keep telling people, there is more to life and work. I cannot be sitting next

to you and I do not know how you are doing. I do not know whether you have a family or not. Whether your kids have gone to school or whether they are sick. Have you gone on leave? Being empathetic to each other as human beings is also another way of ensuring that you have one cohesive team.

What motivates you to do this job?

My first motivation is that I like the job I do. Working in the energy space is very exciting. Secondly, it is the space that I have worked in, and I am very passionate in. So I do not have any other thing to do. If I go to another sector or if I try to become a litigation lawyer, I may fail. For me it is exciting because I love what I do, and I am passionate about the energy sector. I think it is really something that I would do repeatedly.

What is that one thing that you cannot leave the house without?

This has to be my phone.

What genre of music do you like to listen and dance to?

I listen to every form of music but my favourite is reggae.

What is your favourite meal?

Nyama choma is my all-time favourite. Then spaghetti Bolognese. Spaghetti and minced meat must be on the menu at home, at least once a week. For the weekend, nyama choma is a must.





Breaking Barriers: Eng. Hassid Okumu on Overcoming Myths and Pursuing Engineering Excellence

By Gladys Njoroge

I have conducted many interviews, but this one was different, it was the first I have done in the evening. Eng. Hassid Okumu scheduled our chat for 7:30 P.M., so there I was, sitting in the office on a chilly evening, eagerly waiting for the meeting to begin. That is the mark of a busy engineer! But the wait was absolutely worth it. Hearing from this passionate, driven young engineer was truly inspiring, and I hope his story will inspire you too.

1. Growing up, did you know that you would become an engineer? As a young boy, I was always fascinated by toys. I would dismantle them and put them back together. One day, I asked my parents what career I would need to pursue in order to build things, and they told me engineering. At the time, I didn't fully understand what that meant, but I knew that's what I wanted to do. Later, I began looking up to Eng. Henry Odede, who currently works for KETRACO. He mentored me and helped clarify my vision of what it means to be an engineer.

2. Why did you choose to pursue the EBK Professional Engineering registration? Since I joined EPRA in February 2019, I have seen three of my colleagues obtain their EBK registration: Eng. Bukachi (who recently left), Eng. Ignatius Chirchir, and Eng. Fenwicks Musonye. I would engage with them about the process, and they were kind enough to share their experiences. They're relatively young, which helped bust the myth that you have to be older to achieve this honor.

3. How was the registration process? Was it daunting? To gain the Professional Engineering Registration, one must demonstrate competence by showing how engineering principles were applied to solve a problem. For me, this involved working on the design of a 400KW solar photovoltaic system. The process is demanding, as it requires completing a project under the supervision of a senior engineer and presenting it to the engineering board. They often provide feedback, which you must address. It's not just about competence, it's about proving your dedication, and your patience will definitely be tested.

4. What is your advice to young engineers? Many graduate engineers who are working in non-engineering fields, such as accounting firms or sales engineering haven't pursued registration. My advice is to get involved in projects where you can apply your skills. This is crucial for meeting the key requirement of demonstrating competence by solving real problems. The longer you delay, the harder it becomes, so start as early as possible.

There are also myths that only people from certain companies get registered, or that registration is reserved for older engineers or those working on specific types of projects. Ignore these myths and focus on your goals.

5. It has been six years since you joined EPRA, what have been your key highlights so far? One word: Exposure. Working with EPRA has exposed me to a wide range of engineering challenges that I wouldn't have encountered elsewhere, thanks to our broad mandate. No two days are ever the same. I've been involved in projects such as designing Solar PV regulations, working on Minigrids, net metering, renewable energy resources, and Feed-in Tariffs. Currently, I'm engaged in energy planning. EPRA offers countless opportunities to upskill and expand your knowledge. The learning and application of knowledge here are unparalleled.

6. How do you see the future of the energy sector, and what do you hope to achieve? I hope for a future where young engineers are given opportunities to apply their skills. It saddens me to see so many unemployed engineers, especially when there are opportunities available for them to grow and contribute. I also hope young engineers can take on leadership roles and shape the future of the energy sector.

7. What is the role of mentorship in one's career development? I wouldn't be where I am today without the mentors who guided me along the way. Eng. Nickson Bukachi and Eng. Musonye have both been instrumental in my career development. Having mentors who inspire you is crucial, because they not only tell you what to do, they've been there, they've done it, and their advice is based on real experience.

Importance of Data Privacy in the Digital Age

Data privacy has emerged as key component in the digital age as Our Data & Systems Officer Japheth Bii writes, it is not just a compliance obligation but a responsibility obligation.

Importance of Data Privacy in the Digital Age

Our data driven world demands a profound adherence to personal data privacy. Our online presence, from social media to financial accounts leave a trail that is both immensely valuable and increasingly exposed.

Data privacy transcends mere compliance; it is a fundamental commitment to upholding individual integrity, dignity, and rights in the digital age. Let us delve into why prioritising data privacy is not only crucial but also a catalyst for positive change to both organisations and individuals.

Data Privacy: A Cornerstone of Trust and Freedom

Data privacy is not merely a corporate compliance issue or a regulatory hurdle; it is a fundamental human right. For organisations, prioritising data security is essential for building and maintaining trust with customers and partners.

Data breaches can have devastating consequences, including significant financial losses, irreparable damage to organisations reputation, and severe legal penalties. For individuals, protecting personal data is paramount for safeguarding against identity theft, fraud, and unwarranted surveillance. In essence, data privacy empowers both individuals and organisations by fostering trust, minimising risk, and upholding fundamental freedoms in the digital age.

Emerging Threats to Data Privacy

The digital landscape is constantly evolving, bringing with it new and sophisticated threats to data privacy. Cyber criminals are relentless in their pursuit of sensitive information, employing increasingly sophisticated tactics such as phishing, ransomware, and spyware attacks.

These attacks target a wide range of devices, from personal smartphones to complex enterprise systems. Furthermore, inadequate data sharing practices and lax security measures within organisations create significant vulnerabilities that can be exploited by malicious actors.

By implementing proactive measures, organisations can significantly enhance their data security posture, mitigate the risks associated with emerging threats, and safeguard the privacy of their employees, customers, and partners. Such measures may include;

1. **Adoption of Best Practices:** Organisations should enforce strong password policies, encrypt sensitive data, and use firewalls and intrusion detection systems.
2. **Employee Training:** Conducting regular cybersecurity awareness programs can minimise risks arising from human error.
3. **Compliance with Regulations:** Adhering to global and regional data protection laws, like the Kenya's Data Protection Act, 2019 ensures accountability and trust.

4. **Empower Individuals:** Regularly review privacy settings on apps and services, use two-factor authentication, and be cautious when sharing information online.

Data privacy therefore, is more than a legal obligation—it is a fundamental responsibility in the digital age. Data privacy being a wide and evolving area of study, calls for continuous learning and understanding. Everyone is encouraged to explore governing laws and frameworks to stay informed and empowered.

Protecting personal information fosters trust, safeguards rights, and ensures a secure work environment for all. Let us champion data privacy, not just as a policy, but as a practice that defines ethical and forward-thinking organisation.

Data: The New Currency of the Digital Age

In today's hyper-connected world, data has emerged as the most valuable commodity. Individuals and organisations alike generate staggering volume of information every day, from social media posts and online purchases to emails, online forms, and countless other digital interactions. This data revolution has brought with it a critical imperative - that of prioritising data privacy.



Demystifying Nuclear Energy

By Dennis Kirui

Nuclear energy is not as complicated as many people may think. To debunk the misconceptions, it is imperative to delve into this source of energy. Let us talk about nuclear energy.

What is Nuclear Energy, Simply Put?

Imagine tiny building blocks called atoms. Nuclear energy comes from messing with these blocks. There are two main ways:

- **Fusion:** This is like smashing two tiny blocks together to make a bigger one. When they combine, a little bit of "stuff" disappears, and that "missing stuff" turns into a huge amount of energy (thanks to Einstein's famous $E=mc^2$ equation!). This is how the sun makes its power. Scientists are working hard to build fusion power plants, which could give us almost unlimited clean energy.
- **Fission:** This is the opposite – splitting a big block into smaller ones. This also releases a lot of energy as heat. This heat boils water, which creates steam, and that steam spins a turbine to make electricity – just like in many other power plants.

What is a Nuclear Power Plant Like Inside?

Think of a nuclear power plant as having three main sections:

1. **The Nuclear Island:** This is where the magic happens. It houses the reactor (where the splitting happens), the control room (where everything is monitored), a strong containment dome (for safety), and backup safety systems.
2. **The Turbine Island:** Here, the steam from the nuclear island spins a turbine, which then powers a generator to make electricity.
3. **The Balance of Plant:** This is everything else needed to get the electricity to your home, like transformers and power lines.

What are the Different Types of Nuclear Power Plants?

The main difference between types of nuclear power plants is the design of their reactor. Some common types include:

- **Pressurised Water Reactor (PWR):** The most common type worldwide.
- **Boiling Water Reactor (BWR):** Another popular design.
- There are a few other less common types as well.

How Safe is Nuclear Power?

Safety is a big concern, and rightly so. One of the main worries is radiation. But here is the thing: We are exposed to radiation every day! It comes from the sun, the earth, and even some foods like bananas!

- The average person receives about 6.2 units of radiation (mSv) per year.
- About half of that (3 mSv) is from natural sources.
- Living near a nuclear power plant adds a tiny amount – about 0.01 mSv per year. That is about the same as eating one banana!

Nuclear power plants have multiple layers of safety built-in to prevent accidents. These backup systems ensure that if one system fails, others are there to protect workers and the public.

Getting the Power to You

Once the electricity is made, it is sent out to the power grid, just like electricity from other power sources. Nuclear power is a reliable source of energy that can run constantly, unlike solar and wind power which depend on the weather.

In short, nuclear energy is a powerful and reliable source of electricity. While safety is always a top priority, modern nuclear power plants are designed with multiple safety features to protect people and the environment.

Information Communication Technology: The Greatest Enabler

By Allan Gathuru Wairimu
(Manager, ICT (Data & Systems))

Over the years, I have learnt to appreciate the role played by technology in different spheres of our lives. If you look around, you will notice that ICT has transformed how you do things. Without it, work would be very hard and cumbersome.

The impacts of the technological revolution are being felt far and wide, including in our motherland where its adoption is still lower compared to the West. Based on the magnitude of the impacts left by the Agrarian and the Industrial Revolutions, the technological revolution will transform how things are done in ways we cannot fathom.

Access to energy and universal access to electricity will not be discriminated by the technological revolution. transformation is evident and the trend continues.

Technology has impacted the electricity energy value chain right from production, transmission, distribution, and consumption.

At production, ICT has transformed activities by automating tasks thereby increasing efficiency and productivity. The use of robotics, automation, and artificial intelligence has increased production rates and improved quality service levels.

Tools such as computer-aided manufacturing systems and computer-aided design software have transformed the design and production processes. Virtual reality technologies will continue improving designs, enabling generation of design storyboards and prototypes.

Automated algorithms for systems such as Supervisory Control and Data Acquisition (SCADA) and other systems are executing tasks with high precision, better than

humans. Connectivity between components used in power generation whether in geothermal, thermal, hydro and wind power or other plants has improved through upgrades in network communication with the advent of 4G and 5G networks.

During transmission and distribution, ICT is used to establish reliable control functionalities for secure operation of large interconnected grid thereby improving supply reliability.

Renewable energy sources incorporation into the grid and their maximisation is made possible by use of sophisticated technologies that balances the supply and demand. The information flow between the electricity producing utilities, consumers and the control center is made possible by ICT. To further improve this and have more energy efficiency, newer and better technologies need to be implemented.

With increased communication, the challenge of cybersecurity of all interfaces is inevitable. If hackers were to hack the grid and take it down, it would be a national disaster. ICT mitigate this by providing top notch, impenetrable security defense in depth infrastructure securing the grid.

The security triage of confidentiality, integrity, and availability comes into play with availability of the power grid being the most crucial parameter. Technology also enables real-time monitoring and predictive maintenance leading to increased efficiency and reduced downtime.

At the consumer side, ICT plays a pivotal role to improve service delivery and improve customer experience, right from installation of Internet of Things, smart meters that offer real-time monitoring, automatic power consumption readings and remote access.

The “tokens” have revolutionised how power is consumed in Kenya. The E-commerce platforms rolled out have allowed power utilities to reach the lengths of our Republic while leveraging on cashless payments like mobile money

to improve the ease of power purchase.

In tariff setting, advanced technologies like Artificial Intelligence (AI) and Machine Learning (ML) are used to analyse vast amounts of data to identify market trends, to guide on setting of evidence based interesting tariffs that maximize power usage while meeting customer needs.

In the household level, smart homes are gaining traction and insulation, cooling, ventilation, heating and other appliances are all dependent on power. The design of these appliances has also evolved with technology to improve their security, enhance energy efficiency and reduce their size in line with the theory of miniaturisation.

At the utilities level, technology growth around data centres has guaranteed access of computing resources while deployment of sleek enterprise resource planning systems has increased efficiency of companies to plan, track budgets and operations. Data portals have enabled data sharing to track sector key performance indicators incorporating data repositories, visualizations, algorithms and models which are driven by ICT.

With improvement in technology, citizen generated data from crowdsourcing initiatives like self-meter reading using mobile computing is gaining momentum. Cloud computing and related data privacy issues are also fully in the limelight controlling discussions with most technology companies preferring to provide subscription cloud solutions. Block chain technology is being leveraged to ensure confidentiality and transparency in transactions.

Looking into the future, technologies will keep improving and the state of the union between power and ICT will keep getting stronger. Organisations that will not keep technology at the center of its operations and strategy will become moribund, and face natural deaths.

Valuable and customer centric technologies should be deployed strategically along the energy value chain to enhance regulation, increase efficiency and reduce tariffs. This will in more ways than can be described smoothen the road towards universal access of electricity.



Understanding the Fair Administrative Action Rules, 2024

By Kipngeno Alexander

The Fair Administrative Action Rules, 2024 (Legal Notice 165 of 2024), gazetted on 25 October 2024 and effective from 11 October 2024 is a major step forward in Kenya's administrative law framework. These Rules are designed to provide clear procedures for judicial review of administrative actions, ensuring that they meet constitutional standards of fairness, efficiency, and transparency.

Introduction to the Act and the Rules

The Fair Administrative Action Act, 2015 was enacted to give effect to Article 47 of the Constitution which guarantees every person the right to fair administrative action that is lawful, reasonable and procedurally fair. The recently gazetted Fair Administrative Action Rules, 2024 provide a structured approach to implementing these principles by outlining the procedural framework for seeking judicial review of administrative decisions.

The rationale behind these Rules is to enhance accountability and fairness in administrative processes by setting clear timelines, requirements and remedies available to affected individuals and organizations.

Key Highlights of the Fair Administrative Action Rules, 2024

1. Notice of Intention to Sue: Before initiating judicial review proceedings, an applicant must issue a notice of intention to sue at least seven days before filing. This requirement aims to encourage early resolution of disputes without resorting to court processes. Interestingly, the intention to sue clause has now been resurrected in the 2024 Rules despite previous court rulings quashing the said requirement for instance the

High Court in *Kenya Bus Services Ltd v Minister for Transport & 2 Others* [2012] eKLR, per Lord Justice David Majanja, quashed the requirement for intention to sue in the Government Proceedings Act (GPA), stating:

"To impose a requirement for a notice of intention to sue is to place an unreasonable hurdle on access to justice, contrary to the principles enshrined in the Constitution."

This position was unanimously upheld by the Court of Appeal in *Joseph Nyamamba & 4 Others v Kenya Railways Corporation* [2015] eKLR, where Lord Justice and Ladyships Erastus Githinji, Hannah Okwengu and Fatuma Sichale observed:

"The requirement for prior notice before instituting a claim serves no practical purpose other than to delay and frustrate the pursuit of justice. Such a requirement is inconsistent with the constitutional guarantee of fair administrative action."

2. Timelines for Filing Applications: Applicants must file judicial review applications within six weeks of the administrative action in question. However, courts have discretion to extend this period in cases of fraud, misrepresentation or other justifiable reasons

3. Limitation on Orders of Mandamus: The Rules stipulate that courts will only consider mandamus applications if it is demonstrated that the administrator had a duty to act but failed to do so within the required timeframe and the applicant has served the necessary notice.

4. Jurisdiction of Courts: The High Court, Employment and Labour Relations Court, and Environment and Land Court have jurisdiction

over judicial review applications and can transfer cases to subordinate courts where appropriate.

5. Case Management Conference: Courts must hold a case management conference within seven days of filing a replying affidavit to streamline issues, verify compliance with the Rules, and promote early settlement.

6. Alternative Dispute Resolution: The Rules encourage parties to explore alternative dispute resolution mechanisms before pursuing litigation, fostering amicable settlements.

7. Appeals Procedure: Appeals against judicial review decisions must be filed within seven days of judgment. The Rules provide a detailed framework for the appeal process, including required documents and service timelines.

8. Orders and Execution: Courts have the authority to grant various remedies such as declaratory relief, prohibition orders and mandamus, ensuring enforcement of administrative obligations.

9. Non-Compliance and Dismissal: Strict measures have been introduced for non-compliance, including the striking out of pleadings and dismissal of applications due to delays or failure to prosecute.

10. Miscellaneous Provisions: The Rules provide that applications may abate if the applicant dies unless substitution is done within ten days, ensuring continuity of justice.

In conclusion, The Fair Administrative Action Rules, 2024 provide a clear and structured legal framework that enhances transparency, accountability and efficiency in administrative decision-making.

Robert Githinji Mahenia: Transitioning From Legal Excellence To New Horizons

By Winnie Rop

Led by the Legal Services Directorate, on 17th January 2025, the Authority hosted a lively celebration in honour of Mr. Robert Githinji Mahenia, the outgoing Deputy Director for Legal Services following a remarkable 12-year tenure at the Authority.

The event was not just a farewell, but a joyous occasion filled with appreciation, shared memories, and camaraderie in recognition of Mr. Mahenia's significant contributions to EPRA's legal and regulatory framework and a career defined by excellence and a promising future.

Colleagues, industry stakeholders, and legal professionals gathered to recognise Mahenia's unwavering dedication to legal excellence.

It started with a powerful sermon delivered by Eng. Tom Simiyu, quoting the scripture, "The steps of a good man are ordered by the Lord," reinforcing the belief that Mr. Mahenia's next professional chapter is divinely guided.

He shared the following nuggets of wisdom:

- **Private practice offers the freedom to innovate, grow, and achieve** on one's own terms. As Ecclesiastes 9:10 tells us: "Whatever your hand finds to do, do it with all your might, for in the realm of the dead, where you are going, there is neither working nor planning nor knowledge nor wisdom." A powerful reminder to approach life

with energy and purpose while we still can.

Legal Excellence in Practice: Key Takeaways from Mr. Mahenia

Mahenia's precision, keen attention to detail, and dedication to excellence were widely praised. His legacy at EPRA stands as a beacon for all professionals, not just in law, to aspire to:

- **Adherence to Time Management and Punctuality:** Mahenia firmly believed in the professional and ethical implications of time management. He often emphasised that punctuality reflects discipline and respect—values that are vital to any profession.
- **Commitment to Professional Standards:** A staunch advocate of legal decorum, Mahenia consistently upheld high standards of professional attire and conduct. He was especially passionate about reminding his male colleagues to wear ties, underscoring that a lawyer's appearance should reflect the unique dignity and responsibility of the profession.
- **Commitment to Ethical Practice:** Mahenia's career was defined by unimpeachable integrity. He demonstrated that ethical conduct and accountability are the bedrock of any meaningful legal or regulatory career.

A Career as a Marathon

In his farewell address, Mr. Mahenia likened his career

to a marathon, emphasising the endurance, discipline, and strategic foresight required for long-term success. He stressed that like marathon runners, professionals must prepare rigorously—through education, experience, and continuous learning noting that though the journey is challenging, perseverance and focus yield great results.

He continued: “Just as marathoners replenish their energy during the race, professionals must remain intellectually engaged, pursuing mentorship, skills development, and learning. Staying focused, minimising distractions, and maintaining a clear vision are essential in both legal practice and long-distance racing.”

Ultimately, every career reaches a pivotal moment. For Mr. Mahenia, this milestone signifies the beginning of new opportunities, where his expertise will continue to shape the energy and petroleum regulatory landscape.

Mr. Ibrahim Kitoo, the Corporation Secretary & Director, Legal Services began his address by extending his gratitude to the Director General for affording the team the opportunity to come together and celebrate this moment. He also expressed sincere thanks to all the esteemed invitees for their presence and continued support.

Mr. Kitoo conveyed his appreciation for Mahenia’s exceptional contributions, particularly during the handover process. Highlighting the importance of collaboration and ‘Whole of Authority Approach’ in execution of assignments and strategy, Mr. Kitoo emphasised that: Alone we can do so little; together we can do so much”

Remarks from the Director General

The Director General reflected on his professional journey with Mr. Mahenia, noting their progression from an intern to colleague, and eventually to the superior. The DG recognised Robert as a key contributor to the legal framework within the sector and emphasised that his transition opens the door to new opportunities for continued influence and development.

He highlighted that their ongoing collaboration in other areas would benefit from Mahenia’s expertise, ensuring his continued impact on the sector’s evolution. He encouraged emerging professionals to follow Mahenia’s example—demonstrating diligence, maintaining professional decorum, and continuously expanding their knowledge.

“Striving to be knowledgeable, not just within one’s immediate field, but across broader regulatory and legal landscapes, is vital for lasting success in the profession,” said the DG.

A Celebration of Success and New Beginnings

As Robert steps into the next chapter of his journey, the Legal Directorate wish him continued success, confident that his legacy will continue to shape the energy and petroleum regulatory sector for years to come.

It is imperative to note that before his departure, he symbolically planted two trees at EPRA, underscoring his commitment to environmental responsibility and sustainability.



Tributes To The Late Okola Oloo From The Registry Division Colleagues



WINNIFRED CHEBET

Alfred has been an effective officer who has acted in the capacity as EPRA's star messenger for several years. Although his health slowly deteriorated over the last few years, he gave his all, and during his final days, he still kept to a tight schedule and ensured that

deliveries were made in a timely manner, and without fail.

His final days have been painful and slow while he soldiered on without complaining. He is normally the first to reach the office and sometimes the last to leave. His failing health was never

a hindrance, and his resolve was clear, to work and work and give his best to the organization and so he did- such was his determination, against all odds.

My sincere condolences to his family and may he rest in peace.

JOAB KETOTO

It's with a heavy heart that I'm paying tribute to a dear colleague Mr. Oloo Alfred Okola who left an indelible mark on our team. His dedication, passion and infectious energy made him a shining star in our workplace.

Okola was more than just a colleague; he was a friend, a mentor, and a guiding light. His Resilience, Responsiveness, Kindness, Steadfastness, generosity and sense of humour had a way of lifting everyone's spirits, even on the toughest of days. He was always willing to lend a helping hand, offer valuable advice, or share a laugh to break the tension.

His expertise and knowledge were unparalleled, he was never afraid to share his insights and experience

with others. He was a true team player, always putting the needs of others before his own, and his selflessness was something that inspired us all.

He was able to make a colleagues feel seen, heard, and valued. He had a gift for recognizing the potential in people and helping them grow into their best selves. His encouragement and support gave us the confidence to take on new challenges and pursue our dreams.

I'll never forget the times Mr. OKOLA went above and beyond to help me with words of encouragement when I needed them most. HIS impact on my career and personal growth has been immeasurable, and I'm

grateful for the time we had to work together.

As we say goodbye, I want to express my deepest gratitude to Mr. OKOLA ALFRED for being such an amazing colleague and a friend. Your legacy will live on in our hearts and minds, and we will continue to celebrate your memory by carrying on the spirit of kindness, compassion, and excellence that you embodied.

Rest in peace, dear OKOSH "JAYADHAA! ". You will be deeply missed, but your memory will continue to inspire and motivate us to be the best versions of ourselves.

MELDAH N. NYAMBANE

Today I pay tribute to a colleague, friend, and mentor during my internship – a person who greatly influenced my professional and personal growth when I joined the Authority in 2017.

Okola was just a peer who guided me and took the time to nurture, teach, and inspire me. During my internship, he showed me the ropes with patience and encouraged me not only to learn but also to thrive until I got my permanent job.

His generosity in sharing knowledge and experience set a standard I have carried with me ever since. He always approached life and work with a rare blend of professionalism, humility, and warmth, leaving an unforgettable

impression on everyone fortunate to work with him.

It was quite incredible how he remembered certain things in vivid detail for instance when it was all about our processes in the management of records and the confidentiality demonstrated in the same role and that inspired me a lot.

I will always cherish the guidance, stories, the training trips here in Kenya and Arusha, and every moment we shared. Although your journey has ended, your impact and legacy live in the lives you touched. You fought a good fight Rest in peace Alfred Oloo Okola you will always be remembered.

Romans 14 7-9 we do not live to ourselves and we do not die to

ourselves. If we live, we live to the lord and if we die, we die to the lord; so then, whether we live or whether we die, we are the Lord.

He was able to make a colleagues feel seen, heard, and valued. He had a gift for recognizing the potential in people and helping them grow into their best selves. His encouragement and support gave us the confidence to take on new challenges and pursue our dreams.

I'll never forget the times Mr. OKOLA went above and beyond to help me with words of

ELVINER JAMBO

Sorrow fills our hearts this sad moment, a sorrow that is deep and personal. Alfred Okola alias Okosh, you silently closed the door of life and departed from us.

While I mourn your sudden death, I pay tribute and celebrate a life well lived. I will always remember the critical role you played in the

EPRA family (Registry section). When I think of you, I won't remember this moment, instead I will remember the good times we had, your laughter, stories and dedication you had when working with us.

Despite you being sick, you would still perform your duties until your

body ask for a break. This showed your passion to work. I am filled with grief and sorrow. I cherish the memories. I don't know the best way to say goodbye but for now I'll wish you eternal peace my friend and colleague.

Rest In Peace Okosh.

Chrispine Shilwatso (Senior Customer Care Assistant)

With deep sorrow, we remember our dear colleague and friend, Alfred Okola, whose presence brought warmth, dedication, and inspiration to our workplace. Mr. Okola was more than a teammate— Alfred was a guiding

light, always ready to lend a helping hand and uplift those around him.

Okola leaves behind a legacy of hard work, kindness, and unwavering commitment. Though gone, his impact will forever be felt

in the hearts of those who had the privilege of knowing him.

Thank you for your friendship, your dedication, and the countless memories we shared. You will be deeply missed. Rest in peace colleague.







1. The Director General poses for a photo with outgoing Chairperson Justice (Rtd) Prof. Jackton Ojwang and the new Chairperson Mr. George Wanga after the handover ceremony.
2. The Outgoing Chairperson, the new Chairperson and the DG in a tête-à-tête after the handover ceremony.
3. Energy Cabinet Secretary Hon. Opiyo Wandanyi, Energy Principal Secretary Mr. Alex Wachira, and Petroleum Principal Secretary Mr. Mohammed Liban, alongside Chairperson Mr. George Wanga, Board Member Ms. Jennifer Longo'r and the Director General during the signing of EPRA's Performance Contract (PC) for the 2024/2025 financial year at Kawii Complex.
4. The DG receives the results of the 2023/2024 PC evaluation from Mr. Joseph Malonza from the Public Service Performance Management Unit (PSPMU) after the evaluation at EPRA Headquarters.
5. Nyeri County Secretary Benjamin Gachichio (2nd from left) pose for a photo with EPRA officials led by Deputy Director, Public Education & Advocacy Ms. Anne Kiprotich (l), Public Education & Advocacy Officer, Ms. Caroline Mwangi (r), Petroleum & Gas Officer, Mr. Hillary Mengich (2nd right), Electricity Officer, Mr. Sospeter Lotuko (3rd right), Public Education & Advocacy Officer, Mr. Felix Terigin (3rd from left) during a at his office during a courtesy call.
6. Public Education & Advocacy and Consumer Protection Director Mr. Cyprian speaking to Nyeri County National Government Administration officers during an awareness exercise in the county.
7. Deputy Director, Public Education & Advocacy Ms. Anne Kiprotich speaking during a meeting with the County Government of Nyeri staff in Nyeri County.
8. Central Regional Manager, Ms. Yvonne Otsyula follow proceedings during a meeting with County Government of Nyeri staff.
9. Staff and friends of Mr. Robert Mahenia, the outgoing Deputy Director for Legal Services during his farewell ceremony in Nairobi.
10. Ms. Grace Kilonzo leads Mr. Robert Mahenia in cutting a cake in his honour assisted by the DG and the Legal Services Directorate.
11. Mr. Mahenia shares a piece of cake with the DG to celebrate the long standing career of Mr. Mahenia at the Authority.
12. The Legal Services team pose for a group with the outgoing Deputy Director.
13. Mr. Mahenia shares a cake with the Corporation Secretary Mr. Ibrahim Kitoo.
14. Mr. Duncan Ndegwa, Ms. Winny Cheptoo and Ms. Loise Thuge at the farewell ceremony.
15. EPRA staff and Mr. Mahenia's friends at the farewell ceremony.
16. Mr. Mahenia, EPRA colleagues and his best friends at the ceremony.
17. Eng. Tom Simiyu gives a powerful sermon in context of Mr. Mahenia's farewell.
18. Corporation Secretary Mr. Ibrahim Kitoo and Eng. Dr. Joseph Oketch at the farewell luncheon.

MONTHLY NEWS



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