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TCN Transmission News

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- Vice President Kashim Shettima Launches SE Light Up Initiative
- FG to Complete 100 Ongoing Transmission Projects
- Power Minister Commences Nationwide Tour
- Adeleke Visits TCN, Solicits Ede Substation's Completion

TCN TRANSMISSION NEWS

MARCH 2024



Aerial view of the ongoing 330/132/33kV Hybrid Substation at West Main, Lugbe Abuja

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EDITOR'S NOTE

Undoubtedly, these are challenging times not only for our company but for the entire country. However, as the saying goes, when the going gets tough, the tough gets going. This ethos defines the journey of the Transmission Company of Nigeria (TCN) under the stewardship of Engineer Sule Ahmed Abdulaziz, as we persist in our mission to expand the grid and ensure efficient bulk power delivery to distribution load centres nationwide.

Our primary challenges persist in the form of incessant vandalism and suspected deliberate sabotage of our installations. Beyond disrupting power supply, replacing these vandalized installations incurs significant costs for TCN. Consequently, over the past three months, as detailed in this magazine edition, we have redoubled efforts to engage all stakeholders—including security operatives, community leaders, and residents of host communities—to protect these facilities nationwide.

On a brighter note, TCN has collaborated with an international firm to define and validate the scope of works and responsibility matrix for enhancing and digitizing the power grid. Additionally, the deployment of the Generation Dip/Loss Detection System (GLDS) enhances the NCC's ability to detect and respond to sudden grid disturbances, thereby contributing to grid stability.

A notable initiative in this context is the South East Light Up Initiative, recently launched by His Excellency, Vice President Kashim Shettima, aimed at delivering quality and reliable power supply to industrial clusters in the South East region. Similarly, a comparable initiative was launched in the Agbara industrial cluster in Ogun State in late 2023, aimed at bolstering power supply for the country's economic and industrial growth.

TCN is steadfast in its commitment to contributing to the success of initiatives aligned with President Bola Ahmed Tinubu's Renewed Hope Agenda. Under the leadership of Engineer Sule Ahmed Abdulaziz, TCN management collaborates closely with the Minister

of Power, His Excellency, Chief Adebayo Adelabu, to address challenges hindering efficient and effective electricity supply in Nigeria, thereby advancing the Renewed Hope Agenda in the power sector.

We are particularly encouraged by the Federal Government's commitment to completing 100 ongoing transmission projects across the country, as announced by the Minister during a press conference in February. Furthermore, the Minister outlined additional projects slated for attention in the coming months to further fortify the national grid.

Of course, TCN has made significant strides in completing and activating several ongoing transmission projects. Also, over the past three months, critical equipment, such as transformers, are being installed nationwide to facilitate the achievement of our bulk power transmission objectives.

TCN's MD/CEO recently hosted the Osun State Governor, His Excellency, Ademola Adeleke, who departed with the positive news that TCN is nearing completion of the Ede Substation, promising overall improvement in power supply to Osun State and its environs.

Additionally, we welcome the appointment of a new Permanent Secretary in the Ministry of Power, along with new Executive Directors at TCN and executives of the National Union of Electricity Employees (NUEE). We hope their tenures will be fruitful for the power sector.

We invite you to delve into the details of these developments and more in this first quarter edition of our magazine for the year 2024. Happy reading.



Ndidi Mbah
GM, Public Affairs



1 VISION

To be one of the leading electricity transmission companies in the world

2 VISION

- Integrity
- Transparency
- Sustainability
- Professionalism
- Customer Focus
- Teamwork
- Safety

3 VISION

To transmit electricity in a most efficient and effective manner

Vice President Kashim Shettima Launches South East Light Up Initiative in Enugu

By Mary Philip Udom



NDPHC Chairman Engr Chiedu Ugbo, Governor of Anambra State, Chukwuma Soludo, Governor of Imo State, Hope Uzodinma, Vice President Kashim Shettima, Enugu State Governor, Peter Mbah, Governor of Ebonyi State, Francis Nwifuru, Minister of Power Chief Adebayo Adelebu

power supply in the South Eastern States.

The Minister noted that the sector experienced difficulties in liquidity constraints which manifested in payment deficit across the various value chain including payment to gas supply and for power delivered at distribution level.

He appealed to state governments to collaborate with relevant authorities to address litigations issues around Right of Way in the South East.

Governor Peter Mbah of Enugu State, on his part, said that the initiative was a new dawn in the power sector in the South East that will be critical for economic integration.

To enhance electricity capacity and infrastructure in the South Eastern states, Vice President Kashim Shettima inaugurated the Light Up South East initiative on Monday, February 26, 2024. The project which was organized by Niger Delta Power Holding Company Limited (NDPHC) in collaboration with its partners attracted key stakeholders in the nation's power sector.

Speaking, the Vice President said that the journey of the light up programme is a transformative one that will lead to industrial expansion of Nigeria. "our gathering here today is as a result of strategic collaboration between NDPHC and its invaluable partners which will bring new hope in distress for investors".

Shettima commended the Governors of the South East region for their strategic collaboration and support to the federal government in its bid to improve electricity supply in the region and country at large.

Also speaking, the Minister of Power, Chief Adebayo Adelebu said that the flag-off of the project will see to resolution of power supply challenges in South Eastern states. Adebayo maintained that with the light up project initiative, infrastructural deficits that have affected the sector will be addressed to ensure steady

Earlier, in his address, the chairman of the NDPHC, Engr. Chiedu Ugbo, said that the Light up programme will provide an opportunity for business community forum in South East to thrive.

He added that the launching of the South East phase in collaboration with project partners will provide steady electricity supply to the South Easterners for business and economic growth.

The event also included a business round table session, where the Vice President, South Eastern Governors, and participants deliberated on strategies for delivering reliable power to industrial clusters and residential areas in the South East.

Following the launch in Enugu, the Vice President proceeded to Abia State to inaugurate the 181 Megawatt Geometric Power Plant in the Osisioma Industrial Layout. Notable attendees at the launch included Governor Charles Soludo of Anambra State, Governor Francis Nwifuru of Ebonyi State, Barrister Peter Mbah of Enugu State, Senator Hope Uzodinma of Imo State, among others.

FG to Complete 100 Ongoing Transmission Projects

By Inyali Peter



Middle, Honourable Minister of Power, Chief Adebayo Adelabu, flanked by other stakeholders in the power sector

The Honourable Minister of Power, Chief Adebayo Adelabu has pledged that the federal government will complete all the over one hundred ongoing, inherited and abandoned transmission projects situated in different locations in the country.

Adelabu who made the pledge on Wednesday, 14th February 2024, during a press briefing in Abuja, assured that despite the challenges, the power sector under his watch will experience a remarkable improvement as the President Bola Tinubu administration is prioritizing investment in the sector.

He noted that during the recent ministerial retreat, stakeholders in the power sector identified persistent liquidity issues, technical and operational issues, shortage of gas supply to generation plants, inadequate evacuation capacity, fragile transmission lines, poor distribution network and large metering gap as some of the key problems affecting the sector.

The Minister said that the current administration inherited a total of N1.3 trillion debt owed to Gas and Generation Companies.

On the strategies stakeholders have designed to address the issues, he said that "there's need for the settlement of the existing sectoral outstanding debt obligations to the Gas Supply and Power Generation companies using partly cash payment and guaranteed debt instruments. We also want a national discourse on the nation's perspective to electricity supply, whether it is commercial product or social services".

While decrying the burden of subsidy on government, Adelabu noted that "in the 2024 budget, what was provided for subsidy was N450b but the reality is that what's needed for this year alone is over N3 trillion. "So, the nation must decide between implementation of a cost-effective tariff or a cash backed federal government guaranteed subsidy funding regime to inject liquidity into the sector", the minister said.

Speaking on government's efforts to improve transmission infrastructure in the country, he said "we are working to accelerate the Presidential Power Initiative (Siemens Project) with the completion of the pilot phase of the project and commencement of the phase one to increase Transmission

capacity to 8,000MW. Also, we are accelerating talks on the EPC +F super grid projects with two Chinese firms for the Western and Eastern Grid for fall over/back up capacity for national grid to achieve grid stability and capacity expansion”.

He maintained that while investments in upgrading of old and weak 330kV and 132kV transmission substations with new and higher capacity transformers, reactors and other accessories will continue, there will be no new transmission projects in 2014 as all focus will be geared towards completing ongoing projects abandoned due to cost escalation from variations.

Also speaking, the Managing Director/CEO of TCN, Engr. (Dr.) Sule Abdulaziz said that while there are still gaps in the transmission value chain, a lot of improvements have been made

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While decrying the burden of subsidy on government, Adelabu noted that "in the 2024 budget, what was provided for subsidy was N450b but the reality is that what's needed for this year alone is over N2B trillion. So, the nation must decide between implementation of a cost-effective tariff or a cash backed federal government guaranteed subsidy funding regime to inject liquidity into the sector
 ”

in the past few years in the area of grid expansion, upgrading of aged transmission transformers, reconditioning of weak lines amongst others.

Abdulaziz said that “like the Honourable Minister has said, there are some ongoing projects that we inherited that we’ll refocus our attention to complete. We’ll put in more money into these projects to ensure that we complete as many as we can in the next six months to one year”.

He added that “we’re working and investing massively in grid expansion. Since the assumption of office of the new administration, we have completed and commissioned more than twenty power transformer projects. We want to also invite the Honourable Minister that when he’s free, he should join us to commission more that we completed in the last eight months”.



Cross section of participants at the press brief held in Abuja



Quotes

*A man is great not because he hasn't failed;
a man is great because failure hasn't
stopped him*

-Confucius

Minister Adelabu Calls for Federal-State Collaboration to Advance Power Sector Development



Left: Minister of Power, Chief Adebayo Adelabu, with the Nigerian Governors' Forum (NGF) and State Energy Commissioners

Minister of Power, Chief Adebayo Adelabu, met with the Nigerian Governors' Forum (NGF) and State Energy Commissioners on Tuesday, January 30, 2024. The primary objective of the meeting was to strengthen collaboration between the federal government and states, to enhance the delivery of reliable power supply to households, businesses, and underserved communities across the nation.

During the session, discussions centered on the establishment of a sub-national electricity market, the Nigeria Sub-National Electricity Markets Support Programme (NSEMSP), and the National Electricity Policy and Strategic Implementation Plan. Minister Adelabu reiterated the pivotal role of power in fostering economic growth and national development, underscoring the significance of decentralized power distribution to expedite energy provision throughout the country.

Highlighting the critical involvement of state governments, Adelabu emphasized their responsibility across all segments of the power sector value chain, including rural electrification. He announced plans by the Rural Electrification Agency (REA) to

realign its operational structure to maximize impact across the states of the federation.

Adelabu proposed convening a meeting with State Energy Commissioners across the states, and invited the NGF to engage in a roundtable discussion with the REA to ensure equitable distribution of rural electrification projects. He noted that every state is entitled to projects allocation under the rural electrification initiative and urged more synergy between the states and the REA.

"Rural Electrification Agency should collaborate with state rural electrification board for even distribution of benefits of rural electrification in all the states. This is one of the strategies to empower the underserved and unserved communities".

Stressing the importance of collaboration between REA and state rural electrification boards, he said it will enable REA identify priority areas for electrification projects, particularly in underserved communities. He also highlighted alternative funding sources, including support from foreign development partners

available to REA, and informed that there is also the Power Consumer Assistance Fund pooled from a portion of electricity tariff, to enhance power access for the less privileged nationwide.

Addressing challenges related to bill collections, Adelabu appealed to states to assist Distribution Companies (DisCos) in revenue generation. He advocated for administrative unbundling of DisCos along state lines to improve operational efficiency. In line with the new electricity act, he encouraged states to explore opportunities for hydroelectric power generation, leveraging existing small dams and hybridizing hydro with solar energy for sustainable power production.

In his words "One of the plans we have is to utilize rivers in some States to generate electricity . There are small dams that can generate between 500 kilowatts 10 megawatts, we want to encourage States to do that including hybridising the hydro with solar for seamless transition during the dry season when water level is low".

Expressing concerns about power infrastructure vandalism, Adelabu urged state governments to collaborate in safeguarding energy facilities and combating energy theft. He suggested leveraging state security apparatus, such as the Amotekun in the southwest, to apprehend criminals vandalizing power properties.

In an earlier presentation, the Director-General of NGF, Mr. Asishana Okauru, presented a six-page document on areas of concern of the NGF. He reiterated the forum's commitment to collaboration between federal and state governments on electricity matters and emphasized the need for the establishment of a working committee that will include the Ministry of Power and NGF representatives.

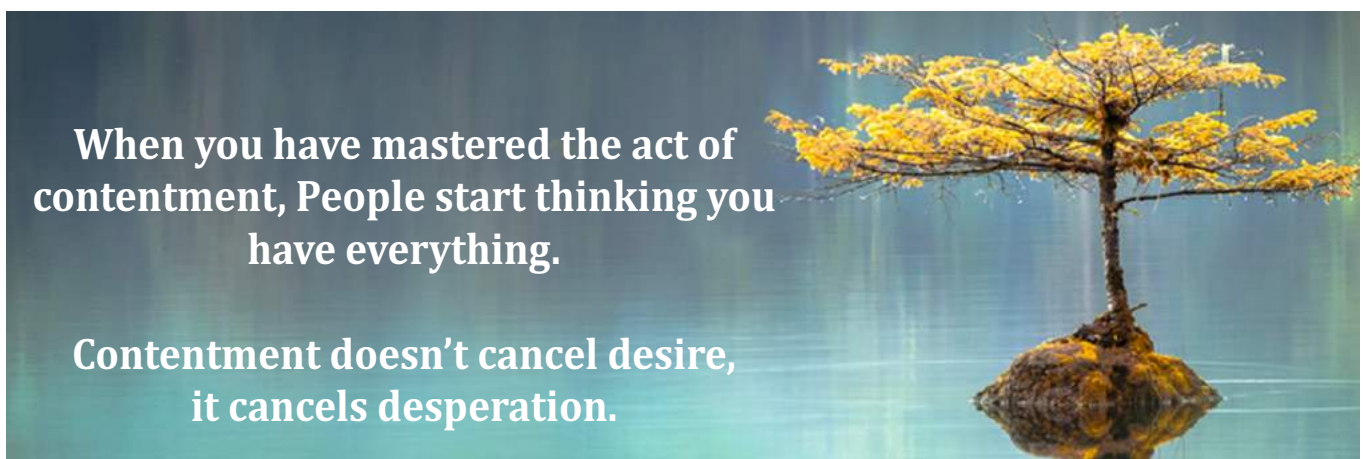
Okauru spoke on the inauguration of the steering committee for



Minister of Power, Chief Adebayo Adelabu and DG NGF, Mr. Asishana Okauru,

the Nigeria Sub-National Electricity Markets Support Programme (NSEMSP), a hybrid technical assistance initiative operating under the auspices of the NGF. This program aims to foster the development of sustainable, competitive, and viable sub-national electricity markets across the country.

Additionally, Okauru advocated for the establishment of a working committee comprising representatives from the Ministry of Power and the NGF. He emphasized the opportune moment for state governments to have representation on the boards of Distribution Companies (DISCOs), alongside the Ministry of Finance Incorporated (MOFI), to enhance collaboration and governance within the power sector.



When you have mastered the act of contentment, People start thinking you have everything.

Contentment doesn't cancel desire, it cancels desperation.

Electricity: Borno Governor Visits Minister Adelabu, Seeks Collaboration

Borno State Governor, Professor Babagana Umara Zulum, recently visited Minister of Power, Chief Adebayo Adelabu, to discuss potential collaboration between the Ministry and the State government.

Speaking during the visit, Governor Zulum highlighted the state's investment of over N500 million in purchasing distribution transformers for various communities and expressed interest in further cooperation with the Ministry to enhance power infrastructure.

In response, Minister Adelabu appreciated the visit and emphasized the importance of collaboration between state and federal entities in improving electricity provision, acknowledging Governor Zulum's efforts. He also mentioned ongoing federal government projects designed to expand the transmission network, aiming to boost bulk electricity transmission to distribution load centers. According to the Minister, "The grid projects will strengthen the transmission network and create alternative transmission corridors to avoid grid collapse".

The Minister commended Governor Zulum's commitment to enhancing electricity access and stressed the significance of state involvement in power infrastructure development. He noted that by investing in transformers and electricity poles which is distribution network extension, the Governor has further confirmed the assertion that the States need to be involved in the provision of power infrastructure.

Referencing the Electricity Act of 2023, which allows states to participate in the electricity market. Adelabu emphasized that distribution companies should provide necessary infrastructure without burdening end-users and highlighted interventions by federal and state governments, including agencies like the Rural Electrification Agency, to electrify under-served communities.

In his words, "while there will be interventions from Federal and State governments. federal agencies such as the Rural Electrification Agency will also intervene in electrifying communities that are not commercially viable for the distribution companies".

The Minister also urged Governor Zulum to prioritize security measures to safeguard power infrastructure, citing recent incidents of vandalism and disruptions in the North East zone which cost a lot of money to repair. He noted that such acts of sabotage hinder progress and threaten investments in the sector. The minister particularly condemned the recent destruction of power towers in the North East zone which led to the death of a security personnel and disruption of electricity to some States in the zone.

In his words, "Although we immediately commenced the repair, it is quite discouraging when government spends so much and these assets are vandalized".



Minister of Power, Chief Adebayo Adelabu, and Professor Babagana Umara Zulum, at the office of the Minister of Power

Adeleke Visits TCN, Solicits Speedy Completion of Ede Substation

By Jumoke Dare

The Governor of Osun State, Senator Ademola Adeleke, has appealed to the Transmission Company of Nigeria (TCN), to expedite the completion of the ongoing construction of a new transmission substation at Ede, Osun State.

The Governor who made the appeal while on a visit to the Corporate Headquarters of TCN on Monday, January 2024, disclosed that the 2x60MVA, 132/33kV Ede Transmission Substation is a crucial project that when completed, would improve the economy of Ede and the entire state.

While congratulating the Managing Director, TCN, Engr. (Dr.) Sule Ahmed Abdulaziz on the many projects TCN has completed across the country, he specifically commended their commitment to duty and contribution to power supply in Osun State. He also stated, "Osun State is a key stakeholder in Nigeria's Electricity System as it houses the National Control Center (NCC), a power center in the country and has been a good host to TCN and other stakeholders."

He said that the Ede Substation project, which started during the administration of late President Umaru Yar'Adua, stalled in 2010. According to him, "About three years ago, work started again. Presently, the project has reached between 80 to 90 percent completion. We seek your support for the urgent completion of the project. An early completion will enhance power supply across Osun West and beyond".

Responding, Engr. Abdulaziz assured that the substation, which is 90% near completion, would be completed, commissioned and energized before the end of 2024. He attributed the delay in project completion to inadequate funding stating "The greatest challenge of TCN is

lack of funding as transmission projects are very costly; same funding constraints delayed the Ede Substation project for a long time."

The TCN MD noted, "The contractors having been paid a little more has almost finished with the procurement of equipment, the foundation, and some stringing. The main thing holding the project is approval of variations submitted to us by the contractor. We have submitted the same to the appropriate quarters for approval. Once approval is given, the contractor has assured that the project will be commissioned before this year ends."

In addition, Engr. Abdulaziz disclosed that the Double Circuit Transmission Line to power the 132/33kV Ede Transmission Substation has been completed. "One of the circuits is presently feeding 132/33kV Iwo Transmission Substation. Since the transmission line which is more tedious to build has been completed, I have confidence that the substation will have power supply energized before the end of the year."

Buttressing what the TCN MD said, the Ag. ED, Transmission Service Provider (TSP), Engr. Shehu Abba Aliyu confirmed the reasons for the delay in completing the project. He disclosed the need for ongoing civil work to install protection wall for durability of the substation after commissioning.

"The variations submitted by the contractor have to undergo concurrent approvals by the Nigerian Electricity Regulatory Commission (NERC) and the non-objection by the Bureau of Public Procurement to complete the substation project," he said.



Group photograph of TCN management team and the Governor of Osun State

WAPP North Core transmission Project to Alleviate Energy Poverty Across Countries

By Stella Ejikonye



WAPP Secretary General Mr. Apollinaire Siengui Ki, and GM Programme Coordination, Engr. Tahir Aminu,

The West African Power Pool (WAPP) held the Seventh Joint Supervision Committee meeting of the WAPP North Core project, in Abuja, Nigeria on the 12th of January, 2024.

Speaking during the meeting, Engr. Dr. Sule Abdulaziz, Chairman of the Executive Board of WAPP and Managing Director / CEO of Transmission Company of Nigeria (TCN), underscored the significance of the cross-border transmission project in addressing energy poverty in unserved and underserved communities across participating nations.

Engr Abdulaziz who was represented by the General Manager Programme Coordination, Engr. Tahir Aminu, outlined the ambitious scope of the project, highlighting the construction of 880 kilometers of 330kV and 33 kilometers of 225kV high voltage transmission lines. Additionally, he said the project entails the establishment/expansion of five substations and the integration of advanced technologies such as SCADA systems and fiber optic cables. Beyond mere electricity transmission, the project seeks to establish a dynamic interconnected network poised to revolutionize energy landscapes.

Emphasizing the project's broader objectives, the Chairman stressed that it will facilitate efficient energy trade, fostering commercial agreements, and extend electricity access to communities along the transmission route. 'This visionary initiative transcends infrastructural development; it aims to intertwine the destinies of participating countries, catalyzing

socio-economic progress', he said.

He further underlined the project's regional significance, citing its alignment with the spirit of unity within the ECOWAS region. He said the initiative is a pivotal step towards eradicating energy poverty and enhancing living standards, particularly in marginalized areas with limited electricity access in the region.

'The North Core Project represents a beacon of hope for underserved communities, promising not only reliable electricity, but also serving as a catalyst for socio-economic advancement', Abdulaziz said while calling upon all stakeholders to prioritize constructive dialogue aimed at overcoming challenges and ensuring the project's successful delivery.

Addressing the press, WAPP Secretary General Mr. Apollinaire Siengui Ki provided further details on the project, indicating its length exceeded 880 kilometres. He attributed insecurity along the route as one of the unforeseen circumstances delaying the execution of the project which has led to extending the completion timeline to 2026. Ki highlighted the importance of the committee's discussions, focusing on financial plans, project implementation status, security strategies, and other strategic considerations essential for expediting the project's delivery.

Recognizing the project's significance, stakeholders emphasized its role in breaking the shackles of energy poverty and uplifting communities. They noted that by prioritizing underserved regions, the North Core Project promises to unlock socio-economic progress and elevate living standards.

The journey of the North Core project dates back to late 2019, with the establishment of the WAPP North Core Project Management Unit in Abuja. Since then, it has evolved into a testament of collaborative efforts, drawing support from a myriad of institutions and individuals.

The meeting was attended by heads of utilities, director's general, executive officers, and ministry representatives from beneficiary countries. Technical and financial partners playing very pivotal roles in advancing the WAPP North Core Project, including the African Development Bank, the European Union, the French Development Agency, and the World Bank, were also acknowledged for their pivotal roles in advancing the project.

Mamudah Assumes Office as Power Ministry's Permanent Secretary

By Inyali Peter



Signing of the handover notes between the outgoing and incoming Permanent Secretaries

Mr. Mamudah Mamman, has assumed office as the new Permanent Secretary, Federal Ministry of Power.

According to a statement by the Ministry's Director of Information, Mrs Florence Dibiazue-Eke, Alhaji Mamudah commenced his duties on Friday January 19, 2024.

Following his redeployment from the Federal Ministry of Works, he succeeds Mr. Temitope Fashedemi who has been reassigned as Permanent Secretary, Federal Ministry of Agriculture and Food Security.

In his inaugural address, Mamudah noted that success is a collective responsibility, and pledged his commitment and readiness to collaborate effectively with the staff of the ministry. He solicited the support and cooperation of Management and staff of the Ministry, and assured them of his intention to lead with transparency, openness and accountability.

The new Permanent Secretary promised to foster peace within the Ministry, so that collectively efforts will be aligned to realize the objectives outlined in President Bola Ahmed Tinubu's "Renewed Hope Agenda" particularly in the area of ensuring

affordable, reliable, and consistent power supply.

On his part, the outgoing Permanent Secretary, Mr. Fashedemi, expressed gratitude to the Management and staff of the Ministry for their collaborative efforts and the harmonious working relationship he enjoyed while at the Ministry of Power.

He enjoined the management and staff of the Ministry to extend the same level of support to his successor, to ensure continuity and seamless transition.

Responding on behalf of the Management and Staff of the Ministry, the Director, Human Resources Management, Mrs. Victoria Adeosun, extended a warm welcome to the new Permanent Secretary. She assured Mamudah of their full support and cooperation, and affirmed their readiness to adhere to his directives in pursuit of the Ministry's goals and mandates in line with Mr. President's Agenda.

Highlight of the occasion was the formal signing and presentation of handover notes by the outgoing Permanent Secretary to the new one, Mr. Mamudah Mamman, symbolizing the transition of leadership within the Ministry.



Mahmuda Mamman

Permanent Secretary, Ministry of Power,

Alhaji Mamudah Mamman was deployed as the Permanent Secretary, Federal Ministry of Power by President Bola Tinubu and formally assumed office on the 19th of February, 2024. He took over from Mr. Temitope Fashedemi who was reassigned to the Federal Ministry of Agriculture and Food Security.

Mamman, hails from Potiskum, Yobe State. He holds a B.Sc in Political Science from the University of Maiduguri. He started his Federal Civil Service career in January 2001 as a Principal Administrative Officer and rose through Promotion to the position of Director (Administration) in January 2018.

In the course of his career, he served in various Ministries including, the Office of the Head of Civil Service of the Federation, the Office of the Secretary to the Government of the Federation, Federal Ministries of Education, Health, Transport, and

Power as well as Ministry of Defence.

Prior to his appointment as the Permanent Secretary, Ministry of Power, he was the Director, Human Resource Management at the Federal Ministry of Humanitarian Affairs, Disaster Management and Social Development. Mr. Mamman was appointed as a Permanent Secretary and sworn in by His Excellency, President Muhammed Buhari in August 2020.

Before his deployment to the Federal Ministry of Power, he was the Permanent Secretary, Federal Ministry of Health from 13th August 2021 - 22nd May 2023 and Federal Ministry of Works and Housing from 22nd May 2023 - 9th January 2024. He was also the Permanent Secretary, Career Management Office (CMO), Office of the Head of Civil Service of the Federation from 20th August 2020 - 13th August 2021.

TCN's NEW EXECUTIVE DIRECTORS



Engr. Oluwagbenga Emmanuel Ajiboye is the Executive Director, Transmission Service Provider (TSP), one of the two Business Units of TCN. He was appointed in March, 2024 and assumed office on 1st March, 2024.

Before his appointment by President Bola Ahmed Tinubu, he was the General Manager (Transmission Services), TCN Headquarters Abuja, having held several other positions, prior to that, including General

Manager (Transmission), Lagos Region from 2020 to 2022 and Assistant General Manager (Transmission), Egbin Sub-Region from 2016 to 2020.

Engr. Ajiboye earned a Master of Engineering (MENG) in Electrical & Electronics Engineering from Bells University, Ota, Ogun State, a Master of Science (MSC) in Information Technology from the National Open University, Akoka Lagos, and a Master in Business Administration (MBA) from the Federal University of Technology, Akure. He has actively participated in international conferences and seminars, showcasing his commitment to continuous learning.

He is a fellow of the Nigerian Society of Engineers (NSE), member of the Council of Registered Engineers of Nigeria (COREN), and a Member of the Nigerian Institute of Management (NIM).

Engr. Ajiboye's dedication to professional development in engineering is evident in the several successful engineering projects he had undertaken, including installation of transformers, leader in the coordination of protective relays, nationwide, configuration and adaptation of circuit breaker failure relay, upgrade of transformers, configuration, installation setting and commissioning of distance relays.

Engr. (Mrs.) Nafisat Ali Is the Executive Director, Independent System Operation (ISO). Appointed in March 2024, by President Bola Ahmed Tinubu, she heads one of the business units of TCN.

Prior to her appointment, she was the General Manager, System Operations and earlier, the Assistant General Manager, Grid Metering. Her career has been marked by a progression through various roles, including Principal Manager, Senior Manager, and Manager (Protection, Control & Metering).

Engr. Nafisat holds a Bachelor of Engineering Degree in Electrical Engineering from the Ahmadu Bello University, Zaria, Kaduna State. Her commitment to professional development is evident through her active participation in numerous international conferences and seminars. She holds fellowships with prestigious organizations such as the Nigerian Society of Engineers (NSE) and the Nigerian Institute of Power Engineers (NIPE), in addition to being a member of the Council for the Regulation of Engineering in Nigeria (COREN).

Her wealth of experience encompasses pivotal roles, including Project Coordinator for the construction of the New National Control Centres in Gwagwalada and Osogbo. Notably, she chaired the Committee on the Conduct of Stress Tests on DisCo Facilities/Network, spearheaded the Under-Frequency Load



Shedding (UFLS) Scheme Review and Implementation Committee, and led the Evaluation Committee for the Rehabilitation of SCADA System in Transmission: NTP – TR6B.

Engr. Ali's dedication to excellence and her contributions to critical projects underscore her invaluable leadership within the Nigerian electricity sector. Her expertise and commitment to advancing the industry serve as a testament to her remarkable career trajectory and her unwavering dedication to the nation's energy infrastructure.



Mr. Chukwuka Ogin Ochiye is the Executive Director, Finance & Account.

Prior to his appointment in March 2024, he served as the General Manager heading the Audit and Control Division of the Independent System Operation (ISO) from December 2016 to 2024. Before that, he was the Assistant General Manager (Audit) for Field Operations in the Transmission Service Provider (TSP) from October 2013 to

December 2016.

Mr. Chukwuka Ochiye holds an MBA and a Bachelor of Science degree in Accountancy from the University of Nigeria, Nsukka, Enugu State. He has attended several international conferences and trainings, including the "PURC/World Bank Leadership International Training Program on Utility Regulation and Strategy" at the University of Florida, USA, in 2023, and the "Inspection/Review of ORACLE ERP Acquisition for TCN" in Texas, USA.

Mr. Ochiye serves as the Chairman; the TCN Anti-Corruption and Transparency Unit (ACTU), the Committee for Monitoring and Operational Compliance of TCN Fiber Optics Concession, and the Committee on Review of Monthly Funding of TSP, SO, and MO. And also achieved significant cost savings through the review of contract invoices, ensuring adherence to policies and regulations.

He has authored four scholarly articles in international journals, and is a fellow, Institute of Chartered Accountant (FICAN), Chartered Institute of Management (FNIM), and Associate, Chartered Institute of Taxation (ACIT).

Mrs. Abiodun Folunso Afolabi is the Executive Director, Human Resource & Corporate Services, TCN. She was appointed in March 2024 by President Bola Ahmed Tinubu.

Prior to her appointment, she served as General Manager (HR& CS), Independent System Operation (ISO). This was preceded by roles as Assistant General Manager (2012-2019), Principal Manager (2013-2019), and Senior Manager (2006-2010).

Biodun holds a Master of Arts (MA) in English from the prestigious University of Lagos, Nigeria in 1992, and equally earned a Bachelor of Arts (BA) in English from the same institution.

She is a fellow of the Chartered Institute of Administration and the Institute of Conflict Management & Negotiation Analysts, specializing in Corporate Conflict Management & Negotiation. Additionally, she is actively pursuing memberships with the Chartered Institute of Administration, Chartered Institute of Human Resource Management, and Chartered Institute of Personnel Management.

During her tenure as General Manager (HR& CS) ISO, Mrs. Afolabi



played a pivotal role in formulating and implementing comprehensive human resource policies, encompassing staff recruitment and promotion, administrative welfare, pension matters, and ensuring stringent compliance with employment laws and regulations. Her expertise extends to actively contributing to the creation of pivotal policies, processes, and documents that has helped in shaping the organization.

Minister Commences Nationwide Tour

By Tracy Kadiri



Minister of Power, Chief Adebayo Adelabu, addressing pressmen at the Oyo State Governor house

The Honorable Minister of Power, Chief Adebayo Adelabu (FCA, FCIB, OFR), kicked off his nationwide facility tour in Ibadan, Oyo State, on Monday, January 15, 2024. Accompanied by the MD/CEO of TCN, Engr. Dr. Sule Abdulaziz, and the management team of TCN Osogbo Region, the Minister began the tour at TCN's 330/132/33kV Ayede Transmission Substation in Ibadan.

Addressing staff at Ayede Substation, the Minister highlighted the importance of conducting a thorough diagnosis of Nigeria's power sector, significance of extensive stakeholders consultations, and a strategic retreat to devise practical solutions to sector challenges.

The Minister emphasized that the purpose of the tour is to assess the state of power installations in the country, address staff challenges, and support President Bola Ahmed Tinubu's 'Renewed Hope Agenda' for the power sector.

Discussing plans to upgrade TCN's facilities, the Minister revealed intentions to build another 330kV substation in Oyo State to

serve additional communities without overburdening existing infrastructure. He emphasized the need to modernize appliances and infrastructure at Ayede substation to enhance performance. In his words "The intention is also to modernize, the appliances and infrastructure that we have here, so that the performance will actually improve"

Regarding the vandalization of power equipment, the Minister condemned such acts as sabotage and assured that concerted efforts, in collaboration with security agencies, to safeguard installations will be taken. He however added that "the job of security is not just for the security personnel alone, but all of us. So any sign of strange movements must be reported".

During his visit to the Ibadan Electricity Distribution Company (IBEDC), the Minister outlined government priorities, including the Presidential Metering Initiative (PMI), infrastructure improvement, and rural electrification. As the chairman of PMI, he emphasized efforts to harmonize meter acquisition initiatives to close the metering gap in Nigeria within 3-5 years. He assured that an average of 2 million meters would be acquired yearly for

the stated period.

The Minister urged IBEDC to accelerate metering processes to enhance transparency in billing and emphasized the government's commitment to creating conducive regulatory environments for power sector operators.

To ensure seamless bulk power transmission, the Minister encouraged collaboration between IBEDC and TCN, stressing the importance of a feedback mechanism to identify areas requiring infrastructural improvements.

Additionally, the Minister and his team paid a courtesy visit to the Governor of Oyo State, His Excellency Oluseyi Makinde. Subsequently, they inspected TCN's new 132/33kV Oyo Transmission Substation in Oluewu Oyo town and the ongoing



At TCN's new 132/33kV Oyo Transmission Substation in Oluewu Oyo

construction of TCN's 132/33kV Ogbomoso Transmission Substation project in Oyo State.



At TCN's 330/132/33kV Ayede Transmission Substation in Ibadan



Visit to the Ibadan Electricity Distribution Company (IBEDC)



Minister of power and his inspection tour team in a group photograph with the Governor of Oyo State, His Excellency Oluseyi Makinde

Quest for Digital Solution: TCN Deploys GLDS for Grid Reliability

By Jumoke Dare

There is no question that technology plays an undisputable role in getting electricity into homes and businesses in Nigeria. Technology will only become more crucial being a major factor that determines the capacity of the Nigerian Electricity Supply Industry (NESI) to meet the demands and expectations of electricity consumers.

The Transmission Company of Nigeria (TCN), as one of the key players in the power industry understands the evolving technologies required in carrying out its mandate, especially in grid management and is not relenting in its efforts to ensure there is an effective grid monitoring system that eventually leads to sustained grid stability. It is clear that technology can improve the reliability, efficiency, safety and security of the electrical grid.

It is not gainsaying that Nigeria still battles system collapses due to many factors. Among them are various concerns such as gas constraints, water management challenges, gas pipeline vandalism responsible for power generation fluctuation that continues to affect the grid negatively.

Recall that the partial system disturbance on February 4, 2024 was because Sapele Steam and Egbin Stations lost a total of 29.3MW and 343.84MW at 11:20:14 Hours and 11:20:17 Hours respectively, totalling 373.16MW. This, combined with the current low power generation due to gas constraints, caused the imbalance leading to the partial system disturbance.

For effective grid management and control, the Grid Controllers at National Control Center (NCC), Osogbo have to view every part of the grid to accurately gauge situations and take immediate remedial measures to guarantee grid reliability. Before the present leadership of Engr. Dr. Sule Ahmed Abdulaziz, only six (6) out of 27 generators were visible to NCC. Determined to move forward on grid visibility, TCN jettisoned the previous approach of waiting for the completion of the Supervisory Control and Data Acquisition System/Energy Management System (SCADA/EMS) for the visibility level to increase. While TCN acknowledged that it was ideal to have an established SCADA system, the company also recognized that little things done could make a great impact while waiting for the full implementation of the big SCADA.

TCN Engineers took up the challenge and came up with an in-house design that leverages on "Internet of Things" (IoT) to get data in near real time from all the generators and some

substations. Recently, they deployed the IoT devices to capture the generation from Taopex Gs and Zungeru Hydro Power Station, bringing the total number of power stations visible to the National Grid to 29 and ensure effective monitoring of the grid load. This stop-gap solution was intended to be operational for grid management pending the completion of the deployment of the state-of-the-art SCADA/EMS.

In a bid to continue to meet its mandate, TCN has deployed another application named "Generation Dip/Loss Detection System (GLDS)" to help the National Control Center (NCC), Osogbo, the grid controllers, to easily detect and identify sudden drop/dip in generation loss across the network. According to the General Manager, Research & Innovation (ISO), Engr. Jude Agupusi J, "the need to detect and respond to sudden grid disturbances is imperative for grid sustenance". He stated, "The Generation Dip/Loss Detection System (GLDS) provides relief to the NCC, Osogbo; it is to not only know the source of sudden generation loss in the power grid, but also provide timely and accurate detection system for taking appropriate actions, to prevent cascading failures and enabling prompt restoration measures as the case may be."

Engr. Agupusi explained that the GLDS has three major interfaces namely Setting, Monitoring and Report Interface. The Setting Interface allows the grid controllers set conditional parameters like the option of power drop calculation, the number of sample data and the percentage drop in generation to be detected. The Monitoring Interface enables them to see all the power stations with their real-time loads and a red flag notification on the power stations violating the set points coupled with alarm and an acknowledgment or ignore button to clear the red flag or stop the alarm. The last is the Report Interface, which keeps the archive of past events and enable the grid controllers to query the system for a specific period.

He went further to explain "The Real-time Monitoring feature of the GLDS enables continuous monitoring of grid parameters, which includes active power, voltage, and reactive power while the Data Analytics and Machine Learning capacity employs machine-learning algorithms to analyse the real-time data to help identify patterns associated with sudden generation loss/dip. These algorithms can learn from sampled data and adapt to evolving grid conditions." In addition, it adopts "Anomaly Detection techniques to recognize deviations from normal grid

behaviour and sudden changes in parameters trigger alarms for further investigation. The company ensures the GLDS is internet connected as there is seamless communication between detection system and IoT cloud server to facilitate rapid response and coordination of mitigation strategies”, according to him.

Agupusi said the GLDS would help to enhance grid resilience and prevent blackouts due to early detection of sudden dip as it allows proactive measures to prevent widespread grid disturbances. In addition, the NCC Team will be able to evaluate each generator’s actual performances with respect to documented values. This is because the System has helped to classify plants in the grid into Turbine Exhaust Temperature Control Generators, Free Governor Mode Control Generators and Constant Output Generators.

It is noteworthy that TCN has recorded some technological achievements through its engineers in a bid to manage the grid efficiently. Currently, all the generators on the grid are visible on the grid, with a substantial amount of the substations visible to NCC. This in-house solution to the perennial visibility problem has shown that while waiting for the big idea to mature, TCN can leverage on small solutions that germinate fast and make big impacts.

TCN created Nigeria System Operators of National Grid (NSONG) Compiler to extract generation data from the NSONG Portal. NSONG has in-built Generator Dispatch Tool (GDT) and Distribution Dispatch Tool (DDT) for the Generators (GenCos), Distribution Companies (DisCos) respectively, and the NCC to enhance seamless and transparent interaction. Through NSONG, NCC dispatches operational and guidance instructions to GenCos & DisCos, ensuring transparent and seamless communication

within the Electricity Grid.

Load Allocation Tool caters to the System Planners to streamline power grid management by automating load allocation calculations, considering; stress testing, line limitations, and DisCo constraints. In the same vein, the Load Distribution Tool helps System Operators to distribute allocated load to DisCos through transmission stations while enabling seamless monitoring. Furthermore, TCN came up with Dynamic Generator Load Chart to assess the efficiency of generators in the grid and compare load characteristics with system frequency, providing insights into individual station dynamics. The Weather App provides the grid controllers with detailed and reliable weather information for any transmission and generating station in the power grid. With an intuitive interface and a range of features, they can stay informed about current and past conditions and plan with accurate weather forecasts”.

The Generation Loss Detection System is a critical component in maintaining the reliability and resilience of the power grid. Leveraging on advanced technologies and analytics of IoT stream event data log, this system plays a pivotal role in early anomaly identification, prompt response, ultimately contributing to a more robust, and secure grid.

The management team led by Engineer Abdulaziz signed a contract for a new Supervisory Control and Data Acquisition System/Energy Management System (SCADA/EMS) and Communication Systems upgrade, replacing the outdated NEPA-era system. While the upgrade of the SCADA/EMS is ongoing, TCN acknowledges the responsibility to keep maintaining the grid and devising in-house small-scale technological solutions to sustain this critical element.



Control Room at NCC,Osogbo with mimic board display

TCN Meets Huawei for Power Grid Enhancement, Digitization Project

By Grace Sambe - Jauro

In a strategic move to modernize the nation's transmission system, the Transmission Company of Nigeria (TCN), has met with Huawei Technologies Co., Nigeria Ltd, to define and validate the scope of works and responsibility matrix for the Power Grid Enhancement and Digitization project - phase 1.

involve Business Expansion (2027 - 2028), National Broadband, to build national broadband network, and commercial DC, increase the revenue, while Phase 3 will involve Digital Operation (2029 - 2030), Intelligent Operation and Maintenance. Enhance efficiency, reliability, and customer satisfaction.

The meeting which held on Tuesday, February 6th, 2024 at the TCN Headquarters, Abuja, discussed progress of the Power Grid Enhancement and Digitalization Project, following the signing of the Memorandum of Understanding (MoU) in October 2023.

He further disclosed that the project will support the gradual construction of a robust smart grid in Nigeria, thereby contributing significantly to the country's overall economic development. He outlined the direct and indirect economic values of the project.

Mr. Sam Orji, representing Huawei's Sales Electricity Sector, unveiled the developments in the initiation process of the project, emphasizing its role as a catalyst for the digital transformation of Nigeria's power grid. He highlighted the collaborative efforts with the Project Coordinator and major stakeholders within TCN.



Cross section of TCN and Huawei team

He provided an insightful overview of the Terms of Reference, the current status of TCN's grid digitalization, status of communication links to all substations, the Scope, the anticipated impact of the on the grid, the Integration with the deployed TCN's grid visibility solution, and the financial dynamics of the proposed project.

In a brief presentation, Huawei's Product Solution Manager, Mr. Aliyu Isah, disclosed that the proposed digital transformation roadmap for Nigeria's power industry is in three phases. According to him, Phase 1 would involve Infrastructure Construction (2024 - 2026) which will include communication backbone + cloud, building Digital Transformation foundation, and improvement of grid reliability and security. Phase 2 will

The direct economic values are; enhancing power grid reliability, minimizing faults, and reducing recovery time, intelligently monitoring substations for efficient dispatching, improving office and production efficiency, supporting renewable energy development, and providing value-added services for increased revenue and ICT development.

The indirect economic benefits encompass improved dispatching efficiency, optimized power grid resource utilization, increased electricity transmission capacity, reduced line loss, fostering digital talent development for employment, and lowering electricity costs to boost living standards and economic development in Nigeria".

The meeting ended with a consensus to establish a committee comprising key stakeholders and representatives from user departments within TCN. This committee will oversee the execution of the Power Grid Enhancement and Digitalization Project Phase 1.

Power Minister Tours GenCos, DisCos in Benin City

By Chigozie Clement



Minister of Power, Chief Adebayo Adelabu and Managing Director of BEDC, Mr. Deolu Ijose

As part of an extensive inspection tour of power projects, the Minister of Power, Chief Adebayo Adelabu, accompanied by some of his officials, visited the Benin Electricity Distribution Company (BEDC) on Friday, February 23rd, 2023.

During the visit, Chief Adelabu revealed that the Federal Government has made significant investments to enhance the power sector, but these investments are not fully utilized. He urged the Disco to publicize the names of electricity debtors, emphasizing that electricity is not a free commodity. He also pledged his full support to combat energy theft.

Highlighting the rampant energy theft in the country, Chief Adelabu announced government's intention to introduce a bill in the National Assembly to address the issue. He reassured Nigerians of President Bola Ahmed Tinubu's commitment to improving power supply nationwide and promised swift resolutions of challenges in the industry.



Group photograph of power stakeholders with the minister of power

In response, Mr. Deolu Ijose, Managing Director of BEDC, acknowledged challenges such as meter bypass leading to financial losses. However, he noted the company's efforts to connect communities to the national grid and provide feeders in its franchise states.

Chief Adelabu's itinerary also included visits to two generating companies, Ihovbor and Azura, under the Niger Delta Power Holding Company (NDPHC). While Ihovbor possesses four turbines capable of producing 125MW each, only one turbine is currently operational due to gas shortages and debt payment issues. Chief Adelabu emphasized President Tinubu's directive to address the issue of outstanding debts owed by generating companies.

Commending Azura Power Plant for its optimal operational capacity, Chief Adelabu noted its significant contribution of approximately 460MW to the national grid daily. Azura's efficient operation, boasting three fully functional turbines, garnered praise from Engr. Edu Okeke, who attributed the plant's timely completion and operational excellence to technical expertise and commitment of staff. He emphasized the importance of uninterrupted gas supply to power turbines, underscoring the necessity of competence, commitment, and patriotism in the electricity generation sector.

TGN

Maintenance Spinning reserve
Switch yard Eastern backbone Wire duct EIA
152kilovolts Substation Power outage Capacitor bank ERP
Guard line Control room Load centers Backfeed Cross arms
Conductors Frequency Insulators Cable trench Harmonic System disturbance
Relays TransysCo Load allocation Tower Unutilized load Megawatts hour Harmonic filters
330kilovolts Commissioning
Vandalism High voltage Radial line Three-phase
Transmission Turbine Lighting arresters Single-phase Metering Ground grid
Equipment upgrade Earth wire Bypass ALS Data GIS N-1 N-2 Energy
33kilovolts Wheeling power TRANSMISSION COMPANY OF NIGERIA Surge protectors Shunt reactors
Voltage Electricity SCADA system Bus bar protection Tower members
Bus voltage Grid Earthing transformer Circuit breaker Excavation
Terminal tower Control rooms Tension tower
HVDC (high voltage direct current) Power interruption
Injection substation

VANDALISM:

DESTROYING OUR NATIONAL ASSET

By Ndidi Mbah

The vandalism of power infrastructures is frequently highlighted in the media, and rightfully so, due to its significant impact on lives and businesses. The wanton destruction of power infrastructure for personal gain undermines our pursuit of a robust and efficient transmission grid.

Amazingly, vandalism has become a game of 'catch me if you can' and to beat them in this game, we must all start thinking out of the box, including asking our technological institutions to look into the use of technology to outsmart the miscreants in this disgraceful game of shame and wickedness. This act has continued to destroy our collective national assets as well as reduce efforts put into grid enhancement.

In the first quarter of the year 2024 alone, we have had seven cases of vandalism in the country, which caused the collapse of fourteen towers.

It is no longer news that TCN has had to keep reconstructing the vandalized towers each time they are destroyed. It is also factual that most of the communities where these incidences take place know that the towers and lines transmit electricity and therefore should not be tampered with, so why are the vandals not readily apprehended? How do they repeatedly cart away tower members without being seen or challenged by citizens in the affected communities?

Amazing as it may sound, several perpetrators have actually been electrocuted in the process of vandalizing power equipment and the pictures circulated widely. But has it stopped others from trying? No, it is sincerely difficult to understand why men would woo death while destroying equipment installed to ensure that life is made easier for them and others.

Today, prices of items are scaling up and so is the price of replacing vandalized tower members and cables for



One of the four towers vandalised along the Jos - Gombe 330kV Transmission Line

transformation of bulk electricity. Basically, our stand as a nation with regards the issue of vandalism of electricity installation has to be reassessed. No doubt, there are terrains that are difficult to access and therefore more difficult to effectively survey. But like earlier noted, we must begin to look at 'a Nigerian Solution' using technology and native intelligence.

For instance, the government can make laws that hold every community responsible for installation in their communities and made to pay for their replacements, if they are unable to take care of them by ensuring their safety.

Awards can be instituted for communities that apprehend

vandals and hands them over to the police. Capital punishment feels so hard and unreasonable but something has to be done to prevent the growing fever of destroying our collective assets and selling them for selfish personal gains.

Also, the stakeholders in the power supply value chain need to do more public enlightenment, including building corporate social projects to encourage participation in the fight.

The market place is also strategic to the plight for every item stolen. If the market does not exist, the vandals will not vandalize the towers and power cables. Security operatives must help in sifting that market place, using all forms of intelligence gathering. The reason is simple, if no one is buying, no one will sell and, in this case, the penalty that applies to the vandal should be same for the buyer. Drastic measures have to be taken.



Loosened bolts on a tower

The vandalism fight is one that we must strategically win, if the power sector is to continue to grow. By no means, it is not the only problem bedeviling the power sector but it is one of the 'major' fights that we must win because the cost is enormous, and by reason of grid connectivity, one incident would usually have very extensive effect beyond states and sometimes the whole nation.

The issue of vandalization cannot be handled by the power companies alone. On the other hand, treating the issue of vandalism like an ostrich with its head buried in the ground will get us nowhere. The solutions must be at hand and the punishment intense without an avenue for escape. Also, any investigation that reveals complicity by any person or groups should be dealt with.

VANDALISED INSTALLATIONS FROM 2024 TO DATE

S/N	VANDALISED INSTALLATIONS	REGION	No. OF VANDALISED TOWERS	DATE	REMARKS
1.	132kV Jos-Bauchi Single Circuit Transmission Line	Bauchi	Tower 388	February 1	Totally collapsed
2.	330kV Gombe-Damaturu Transmission Line	Bauchi	Towers 377 and 378	February 23	Totally collapsed
3.	330kV Gwagwalada-Katampe Transmission Line	Abuja	Tower 70	February 26	4 footings of Tower destroyed
4.	330kV Shiroro-Katampe Transmission Line	Abuja	Towers 244 and 245	March 9/10	Vandalised, stolen conductors
5.	132kV Owerri-Ahoada Transmission Line	Port Harcourt	Towers 145 to 149, 201 to 218	February 15	Tower members carted away
6.	132kV Kontagora-Yauri Single Circuit Transmission Line	Bauchi	Towers 38 to 40	April 5	Totally collapsed
7.	330kV Jos-Gombe Transmission Line	Bauchi	Towers 288 to 291	April 22	Tower members carted away

SOME VANDALISED INSTALLATIONS IN 2023

S/N	VANDALISED INSTALLATIONS	REGION	No. OF VANDALISED TOWERS
1.	132kV Owerri-Ahoada Double Circuit Transmission Line	Port Harcourt	12
2.	132kV IPP - Eelenwo Double Circuit Transmission Line	Port Harcourt	4
3.	132kV Owerri - Ahoada Transmission Line	Port Harcourt	15
4.	132kV Ahoada - Yenagoa Transmission Line	Port Harcourt	13
5.	132kV IPP - Eelenwo Transmission line	Port Harcourt	1
6.	Itu Transmission Substation	Port Harcourt	Vandalised underground cable
7.	330kV Gombe - Yola Transmission Line	Bauchi	4
8.	132kV Yola - Jalingo Transmission Line	Bauchi	5
9.	132kV Yola - Jos Transmission Line	Bauchi	1
10.	132kV Gombe - Yola Transmission Line	Bauchi	2
11.	132kV Yola - Jalingo Transmission Line	Bauchi	Stolen
12.	330kV NIPP Transmission Substation	Port Harcourt	122 earthen conductors; 244 galvanised bolts and nuts and copper cable lugs
13.	330kV Benin - Onitsha Transmission Tower	Benin	1
14.	330kV Benin - Ajaokuta Transmission Line	Benin	1
15.	132kV Kukwaba - Apo Double Circuit Transmission Line	Abuja	6
16.	132kV Kano - Kankia Transmission Line 2	Kano	12
17.	132kV Apo - Akwanga Single Circuit Transmission Line	Abuja	7
18.	132kV Papalanto / Abeokuta Transmission Line	Lagos	9
19.	330kV Benin - Ihovbor - Osogbo Double Circuit Transmission Line	Benin	5
20.	330kV Benin - Ajaokuta Transmission Line	Benin	2
21.	330kV Shiroro - Katampe Double Circuit Transmission Line	Abuja	4
22.	132kV Suleja - Abuja Steel - Minna Transmission Line	Abuja	2
23.	132kV Suleja - Abuja Steel - Minna Transmission Line	Abuja	2
24.	132kV Kano - Dutse Transmission Line	Kano	3

SOME VANDALISED INSTALLATIONS IN 2022

S/N	VANDALISED INSTALLATIONS	REGION	No. OF VANDALISED TOWERS
1.	132kV Kano - Kankia Transmission Line 2	Kano	21
2.	132kV Kano - Kankia Transmission Line 1	Kano	16
3.	132kV Kukwaba - Apo Double Circuit Transmission Line	Abuja	8
4.	330kV Odukpani - Ikot Ekpene Double Circuit Transmission Line	Port Harcourt	1
5.	132kV Gombe - Dadinkowa Biu Transmission Line	Bauchi	6
6.	132kV Gombe - Bauchi Transmission Line	Bauchi	1
7.	132kV Jos - Bauchi Transmission Line	Bauchi	7
8.	330kV Makurdi - Jos Double Circuit Transmission Line	Bauchi	19
9.	330kV Ugwuaji - Makurdi Double Circuit Transmission Line	Enugu	3
10.	132kV Oji River - New Haven Transmission Line	Enugu	6
11.	132kV New Haven - Nkalagu Transmission Line	Enugu	1
12.	132kV Ihovbor - Okada Transmission Line	Benin	1

WHAT IS LICENSING

(Terms And Conditions)

By Ali Bukar Ahmad

INTRODUCTION

Energy/Electricity sector if unbundled, operates under Energy (Electricity sector), if unbundled, operates under six principles, one of which is legality. Acquiring license from a Regulator is the first step to becoming an actor in the sector. Any activity of generation, transmission, distribution, and trading of electric power within and outside the national territory shall be subject to a license issued by the regulator unless otherwise specified by the regulator.

Licensing is the legal and regulatory instrument or mechanism that a state can use in order to maintain control and/or impose terms/conditions to a legal or natural person. It is the do-and-don'ts of a licensee in conducting its business activities.

License is the currency for taking part in energy activities in any country and the basis for legalizing that activity.

Who is a Natural Person: In jurisprudence, as well as in energy law, a natural person is a person that is an individual human being, distinguished from the broader category of a legal person, which may be a private or public organization

Two Basic Approaches to Licensing:

1) Anyone is allowed to undertake any activity unless a special license is required. Example is generating electricity with capacity less than OOKW.

2) No one is allowed to undertake any specific activity unless it is granted an authorisation to do so.

VERIFYING VARIOUS USE OF TERMINOLOGIES WITH REGARDS TO LICENSING IN THE ENERGY SECTOR (AUTHORISATION OF COMPETITIVE ACTIVITIES (I.E. GENERATION, SUPPLY/RETAIL), AND LICENSING OF NATURAL MONOPOLY ACTIVITIES (I.E. TRANSMISSION/ OR OPERATION)

1) Authorization: Authorisation of a business activity in cases refers to the ability to undertake an economic activity in the electricity sector and can possibly be further broken down into:)

2) Permit: This is officially allowing activities related to energy infrastructure which refer to the construction, renovation, operation and maintenance in whole or in part of the respective infrastructure (i.e. generation plants, transmission/distribution networks);

3) Licensing: Grant or consent officially, professional competence which refers to the technical capacity of certain entities to undertake, participate and hold responsibility in the construction, renovation, operation and maintenance in whole or in part of the respective infrastructure.

Objectives of Licensing

The unbundled power industry contains a range of distinct activities; generation and supply, which will become competitive activities (transmission system ownership and operation), which is a monopoly activity before the 2023 electricity Act. For the competitive activities, the intention of this licensing regime is to ensure that:

- i) entry is allowed on a non-discriminatory basis; and
 - ii) competition is conducted on a fair and efficient basis
- For the monopoly activities, the intention of the licensing regime is to ensure that:
- i) the operations of the entities are carried out in an efficient manner
 - ii) system development continues to take place efficiently and to meet users' needs
 - iii) access to the system is granted in a fair and non-discriminatory manner; and
 - iv) prices and terms are reasonable.

CONDITIONS AND CRITERIA FOR LICENSE ISSUANCE

1) a. The applicant fulfills all technical, operational, safety and other conditions in accordance with applicable laws, regulations, and standards;

b. The applicant has demonstrated the technical and financial capacity and readiness to perform all related activities applied for and to provide safe and reliable services in accordance with all applicable laws, regulations and standards;

c. The applicant has demonstrated the technical and financial capacity to decommission the physical facilities covered by the license upon termination of the license term, in full compliance with all applicable technical and environmental requirements;

d. The applicant and key members of management have not been found liable for any significant civil or criminal violation of an economic or environmental law or law related to fraud in their country of origin or another country;

e. The applicant has not had a license revoked or been found liable for significant license violations in his country of origin or another country over a period of time depending on the country's applicable laws;

f. The applicant has provided appropriate financial guarantees of performance to assure that the licensee will fulfill all license conditions, including, but not limited to, surety bonds, escrow accounts or letters of credit;

g. The applicant fulfills all established criteria for the protection of the environment;

h. the applicant has right, title and interest to conduct the proposed activities on the site selected, or can obtain such right, title and interest through expropriation proceedings;

I. The applicant has demonstrated that he/she will comply with all applicable laws and other regulations, including but not limited to, the regulators orders and decisions.

2) Any other substantive criteria that the regulator determines are needed to fully protect the public health, safety and welfare.

REASONS WHY OF LICENSE APPLICATION MAY BE REJECTED BY A REGULATOR

a. The application was incomplete and the requested information was not submitted within the deadline set by the regulator;

b. The applicant failed to demonstrate that it could meet the criteria for license issuance;

c. The applicant failed to demonstrate the technical or financial capacity to carry out the applied licensed activities;

d. The applicant has a history of significant criminal, civil, or license violations for economic, environmental, or fraudulent acts in his country of origin or other countries;

e. Member(s) of the applicant's management have a history of significant criminal, civil, or license violations for economic, environmental, or fraudulent acts within his country of origin or other countries;

f. The applicant does not have sufficient right, title and interest to conduct the license activities;

g. The applicant failed to comply with the regulator's orders, information requests, or other decisions during a prior license term;

h. The applicant failed to pay an application fee or regulatory fee due the regulator under a prior license;

i. The applicant is in, or about to enter, insolvency, bankruptcy or liquidation; or

j. Any other basis the Authority determines is needed to protect the industry, public health, safety and welfare.

A LEADER *NOT A BOSS*

A BOSS...

- Knows everything
- Tells people what to do
- Criticizes
- Talks fast & gives orders
- Demands respect
- Says "I"
- Blames others
- Commands

A LEADER...

- Admits mistake
- Shows how to do things
- Gives advice
- Gives direction
- Earns & deserves respect
- Says "we"
- Works together
- Ask

TCN Holds Two-Day Sensitization Workshop on TLF, Others

By Tosin Olasehinde



Standing, Executive Director (ISO), Engr. (Mrs) Nafisatu Ali during her opening remarks at the workshop

The Transmission Company of Nigeria (TCN) recently organized a two-day workshop aimed at enhancing the knowledge of its staff in Lagos Region on critical issues within the electricity sector. The workshop focussed on topics such as the implementation processes and procedures of Loss of Revenue and Service Level Agreement (SLA), Grid Accountability Tools and Attribution, Transmission Loss Factor (TLF) and its impact on revenue, and the Force Majeure Declaration Protocol.

Held at the Regional Control Centre in Ikeja-West on the 14th, and at the NAPTIN Executive Hostel in Adelabu, Surulere on the 15th of February, 2024, the workshop served as a platform for comprehensive discussions and insights into key issues affecting the company's operations.

In her opening remarks, Engr. (Mrs) Nafisatu Ali, ED ISO, highlighted the significance of the sensitization workshop, emphasizing the importance of staff awareness regarding their actions or inactions and their potential impact on the company's revenue. She underscored the need for vigilance in addressing challenges such as inaccurate energy meter readings and identified hotspots affecting energy transmission.

In her words "When you see something wrong, flag it. For energy meters, take the right figures. For the TSP, when you see a hot spot, you are losing energy. TLF is the differences between what GenCos give you and what you deliver so there are losses in between." According to her, TCN paid N1.8 billion for TLF in one month in 2023, and the company also lost about N9 billion in another month in 2003".

Engr. Ali further emphasized the detrimental effects of revenue losses attributed to staff actions or inactions, citing substantial financial implications for TCN. She stressed the imperative for technical staff to uphold standards and contribute positively to revenue generation, as financial inflow is essential for the company's operational and developmental endeavors.

Also speaking at the workshop, Engr. Asimi Saliu, representing the General Manager (Transmission), Lagos Region, acknowledged the significance of SLA in guiding staff actions and its impact on TCN's financial outcomes. While lamenting the prevalence of losses associated with SLA, he highlighted the necessity of adhering to its provisions to further improve bulk power delivery and avoid losses.

Similarly, the Regional Operations Manager, Engr. Wasiu Tijani, emphasized the importance of staff awareness regarding market dynamics and regulatory frameworks governing the electricity sector. He urged supervisors to disseminate knowledge acquired during the workshop to enhance staff performance and compliance.

In an interview following the event, the Chairman of the Committee stressed the importance of staff familiarity with industry guidelines and regulations to optimize revenue generation and minimize losses. She expressed optimism that the workshop would foster behavioural changes among staff, ultimately leading to revenue improvement for TCN.

Commending TCN management for organizing the sensitization program, she highlighted the proactive approach taken to address

Engr. Ali further emphasized the detrimental effects of revenue losses attributed to staff actions or inactions, citing substantial financial implications for TCN. She stressed the imperative for technical staff to uphold standards and contribute positively to revenue generation, as financial inflow is essential for the company's operational and developmental endeavors

operational challenges and underscored the positive impact of such initiatives on revenue enhancement.

The sensitization committee, comprise staff from various departments who have demonstrated commitment to empowering other staff with knowledge, ultimately fostering a culture of accountability within TCN.

The workshop was aimed at ensuring that the technical staff of TCN are fully aware of the guidelines and laws governing the electricity market. This knowledge is aimed at benefiting the company by addressing issues such as adherence to service level agreements, understanding transmission loss factors, and implementing force majeure protocols. The workshop also sensitized staff about how their actions impact revenue inflow and outflow, with a focus on identifying and addressing loopholes to minimize revenue losses.



Group photograph of participants after the workshop

TCN Enhances Osogbo 330kV Substation Lines with New Electric Panels

By Elizabeth Aledare



PM Transmission, Engr. Samuel Alade giving report on the panel replacement project

highlighted the advanced features of the new panels, emphasizing their capability to facilitate real-time monitoring of key parameters such as energy volume, power flow, and system frequency.

Acknowledging the collaborative efforts of key personnel within the Osogbo Region, including Engr. Mohammed Ladan Yankuzo, General Manager (Transmission) Osogbo Region, Engr. Adeonipekun Adeshina, Assistant General Manager Technical Services, and Engr. Chizoba Ezeoke, AGM Transmission at the Osogbo Sub-Region, Engr. Alade expressed gratitude for their invaluable contributions during the project's execution.

Furthermore, ongoing efforts include the replacement of panels for the 90MVA 330/132/13.8kV Transformer, reflecting

TCN's commitment to continuous improvement and infrastructure enhancement at the Osogbo 330kV Substation.

This initiative underscores TCN's unwavering commitment to advancing the reliability, efficiency, and safety of Nigeria's electricity transmission infrastructure, ultimately contributing to the nation's socio-economic development.

In line with its commitment to modernize and enhance Nigeria's electricity transmission substations and lines, to further strengthen the country's power transmission network, the Transmission Company of Nigeria (TCN) has continued to pursue its grid expansion drive with the successful upgrade of infrastructure of the Osogbo 330/132kV Transmission Substation. The upgrade includes the replacement of old Electro-Mechanical Relays and Protection (EMR) panels with state-of-the-art New NR Electric panels across all six lines within the substation.

Giving a report on the project, Engr. Samuel O. A. Alade, Principal Manager (Transmission), Osogbo Sub-Region, said that the replacement of panels on critical lines such as Osogbo-Ihovbor 330kV Line, Osogbo-Ikeja-West 330kV circuit, Osogbo-Ayede 330kV circuit, Osogbo-Jebba Line 1, Osogbo-Jebba Line 2, and Osogbo-Ganmo 330kV circuits marks a significant milestone in TCN's ongoing efforts to enhance the reliability and efficiency of the transmission system.

Engr. Alade commended TCN's management for their dedication to the Nigerian Electricity Grid Maintenance, Expansion, and Rehabilitation Program (NEGMRP), underscoring the importance of the project in safeguarding equipment and personnel while ensuring uninterrupted energy dispatch. He



In-house engineers working on SGB TR1 90MVA 330/132/33kV transformer

Comrade Adebayo Adebisi Elected as the New National President of NUEE

By Mary Phillip-Udom



Regional Transmission Manager, (RTM), Enugu,
Engr. Emmanuel Akpa,

Comrade Adebayo Adebisi has been elected as the new National President of the National Union of Electricity Employees (NUEE) in an election conducted during the 7th Quadrennial 12th National Delegates Conference in Enugu on February 22, 2024. He succeeds the outgoing president, Comrade Engr Martine Ikechukwu Uzoegwu.

Other winners of the election include Comrade Joachim Oforka, who assumes the role of Deputy President for the South, and Comrade Ado Gaya, elected as Vice President for the North East. Additionally, Comrade Osakwe emerged as the CEC East, among other notable positions.

In his address at the National Delegates Conference, the MD/CEO of the Transmission Company of Nigeria (TCN), Engr. Dr. Sule Ahmed Abdulaziz, represented by Engr. Emmanuel Akpa, the Regional Transmission Manager (RTM), Enugu, commended the NUEE for its commitment to fostering innovation and progress within the electricity sector. Engr. Abdulaziz emphasized the pivotal role of the power sector in driving economic development and stressed the importance of collaborative efforts in overcoming challenges.

He highlighted some of the problems

faced by TCN, such as vandalism, insurgency, terrain difficulties, and funding constraints, which impact job execution negatively. He noted that despite these challenges, electricity workers have demonstrated unwavering dedication to their duties.

Engr. Sule Ahmed stressed the importance of providing support and creating an enabling environment for the workforce. The fruitful relationship between TCN management and NUEE was acknowledged, with a commitment to prioritize employees' well-being and foster a conducive working environment. Engr. Abdulaziz underscored the importance of maintaining a peaceful and harmonious work environment in achieving collective objectives.

Before the elections, Comrade Joe Ajaero, the General Secretary of NUEE and President of the Nigeria Labour Congress (NLC), urged delegates to vote objectively for candidates who can deliver and maintain unity within the union, emphasizing the importance of avoiding sectionalism and other divisive tendencies.

After the emergence of a new NUEE president, the outgoing president, Comrade Engr. (Dr.) Chief Martin Ikechukwu Uzoegwu, expressed confidence in the ability of the newly elected leadership to steer the union towards its desired destination. He highlighted achievements during his tenure, including infrastructure projects and capacity building initiatives, while calling for continued support from stakeholders in the electricity industry.



Comrade Adebayo Adebisi, the new National
President of NUEE

The conference featured an impressive array of dignitaries, including representatives of the Governor of Enugu State, the Chairman of NERC, and representatives from the Managing Directors of TCN, REA, IBEDC, and various Distribution Companies. Sani Baba Mohammed, the Regional Secretary for Africa and Arab countries, and Benard Adejei, representing PSWU of TUC Ghana, along with representatives from NUPENG and NUT, were also in attendance, among others.

TCN Expands Port Harcourt Region's Capacity, Installs 100MVA Transformer

By Ogechukwu Uzor



Commissioned 100MVA Power Transformer at Port Harcourt Main Transmission Substation

The Transmission Company of Nigeria (TCN) has commissioned a 100MVA 132/33kV power transformer at its Port Harcourt Main Substation, enhancing the bulk transmission capability of the substation by 80MW.

This initiative, which is a TCN-World Bank project, also includes the complete rehabilitation and expansion of the 132/33kV transmission substation and the addition of three feeders and associated accessories.

With the installation of the 100MVA power transformer, the substation's installed capacity increased from 180MVA to 280MVA. Notably, industries in the Trans Amadi industrial environment and communities beyond Port Harcourt city will benefit significantly from this capacity expansion.

Within the first quarter of this year, TCN has executed a number of projects in its Port-Harcourt Region, and currently has several ongoing projects which are at various completion stages, including a 100MVA transformer installation in Port Harcourt Town which will soon be completed and commissioned. Transformer projects are equally ongoing in Port -Harcourt Town, Itu, Umuahia, Aba, and Alaoji, aimed at bolstering bulk power transmission within the region.

In its Port Harcourt Sub-region, TCN recently received four

power transformers including two units of 100MVA capacity transformers, one each at Port Harcourt Main and Port Harcourt Town transmission substations, two units of 60MVA power transformers, one each were also sent to Rumuosi and Port Harcourt Main transmission substations. Collectively, these will increase available capacity within TCN's Port Harcourt region for Port Harcourt Distribution company to offtake for its customers.

At the Uyo Work Centre, TCN is also currently upgrading the Itu Substation with a 60MVA 132kV transformer and associated switch gears. Upon completion, the station's capacity will increase by 48MW.

Ongoing new substation projects within the region include the construction of a 2x60MVA 132/33kV transmission substation at Oron and a 2x30/40MVA 132/33kV Substation at Ididep both in Calabar.

To increase maintenance efficiency and invariably reduce downtime, the Regional Store also recently received bulk consignment of spare parts, including circuit breakers, 33kV lighting arresters, battery chargers, battery banks, toolboxes, and safety kits.

TCN remains steadfast in its effort to put in place a robust and more efficient transmission grid through strategic initiatives and project implementation across regions. It is also committed to swift maintenance and fault response by ensuring it has available, necessary spare parts in its stores nationwide.



60MVA power transformer and its accessories at the Rumuosi 132/33kV Transmission Substation in Port Harcourt.

TCN Commissions 100MVA Power Transformer in Dan Agundi 132/33kV Transmission Substation



100MVA 132/33kV power transformer at Dan Agundi Transmission Substation

The Transmission Company of Nigeria (TCN) has officially commissioned a new 100MVA 132/33kV power transformer at its Dan Agundi Transmission Substation in Kano State. The commissioning took place on March 13th, 2024.

The newly energised transformer will boost the capacity of the Dan Agundi Transmission Substation by 80MW, providing a vital increase in power supply capability. Procured under the TCN-World Bank power project, the transformer, which was delivered earlier this year to the Substation, was installed by a TCN contractor.

Previously, the substation operated three units of 60MVA capacity transformers. However, following the unfortunate fire incident that resulted in the damage of one transformer and had partial effects on another, the substation's capacity was reduced to just one 60MVA transformer. TCN has since initiated efforts to repair the partially affected transformer.



Amidst challenges in gas supply for power generation, leading to low generation output, load allocation to the Dan Agundi Transmission Substation stands at 30MW.

TCN emphasizes that the remaining 60MVA power transformer in the Dan Agundi Substation can adequately handle the 30MW load allocation to the substation. With the new 100MVA power transformer in service, however, the substation now boasts redundancy, ensuring it can accommodate any additional load with ease.

TCN is currently transmitting fully, the 30MW allocated to Dan Agundi Substation to the Kano DisCo feeders within the substation. The company extends its gratitude to all electricity customers affected by the incident for their patience and support, confirming that full supply has been restored.

Benin Region, Commissions 100MVA Power Transformer at Ihovbor Work Centre

The Benin Region of TCN energized a new 100MVA power transformer at its 132/33kV Ihovbor Work Centre in Edo State on Monday, 29th January, 2024. Previously, the Ihovbor Transmission Substation had two 60MVA power transformers with a capacity of 120MVA. The newly energized 100MVA transformer replaced one of the existing transformers, increasing the substation's capacity by an additional 40MVA. With this upgrade, TCN has increased the bulk power supply available for Benin DisCo to offtake for onward distribution to its customers.



The 100MVA power transformer commissioned at 132/33kV Ihovbor Work Centre, Edo State



TCN engineering crew at the site of the commissioned transformer

Commissioning of Newly Installed 2x100 /125MVA Power Transformers at Alagbon Substation

The Lagos Region of TCN has commissioned two new 100 /125MVA power transformers at its Alagbon Transmission Substation in Lagos State. The transformers increased the capacity of the substation from 240MVA to 480MVA. With the new transformers, Eko DisCo can now offtake more electricity and distribute to its customers. This project is part of the ongoing TCN's rehabilitation projects aimed at boosting power supply nationwide.



The 2x100 /125MVA Power Transformers commissioned at Alagbon Substation



Side view of one of the transformers



TCN engineering crew by the newly commissioned transformers

TCN Receives Seven New Power Transformers in Akangba Substation, Lagos

Seven new power transformers with capacities ranging from 60MVA to 100MVA and their accessories were recently delivered to Akangba 330/132kV Transmission Substation for onward distribution to Alausa, Akoka, Maryland, Itire and Amuwo Transmission Substations. While the above listed substations will receive one transfer each, the Akoko and Amuwo 132/33kV Substations will receive two transformers each. When installed, the transformers will substantially increase the company's transmission capacity. The transformers are part of the ongoing TCN/World Bank power projects.



Some of the transformers delivered to Akangba Transmission Substation, Lagos State



Side view of some of the transformers



Transformer accessories

Bauchi Region Commissions 150MVA Power Transformer

The Bauchi Region of TCN, recently commissioned a 150MVA 330/132/33kV power transformers at its new Bauchi Transmission Substation on January 23rd, 2024. The Region also received another 150MVA at its Jos Transmission Substation on Saturday February 24, 2024. On installation, the transformers will add a total of 240MW to the substation's capacity, increasing Bulk power available in the substation for Jos DisCo to offtake and distribute to its customers. The Bauchi transformer project is a part of the TCN /World Bank expansion projects.



The newly commissioned 150MVA power transformer at the 330/132/33kV Jos Transmission Substation



150MVA transformer delivered to 330/132/33kV Bauchi Transmission Substation, Bauchi State

TCN Energizes 100, 60MVA Power Transformers in Kano Region

TCN energized a 100MVA, 132/33kV power transformer at 132/33kV Dakata Transmission Substation in its Kano Region on Thursday, February 8, 2024. The energized transformer has increased the capacity of the substation by 80MW. TCN also energised a 60MVA power transformer in Katsina Sub-Region on 9th February, 2024, and received a 63MVA mobile transformer at Dangora 132/33kV Transmission Substation.



The energised 100MVA power transformer at 132/33kV Dakata Transmission Substation, Kano State



The newly commissioned 60MVA power transformer at 132/33kV Kankia Transmission Substation, Katsina State



Arrival of 63MVA mobile transformer at Dangora 132/33kV Transmission Substation

TCN Commissions 100MVA Power Transformer in Ganmo Transmission Substation

TCN commissioned a new 100MVA power transformer in its 132/33kV Ganmo Transmission Substation in Kwara State. The new transformer has added 80MW to the substation's capacity to wheel more bulk electricity to Ibadan/Benin DisCos for onward supply to electricity consumers within Ilorin metropolis and environs. The transformer was procured under the TCN - World Bank power project.



Commissioned 100MVA power transformer in 132/33kV Ganmo Transmission Substation, Kwara State



TCN engineers carrying out pre-commissioning test on the transformer



TCN engineering crew by the newly commissioned transformer

Enugu Management Team Engages with Chairman of Enugu Capital Territory on Encroachment Issues

By Mary Philips Udom



R-L: Regional Transmission Manager (RTM), Engr. Emmanuel Akpa, and Chairman, Enugu Capital Territory Development Authority, RT Hon. Uche Anya,

Enugu Capital Territory Development Authority, RT Hon. Uche Anya, seeking collaboration with the State to tackle the menace.

During the visit, Engr. Akpa decried the continuous erection of buildings and structures under TCN Right of Ways, as well as excavations of soil under Tower base and Transmission lines, despite extensive sensitization efforts. He emphasized the need for stricter enforcement of regulations and adherence to safety protocols, as failure to do so could lead to disastrous consequences.

In response, RT Hon. Uche Anya outlined efforts undertaken by the Capital Territory Development Authority to address the challenges of illegal structures and encroachments. He assured the RTM that the State government is committed to upholding the law and will not tolerate any illegal activities within TCN Right of Way. He also pledged to escalate the matter to the Governor’s attention for swift action.

Despite ongoing efforts by the management team of the Enugu region of the Transmission Company of Nigeria (TCN) to sensitize the public on the hazards associated with building, trading, and excavation of soil under Power Transmission lines in Enugu State, the issue has persisted.

The courtesy visit was attended by key representatives from both TCN and the Capital Territory, underscoring the importance of collaborative efforts in addressing critical infrastructure challenges.

In a bid to further address the challenge, the Enugu regional management of TCN, led by the Regional Transmission Manager (RTM), Engr. Emmanuel Akpa, recently visited the Chairman of



Group photograph of TCN and Enugu Capital Territory Development Authority team, after the meeting

FOCUS ON

Ayede Sub-Region

By Tracy Kadiri



Ayede Sub-Region

The Ayede Sub-Region is one of the Sub-regions under Osogbo Region situated in the heart of Ibadan, the capital city of Oyo state Nigeria. The Sub-region covers mainly Oyo State, parts of Osun and Ogun States.

The substations under Ayede Sub-Region includes; Ayede, Ijebu-Ode, Sagamu, Iseyin, Ibadan-North, Jericho, Iwo, McPherson, Oluewu Oyo Transmission Substations.

The Sub-Region comprise the Transmission Service Provider (TSP) and Independent System Operation (ISO). The TSP, is headed by an AGM (T), Engr. T.A Aderogba while the ISO, is headed by a Principal Manager, System Operations, Engr. O.T Ojo. Ayede Sub Region has a total staff strength of forty - seven (47).

Ayede Sub-Region currently has 3 number 150MVA 330/132/33kV power Transformers and 9 number 132/33kV capacity Transmission Sub-Stations. While the 3 number 330/132/33kV power Transformer capacity in Ayede Substation is 450MVA, the 9 number 132/33kV across the Sub-

Stations capacity is 900MVA .

The Sub-Region interfaces with only the Ibadan Electricity Distribution (IBEDC).

PROJECTS

The Ayede Sub-Region has several completed projects and ongoing transmission projects. Some of the newly completed projects include;

- The reconductoring of Ayede/Eleyele 132kV Double Circuit Line.
- Reconductoring of Ayede/Jericho132kV Double Circuit Line.
- Replacement of 4 number Tubular poles to lattice tower on Ayede-Mcpherson-Sagamu 132kV Line. The tower numbers includes; 535, 536, 628 and 652 respectively.
- Installation of new 150/165MVA 330/132/33kV Transformer T1A at Ayede Transmission Station.
- Construction of 132/33kV Transmission Substation/control room at Oluewu Oyo Town.

- Installation and energization of 2x60MVA 132/33kV Transformer at Sagamu Transmission Substation.

Some Non - technical projects include;

- The construction of gate house and paveway at Oluewu Oyo 132/33kV Transmission Substation.
- The Drainage/Erosion control at Ibadan North, Iwo, Ayede and Ijebu - ode.
- Re-graveling of all Transmission Station's switchyards across the sub-region including: Ibadan-North, Iwo, Ayede 330 and 132kV switchyards.

On-going projects under the Ayede Sub-Region, are listed in the table below :

LOCATION	ONGOING PROJECTS
Ayede Substation	Construction of New Office Complex at Ayede Substation
Jericho	Upgrading of 1x40 MVA and 1x45MVA Transformer into 2x100MVA Transformer
Ijebu-Ode	Installation of 1No. Incomer and 3Nos Outgoing Feeders
Iseyin	Construction of Iseyin/Saki 132kV Double Circuit Line
Eleyele	Construction and Building of Control Room as Well as Gate House and Installation of 6 3MVA Mobile Transformer
Sapade	Installation of 6 3MVA Mobile Transformer
University Of Ibadan	Installation of 6 3MVA Mobile Transformer

RIGHT OF WAY CHALLENGES/LATERITE EXCAVATION

The Ayede Subregion faces the Right of Way (rOw) challenge with encroachers in several areas under the transmission lines right of way. Encroachment is a recurring challenge under TCN's transmission lines nationwide. Some transmission lines transversing the subregion such as the Ayede/Sagamu, Iwo/Iseyin, Ayede/Ibadan-North/Iwo, Ayede/Jericho 132kV lines as well as Ayede/Olorunsogo 330kV line all have buildings and even new constructions along the transmission line Right of way.

Sand excavators have continued to pose a challenge along the Osogbo/Ayede and Osogbo/Ikeja west 330kV lines Rights of Way. Some of the excavation activities have led to the erosion of tower bases threatening the stability of the towers.



Ongoing Construction of New Office Complex for Staff at Ayede Transmission Substation

IN-HOUSE CAPACITY

TCN engineers are actively involved in the different installation works in the subregion. The new T1A 150/165MVA 330/132/33kV Transformer at Ayede Transmission Station as well as the recently completed construction of Oluewu Oyo132/33kV Transmission Substation amongst others were executed by TCN in-house engineers.



Engr. Taoheed Adekunle Aderogba Ag AGM Transmission, Ayede Sub-Region



Engr. Olusola Taiwo Ojo, Principal Manager, System Operations and Area Control Supervisor, Ayede Subregion

DID YOU KNOW?

- ❖ That solving others' problems sparks inspiration, yes assisting others to find solutions to their challenges can ignite fresh ideas for tackling our own.
- ❖ That team involvement enhances solutions, certainly, engaging your team, leads to richer, more effective solutions.
- ❖ That leadership is quite successful with collaboration. Having all hands on deck is key and successful leaders prioritize teamwork, ensuring timely and clear communication.
- ❖ That feedback is the bridge from complexity to clarity. Try consolidating constructive feedback, you will find it indispensable for navigating complexity and achieving clarity.
- ❖ That embracing inevitable change, drives excellence, acknowledging and embracing change is pivotal for progress and staying ahead.
- ❖ That transforming challenges into opportunities means, confronting challenges to allow us extract valuable lessons and foster positive outcomes.

Now you know, let's put these principles into action!

Words on Marble

"Together, we cultivate the power sector, nurturing it with innovation, collaboration and a shared vision of lighting up Nigeria.

In these endeavours, we sow the seeds of change, nurturing a sustainable power sector that will positively impact generations to come "



Voulez-vous apprendre le français?

Do You Want to learn French?

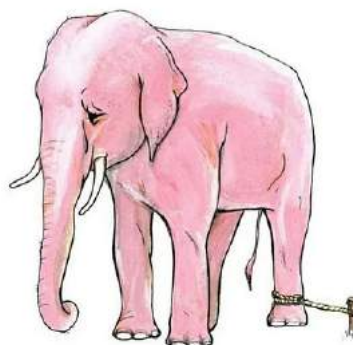
ENGLISH

FRENCH

Finance vocabulary in French

Money	- L'argent
Salary	- Un salaire
Payslip	- Un bulletin de salaire
An advance payment	- Une avance
A payroll deduction	- Une retenue sur salaire
Taxes	- Les impôts
Wage costs	- Les charges salariales
Bank details	- Un Rib
Loan	- Le prêt
Revenue / Profit	- Les bénéfices
The net revenue	- Le bénéfice net
The gross revenue	- Le bénéfice brut
Turnover	- Le chiffre d'affaire
Stocks	- Les actions
A warranty/a guarantee	- Une garantie
The price	- Le prix
A discount	- Une réduction
Compensations	- Des indemnités
Salary	- Un salaire
Subsidiary	- Une filiale
Accountant	- Comptable
Annual report	- Rapport annuel
Assets	- Actifs
Audit	- Vérification des comptes, audit
Bankruptcy	- Faillite
Bonus	- Prime
Budget	- Budget

Sober Musings



The Elephant and the Rope

When walking through an elephant camp, a man noticed that the elephants were only secured with a small rope that was tied around one ankle. He wondered why the elephants didn't break free from the rope, as the elephants were certainly strong enough to do so.

He asked a trainer why the elephants didn't try to break free, and the trainer responded by saying that they use the same size of rope for baby elephants all the way up to adulthood.

Because they're too small when they're babies to break free from the rope, they grow up being conditioned that the rope is stronger than they are. As adults, they think the rope can still hold them, so they don't try to fight it.

Moral: If you go through life thinking that you can't do something just because you have failed at doing it in the past, you're living with a fixed mindset.

You have to let go of your limiting beliefs in order to make the breakthroughs that are required for your ultimate success.

Don't let other people tell you that you can't do something, and don't hold onto an assumption that you can't grow and learn from past failures.

Culled from the net

The Making and Evolution of an Electricity Market: Unpacking The Nigerian Electricity Act, 2021

By Ivie Ehanmo

Part 6: – Private Sector Investment in the Transmission Network

Continued from last edition

In the fifth part of the multi-part series that unpacks the Electricity Bill, 2021, the long overdue incorporation of renewable energy within the Bill was highlighted alongside the implications for the industry.

In this sixth part, the incorporation and promotion of private sector investment in the transmission network as provided within the Bill is highlighted alongside the implications for the industry in terms of the ability to attract the much needed investments into NESI or otherwise, in a bid to educate readers on the process, evolution and dynamics of electricity markets.

Interestingly, the Bill allows for investment in the national grid, subject to the accompanying regulations from the Nigerian Electricity Regulatory Commission ('NERC' or the 'Commission'). Such investment can be undertaken by a successor transmission licensee for the expansion of the existing transmission network, upon approval from the Commission or by a non-licensee, either for the expansion of the existing network alongside the successor transmission licensee or independently as it relates to an Independent Electricity Transmission Network (IETN) as an Independent Electricity Transmission Network Operator (IETNO).

Although the promotion of private sector participation in existing and independent transmission network operations is commendable, from a technical perspective, the IETN/IETNO model will require significant amounts of investment, given the technical peculiarities of Nigeria's power system, which is relatively small in terms of capacity (5GW). For effective wholesale competition to have meaningful effect given the market staging trajectory as envisaged within the Bill, there must be efficiency across all elements of the value chain. Competition must be balanced with transmission expansion within the system-planning framework.

The existing legal and regulatory framework as proposed within the Bill can be regarded as being not sufficiently robust, irrespective of the fact that the fundamental building blocks for allowing private sector participation are already in place, i.e.

Transmission Use of System (TUoS) charges (with regulated transmission tariffs) which creates a clear revenue stream for private sector remuneration, the Grid Code establishing technical standards, operating and safety margins and planning processes; which is a necessary pre-condition for private sector participation, etc.

The Bill recognises various structures of financing for independent transmission projects including long-term concessions, project financing by private investors to finance, build, own and maintain parts of the network. The Bill allows for Federal or State Governments to enter a public-private partnership arrangement with private companies for investment in the transmission network. The financing structures as recognised in the Bill are commendable; however, the right enabling environment must be in place for the yields of the proposed structures to be actualised.

The modes of private sector participation anticipated within the Bill include:

- Project Financing by private investors whereby such investors finance and build and/or own and maintain parts of the network.
- Break up the Transmission Company of Nigeria (TCN) into Transmission Service Provider (TSP) and Independent System Operator (ISO) with TCN managing operations. The ISO will be helpful in allowing private sector investment as anticipated.
- Concession or Lease Arrangements- long-term concession of new transmission lines or the creation of a BOT arrangement between concessioners and TCN.
- Independent Power Transmitters, etc.

Other models of private sector participation in transmission include:

- Unitary Privatisation whereby TCN is privatised partially or

as a whole to a trade investor who would bring the required capital.

- Government can create a separate creditworthy borrowing entity for the purpose of selling existing assets and procuring new assets. Being a credible offtaker, such entity would have access to financing using Buyer or Seller Credits or Operating Concessions that will not require FGN guarantees.
- Management Contract with well-crafted performance targets and KPI's which has clearly not worked in the Nigerian context, given past antecedents.

By the provisions within the Bill, the Commission is to ensure the fair spread of investments in the six geopolitical zones of Nigeria. The workability of this provision raises significant concerns given the varying tariffs and energy load allocation(s) across the geopolitical zones in the country, which will equate to differing investment forecasts in terms of timelines, risk profiles and return on investments.

Disputes relating to quality of electricity, safe, secure, and integrated operation of the national grid, etc., are to be referred to the Electricity Disputes Appeal Tribunal for settlement, prior to which time, the Commission may issue directions to be complied with by the concerned licensee, except determined otherwise by the Tribunal. It is important for the makeup of the Tribunal to be sufficiently vested with the required competence and capacity to resolve anticipated disputes.

Concluding Remarks

Transmission is a critical element of the value chain, and the Government needs to create the right enabling environment to promote and foster private sector participation in transmission to fully unlock the option of private sector financing for investment, because investors wishing to invest in the power sector will analyse the functionality of the entire value chain and where there is a perceived risk in one element of the value

chain, the entire value chain would be undermined.

Key Takeaways

Although the promotion of private sector participation in existing and independent transmission network operations is commendable, from a technical perspective, the IETN/IETNO model will require significant amounts of investment, given the technical peculiarities of Nigeria's power system, which is relatively small in terms of capacity (5GW). In addition, there must be efficiency across all elements of the value chain which must be balanced with transmission expansion within the system-planning framework for the attainment of effective competition.

- The existing legal and regulatory framework as proposed within the Bill is not sufficiently robust. For private sector participation to thrive within the transmission segment of the value chain, there is a critical need for the appropriate robust laws and regulations to be put in place to ensure that there is an attractive investment climate in the sector.
- The financing structures as recognised in the Bill are commendable; however, the right enabling environment must be in place for the yields of the proposed structures to be actualised.
- The requirement for a fair spread of investments across six geopolitical zones in Nigeria must take into consideration the varying tariffs and energy load allocation(s) across the geopolitical zones in the country, which will equate to differing investment forecasts in terms of timelines, risk profiles and return on investments.
- The creation of an Electricity Disputes Appeal Tribunal is commendable. Nevertheless, it is important for the makeup of the Tribunal to be sufficiently vested with the required competence and capacity to resolve anticipated disputes.

...No one can know his own beauty or perceive a sense of his own worth until it has been reflected back to him in the mirror of another loving, caring human being

-John Joseph Powell

Kano Region Implements Measures to Safeguard Installations

By Adam Umar

The Kano Region of the Transmission Company of Nigeria (TCN) has initiated measures to counter the activities of sand excavators, particularly in the vicinity of towers 42, 43, and 44 along the Dutse – Azare Double Circuit 132 kV line.

Despite repeated warnings from TCN management, the transmission line route has been consistently disrupted by the activities of sand miners encroaching on the Right of Way (ROW) of the transmission lines. These excavations not only pose a threat to the structural integrity of the towers but also endanger the entire transmission line route.

In response to the persistent disregard for warnings, TCN's management has engaged security agencies to apprehend the excavators for legal action.

During a press briefing at the site, Engr. MK. Bello, the Assistant General Manager of TCN Kano Sub-Region, emphasized the critical importance of protecting the transmission towers from collapse due to encroachments on the ROW. Engr. Bello highlighted the substantial resources required to rectify such damage, which would ultimately result in temporal loss of power and revenue deficits for all the areas taking supply from the transmission line.

Expressing gratitude to informants for their assistance in averting potential dangers, Engr. Bello also engaged with local vigilante groups to enhance efforts in combating such unlawful activities. He organised a parley with them on the importance of collaboration and passing on the information they had to the inhabitants in the area to create more effective surveillance of the line route.

To prevent future occurrences, those that were apprehended were compelled to sign an undertaking in the presence of the Nigerian Security and Civil Defense Corps (NSCDC) and the Department of State Security Service (DSS), committing to cease further excavations near TCN installations and on the transmission line Right of Way as well as an undertaking to refill the excavated areas.

Engr. Bello commended Kano State government for supporting TCN in the fight against sand excavators. He however, appealed that the government must support the TCN Region in further addressing challenges related to ROW encroachment even

within the metropolis.

Other efforts made by the Kano Region to educate host communities on the adverse effects of sand excavation include live programmes in local hausa language such as "WANNAN RAYUWA" on Dala FM. Engr. Bello stressed the essential place of knowledge about the detrimental impacts of sand excavation, vandalism, and any kind of encroachment on electricity transmission infrastructure.

Engr. Kabir Yaya Hamza, Manager System Lines, reiterated the detrimental effects of sand excavation on TCN's operations and emphasized the need to combat this, to facilitate the ongoing transmission system expansion plan.



Laterite excavation near TCN transmission towers

TCN to Establish Committee for Enhanced Engagement with CSOs

By Bilikis Okpanachi

The Transmission Company of Nigeria (TCN) has announced its intention to establish a committee that will be saddled with facilitating timely and efficient exchange of information with Civil Society Organisations (CSOs) across Nigeria.

This decision was revealed by the Managing Director/CEO of TCN, Engr. (Dr.) Sule Abdulaziz, during a recent meeting with a coalition of civil society groups in his office.

Expressing enthusiasm while hosting the CSOs, Engr. Abdulaziz emphasized the importance of regular interactions to foster better information gathering, exchange of ideas, and collaborations essential for advancing the country's power sector. He urged the CSOs not to rely on misinformation, but to seek clarification and authentication directly from TCN's management on issues about the company and its projects.

Abdulaziz reaffirmed TCN's commitment to transparency and accountability, stating, "There is no project in TCN that is awarded without due process. We are patriotic and God-fearing,

Whatever project we claim to have awarded, you will find it if you investigate."

Recognizing the need to improve communication and collaboration between TCN and CSOs, Abdulaziz agreed to establish a committee to address existing gaps and resolve issues effectively.

In response, the Chairman of CSOs project assessment and monitoring committee, Comrade Splendour Agbonkolor, emphasized the importance of CSOs being involved from the inception of projects to ensure transparency and accountability. He advocated for ongoing monitoring and reporting throughout project implementation to strengthen TCN's work and community engagement.

The establishment of this committee reflects TCN's commitment to fostering constructive dialogue and collaboration with CSOs to achieve shared goals and enhance transparency in its operations.



Group photograph of TCN and CSO Management team

Beyond Unbundling Of TCN: Need For Modern Strategies

Engr. Dr. Adesola O. Oladeji

Recently, during the Federal Ministry of Power Ministerial Retreat, the Honourable Minister of Power, Chief Adebayo Adelabu announced a major, but expected change in the landscape of the Nigerian Electricity Supply Industry (NESI), the unbundling of the Transmission Company of Nigeria (TCN).

Prior to this announcement, the Electricity Act (EA) 2023 which repeals the Electric Power Sector Reform Act (EPSRA) No. 6, 2005 portends a reform journey, hence, sets the stage for a more sustainable future in the (NESI). The (EA) tries to pitch the (NESI) into a modern, efficient and competitive industry vis-à-vis attracting significant private sector participation and investments, promoting Renewable Energy deployment, expanding access to electricity, promoting fair and transparent regulations to addressing the challenges faced by customers and establishment of an Independent System Operator (ISO) amongst others.

In this article, we will examine the incorporation of the (ISO), its connection to the next Market Stage, while sharing insights on the nexus between ISO and what is expected to drive the market (digital transformation) in the foreseeable future.

Incorporation and Licensing of an Independent System Operator (ISO) Pursuant to Part IV, S.15 of the (EA) 2023, an entity otherwise known as the (ISO) shall be incorporated in accordance with the Companies and Allied Matters Act, 2020,

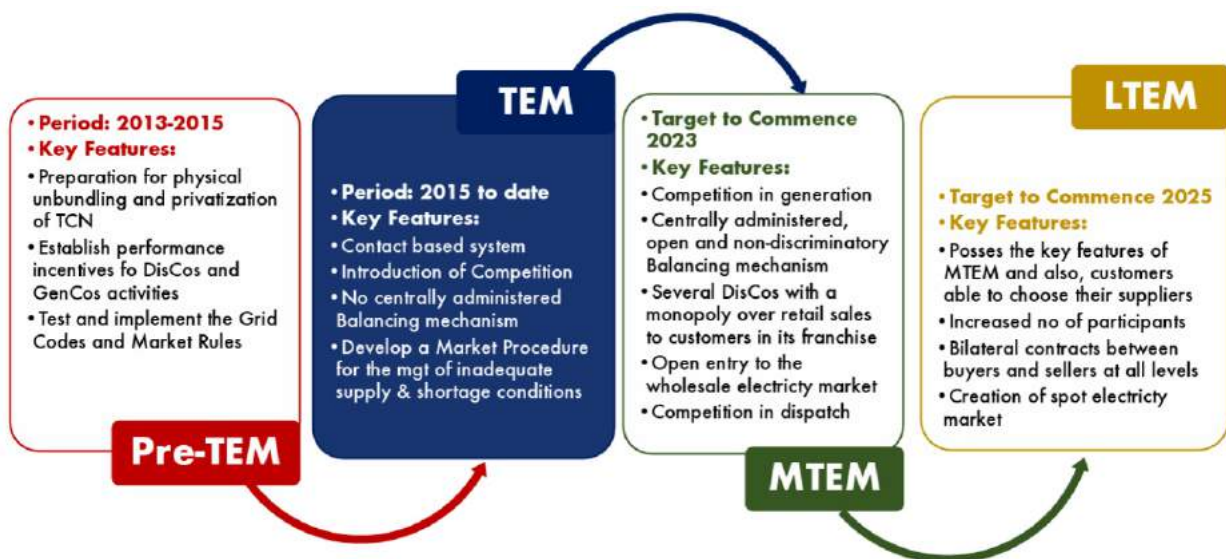
and subject to the National Code of Corporate Governance. This means that the Transmission Company of Nigeria (TCN) PLC will be unbundled by the (EA) 2023 thereby advancing the (NESI) to the next stage of the Market.

The (ISO) will be responsible for Market and System Operation functions and may be a company limited by shares or have a specific ownership and governance structure specified by the Nigerian Electricity Regulatory Commission (NERC). Once the (ISO) is incorporated and licensed, (TCN) will transfer all assets and liabilities related to Market and System Operations to the (ISO), subject to NERC's terms and conditions.

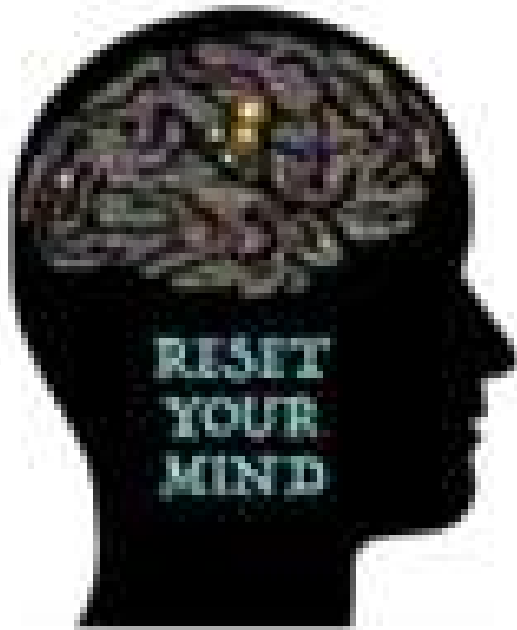
Pursuant to Section 10(1) of the (EA) 2023, the incorporated (ISO) will have the responsibility of developing the Market Rules and Grid Code, and the governance management of all Market and System Operations in the (NESI). Consequent upon this major development in (NESI), here comes the million - dollar question: WHAT NEXT?

Evolving of Next Market Stage

Over time, the Nigerian Electricity Supply Industry (NESI) is expected to progress through Market Development Stages as enshrined in the 2nd version of the Market Rule. These stages are to be determined by the extent of competition in the Nigerian Electricity Market (NEM).



Stages of Development of the NEM



It is envisaged that based on the current market trends as determined by NERC on the extent of competition in the NESI, NERC may soon exercise its powers under Section 8(1) of the (EA) 2023 to declare a more competitive electricity Market. The new Market (medium-term) Stage will be defined majorly by three fundamentals (competition, initiation of bilateral contract, that is, selling of energy under willing buyer and willing seller contractual arrangement and diversification of energy resources).

This transition, as birthed by the (EA) 2023 has potential for increased regulations, competition, and investment. This stage of the Market will embrace a balancing mechanism which will deal with imbalances between the metered and contracted quantities of energy. It will require skills/knowledge, hence, a need to focus on developing transferable skills/knowledge. These are skills/knowledge that can be applied to a variety of jobs which are essential for success in the future of the incorporated (ISO).

New technologies, models and electricity Market concepts are emerging all the time, and it is important to stay up-to-date on the latest trends in order to identify new opportunities and develop the skills needed to succeed in the future of the new incorporated (ISO) in (NEM). As each stage evolves, there is a

need to embrace the trend of evolvement by adapting and willing to learn new skills (reskilling and upskilling) in order to stay ahead of the curve in the ever-changing electricity market.

Nexus between ISO Incorporation and Digitalization

The pace of innovation is accelerating and by implication, a need by all to be willing to learn new things in the new dispensation and career life. This may require taking on new challenges, seeking out new opportunities, and going back to acquire new knowledge which can be achieved with the concepts of digital transformation. The existence of necessary metering and information technology infrastructures and settlement software for the operation of a more competitive electricity market will introduce digitalization, which is the technological tool to effectively administer the next market stage.

Digital Transformation

This involves an organized shifts in culture, workforce, and technology. In the anticipated new market stage/era, a need to digitally transform the business of electricity is germane because it is a business strategy to improve a company's strategic direction and value by leveraging on available digital technologies. Below is an infographic of the three digital (3D) transformation anticipated to drive the new Market Stage under the incorporated (ISO).

Digitization

Simply put, digitization is the task of converting data from an analog to a digital form. For example, paper records can be digitized and store online for archiving and retrieval. So, to administer the new Market Stage in the digital sense, a "smart" or "dynamic" and an "all-digital" computer-based procedures (CBPs) system will be adopted.

So, what is it to digitize? The answer is not far-fetched – DATA. How? By making mined data more dynamic, that is, quality data. Along the entire value chain of NESI, data is the language of communication by all stakeholders. Generation, Transmission, System Operation, Market Operation, Distribution, supply, trading and even enforcement of consumers rights and obligations will be driven by data, which need to be digitized.

This insight can't be drawn by simply looking at vast volumes of raw data. Such data has to be carefully mined with a well-designed template for proficiency, accuracy, consistency, being concise and meaningful in order to aid effective decision-making and growth of the overall performance of the incorporated (ISO). Digital transformation drivers shouldn't be

about making decisions, formulating policies, or uncovering strategies based on intuition alone, it should be based on digitized data through digitization.

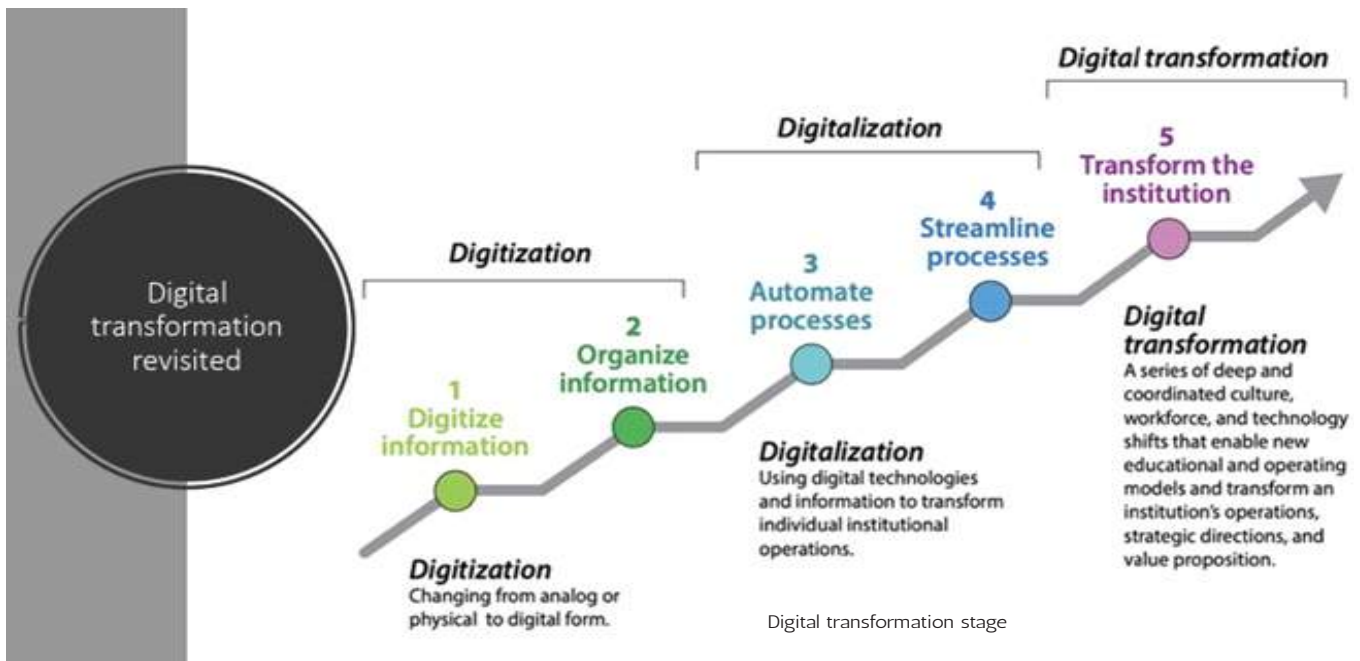
Digitalization

This involves the use of technology on a process. Processes are digitalized using digital technologies and information to transform business operations. For example, in the incorporated (ISO), there will be a need to digitalize Congestion Management to aid Locational Marginal Price (LMP) and Financial Transmission Rights (FTRs), Outage Management, Billing and Settlement processes, Payroll, Procurement Supply, Chain Management, Administrative Operations, etc, through softwares. The much-awaited Supervisory Control and Data Acquisition (SCADA), Energy Management System (EMS), System Telecoms and

Automated Meter Reading (AMR) when fully deployed will support the digitalization of the incorporated (ISO).

Conclusion

As it is not enough to incorporate an independent entity (ISO) for (NEM) purpose, the need to look at the implementation and enforcement processes via market trend is of paramount importance. Since the landscape is changing, there is a need for a paradigm shift from the current reactive system to a "new normal system" based on conjectures in which information necessary for regulatory/policymakers to make informed decisions is being produced and easily accessible. Whilst it is necessary to follow the Market Stage trend, let it be MUTATIS MUTANDI, not as the previous, because the business before the incorporated (ISO) is digital dependent.



FAREWELL

*In God's care you rest above,
in our heart, you rest with love.
Memories of you are ours to keep.
Our words are few, but our love is deep*

Keep Resting in the bosom of the Lord

Late Engr. Adamu Bello Abdullahi,
Principal Manager, (System Operator),
Kano Region

Late Mrs. Rashida Okunlola,
Officer II, (F&A) kaduna Region

Understanding the Vital Role of SLA: Kaduna Region, KEDC Holds Two-day Workshop

By Maimuna Isah- Ladan



Engr. David Bello, TCN's SLA representative

The Kaduna Regional Management of the Transmission Company of Nigeria (TCN) and the Kaduna Electricity Distribution Company recently convened a two-day interactive session focused on enhancing awareness of the Service Level Agreement (SLA).

Held at the TCN Kaduna Regional Office, Engr. David Bello, TCN's SLA representative, who facilitated the meeting, said that a proper understanding of the SLA among both companies' staff

would foster collaboration and improve service delivery.

Bello encouraged all stakeholders in the electricity sector to acquire basic knowledge of the SLA.

The workshop was divided into three sessions covering the purpose and concept of the SLA, TCN's responsibilities to distribution companies under the SLA, and distribution companies' obligations in relation to the SLA.

Additionally, discussions on the repercussions of violating market rules by any of the party were addressed.

Head of the Power System and Dispatch Unit at Kaduna Electric, Engr. Muhammed Ibrahim Manga, expressed gratitude to TCN for hosting the seminar and urged participants to apply their newfound knowledge to enhance productivity.

The need to understand and adhere to the Service Level Agreement (SLA) cannot be overemphasised, the SLA outlines the expectations and responsibilities of TCN and the distribution companies, and establishes clear guidelines for service quality, response times, and performance. This invariably helps in improving service delivery.

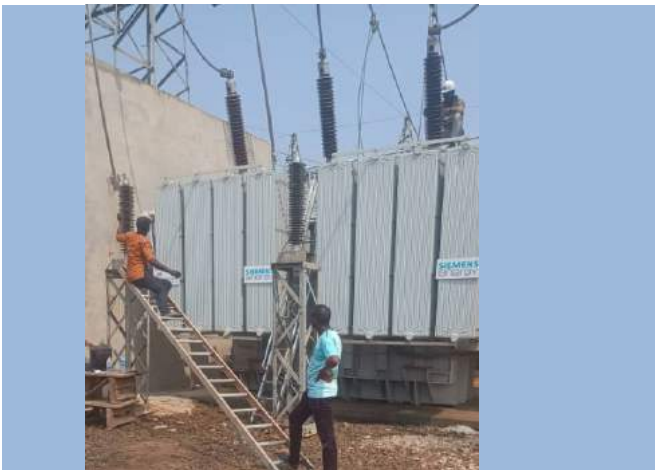


Group Photograph of participants at the workshop

In-House Engineers at Work



TCN Engineers working on restoring faulty 60MVA 132/33kV power transformer at the Ojo 132/33kV Transmission Substation, Lagos State



TCN engineers energize newly installed 60MVA, 132/33kV power transformer at its 132/33kV Okenne Transmission Substation, Kogi State. The transformer, which was energized by 5:14 pm on Saturday, 13th January, 2024, will boost the capacity of the substation by 48MW



Benin Region of TCN, successfully commissioned a new 60MVA power transformer at its 132/33kV Amukpe Transmission Substation in Delta State on Monday, 15th January, 2024. The commissioning of the 60MVA transformer has increased the capacity of the substation from 100MVA to 120MVA,

Grid Stability: Disturbances Decline by 76.47% in Five Years

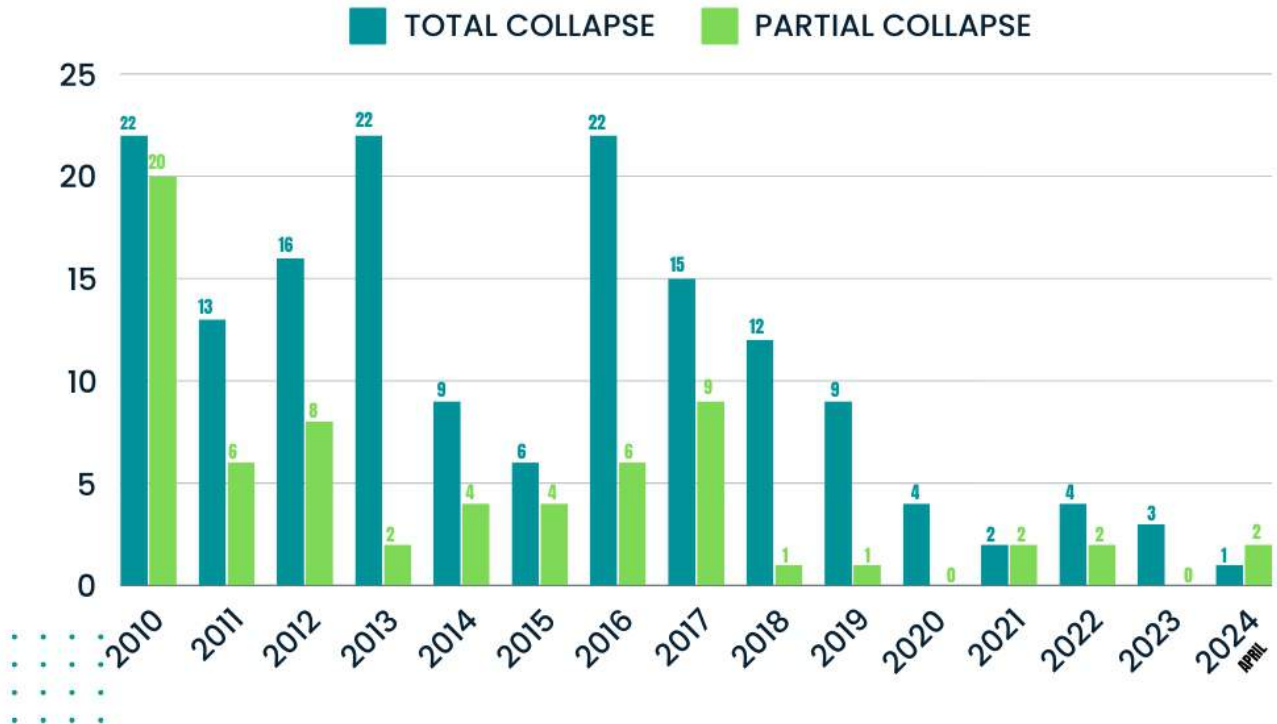
In recent years, the number of grid disturbances/ system collapses has gradually reduced, contrary to popular opinion.

This improvement is, however, not unconnected to the continuous effort by the management under Engr. Sule Abdulaziz to strategically expand the grid while harnessing in-house capacities to finding solutions to grid stability, pending the deployment of SCADA/EMs.

Clearly, between 2020 to date (five years), we recorded fourteen total and six partial grid disturbances totalling twenty (20), which represents 76.47% reduction in grid disturbance, when compared to the previous five years, (2015 to 2019) where we had sixty-four total and twenty-one partial grid disturbances, totalling eighty-five (85) times.

No doubt there is room for improvement, and TCN will continue to work hard to further reduce the number of grid disturbances to the barest minimum.

HISTORY OF SYSTEM COLLAPSE



Photorama



TCN Meets Siemens, FGNPC on Accelerated Power Agreement as follow up to the bilateral electricity "Acceleration Agreement" signed on the sidelines of the COP28 event held in Dubai, United Arab Emirates.



Interactive meeting between TCN and AEDC to synergize on better way to serve its customers within Abuja and its environment with the new electricity generation.



TCN in conjunction with World Bank organised a three-day workshop for stakeholders in the power sector on the integration of renewable energy into the National grid to address the importance of the use of renewable energy for a reliable, cost-effective and efficient means of generating electricity to bridge electricity gaps in the sector.

TCN's Symphony of Gratitude: A Farewell to Visionary Leaders

By Uduak Etukudo



Engr. Victor Adewunmi, former ED TSP. Mr. Isah Dutse, former ED F&A, and Barr. Justin Ishaya-Dodo, former ED HR&CS

In the grand tapestry of time, there exists a moment for every purpose under the sun: a time for beginnings and a time for endings, a time for planting and a time for reaping, a time for sorrow and a time for joy. For the Transmission Company of Nigeria (TCN), it was a time to honor the departing four remarkable Executive Directors, bidding farewell to an era defined by their unwavering dedication and visionary leadership.

Amidst a chorus of gratitude and nostalgia, TCN recently played host to a valedictory event, paying tribute to Engr. Victor Adewunmi, Engr. Maman Lawal, Alhaji Ahmad Isah-Dutse, and Barr. Justin Ishaya-Dodo. The venue buzzed with a blend of emotions as colleagues, industry peers, and well-wishers gathered to celebrate the indelible mark left behind by these extraordinary leaders.

The event transcended mere ceremony; it was a heartfelt

testament to the profound impact these individuals had on TCN's trajectory. Laughter mingled with tears as each outgoing Executive Director took their final bow, surrounded by those whose lives they had touched.

Dr. Sule Abdulaziz, TCN's MD/CEO, set the tone for the day, expressing profound gratitude to the departing leaders. "TCN has flourished under their stewardship," he remarked, acknowledging their pivotal role in the company's success. The outgoing EDs, in turn, took the opportunity to express heartfelt appreciation to their spouses for their unwavering support throughout their careers.

As colleagues and subordinates shared personal anecdotes, a common thread emerged – the profound impact of mentorship and camaraderie. Stories of guidance and encouragement painted a vivid picture of TCN's vibrant workplace culture, shaped by the leadership of these esteemed individuals.

Barr. Justin Ishaya-Dodo, outgoing ED for Human Resources & Corporate Services, reflected on his journey from the early days of his career to the pinnacle of public service. "I never imagined I would reach this point," he confessed, recounting his steadfast commitment to excellence. His citation

painted a portrait of resilience and achievement, illustrating the transformative impact he had on TCN's legal landscape.

Similarly, Alhaji Ahmad Isah-Dutse's narrative traced a path of perseverance and dedication. From humble beginnings to the pinnacle of his career, his journey mirrored TCN's evolution, marked by a commitment to excellence and continuous improvement.

Engr. Victor Adewunmi's story epitomized dedication and passion. From his early days at the National Arts Theatre to his tenure as ED for Transmission Service Provider (TSP), his unwavering commitment to TCN's mission shone through. His legacy, rooted in meticulous attention to detail and a deep love for his craft, will endure for generations to come.

Though absent, Engr. Maman Lawal's presence loomed large, his visionary leadership leaving an indelible mark on TCN's landscape. As the ED for Independent System Operator (ISO), his innovative contributions transformed TCN's systems, enhancing reliability and performance.

As colleagues and subordinates shared personal anecdotes, a common thread emerged – the profound impact of mentorship and camaraderie. Stories of guidance and encouragement painted a vivid picture of TCN's vibrant workplace culture, shaped by the leadership of these esteemed individuals.

Looking to the future, incoming leaders Engr. Olugbenga Ajiboye, Engr. Mrs. Nafisat Ali, Mr. Chuks Ochijie, and Mrs. Biodun Afolabi, pledged to build upon the foundation laid by their predecessors. Their commitment to innovation and empowerment underscored TCN's unwavering commitment to excellence.

In bidding farewell to these visionary leaders, TCN not only celebrated their achievements but also embraced the promise of a new era. The emotional resonance of the valedictory event serves as a poignant reminder of the transformative power of dedication, resilience, and the human spirit. As TCN charts its course forward, it does so with gratitude for the past and hope for the future, guided by the enduring legacy of those who came before.

TCN's Ode to Leadership: honouring the trailblazers

By Naomi Obi

In hues of gratitude, TCN bids adieu,
To leaders whose legacy forever will brew,
In symphony grand, their tale we weave,
As they bid farewell, hearts do grieve

Engr. Victor Adewunmi, with prowess untold,
From NYSC to Harvard, his journey, bold,
As TSP's helm, he steered with might,
Leaving imprints strong, in TCN's flight

Alhaji Ahmad Isah-Dutse, a journey profound,
From humble beginnings, his wisdom, unbound,
In finance's realm, his wisdom did gleam,
Shaping TCN's fate, like a timeless dream

Barr. Justin Ishaya-Dodo, with administrative might,
His dedication shone, in day and night,
From NEPA's roots, to heights so grand,
His legacy forever, on TCN's land

Engr. Maman Lawal, though absent, revered,
His vision and wisdom, forever endeared,
In ISO's realm, he crafted TCN's tale,
With brilliance and grace, he did prevail

As TCN gathers, a tapestry unfurls,
Of tales and anecdotes, of dreams and pearls,
In camaraderie, they bid adieu,
To leaders whose essence, forever in view

And as the baton passes, to hands anew,
Ajiboye, Ali, Ochijie and Afolabi with vision renewed
They pledge to carry forth, the torch so bright,
Guided by their predecessors' guiding light.

Unions and colleagues, with voices raised,
In gratitude and respect, their homage blazed,
For leaders who led, with hearts so true,
Their legacy lives on, in all that we do

So as TCN embarks, on journeys ahead,
With Abdulaziz on the driving seat
Hope and gratitude to God we raise
Our hearts are fed, with visions great
For in the echo of farewells, we find,
The seeds of a future, with dreams entwined

TRANSFORMER PROJECTS FROM JANUARY - MARCH 2024

TRANSFORMER CAPACITY	TRANSMISSION SUBSTATION	STATUS - COMMISSIONED	IMPACT
60MVA transformer	132/33kV Okenne Transmission Substation, Kogi State.	Commissioned on the 13th January, 2024.	The substation's capacity has increased by 48MW, for Abuja DisCo to offtake to its customers
2x100/125MVA transformers	330/132/33 Kv Alagbon Transmission Substation, Lagos State	Commissioned the two transformers on the 18th January 2024.	The substation's capacity has increased by 200MVA (160MW) for Eko DisCo to offtake to customers.
100MVA transformer	132/33kV Ihovbor Work Centre, Edo State	Commissioned on 29th January, 2024.	The transformer increased the substation's capacity to 160MVA for Benin DisCo to offtake to its customers.
100MVA transformer	132/33kV Benin Transmission Substation, Edo State	Commissioned on the 5th February, 2024	The substation's capacity has increased by 80MW, for Benin DisCo to offtake to its customers.
100MVA transformer	132/33kV Dakata Transmission Substation, Kano State	Commissioned on the 8th February, 2024.	The substation's capacity has increased by 80MW, for Kano DisCo to offtake to its customers.
60MVA transformer	132/33kV Kankia Transmission Substation, Katsina State	Commissioned on 9th February, 2024.	The substation's capacity has increased by 48MW, for Kano DisCo to offtake to its customers
60MVA transformer	132/33kV Hadejia Transmission Substation, Jigawa State	Commissioned on 10th February, 2024	The substation's capacity has increased by 48 MW, for Kano DisCo to offtake to its customers.
150MVA transformer	330/132/33kV Jos Transmission Substation, Plateau State	Commissioned on 24 th February, 2024	The substation's capacity has increased by 120 MW, for Jos DisCo to offtake to its customers
60MVA transformer	132/33kV Potiskum Transmission Substation in Yobe State	Commissioned on 29 th February, 2024	The substation's capacity has increased by 48MW for Yola DisCo to offtake to its customers.
100 /125MVA transformer	132/33kV Port Harcourt Main Transmission Substation, Rivers State	Commissioned on 6 th March, 2024	The substation's capacity has increased by 80MW, for PortHarcourt DisCo to offtake to its customers.
100MVA transformer	132/33kV Port Harcourt Town, Transmission Substation, Cross Rivers State	Commissioned on 6 th March, 2024	The substation's capacity has increased by 80MW, for PortHarcourt DisCo to offtake to its customers.
100MVA transformer	132/33kV Dan Agundi Transmission Substation, Kano State	Commissioned on 13 th March, 2024	The substation's capacity has increased by 80MW, for Kano DisCo to offtake to its customers.
100MVA transformer	Ilorin 132/33kV Transmission Substation, Kwara State	Commissioned on 25th March, 2024	The substation's capacity has increased by 80MW for Ibadan DisCo to offtake to its customers.
60MVA transformer	132/33kV Ondo Transmission Substation	Commissioned on 27th March, 2024	The substation's capacity has increased by 48MW, for Benin DisCo to offtake to its customers.
60MVA transformer	132/33kV Itu Transmission Substation	Installation is ongoing	The substation's capacity has increased by 48MW for Port Harcourt DisCo to offtake to its customers
100MVA transformer	132/33kV Irrua Transmission Substation, Edo State	Installation is ongoing.	The substation's capacity has increased by 190MVA for Benin DisCo to offtake to its customers
150MVA transformer	330/132/33kV Birnin Kebbi Transmission Substation, Kebbi State	Installation is ongoing.	The substation's capacity has increased by 120MW.
3no. 60MVA transformers	Ojo Stores, Lagos State	Delivered on 8th February, 2024	The three transformers are for onward delivery to TCN different project sites.
60MVA transformer	Rumuosi 132/33kV Transmission Substation, Port Harcourt, Rivers State	Delivered on the 7th, January 2024.	The substation's capacity has increased by 165MVA, for Port Harcourt DisCo to offtake to its customers
150MVA transformer	330/132/33kV Bauchi Transmission Substation, Bauchi State	Delivered on the 25th January, 2024.	The substation's capacity has increased by 120MW.
150MVA transformer	330/132/33kV Birnin Kebbi Transmission Substation, Kebbi State	Delivered on the 8th February, 2024	The substation's capacity has increased by 360MW.
63MVA Mobile transformer and accessories	Dangora 132/33kV Transmission Substation, Kano State	Delivered on March 6th, 2024	The substation's capacity has increased by 50MW.

TCN Seeks Perm. Sec's Support in Fight Against Vandalism

By Joy Egbase

The Transmission Company of Nigeria, TCN, has enjoyed the new Permanent Secretary, Federal Ministry of Power, Alhaji Mamudah Mamman to make the fight against destruction of power infrastructure in the country one of his top priorities.

The Managing Director/CEO of TCN, Engr. (Dr.) Sule Abdulaziz made the appeal when he led the management team to brief the new Permanent Secretary, Alhaji Mamudah Mamman about the company's activities.

While outlining TCN's achievements in strengthening Nigeria's transmission infrastructure and improving grid stability, the MD said that inadequate funding and vandalism of power infrastructure are two key challenges that the company needs the support of the Permanent Secretary to tackle.

He highlighted some TCN achievements to include grid expansion through the addition of new substations, rehabilitation of transmission lines, and enhanced safety measures in substations and control rooms.

Abdulaziz noted that the implementation of the Nigerian Electric Grid Maintenance Expansion and Rehabilitation Program (NEGMERP) of TCN has contributed significantly to increase in capacity and grid reliability in the country.

The MD reiterated TCN's commitment to technological advancements as noticed in the implementation of the Solar Battery Control and Data Acquisition System, grid automation, and Supervisory Control and Data Acquisition (SCADA) projects. According to him, "these initiatives are aimed at enhancing grid stability, mitigate transmission losses, and facilitate a more rapid response to faults and disturbances".

Continuing, he emphasized the importance of collaboration with state governments on right-of-way issues, the completion of ongoing projects, and the fostering of innovation within the company.

"Let me end by stressing the need for continuous investment, capacity building, and collaborative partnerships to ensure a resilient and efficient transmission network that will meet the nation's growing power needs and promote sustainable development", he added.

On his part, the Permanent Secretary, Alhaji Mamudah commended TCN for its role in improving power transmission in the country even as he committed to working with management to address issues of vandalism, funding as well as system collapse challenges.



Group photograph of TCN Management team with the new Perm. Sec., Minister of Power



We Continue to celebrate our female engineers



Engr. (Mrs) Ene Elizabeth Okloho,
Regional Operations Coordinator, (ROC),
Abuja Region



Engr. (Mrs) Musa Ajanaku Ramatu,
Principal Manager, (PC & M),
CHQ



Engr. (Mrs) Engr. Euphemia Ogboani
Principal Manager (HSE),
Enugu region.



Engr. (Mrs) Miriam O. Ekezie
Senior Manager (Substation Projects)
CHQ



Engr. (Mrs) Ayanbanke Willaims,
Senior Manager (Project) JICA



Engr. Chidinma E. Anyachukwu,
Manager (System Operator)
Enugu Region



Engr. Chinyere Faustina Ani,
Manager (System Operator)
Enugu Region



Engr. Oluchi Josephine Onya,
Manager (System Operator)
Enugu Region



Engr. Ajibo Chioma Stella, Manager
(System Operation) Enugu Sub-Region



Engr. Tina Emwinghare Oigjagbe
Manager (PC&M) Benin Sub-Region



Engr. Nwadike ijeoma Mary, Manager
(System Operator), New Haven
Sub-Region



Engr. Evangeline Peter's - Awoso, Asst.
Manager (Electrical), Delta Sub-Region



Engr. (Mrs) Ijeoma Anigbogu
Asst. Manager (PC&M)
Abuja Sub-Region



Engr. Nwosu Amaka Pauline
Officer I (PC&M)
Abuja Sub-Region



Engr. Wasila Ahmed Adamu, Officer I
(System Operator), Kano Region



Engr. Chukwu Ndidi Jacinta, Officer I
(System Operator), Enugu Region



Engr. Maryam Musa Gumel,
Officer I (System Operator),
Kano Region



Engr. Obiechina Rita (Electrical), Officer
II, Gwagwalada Sub-Region



Engr. Asiya Baba Rufai,
(System Operator), Kano Region



Engr. Hafsat Nabahani Imam,
(System Operator) Kano Region

Awards and Conferments



Presentation of Ambassadorial Fellow Award to the MD/CEO, (TCN), Engr. Dr. Sule Abdulaziz, by the Institute of Industrial Security and Safety of Nigeria



Presentation of award of Excellence to the MD/CEO, (TCN), Engr. Dr. Sule Abdulaziz, by Zero Tolerance for Corruption Association (ZTCA), as an icon of prudence and corruption crusader



Engr. Mahmud Suleiman, Regional Transmission Manager, (RTM), Abuja, on his conferment as Fellow, Nigerian Society of Engineers (NSE)



Engr. Ene Elizabeth Okloho, Regional Operations Coordinator, (ROC), Abuja, on her conferment as Fellow, Nigerian Society of Engineers (NSE)



Engr. (Mrs) Musa Ajanaku Ramatu, Principal Manager, (PC & M), on her conferment as Fellow, Nigerian Society of Engineers (NSE)



Achievement award presented to Barr. Mohammed Adama by the governing council of NBA Young Lawyers Forum (National), for her modest contributions to the legal community

GE Vernova Hosts Nigerian Energy Dialogue in Lagos

By Tosin Olasehinde

GE Vernova recently hosted the Nigerian Energy Dialogue as a pivotal platform for meaningful discourse among stakeholders in the sector.

The event, held on March 5th, 2024, at the Raddisson Blu Anchorage Hotel in Victoria Island, Lagos, featured insightful discussions on topics including the Nigeria Energy Policy Framework, Securing Nigeria's Energy Future: Challenges and Opportunities, and Balancing Energy Reliability, Affordability, and Sustainability.

Mr. Kenneth Oyakhire, Managing Director and CEO of GE Vernova, underscored the company's 130-year legacy of innovation, rooted in the transformative vision of co-founder Thomas Edison. Oyakhire also announced the forthcoming spin-up of GE. He expressed confidence in GE Vernova's capacity to drive reliable, affordable, and sustainable energy solutions, drawing inspiration from its rich heritage.

In her address, Julie Leblanc, the US Commercial Counselor to Nigeria, commended GE Vernova's century-long presence in Nigeria, noting that 65% of Nigeria's power infrastructure utilizes GE products. She emphasized the enduring partnership between the United States and Nigeria, focusing on enhancing two-way trade and investment, fostering security cooperation, and supporting sustainable development. Leblanc reaffirmed the commitment made by President Joe Biden to deepen ties with Africa, acknowledging Nigeria as a strategic partner in advancing inclusive economic growth.

She advocated for collaboration with Nigerian counterparts to address climate change challenges. Highlighting the significant

investment in renewable energy by the United States, she noted that partnerships with companies like GE Vernova can drive sustainable energy solutions in Nigeria.

Professor Barth Nnaji, Chairman/CEO of Geometric Power, spoke on the successful commissioning of Geometric Power's project, powered by GE technology. He outlined the company's commitment to expanding its footprint in supplying reliable electricity through embedded power solutions. Nnaji emphasized the imperative for government and private sector collaboration, with GE playing a pivotal role in driving progress.



Group photograph of panelists

During a panel discussion at the event, the General Manager, System Planning, TCN, Engr. Kabiru Adamu, representing the MD/CEO of TCN, Engr. Dr. Sule Abdulaziz, dispelled misconceptions about TCN's role in the power value chain, highlighting ongoing efforts to enhance operational efficiency through technological advancements such as the deployment of a SCADA system. Adamu stressed the importance of

integrating renewable energy into the grid to improve reliability and affordability, underscoring the collaborative approach taken by TCN and stakeholders to develop clear frameworks for renewable energy integration.

Addressing concerns about affordability, Adamu acknowledged the diverse economic realities of end-users and emphasized the need for a harmonized policy and regulatory framework to balance market requirements with policy objectives.

Among the distinguished attendees were Mrs. Folake Soetan, CEO of Ikeja Electricity Distribution Company; Mohammed Mijindadi, President of GE Nigeria; Mr. Bimbola Banjo of PWC; Dr. Yusuf Ali, a commissioner at NERC; and Mr. Ahmed Damcida, CEO of Energy Culture Limited.

HISTORY OF ABUJA

The land now called Abuja was originally the south-western part of the ancient Habe (Hausa) kingdom of Zazzau (Zaria). It was populated for centuries by several semi-independent tribes. The largest of the tribes was Gbagyi (Gwari), followed by the Koro and a few other smaller tribes.



selection included: centrality, health, climate, land availability and use, water supply, multi-access possibilities, security, existence of resources, drainage, good soil, physical planning convenience and ethnic accord.

The Emir of Abuja at the time, Altai Suleiman Bara, was asked to meet with his Emirate Council to

In early 1800's when Zaria fell to Fulani invaders, Muhammed Makau, fled south with some followers and his brothers - Abu Ja and Kwaka. Abu Ja succeeded Makau in 1825. The full name of the king was Abubakar, Abu was his nickname. By some accounts his fair complexion earned him the nickname Ja which means red or fair-skinned in Hausa. He became known as Abu-Ja meaning Abu the red or Abubakar the fair one. Other sources say that the Ja is a shortened form of Ishaku Jatau, his father's name. King Abubakar founded the kingdom of Abuja.

approve contributing four of the five districts to Abuja to become the new capital. The council was divided as some districts considered it too much of a sacrifice; but at the end, they approved the request from the Federal Government. Thus, the Abuja in Niger State contributed 80% of the land of the territory. Plateau State (Now Nassarawa State) contributed 16% of the South east territory and Kwara State (now Kogi State) contributed about 4% of the south west territory.

Abuja became a major commercial center where goods were exchanged by long distance traders. The inhabitants successfully fought off the Fulani and were not conquered as the neighbouring lands were. In 1902, Abuja was occupied by the British colonial army. The British reorganized the kingdoms and called them emirates which means kingdoms in Arabic. Until

The Emirate was then asked to give up the name Abuja for the Federal Capital Territory. Again, the council was divided. In the end, they agreed believing that the name of the Emirate would become famous throughout the world. The previous town of Abuja was renamed Suleja after the then Emir Suleiman Barau and Ja the last syllable of the first Emirate's name. Another interesting historical fact is that in the Gbagyi (or Gwan) language, the word Aso means success or victory.



1975, it remained a quiet part of Nigeria. The problems associated with the capital being in Lagos, led to the search for a new capital that year. Abuja was selected from amongst 33 possible sites. The criteria used for

According to tradition, the original inhabitants of the region lived at the base of the rock for centuries without being conquered. The rock was a refuge as well as mystical source of strength. Asoro (Aso Koro) the name of one of the local areas, therefore, means people of victory. In addition, the term Aso Rock is increasingly being used to refer not only to the physical structure of the most imposing rock in the area, but also as a symbol of government power and a nation.

Retirement



Mr. Sunday Ikudede, Principal Manager, (Audit) CHQ



Mr. Ado Murtala, Senior Manager, (System operations), Yola Sub-Region



Mrs. Aweda Comfort F, Senior Manager (HR) Ganmo Sub-Region



Mr. Julius Femi, Senior Manager, (F&A), Port Harcourt Region



Mr. Siga Audu Musa, Manager, (System Operations), Gombe Sub-Region



Mrs. Ajayi Florence, Manager (HR) Osogbo Sub-Region



Mr. David A. Manager (F&A), Akure Works Centre



Mr. Olanusi Felix Adeolu, Asst. Manager, (System Lines), Papalanto Sub-Region

She Escaped Death by Whisker

(Inspired by a true story)

By Echela Okwori

It was a busy afternoon in Mararaba Open Market, Nasarawa state. The market was full of buyers and sellers. The road to Aso carried thousands of pedestrians, motor bikes and cars all at the same time.

Mama Deborah was in the hustle and bustle. She wanted to buy fresh fruits to prepare some smoothies for her family. A woman in her early fifties sat in the sun under a small umbrella selling banana and oranges.

She approached the woman and they both began haggling. Dissatisfied with the prices of the bananas and oranges she offered to buy, she made to walk away to another trader. Looking her in the eye with disgust, the woman said, "Ebola." Mama Deborah knew the meaning of Ebola but had never heard it used to insult anyone.

From the contempt with which the trader spat the word at her, she knew the woman was calling her a disease for not buying from her but wasting her time. Realising that this woman did not take kindly to people pricing her wares and not buying, especially when the weather was unfriendly, she silently increased her pace as she walked away from her.

"Thief," the woman quietly spat at her. "Ole!" Her voice was raised a little higher than before. "Una no go carry money come market, una go dey look for where to tif. Tif!"

Next thing Mama Deborah knew was the sudden spring of people screaming 'thief', 'ole' and 'barawo' at the same time. And they were referring to her. The shout of 'thief' increased. She knew she had to run for her dear life but the huge crowd made it impossible for anyone to flee.

The butchers with sharp knives had joined in the shout. Someone slapped her hard across her back. She winced in pain then attempted a feeble protest but her voice was drowned in the growing cacophony of confusion.

Her brain was still processing. Did she just get slapped? When did she become a thief? How? It was like a bad dream. Then people started running towards her. Okada riders, butchers, busy bodies. They started hitting her, forcing her to run.

She ran towards Mama Emeka's shop, chased by a mob of bloodthirsty urchins. She wouldn't have made it to the shop but for a young, strong man who physically blocked her closest pursuer with questions.

Mama Emeka lived in the same Aso neighbourhood as Mama Deborah and they attended the same Church. The kind woman quickly locked her in and barricaded her shop against the angry mob.

"I know this woman very well," Mama Emeka shouted at the crowd outside her locked shop. "She's not a thief." The angry and impatient mob kept shouting for her to open up and release the 'thief' to them or risk being burnt alive with her. "She is not a thief! She deserves to be heard." Hidden behind Mama Emeka's shop wares, Mama Deborah explained to her friend what had transpired.

After Mama Emeka told the mob what had transpired between the seller of fruits and her friend, the pursuers demanded to hear the story from her.

She mustered some courage and came close to the entrance of the barricaded shop to explain that she was not a thief but only priced a woman's goods and walked on without buying. She even managed to point out the woman.

The angry pursuers grew angrier. But their anger was transferred from Mama Deborah to the Ebola-calling trader. They rushed to her spot and upturned her fruit table and trays. She was given a couple of slaps but nobody talked of killing her. She was not accused of stealing like Mama Deborah whom they planned to set ablaze. The tyre and fuel can that had appeared from nowhere to be used in lynching the 'thief' was suddenly useless.

Mama Deborah heaved a sigh of relief. She knew she would die someday, like everyone else, but not today. She had cheated death! She literally saw the man in the long black coat walk away in disappointment. She couldn't tell whether he was Mr. Death or one of the bloodthirsty pursuers.

Moral

if ever you find yourself where someone is about to be lynched, think twice before joining the bloodthirsty mob. The person maybe innocent. moreover, you are not the court to pass judgement on offenders.

If ever you find yourself in a crowded place being accused of a crime you know nothing about, your best strategy is to NOT run, ask for a chance to explain what is happening. The criminals may attempt to drown your explanation with blows but it is still your best bet.

Enhancing Fire Safety Awareness in the Workplace

By Mary Philip Udom

The Federal Fire Service, in collaboration with the Enugu Regional Office of TCN, organized a one-day sensitization program on the basics of fire safety for the region's staff.

Speaking at the workshop's commencement, Engr. Emma Akpa, General Manager of the Enugu Regional Office, represented by Engr. Ogbuani E.I, emphasized that the aim of the program was to educate and sensitize staff on fire safety.

He stressed the need for participants to acquaint themselves with fire safety protocols to reduce the incidence of fire incidents in workplace.

Akpa also commended TCN management for providing an enabling environment for staff safety and urged participants to actively engage in the training.

The facilitator from Federal Fire Service S.F Frank C.C Chiegwe, emphasized the significance of understanding preventive and protective measures in fire safety stages.

He praised TCN Management for prioritizing the safety and security of machinery and employees, ensuring a safe working environment.

The practical segment of the training, which involved hands-on demonstrations with the fire extinguisher and fire blanket usage, described as "first Aid" to fire control, was a notable highlight of the event.



DIALYSIS!!!

Dialysis is a treatment for people whose kidneys are failing. When you have kidney failure, your kidneys don't filter blood the way they should. As a result, wastes and toxins build up in your bloodstream. Dialysis does the work of your kidneys, removing waste products and excess fluid from the blood.

People who have kidney failure, or end-stage renal disease (ESRD), may need dialysis. Injuries and conditions like high blood pressure, diabetes and lupus can damage kidneys, leading to kidney disease.

Some people develop kidney problems for no known reason. Kidney failure can be a long-term condition, or it can come on suddenly (acute) after a severe illness or injury. This type of kidney failure may go away as you recover.

There are five stages of kidney disease. In stage 5 kidney disease, healthcare providers consider you to be in end-stage renal disease (ESRD) or kidney failure. At this point, kidneys are carrying out around 10% to 15% of their normal function. You may need dialysis or a kidney transplant to stay alive. Some people undergo dialysis while waiting for a transplant.

During dialysis, blood is removed from the body through the red tube, passed through the dialysis machine, cleansed of all metabolic impurities and then reintroduced into the body through the blue tube.

This process is repeated for 4 hours while the patient remains immobile in bed.

The procedure is carried out 3 times a week, which results in 12 times a month and each time it takes 4 hours, resulting in a total of 48 hours a month.

For those who are healthy, this process of purifying your kidneys occurs automatically 36 times every day in your body with zero effort or discomfort even while you are moving around.

Take Good Care of Your Kidneys. Reduce Your Intake of:

Caffeine
Paracetamol
Alcohol
Salt
Sugar

Increase Your:

Sleep
Exercise
Exposure to sun
Water
Fresh fruits/veggies

Your Health Is Your Wealth.

The Lizard Can Grow a New Tail But Can The Tail Grow a New Lizard?



The lizard we see running around, loses its tail at a point in its life, but it does not live out its life without a tail, a new tail eventually grows, but the tail does not grow a new lizard, the source has been cut off, it simply dies.

Let us look at the tail being lost. When a tail is lost, it jumps around like it has life, but after a few minutes, it dies, then it decays and becomes soil. How does that apply to our lives? There are many times when, we think we are indispensable, "they can't do without me, without me they will be nothing".

Does that sound familiar?

And then something happens and you are out of that company and now you think, now they will be miserable. Hmmm, you will be surprised that the

company will employ a new person who will do better than you did. So, never think you are indispensable. Appreciate what God has given you, then do your best to give the best contribution that you can, so you give them something good to remember you by.

If you don't believe you are dispensable, try dying, you will be buried, and put in the grave, you will be forgotten. Your company will readily replace you and move on.

What is the lesson here? Just do your best at any given circumstance.

Like the lizard? If you lose a tail, don't mourn, even the lizard never goes back to mourn the tail it lost, it continues the business of life, eventually a new tail grows. Life goes on. Just know that most things you lose can be replaced.

So the thing is to never mourn over past mistakes, never mourn about past relationship, never mourn about things that are dead, never mourn about your past because you can't correct your past mistakes, you can only look towards the future and make positive, yet necessary adjustments.

So today, if you have lost your tail, be like the lizard, move on in life, be the best you can be.

Enugu Sub-Region Sports Club Extends Support to Wives of Deceased Staff and Host Community

By Egwu Stella Udoka

In a demonstration of their commitment to employee well-being and community engagement, the Enugu Sub-Region Sports Team and Recreational Club of the Transmission Company of Nigeria (TCN) recently donated various items to the wives of deceased members of staff and the local host community. The donations were done to mark the end of a two-day sports event held within the sub-region.

The two-day activities, included a football match between male and female staff members of the region, a blend of outdoor games, indoor activities, and health check-ups. Notably, the Sub-Region male team emerged victorious in the football match against the regional male team, securing a 2-0 win. Similarly, the female team from the regional office claimed victory over their counterparts from the Sub-Region.

Addressing the participants, Engr. Emmanuel Akpa, the GM (T) of the Enugu Region, emphasized the importance of sports in maintaining physical fitness. He commended the AGM (Transmission), Enugu Sub-Region, Engr. Charles Iwuamadi, and the Chairman of the Sports Club, Engr. Chukwuma Chikezie, for

their contributions to the success of the sports club.

Engr. Iwuamadi echoed the sentiment, urging staff members to prioritize regular exercise as it contributes significantly to overall well-being. He also expressed gratitude to the management for recognizing the value of sports and fostering a supportive environment for staff engagement in sporting activities.

As a token of appreciation for active participation in sports, a treadmill machine was presented to the most active staff member. This gesture underscored the company's commitment to promoting a healthy lifestyle among its workforce.

The grand finale of the event culminated in the presentation of awards to individuals who demonstrated exceptional enthusiasm and dedication to sports.

This initiative not only underscores the importance of physical fitness but also highlights TCN's dedication to employee welfare and community outreach, reinforcing the company's status as a responsible corporate citizen.



Group photograph of female staff football team

Wedding Galore



Engr Ibrahim Abugbum, (System Operator), Yola Subregion and his wife



Mrs. Chime Deborah, (Human Resources), PortHarcourt Region and her husband



Mr. Victor Nwafor, (System Operator), Alaoji Sub-Region and his wife



Mr. Akachukwu Gift, (System Operator), Alaoji Sub-Region and his wife



Mr. Sadiq Bashir Mahuta (Human Resources) kaduna Region, and his wife



Engr. Wala Felix, (System Operator), PortHarcourt Sub-Region and her husband

STATES IN NIGERIA

S P B X I I P L A T E A U V Q W K A B P A Q G S
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Cross River	Akwa Ibom	Nasarawa	Adamawa	Anambra	Bayelsa	Katsina	Plateau
Zamfara	Bauchi	Ebonyi	Jigawa	Kaduna	Rivers	Sokoto	Taraba
Benue	Borno	Delta	Ekiti	Enugu	Gombe	Kebbi	Kwara
Lagos	Niger	Abia	Kano	Kogi	Ogun	Ondo	Osun
Yobe	Edo	Imo	Oyo				

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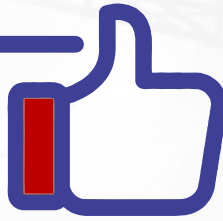
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Ezeonyejekwe Cletus

Congratulations to you and your accomplishments keep it up 🙌 sir , we are proud of you.

1 w Like Reply Hide



Top fan

Tpl Imrana Daura

Good one from the TCN. TCN is always committed to improving the delivery of bulk power to the distribution load centers nationwide. We are proud of you. Keep up.

1 w Like Reply Hide Edited



Musa mTy commented: "Amazing and welcome developments. Kudos to the TCN management in making a giant stride to move the power sector forward."



7 days ago



Amos Folaju

Nice publicity. More of this and more enlightenment for the teeming populace.

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Babs Sloans commented: "Govt should make it law, don't build so close to transmission towers"

3 days ago



Terry Bobby

Great feat! I Pray for sustainability and expertise while complementing management's efforts. Once again, Congratulations!

1h Like Reply Message Hide



Imrana Daura

Transmission Company of Nigeria we are seeing the impact. Nigeria is thriving to greatness as far as power improvement is concern.

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