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Transforming Nigeria's Power Sector for Sustainable Development: The Critical Role of Stakeholders

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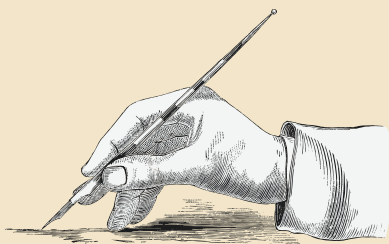


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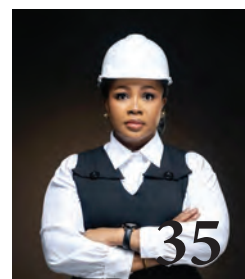
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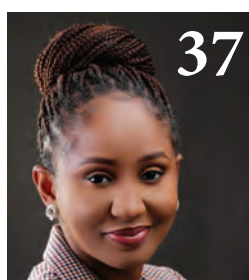
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Nigeria's aspiration for sustainable economic growth, industrial development, and improved quality of life rests on one critical foundation: a reliable, resilient, and sustainable power sector. As this edition of *The Nigerian Engineer* explores the theme, "Transforming Nigeria's Power Sector for Sustainable Development: The Critical Role of Stakeholders," it is clear that achieving this transformation requires more than policy reforms or increased investment; it demands a shared commitment from all stakeholders. Despite notable reforms over the past two decades, the Nigerian electricity sector still faces persistent challenges, including inadequate generation capacity, aging infrastructure, transmission constraints, high technical and commercial losses, and limited access to reliable electricity. These challenges have far-reaching consequences for industrial productivity, economic competitiveness, healthcare, education, and the overall well-being of our citizens.

Yet, Nigeria possesses enormous opportunities. Our abundant natural gas reserves, renewable energy potential, and growing pool of engineering expertise provide a strong foundation for building a modern, sustainable, and inclusive energy system. Realizing this potential, however, requires coordinated action.

Government must continue to provide a stable policy and regulatory environment that attracts investment and promotes transparency; not one, without the other.

The private sector must drive innovation, improve operational efficiency, and invest in

Engr. Felicia Nnenna Agubata, PhD, FNSE

Chairman Editorial Board

modern technologies such as smart grids, renewable energy systems, and digital infrastructure. Financial institutions and development partners must provide innovative financing mechanisms to support critical energy projects. Equally important is the role of engineers. As designers, innovators, and custodians of critical infrastructure, engineers must continue to provide practical solutions that improve system reliability, enhance energy efficiency, and support Nigeria's transition to cleaner and more sustainable energy sources. Strengthening research, encouraging local technology development, and investing in capacity building will remain essential to the sector's long-term success.

Communities and consumers also have important responsibilities. Protecting power infrastructure, discouraging vandalism and energy theft, embracing energy efficiency, and fostering a culture of responsible electricity use are vital to sustaining investments and improving service delivery.

The transformation of Nigeria's power sector cannot be achieved in isolation. It requires strong collaboration and synchronization among government, regulators, investors, engineers, academia, development partners, communities, and consumers. Each stakeholder represents a vital link in the value chain, and only through collective action can we overcome longstanding challenges and unlock the full potential of the sector.

As you explore the articles in this edition, we hope they will stimulate informed dialogue and inspire innovative solutions to one of Nigeria's most important development priorities. Reliable and sustainable electricity is not merely an engineering objective; it is the engine of economic growth, industrialization, technological advancement, and national prosperity. The future of Nigeria's power sector depends not only on the infrastructure we build, but also on the partnerships we strengthen. Together, we can power a more sustainable, competitive, and prosperous Nigeria.

Transforming Nigeria's Power Sector for Sustainable Development: The Critical Role of Stakeholders



Engr. Prof. Abdulrasheed Babalola, FNSE

Nigeria's power sector remains a pivotal yet persistently challenged cornerstone of national development. With a population exceeding 200 million and an economy aspiring to sustained growth, reliable and sustainable electricity supply is non-negotiable. Decades of underinvestment, infrastructural deficits, and systemic inefficiencies have left the country with generation capacity that falls far short of demand, frequent grid collapses, and heavy reliance on costly self-generation via diesel and petrol generators. However, recent reforms—particularly the Electricity Act 2023—signal a transformative shift toward decentralization, private sector participation, and renewable integration, aligning with broader Sustainable Development Goals (SDGs), especially SDG 7 (Affordable and Clean Energy).

This article examines the current state of Nigeria's power sector, key challenges, pathways

to sustainable transformation, and the indispensable roles of diverse stakeholders in realizing this vision.

The Current Landscape and Persistent Challenges

Nigeria's installed generation capacity has grown modestly, reaching over 14,000 MW in recent years, with actual generation often hovering around 4,000–6,000 MW due to constraints. Transmission and distribution infrastructure lag significantly, plagued by aging equipment, high losses (often exceeding 40% in some areas), and vulnerability to vandalism.

Key challenges include:

- **Liquidity Crisis and Debt:** Long-standing debts to generators and other players have strained the value chain. Government initiatives, such as the ₦3.3–4 trillion settlement programmes under the Presidential Power Sector Financial Reforms, aim to

restore stability.

- **Gas Supply Constraints and Infrastructure Weaknesses:** Many thermal plants face fuel shortages, while transmission bottlenecks prevent full evacuation of generated power.
- **Low Metering and Estimated Billing:** A massive metering gap fuels consumer dissatisfaction and revenue shortfalls for Distribution Companies (Discos).
- **Grid Instability:** Frequent collapses undermine investor confidence and economic productivity.
- **Environmental and Sustainability Gaps:** Heavy dependence on fossil fuels and generators contributes to emissions, conflicting with Nigeria's Energy Transition Plan targeting net-zero by 2060.

Despite these hurdles, opportunities abound. The sector benefits from abundant renewable



resources—solar, wind, hydro, and biomass—largely untapped. Decentralization under the 2023 Act empowers states to develop sub-national markets, fostering competition and innovation.

Pathways to Sustainable Transformation

Sustainable development in the power sector requires a holistic approach encompassing reliable supply, affordability, environmental stewardship, and inclusivity.

1. **Policy and Regulatory Reforms:** Full implementation of the Electricity Act 2023, including amendments for enhanced consumer protection and penalties for vandalism, is critical. States are establishing regulatory frameworks, with examples like Lagos and others advancing independent power projects.
2. **Infrastructure Investment and**

to reduce reliance on diesel generators and support rural electrification. Funds like the DRE Nigeria Fund and incentives under the Act promote this shift.

4. **Financial Sustainability:** Addressing subsidies, tariffs, and recapitalization of Discos ahead of license renewals. Public-private partnerships (PPPs) and international financing are vital.
5. **Energy Transition and Climate Resilience:** Aligning with the National Energy Transition Plan through gas as a bridge fuel, followed by aggressive renewables rollout.

Achieving these requires coordinated action across stakeholders.

Critical Roles of Stakeholders

Government (Federal, State, and Local): As enablers and policymakers, governments must provide clear, consistent frame-

nity-level projects and enforcement against vandalism.

Regulatory Bodies (e.g., NERC and State Regulators): Ensure fair tariffs, license compliance, market rules, and consumer protection. Strengthening oversight, dispute resolution, and performance monitoring is essential for building trust.

Generation, Transmission, and Distribution Companies (Gencos, TCN, Discos) These core operators must improve efficiency, reduce losses, invest in maintenance, and embrace technology. Discos need recapitalization and better customer engagement to close the metering gap and improve revenue collection.

Private Sector and Investors: Private capital is indispensable for scaling capacity. Independent Power Producers (IPPs), local and international firms, should invest in renewables, embedded generation, and infrastructure under



Figure: Sustainable Solutions to Prevent Grid Collapse

Modernisation: Upgrading transmission networks, expanding distribution, and deploying smart grids. Initiatives focusing on “performance before expansion” prioritise fixing existing assets.

3. **Renewable Energy Integration:** Scaling solar, mini-grids, and embedded generation

works. The Federal Government leads on national grid stability, bulk trading, and major policy (via NERC and the Ministry of Power). States, empowered by the 2023 Act, drive sub-national generation, distribution, and mini-grids—evident in successes like Aba’s independent power efforts. Local governments can support commu-

PPPs. Recapitalization and consolidation will strengthen Discos.

Consumers and Civil Society: End-users must shift toward efficient consumption, renewable adoption (e.g., solar home systems), and holding operators accountable. NGOs and advocacy groups amplify community voices,



promote awareness, and monitor environmental impacts.

International Partners, Donors, and Development Agencies: Provide technical assistance, funding (e.g., via SEforALL, World Bank), and knowledge transfer for clean energy projects and capacity building. **Academia, Research Institutions, and Professional Bodies (including The Nigerian Society):** Drive innovation, skills development, research on local solutions (e.g., tailored renewables), and policy advisory. Professional societies play a key role in advocacy, standards setting, and fostering public-private dialogue.

Media and Other Stakeholders: Shape public perception, disseminate accurate information, and facilitate stakeholder collaboration.

Effective transformation demands multi-stakeholder collaboration, overcoming coordination gaps that have historically hindered progress.

Recommendations and the Way Forward

- Prioritise implementation of existing reforms with measurable milestones and accountability.
- Accelerate renewable deployment and mini-grid expansion for underserved areas.
- Invest in human capital: training engineers, technicians, and managers for a modern sector.
- Enhance security for critical infrastructure.
- Foster data-driven decision-making through improved sector transparency and digitalization.
- Promote inclusive policies ensuring affordability for low-income households via targeted subsidies or the Power Consumer Assistance Fund.

The Nigerian Society and similar bodies should champion knowledge sharing, ethical practices, and stakeholder forums to sustain momentum.

Conclusion

Transforming Nigeria's power sector is not merely a technical or economic imperative but a foundational requirement for sustainable development, poverty reduction, industrialization, and improved quality of life. While challenges persist, the Electricity Act 2023 and ongoing reforms under the current administration provide a robust platform for progress.

Success hinges on the collective commitment and complementary roles of all stakeholders—government providing leadership, regulators ensuring fairness, private sector driving investment and innovation, and citizens demanding and contributing to change. By harnessing Nigeria's vast energy potential responsibly, the nation can achieve a reliable, sustainable, and equitable power sector that lights the path to prosperity for generations to come.

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Bridging the Grid Gap: Optimizing Nigeria's 330kv Network Through Sustainable Engineering Economics



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The Transmission Bottleneck: A Call to Action for Nigerian Engineers

For decades, discourse surrounding the Nigerian Electricity Supply Industry (NESI) has revolved around a frustrating paradox: Nigeria possesses an installed generation capacity that consistently exceeds its real-time operational delivery, yet homes and industries continue to experience inadequate power supply. As electrical engineers, we understand that the primary structural constraint lies within the national transmission grid.

The Nigerian 330kV transmission network remains heavily dependent on long radial transmission lines. This topology is inherently susceptible to transient instability, voltage collapse, and excessive technical losses. Historically, grid expansion and reinforcement strategies have largely been reactive, driven by emergency interventions and excessive emphasis on initial capital expenditure (CapEx).

However, building a resilient grid for a developing economy requires more than merely erecting new transmission towers or installing transformers during crises. It demands a transition toward a rigorous asset management framework. By integrating advanced power system analysis with Sustainable Engineering Economics, every naira invested in infrastructure can deliver maximum technical reliability and long-term economic value.

Precision Modeling: The Technical Foundation

Effective optimization begins with accurate system modeling. The first step in addressing transmission

vulnerabilities is identifying thermal bottlenecks and weak buses through detailed steady-state analysis. While simplified estimations may suffice for preliminary studies, true grid optimization requires solving the nonlinear AC load flow equations using the iterative Newton-Raphson method.

For any bus i within an N -bus system, the active and reactive power injections are given as:

Active Power Equation

$$P_i = |V_i| \sum_{j=1}^N |V_j| (G_{ij} \cos \theta_{ij} + B_{ij} \sin \theta_{ij})$$

Reactive Power Equation

$$Q_i = |V_i| \sum_{j=1}^N |V_j| (G_{ij} \sin \theta_{ij} + B_{ij} \cos \theta_{ij})$$

Using the Jacobian matrix formulation, the system state variables are iteratively updated to determine voltage magnitudes and phase angles across the network. Consequently, the real power loss across transmission corridors can be evaluated as:

Transmission Line Loss Equation

$$P_{loss} = \sum_{k=1}^{N_L} G_k \left[|V_i|^2 + |V_j|^2 - 2|V_i||V_j| \cos(\delta_i - \delta_j) \right]$$

For heavily loaded and long-distance transmission corridors such as the Jos-Gombe 330kV line, these losses represent significant megawatts dissipated as heat—energy that could otherwise support industrial growth and socioeconomic development.

Beyond Linear Thinking: Smart Optimization Through Particle Swarm Optimization (PSO)

Expansion planning for a national transmission network constitutes a highly nonlinear optimization problem. Traditional gradient-based optimization techniques frequently converge to local minima, thereby missing globally optimal solutions. Consequently, modern metaheuristic techniques such as Particle



Swarm Optimization (PSO) offer considerable advantages for utility-scale planning.

In PSO, each particle represents a potential engineering solution, such as conductor upgrading, substation expansion, or optimal placement of Flexible AC Transmission System (FACTS) devices. The particles iteratively update their velocities and positions according to both individual and collective swarm experience.

Velocity Update Equation

$$v_{p,q}(t+1) = \omega v_{p,q}(t) + c_1 r_1 [p_{p,q}(t) - x_{p,q}(t)] + c_2 r_2 [G_q(t) - x_{p,q}(t)]$$

Position Update Equation

$$x_{p,q}(t+1) = x_{p,q}(t) + v_{p,q}(t+1)$$

Embedding Newton–Raphson load flow calculations within the PSO framework enables automatic solution of multi-objective optimization problems. The algorithm minimizes system losses while satisfying operational constraints, including:

Thermal Limit Constraint

$$S_k \leq S_{k,max}$$

Voltage Magnitude Constraint

$$0.95 \leq |V_i| \leq 1.05 \text{ p.u.}$$

Sustainable Engineering Economics: Changing the Paradigm

A technically optimal solution that is financially unsustainable provides little practical value. Conversely, a solution appearing inexpensive at procurement stage may ultimately impose enormous maintenance and operational costs over its lifetime.

Nigeria's power sector must therefore transition from the "lowest initial cost" philosophy toward comprehensive Life Cycle Cost Analysis (LCCA) over a minimum operational horizon of thirty years.

The present value of life-cycle cost can be expressed as:

Life-Cycle Cost Equation

$$PV_{LCC} = CapEx + \sum_{t=1}^T \frac{OpEx_t}{(1+r)^t} + \sum_{t=1}^T \frac{Cost_{Losses,t}}{(1+r)^t} + \frac{Cost_{Decom}}{(1+r)^T}$$

In Nigeria's current economic environment, the cost associated with technical losses is amplified by inflationary pressures, foreign exchange instability, and persistent energy deficits. Furthermore, as the nation advances toward energy transition objectives, environmental externalities must also be integrated into engineering economic analysis through carbon pricing and sustainability metrics.

Reconciling the Matrix: Multi-Criteria Decision Analysis (MCDA)

Technical and financial evaluations alone are insufficient for strategic infrastructure planning. Power infrastructure exists within broader societal and insti-

tutional contexts. Consequently, deployment decisions should incorporate Multi-Criteria Decision Analysis (MCDA) frameworks such as the Analytical Hierarchy Process (AHP).

Each major transmission intervention should therefore be evaluated across the following dimensions:

- **Technical Reliability:**
Improvement in N-1 contingency performance, voltage stability, and transmission resilience.
- **Economic Feasibility:**
Long-term Net Present Value (NPV), operational efficiency, and deferred capital expenditure.
- **Socio-Environmental Impact:**
Reduction in Expected Energy Not Served (EENS), minimization of right-of-way impacts, and environmental sustainability.
- **Institutional Compatibility:**
Compliance with the Nigerian Grid Code and alignment with NERC's Multi-Year Tariff Order (MYTO) framework.

A Roadmap for the Nigerian Engineering Community

To translate these concepts from academic theory into practical implementation within the Transmission Company of Nigeria (TCN), the engineering community must champion three strategic initiatives:

1. **Adoption of Digital Twins**
Development of high-resolution digital models using platforms such as PyPSA-Earth, validated with operational data from the National Control Centre at Oshogbo.
2. **Execution of Targeted Case Studies**
Immediate optimization studies on high-stress corridors such as the Jos–Gombe 330kV transmission line to demonstrate cost-effective asset management strategies.
3. **Regulatory Engagement**
Collaboration among NSE, COREN, and NERC to ensure future tariff structures reward efficiency improvements and loss minimization rather than purely physical asset expansion.

Conclusion

The optimization of Nigeria's transmission network is fundamentally an engineering challenge, but its sustainability depends equally on sound economics. By embedding rigorous electrical engineering analysis within a sustainable economic framework, engineers move beyond technical execution to become strategic nation-builders.

Nigeria must gradually abandon short-term reactive interventions in favour of integrated, data-driven, and economically sustainable grid planning. Through advanced optimization techniques, robust engineering economics, and institutional collaboration, the nation can build a stable, resilient, and self-sustaining transmission network capable of supporting long-term national development.

Nigeria's Electricity Challenge Requires Coordinated Action by Govt, Regulator, Investors, Others to Resolve

– NSE President

The President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR, in this exclusive interview with Members of the Editorial Board, Engr. Olusegun Toluhi, FNSE, Ph.D., and Engr. Bello Gwarzo Abdullahi, FNSE, speaks extensively on the persistent challenges confronting Nigeria's electricity sector and the urgent measures required to address them.



Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR.

The NSE has consistently advocated a holistic approach to resolving Nigeria's power challenges through innovation, collaboration, and visionary leadership. As President of the Society, how is the NSE translating this vision into action by bringing together government, industry, development partners, and local communities? What specific initiatives or frame-

works is the Society championing to address the political and regulatory constraints that continue to slow progress in the power sector?

The Nigerian Society of Engineers (NSE) maintains that Nigeria's power challenge extends beyond technical deficiencies. It is a complex socio-economic, institutional, and governance

issue that demands coordinated action by government, regulators, investors, development partners, academia, professional bodies, and local communities. This conviction underpins our consistent advocacy for a holistic and integrated approach to power sector reform.

Beyond advocacy, the NSE is positioning itself as a neutral platform for collaboration, bringing



together key stakeholders to foster constructive dialogue, build consensus, and develop practical, evidence-based solutions. We firmly believe that engineering expertise must be central to policy formulation, infrastructure planning, and implementation if sustainable outcomes are to be achieved.

To this end, the Society is ready to inaugurate structured engagement platforms, including Power Sector Roundtables, Policy Dialogues, and Stakeholder Consultations, involving the Federal and State Governments, regulatory agencies, generation, transmission and distribution companies, investors, development partners, and engineering professionals. These forums will identify systemic bottlenecks, promote evidence-based policy recommendations, and strengthen alignment between policy objectives and implementation realities.

Drawing on its extensive network of experienced engineers and subject-matter experts, the NSE is well-positioned to provide independent professional advice on power sector reforms, grid modernisation, renewable energy integration, rural electrification, local content development, and other strategic initiatives that will strengthen the sector.

The recent Executive Order granting greater participation to sub-national governments in electricity generation, transmission, and distribution represents a significant milestone. It creates new opportunities for collaboration among state governments, private investors, and local engineering professionals to accelerate the deployment of decentralized energy solutions, including renewable energy and mini-grids, particularly in underserved communities. This policy has helped remove longstanding political and regulatory barriers that previously constrained sector growth.

Building on this momentum, the NSE is advocating the estab-



lishment of a National Power Sector Collaboration Framework that will institutionalize continuous engagement among all stakeholders, reduce policy uncertainty, facilitate timely resolution of regulatory and investment challenges, and ensure that technical considerations remain at the heart of decision-making.

Ultimately, achieving a reliable, affordable, and sustainable electricity supply will require visionary leadership, consistent policies, investor confidence, and robust technical governance. The NSE remains committed to serving as a trusted professional partner and knowledge institution, bridging the gap between policy and implementation while supporting the transformation of Nigeria's power sector for the benefit of all Nigerians.

Despite Nigeria's wealth of engineering talent, many believe local engineers remain underutilized in the power sector, with foreign expertise often taking the lead on critical projects. What strategic measures is the NSE pursuing to position Nigerian engineers at the forefront of project delivery, innovation, and capacity development? How is the Society working with government to strengthen local content and ensure qualified Nigerian engineers play leading

roles in the management and execution of power sector initiatives?

This concern is both valid and timely. Nigeria is endowed with highly skilled engineers whose expertise has contributed to major infrastructure projects both within and outside the country. However, their full potential has not always been adequately harnessed in the planning, execution, and management of critical power sector projects. To achieve sustainable development, Nigeria must transition from relying predominantly on imported solutions to developing indigenous technologies, expertise, and innovations.

The NSE is committed to ensuring that Nigerian engineers play leading roles in the transformation of the power sector. Our strategy is anchored on several key priorities.

First, we will continue to advocate for policies that prioritise qualified Nigerian engineers and indigenous engineering firms in the design, execution, operation, and maintenance of power infrastructure projects. This aligns with the Federal Government's local content aspirations and the broader objective of building national technical capacity.

Second, we are strengthening



the competence of our members through continuous professional development, technical certifications, mentorship programmes, research collaborations, and strategic partnerships with industry, academia, and international institutions. A globally competitive engineering workforce is essential for delivering world-class infrastructure.

Third, we are calling for stronger implementation of local content policies and mandatory knowledge-transfer frameworks in projects involving foreign contractors. International collaboration should not only deliver infrastructure but also build lasting technical capacity within Nigeria.

In addition, the NSE is engaging government on the need to strengthen technical governance across the power sector. Institutions responsible for electricity generation, transmission, distribution, and regulation should be led and supported by competent professionals with the requisite technical expertise, industry experience, and commitment to national development.

We also advocate increased investment in engineering research, innovation hubs, and stronger collaboration between industry and academia to accelerate the development of home-grown technologies and practical solutions to Nigeria's energy challenges.

The NSE remains ready to provide objective professional guidance on governance structures, leadership appointments, and institutional reforms that will enhance efficiency, accountability, and sustainable growth within the sector.

Our vision is clear: a power sector where Nigerian engineers are leading projects, driving innovation, building local capacity, and shaping the future of the industry. By strengthening institutions, investing in people, and promoting indigenous expertise, Nigeria can build a resilient, self-sustaining

power sector that delivers reliable electricity, creates high-value jobs, retains technical knowledge, and advances the nation's technological and economic development.

Nigeria's electricity generation has become increasingly dependent on gas-fired thermal power, despite the country's vast renewable energy potential, including solar, wind, and hydropower. What role is the Nigerian Society of Engineers (NSE) playing in promoting a more diversified energy mix, and what specific policy measures is the Society advocating to accelerate the development and adoption of renewable energy solutions across the country?

This question falls within the specialized field of Electrical Engineering. As a Civil Engineer with over four decades of professional practice, my response is based on a broad understanding of the energy sector and the valuable insights of our electrical engineering professionals within the Nigerian Society of Engineers (NSE).

Nigeria's continued reliance on gas-fired thermal generation has helped meet a significant portion of our electricity demand. However, no nation can achieve long-term energy security by depending predominantly on a single energy source. A diversified energy mix is essential to improve reliability, affordability, resilience, and environmental sustainability.

The NSE firmly believes that Nigeria is richly endowed with renewable energy resources including solar, hydropower, wind, biomass, and other emerging clean energy technologies, which should be strategically harnessed to complement conventional power generation and expand access to electricity, particularly in underserved communities.

Through our technical divisions, conferences, research, policy dialogues, and stakeholder engagements, the NSE actively promotes

evidence-based approaches to renewable energy development and the country's energy transition. We also continue to provide professional input into policy formulation and advocate engineering-driven solutions that support sustainable energy development.

Specifically, we are advocating policies that encourage greater investment in renewable energy through tax incentives, import duty waivers for critical renewable energy equipment, concessionary financing, and targeted support for local manufacturing of renewable energy components. Such measures will lower project costs, strengthen local capacity, create jobs, and enhance the competitiveness of clean energy technologies.

From my desk, the NSE envisions an energy future where every Nigerian has access to reliable, affordable, and sustainable electricity generated from a balanced mix of energy sources. Our engineers stand ready to provide the technical expertise, professional leadership, and policy support required to accelerate Nigeria's transition to a cleaner, more resilient, and energy-secure future.

What is the Nigerian Society of Engineers (NSE) doing to encourage and prepare its members for leadership roles in power sector governance, regulatory agencies, and public policymaking, so that engineering expertise is effectively represented in the decisions that shape the future of Nigeria's power sector?

This is a very important question because many of the challenges facing Nigeria's power sector are as much about governance and policy as they are about technology. The NSE has consistently advocated for greater involvement of engineers in public service, governance, and policy formulation. Engineers bring a unique combination of technical expertise, systems thinking, innovation, and evidence-based decision-making that is invaluable in addressing complex national devel-



opment challenges.

Through our conferences, leadership development programmes, executive workshops, policy dialogues, and continuous professional development initiatives, we are equipping engineers with the knowledge and leadership skills required to contribute effectively to public policy and institutional governance.

Under the current “Resetting Agenda”, the NSE has strengthened its role as a credible voice in national discourse by producing policy papers, technical memoranda, position statements, and advisory reports on critical issues affecting the engineering profession and national development.

We are also encouraging our members to participate in politics and seek leadership positions in public service, regulatory agencies, government committees, boards, and legislative advisory bodies, including continuing advocacy for the appointment of competent engineering professionals to strategic positions where technical expertise is essential.

Our vision is to ensure that engineering knowledge is fully integrated into national decision-making processes. By preparing engineers for leadership and creating pathways for greater participation in governance and regulation, the Resetting Agenda is helping to position the profession to make an even greater contribution to the sustainable development of Nigeria’s power sector and the nation as a whole.

The Nigerian Society of Engineers (NSE) has consistently advocated for greater state participation in rural electrification and decentralized energy development. What role can the NSE play in providing the technical expertise, policy guidance, and capacity building needed to support state governments and local communities in successfully planning, implementing, and sustaining rural electrifica-

tion programmes?

The Presidential Executive Order that empowered states to play a more active role in electricity generation, transmission, distribution, and regulation within their jurisdictions, is well applauded. The NSE strongly supports this order because sustainable rural electrification is most effective when solutions are tailored to local needs, resources, and economic

practices to ensure that rural electrification projects are safe, reliable, cost-effective, and sustainable.

As a matter of fact, NSE is already facilitating knowledge-sharing and collaboration among states by documenting successful models, disseminating best practices, and creating platforms where lessons learned can be exchanged. We have through



realities. However, for state-led and community-driven electrification programmes to succeed, they must be underpinned by sound engineering, effective planning, strong institutions, and competent human capacity, which is where the NSE can make a significant contribution.

The NSE can serve as a trusted technical adviser to state governments by providing independent professional guidance on energy planning, project design, technology selection, implementation strategies, and infrastructure development. We can support capacity building by organizing specialized training programmes for state officials, regulators, utility operators, project managers, and local technical personnel. We can also assist in developing technical standards, quality assurance frameworks, and engineering best

divisional experts provided objective technical assessments for communities and policymakers to select the most suitable options. On the whole, the NSE sees itself as a strategic partner in Nigeria’s energy transformation.

Many Nigerian engineers are excelling in leading organizations around the world, while international firms continue to play significant roles in major infrastructure projects in Nigeria. What is the NSE doing to help reverse the engineering brain drain, while also promoting effective knowledge transfer and ensuring Nigerian engineers are fully integrated into these projects to understand and acquire advanced technical expertise?

The NSE has no objection to the engagement of foreign engi-



neering professionals where their expertise is genuinely required. The COREN Act already provides a clear framework for this, permitting foreign practitioners to work in Nigeria only in specialised areas where the requisite local expertise is unavailable. The key requirement is the effective enforcement of these provisions by COREN.

At the same time, as COREN moves closer to becoming a signatory to the competency agreements of the International Engineering Alliance, Nigerian engineers will benefit from greater global mobility and international recognition. In this context, the NSE supports the continued participation of reputable international firms in major infrastructure projects, provided such engagements are structured to facilitate meaningful knowledge transfer, technology exchange, and capacity building. Nigerian engineers must be fully integrated into these projects to work alongside international experts, acquire advanced technical skills, and progressively develop the capacity to lead similar projects in the future.

For Nigerian Engineers to compete globally and take on leading roles, the NSE is prioritizing the enhancement of their skills and competencies. Can you detail the specific professional development programs and international training partnerships the NSE is finalizing to ensure Nigerian Engineers are at the forefront of technological advancements, including AI, which you see as a key opportunity for the sector?

This is a critical question because the future of engineering will be defined by innovation, digital transformation, and the ability of professionals to adapt to rapidly evolving technologies. The NSE is therefore adopting a deliberate and forward-looking approach to professional development, anchored on continuous learning, global exposure, and strategic partnerships.

Under the “Resetting Agenda”, we are strengthening our Continuing Professional Development (CPD) framework across all branches and professional divisions of the Society. This includes expanding accredited technical training programmes, specialized workshops, and professional certification courses in emerging fields such as artificial intelligence (AI), digital engineering, smart grids, predictive maintenance, renewable energy systems, Building Information Modelling (BIM), and data-driven infrastructure management.

We are planning to also deepen partnerships with leading international engineering institutions, universities, professional bodies, and technology companies to facilitate knowledge exchange, joint training programmes, research collaboration, and industry-focused capacity building. These partnerships will expose Nigerian engineers to global best practices and emerging technologies while enhancing their international competitiveness.

In addition, we are reinforcing mentorship by connecting young engineers with accomplished practitioners both within Nigeria and across the diaspora, while fostering stronger collaboration between academia and industry to bridge the gap between engineering education and professional practice.

Our goal is clear: to equip Nigerian engineers with the knowledge, skills, and global outlook required to design, deliver, and manage complex engineering systems anywhere in the world.

The future of Nigeria’s power sector depends on the next generation of engineers. How is the NSE inspiring and preparing young people to pursue careers in power engineering, particularly through the promotion of Vocational Science, Technology, Engineering and Mathematics (VSTEM) education? What measurable outcomes do you expect these initiatives to achieve

in building a strong pipeline of skilled engineers for the nation’s energy future?

As an Engineer, I recognize that the long-term sustainability and competitiveness of Nigeria’s power sector depend on the quality, innovation, and preparedness of the next generation of engineers. That is why, the NSE is investing in early engagement, structured mentorship, skills development, and practical exposure to engineering.

A key component of this strategy is our strong commitment to promoting Vocational Science, Technology, Engineering, and Mathematics (VSTEM) education. We are working to reposition engineering from being seen as a purely theoretical discipline to one that is practical, innovative, and solution-driven, inspiring young people to develop an interest in engineering from an early stage.

We are also strengthening the link between education and industry by promoting engineering clubs, innovation competitions, technical excursions, internship opportunities, mentorship programmes, and industry attachments that expose students to real-world engineering practice.

Beyond technical skills, we are fostering a culture of innovation, leadership, and professionalism by connecting young engineers with experienced practitioners across Nigeria and the diaspora. Our goal is to build a pipeline of highly skilled, globally competitive, and ethically grounded engineers who are equipped to lead the transformation of Nigeria’s power sector and address the nation’s broader infrastructure and development challenges.



Nigeria's rebirth belongs to Engineering...

"The whole of our infrastructure, from sewers to power supplies and communications, anything that wasn't invented by God is invented by an Engineer."

"The human population of the world is growing and is occupying more space... But somehow or other, that balance, to try and fit as many people unto this globe as comfortably as possible without doing too much damage, I think ultimately, it's going to be Engineers that decide that."

"After the war..., it seemed to me that the thing that really needed encouragement was manufacturing, which was always dependent on engineering, to try and recover from the war. We were completely skint, seriously badly damaged. It seemed to me the only way we were going to recover a sort of viability was through engineering".

*-Prince Philip
The Duke of Edinburgh*

One couldn't agree more with the Duke. Indeed, in Nigeria today, the career of oil is completely skint, seriously badly damaged. The only way our country will recover some sort of viability is through ENGINEERING.

Think Development and Prosperity. Think the Nigerian Engineer.





Our contribution to the growth of local content in Nigeria's oil and gas industry is top notch

— Chief (Dr) Omoyibo

Chairman/CEO of DANMOTECH Nig. Ltd and Dantinajo Gold Resort Limited, Chief (Dr) Daniel Elozino Omoyibo, is an Oleh, Delta State-based philanthropist, distinguished entrepreneur, industry leader and respected traditional title holder of the most precious son of the Isoko nation, who has been honoured by 22 of the 25 crown traditional rulers of the Isoko Kingdom in Delta State. His journey in the oil and gas sector began with humble beginnings, having worked with several multinational oil companies as a contract staff member before taking the decision to establish his own enterprise. Driven by a vision to contribute meaningfully to Nigeria's oil and gas industry, he successfully registered DANMOTECH in 1997 with a focus on providing specialised services to National Oil Companies (NOCs) and other key industry stakeholders. With nearly three decades of active participation in the industry, he has witnessed the sector's evolution firsthand and has strategically positioned DANMOTECH to remain competitive and relevant. In this exclusive interview with our Assistant Director of Media, Henry Terseer Iortim, Chief Omoyibo discusses the company's growth trajectory, its contributions to the industry, capacity-building initiatives and the strategic plans that will continue to drive DANMOTECH's success in the years ahead.



Chief (Dr) Daniel Elozino Omoyibo

Can you share with us how DANMOTECH is faring in the competitive oil and gas industry and what recent milestones the company has achieved?

Thank you for this question. Let me first inform you that I have been in the oil and gas industry since 1988. I was 19

years old when I set out serving the contractors that were rendering services to Shell, Agip, Chevron and NPDC. However, in 1997, I registered DANMOTECH and commenced full-scale operations. I am one of the local contractors working on OML 30, OML 111 and OML 28. Those formative years provided me with the knowledge,

exposure and confidence required to make the transition from an employee to an entrepreneur within the sector.

Following the successful registration of DANMOTECH and the commencement of operations, we remained focused not only on delivering quality services to our clients



but also on making meaningful contributions to society. From the outset, I recognised the importance of giving back to the community, particularly through educational support and youth development initiatives.

As part of our corporate social responsibility commitment, DANMOTEC has provided scholarship opportunities to indigent Engineering students, helping many young people pursue their academic aspirations despite financial challenges. Beyond scholarships, the company has undertaken several other community-focused interventions aimed at improving the well-being of people in our host communities and contributing to sustainable development.

These initiatives reflect our belief that business success should go hand in hand with social responsibility. While we continue to grow our footprint in the oil and gas industry, we remain committed to creating positive impacts in the lives of individuals and communities through various developmental and empowerment programmes.

Operating in Nigeria's highly competitive oil and gas industry requires resilience, adaptability and a commitment to excellence, values that have defined DANMOTEC since its inception. Over the years, DANMOTEC has continued to hold its ground as a reputable indigenous oilfield services and engineering company.

Our strength lies in our ability to deliver across multiple service areas, including fabrication, procurement, technical manpower support and general contracting. This versatility has enabled us to remain relevant and responsive to the evolving needs of our clients, even in a dynamic and often volatile operating environment.

In terms of performance, we have recorded steady growth, particularly within the Niger Delta region, where we have built strong relationships with key industry

players. Our emphasis on quality service delivery, strict adherence to safety standards and timely project execution has earned us repeat

and gas industry. We remain committed to deepening our footprint, embracing innovation and delivering value at every stage of



Chief (Dr) Daniel Elozino Omoyibo

business and reinforced client confidence in our capabilities.

With respect to recent milestones, one of our most significant achievements is the sustained expansion of our operational capacity and service offerings. We have continued to invest in human capital development, ensuring that our Engineers and technical personnel are well-trained, competent and aligned with global best practices. This focus on capacity building not only strengthens our internal operations but also contributes to the development of indigenous expertise in the sector.

Additionally, our track record of consistent project delivery over nearly three decades stands as evidence to our stability and reliability as a company. In an industry where many firms struggle with continuity, DANMOTEC has remained steadfast, evolving with industry trends while maintaining the core values that define our brand.

In summary, while we may not always seek the spotlight, our impact is evident in the quality of our work, the trust of our clients, and our contribution to the growth of local content in Nigeria's oil

our operations.

In terms of capacity development, how has DANMOTEC empowered its Engineers to ensure they stay ahead in the evolving oil and gas sector?

DANMOTEC has about 40 Engineers and recognised that the oil and gas industry is highly dynamic, requiring Engineers to continually upgrade their knowledge and skills. To stay ahead of industry changes, the company has invested in capacity development through Continuous Professional Development (CPD), our Engineers are regularly exposed to technical courses, workshops and certification programmes covering emerging technologies, asset integrity, process optimisation, HSE standards and project management.

The hands-on project exposure is yet another means we have explored over time by involving our Engineers in diverse upstream, midstream and downstream projects, DANMOTEC provides practical experience that strengthens technical competence and problem-solving abilities.

The industry collaborations and learning opportunities are yet



another window we have explored. Participation in professional conferences, technical forums and industry associations helps our Engineers remain informed about global trends, regulatory developments and evolving operational standards.



Chief (Dr) Daniel Elozino Omoyibo

Through these initiatives, DANMOTECH has built a workforce that is technically competent, innovative and well-positioned to meet the challenges and opportunities of the evolving oil and gas industry.

Could you elaborate on specific training, mentorship, or empowerment programs that DANMOTECH has implemented to enhance the skills and competencies of its engineering staff?

Certainly. DANMOTECH has implemented a range of training, mentorship and empowerment initiatives designed to strengthen the technical expertise, leadership capabilities and overall professional development of its engineering workforce. The company regularly organises internal and external training sessions focused on key engineering disciplines relevant to the oil and gas industry. These programs cover areas such as process engineering, mechanical integrity, instrumentation and control, pipeline systems, project execution, asset management and

Health, Safety, Security and Environment (HSSE) standards and at the moment there are plans to send another batch of Engineers for training in Texas, USA.

DANMOTECH encourages Engineers to pursue globally recog-

nised professional certifications and memberships. The company supports participation in certification programs, technical workshops and continuing professional development courses that enhance industry competence and compliance with international best practices.

Again, our Engineers are exposed to real-life projects that provide practical experience beyond classroom learning. By working on complex engineering assignments, commissioning activities, maintenance programs and field operations, staff gain hands-on expertise and a deeper understanding of industry challenges and solutions.

Looking ahead, what are DANMOTECH's strategic plans for growth and further capacity building within your engineering team to remain a formidable player in the oil and gas industry?

DANMOTECH's growth strategy is centred on strengthening its technical capabilities, expanding its service offerings and developing a highly skilled work-

force that can meet the evolving demands of the oil and gas industry.

DANMOTECH plans to intensify investment in advanced technical training and professional development programs to ensure its Engineers remain proficient in emerging technologies, industry standards and best practices. This will enhance the company's ability to deliver innovative and high-quality engineering solutions.

A key aspect of the company's capacity-building strategy is the deliberate development of future leaders through structured mentorship, succession planning and leadership training initiatives. This will ensure continuity, organisational resilience and sustainable growth.

As the industry increasingly adopts digital technologies, DANMOTECH aims to strengthen its capabilities in automation, data analytics, digital asset management and other technology-driven solutions. Equipping our Engineers with these skills will improve operational efficiency and competitiveness. Recognising that people are its greatest asset, DANMOTECH remains committed to attracting, developing and retaining top engineering talent through competitive career development opportunities, continuous learning initiatives and a supportive work environment.

Ultimately, DANMOTECH's long-term vision is to build a future-ready engineering workforce capable of delivering world-class solutions while maintaining the highest standards of safety, quality, environmental stewardship and operational excellence. Through these strategic initiatives, DANMOTECH aims to strengthen its position as a leading engineering and technical services provider, ensuring it remains a formidable and competitive player in the oil and gas industry for years to come.

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Our Transformation Agenda is Boosting Power Infrastructure and Investing in Digital Technology

— **Engr. Okwuokenye**

The Managing Director/CEO, Abuja Electricity Distribution Company (AEDC), in this interview with Engr. Prof. Lasisi Salami, FNSE and Engr. Idoreyen Udosen spoke about AEDC's strategic agenda for the Power sector among others. Below are the excerpts.



Managing Director/CEO, Abuja Electricity Distribution Company (AEDC) Engr. Chijioke Z. Okwuokenye, FNSE,

Could you share with us your Engineering background and experience in Nigeria's power sector, and your overall strategic plans and goals for AEDC?

I am an electrical power engineer with over two decades of experience across the Nigerian Electricity Supply Industry, spanning network planning, distribu-

tion operations, renewable energy, utility transformation, and executive leadership. Throughout my career, I have had the privilege of working across both the public and private sectors, leading initiatives focused on improving operational efficiency, expanding energy access, integrating renewable energy, and strengthening utility

performance.

At AEDC, our vision is to build a digitally enabled, customer-centric, operationally excellent, and financially sustainable electricity distribution company. Our strategic priorities are to improve service reliability, accelerate universal customer metering,



modernise our network, deploy smart technologies, strengthen infrastructure, enhance customer experience, reduce ATC&C losses, and deepen stakeholder collaboration.

Ultimately, our objective is to transform AEDC into a benchmark distribution utility capable of supporting Nigeria's economic growth, industrialisation, and energy transition while delivering sustainable value to our customers, employees, shareholders, and the communities we serve.

AEDC has recently transitioned into a Holding Company (HOLDCO) with subsidiaries in Niger, Nasarawa and Kogi States. How does this new structure better position AEDC to serve these state-specific markets?

The transition to a Holding Company structure is a strategic response to the Electricity Act 2023, which ushered in a new era of decentralized electricity markets and state-level regulation in Nigeria.

AEDC has consequently established Niger Electricity Distribution Limited (NEDL), Nasarawa Electricity Distribution Limited (NAEDL), and Kogi Electricity Distribution Limited (KEDL) under the Holding Company structure.

This enables each subsidiary to respond more effectively to state-specific regulatory requirements, customer needs, investment priorities, and market opportunities while benefiting from shared governance, technical expertise, economies of scale, and common service standards provided by the Holding Company.

The new structure positions us to support the development of competitive state electricity markets, improve operational agility, attract investment, encourage innovation, and work more closely with state governments in delivering reliable and sustainable electricity services.

What is AEDC's strategy for achieving full metering and how does this improve market liquidity?



Managing Director/CEO, Abuja Electricity Distribution Company (AEDC) Engr. Chijioke Z. Okwuokenye, FNSE,

Metering is fundamental to building customer trust, improving transparency, strengthening revenue assurance, and ensuring the long-term sustainability of Nigeria's electricity market.

Our strategy combines accelerated deployment under existing regulatory frameworks with innovative financing models, strategic partnerships, and technology-driven metering solutions. Beyond installing meters, AEDC is investing in Advanced Metering Infrastructure (AMI) and Meter Data Management Systems (MDMS) to improve energy accounting, detect losses, enhance operational visibility, and provide customers with real-time insights

into their electricity consumption.

Greater metering penetration improves billing accuracy, strengthens collections, reduces

commercial losses, and enhances liquidity across the electricity value chain—from distribution companies to the Market Operator, NBET, generation companies, gas suppliers, and transmission service providers.

Ultimately, every customer that is accurately metered contributes to a healthier and more sustainable electricity market.

Can you share more details on AEDC's infrastructure investment plans?

Infrastructure development remains central to AEDC's transformation agenda.

We are investing in feeder



rehabilitation, transformer upgrades, substation expansion, network reinforcement, and the replacement of ageing infrastructure to improve service reliability and reduce technical losses.

Equally important is our investment in digital technologies. We are implementing a comprehensive digital transformation programme covering SCADA, Advanced Distribution Management Systems (ADMS), Outage Management Systems (OMS), Geographic Information Systems (GIS), Advanced Metering Infrastructure (AMI), Meter Data Management Systems (MDMS), Customer Information Systems (CIS), and modern telecommunications infrastructure.

These investments will significantly improve network visibility, asset management, outage response, operational efficiency, and customer service.

While distribution companies can only distribute the energy available from upstream providers, our responsibility is to ensure that every megawatt received is delivered safely, efficiently, and reliably to our customers.

What practical steps is AEDC taking to address infrastructure vandalism?

Infrastructure vandalism remains one of the biggest threats to reliable electricity supply and sector sustainability.

AEDC works closely with security agencies, host communities, traditional institutions, government authorities, and other stakeholders to protect critical electricity infrastructure.

We have strengthened stakeholder engagement, intensified public awareness campaigns, encouraged communities to report suspicious activities, and enhanced surveillance around strategic installations.

In addition, we are exploring technology-enabled surveillance systems, remote monitoring solu-

tions, and digital asset management tools to improve infrastructure protection.

Protecting electricity infrastructure is a shared responsibility because every act of vandalism affects homes, businesses, hospitals, schools, and the broader economy.

How is AEDC preparing for the anticipated 350MW NNPC power plant in Gwagwalada?

The proposed 350MW NNPC power plant in Gwagwalada represents a transformational opportunity for Abuja and the surrounding states.

AEDC is already evaluating the network reinforcement and evacuation infrastructure required to optimally absorb the additional power into our distribution network once the plant becomes operational.

We are also exploring bilateral commercial arrangements under the Electricity Act 2023, which creates opportunities for direct commercial engagements between generators and distribution companies.

Beyond the Gwagwalada project, AEDC remains open to embedded generation projects, renewable energy integration, and other innovative partnerships that can improve supply reliability, support industrial development, and stimulate economic growth across our franchise.

What is AEDC doing beyond metering to address liquidity challenges?

The liquidity challenge in the Nigerian electricity sector requires a holistic approach.

Beyond metering, AEDC is strengthening customer enumeration, transformer-level energy accounting, feeder energy balancing, digital payment platforms, revenue protection, customer engagement, network optimisation, and analytics-driven loss reduction programmes.

We are also leveraging digital technologies and data-driven decision-making to improve accountability, operational efficiency, and revenue assurance.

Liquidity challenges cannot be solved by tariffs alone. Sustainable growth requires accurate energy accounting, efficient collections, operational excellence, customer confidence, prudent financial management, and continuous investment across the value chain.

How has the workforce restructuring improved operational efficiency?

The restructuring exercise formed part of a broader organisational transformation programme designed to position AEDC for long-term success.

Our objective was to build a leaner, more agile, and customer-focused organisation while ensuring fairness, transparency, and compliance with all applicable labour laws and regulations.

The outcome has been improved accountability, faster decision-making, clearer organisational roles, and stronger alignment with our strategic priorities.

At the same time, we continue to invest in employee development, leadership capacity, technical competence, and a performance-driven culture where innovation, accountability, continuous learning, and customer service excellence are recognised and rewarded.

How is AEDC retaining industrial and high-volume customers?

Industrial and commercial customers are critical to the sustainability and growth of the electricity market.

Our strategy focuses on improving service reliability, strengthening customer engagement, investing in dedicated infrastructure, and developing innovative supply solutions that meet the specific operational requirements



of these customers.

We are also exploring dedicated feeder arrangements, bilateral supply models, embedded generation opportunities, and strategic partnerships that will enable industrial customers to enjoy more reliable electricity while supporting economic growth and job creation.

Our objective is to become the preferred energy partner for businesses within our franchise area.

How is AEDC ensuring equitable access across its franchise area?

AEDC remains committed to providing quality electricity services to all communities within our franchise area.

While investment decisions must consider commercial sustainability, we recognise that electricity is a critical enabler of economic development, education, health-care, and improved quality of life.

Through network expansion projects, collaboration with state governments, development partners, investors, and local communities, we continue to improve electricity access across both urban and underserved areas.

We are also exploring distributed renewable energy solutions where conventional network expansion may not be immediately feasible.

Our goal is to ensure that no community is left behind in Nigeria's electricity transformation journey.

Looking ahead to 2027 and beyond, what is your most important strategic priority?

By 2027 and beyond, our ambition is for AEDC to be recognised as Nigeria's leading digital electricity distribution utility—one that delivers reliable power, exceptional customer service, operational excellence, and sustainable financial performance.

We intend to achieve this through smart investments in network infrastructure, full digital-

isation of our operations, universal metering, improved energy accountability, stronger stakeholder partnerships, and a relentless focus on execution.

Systems, enterprise analytics, and smart telecommunications infrastructure, which will significantly improve operational efficiency, customer experience, and decision-making.



Managing Director/CEO, Abuja Electricity Distribution Company (AEDC) Engr. Chijioke Z. Okwuokenye, FNSE,

Our success will ultimately be measured by improved customer satisfaction, lower ATC&C losses, stronger financial performance, enhanced network reliability, increased investor confidence, and the value we create for our customers, shareholders, employees, and the Nigerian economy.

What are your investment plans for improved service delivery and best practices?

AEDC remains committed to sustained investment in network infrastructure, digital technologies, metering, customer service systems, telecommunications, cybersecurity, workforce capability, and modern utility management practices.

Our digital transformation agenda includes investments in SCADA, ADMS, OMS, GIS, AMI, MDMS, Customer Information

We continuously benchmark our operations against international utility best practices to improve safety, transparency, reliability, and service excellence.

Our investment philosophy is centred on creating long-term value by building a modern, intelligent, and resilient electricity distribution network that supports Nigeria's industrialisation, economic aspirations, and energy transition.

We firmly believe that the future of electricity distribution is digital, customer-centric, data-driven, and built on strong collaboration among regulators, government, investors, technology partners, communities and customers. Together, we can build a more sustainable and prosperous electricity sector for Nigeria.



Political Interference, Lack of Consumer Confidence Erode NERC's Operational Efficiency

— Engr. T S G Wudil, FNSE, mni

Members of the Editorial Board, Engr. Prof. Lasisi Salami Lawal, FNSE, and Engr. Bello Gwarzo Abdullahi, FNSE, in a discussion with the Principal Consultant/Chairman of Gridlink Power and Energy Systems Nigeria Ltd., Engr. Tasiu Gidari-Wudil, FNSE, MNI, on pertinent issues concerning the transformation of Nigeria's power sector. Below are excerpts from the discussion.



Principal Consultant/Chairman of Gridlink Power and Energy Systems Nigeria Ltd and Past President of the NSE, Engr. Tasiu Gidari-Wudil, FNSE, MNI

As a retired Deputy General Manager at the Nigerian Electricity Regulatory Commission (NERC), Principal Consultant/Chairman, Gridlink Power and Energy Systems Nigeria Ltd and Past President of the NSE, you have a unique multi-perspective. What key regulatory weaknesses have you observed that hinder the sector's transformation, and how can your technical expertise help NERC and the power sector generally to strengthen its oversight and reforms to achieve the "cost-reflective tariffs and regulatory independence" you have previ-

ously advocated for?

Regulatory Weaknesses
The tariff-analysis document hands you a perfect real-world case study of regulatory capture and political fragility in action.

- At times, NERC is forced to reverse its decisions by political fiat. This is precisely the "strong resistance to cost-reflective tariffs".
- There is the NERC financing paradox. Service charges and VAT make up just 6.86% of tariffs, funding NERC's own

regulatory operations — meaning the regulator's institutional survival is tied to the very tariff decisions that are politically unpopular. That's a structural conflict of interest baked into the funding model itself.

- Institutional inadequacy, NERC needs both independence and stronger internal institutional capacity not just political will.

Despite reforms, Nigeria is still struggling to achieve reliable power. The African Develop-



ment Bank reports that power outages cost Nigerian businesses roughly 3% of their annual sales, with over 70% of firms forced to rely on expensive private generators to remain. Looking ahead, what are the top three recommendations you would want to present to the

government in the coming year to finally “reboot” the power sector for sustainable development, and what will be the engineering community’s role in their implementation?

Nigeria experienced 579 partial and total grid collapses over the

last 25 years. That number alone calls for “rebooting the sector”: It is not just about generation or tariffs, it’s about the transmission backbone literally failing on a near-monthly basis.

I propose these three solutions:

Priority	What It Involves	Engineering Community’s Role
1. Deploy PMU-based grid monitoring	Real-time visibility across all 330kV substations to catch instability before cascading collapse	NSE-trained technical teams for PMU maintenance, cybersecurity, and data analytics
2. Fix reactive power management & protection coordination	Reactive power imbalances caused 28% of grid failures from 2005–2015 (Ademola et al., 2016); protection relay malfunctions cause cascading trips	NSE engineers to audit and recalibrate protection schemes nationwide
3. Resolve the tariff-funding conflict	Decouple NERC’s operational funding from politically volatile tariff decisions	NSE to publish independent technical cost models for public tariff debates

The engineering community’s role is no longer abstract my October Lecture provides a concrete 5-phase, roughly 36-month implementation timeline (Foundation & Planning → Procurement → Installation → Testing → Full Operation) that NSE could formally adopt as its advocacy roadmap.

You have been critical of the implementation of the Electric Power Sector Reform Act (EPSRA) 2005, stating that progress has been slow and Nigeria should have been “far beyond 30,000MW” by now as emphasized in your lecture on “The Nigerian Power Deregulation: History, Successes and Failures,” what specific and actionable steps would you recommend to the government to close the implementation gaps, now that the Electricity Act 2023 offers a new framework?

Closing the Implementation Gap — PMU as the Missing Link

Even if generation capacity rose, the transmission system’s structural fragility would still cap delivered power. The network data tells the story:

1. 58 330/132kV substations and 186 132/33kV substations
2. 150 330kV circuits

- and 252 132kV circuits
3. Combined 330kV + 132kV



transformer capacity of ~34,500 MVA

That’s a substantial physical network, yet it collapses repeatedly due to radial network design (the loss of one line triggers widespread outages with no alternative routing) and institutional gaps in funding, regulatory clarity, and stakeholder coordination — exactly the issues Sambo et al. (2012) identified.

Governments should follow these actionable steps:

1. Adopt the 5-phase PMU rollout as a formal national

grid-modernisation mandate — this is the single most

concrete, fundable, and internationally validated intervention available right now.

2. Update the Grid Code to mandate PMU-based monitoring and control standards, as your lecture recommends, giving NERC a technical (not just political) enforcement lever.
3. Address radial bottlenecks directly — prioritise ring/mesh network upgrades at critical nodes identified through PMU observability analysis (Chakrabarti et al., 2009, already studied the Nigerian



330kV network specifically for this).

4. State pilots with NERC mentorship, as before — but now paired with PMU data-sharing protocols so state-level grids don't become blind spots in national situational awareness.

Fixing DisCo Leakages — Tariff Evidence Adds Nuance

MYTO tariff Order shows that even where tariff mechanisms exist on paper, they haven't translated into measurable service improvements “the continued prevalence of power outages and inadequate supply despite tariff increases indicates structural challenges beyond

empowers states to establish their own electricity markets. You have previously “strongly backed state-led regulation”. What should NSE do to prepare its members to support state governments in building the technical and regulatory capacity required to successfully implement this new framework?

NSE should mandate all its branches to reach out to the state electricity regulatory agencies for collaborations on capacity building and also seek multinational bodies for support so that the sector is strengthened

As the power sector transitions towards sustainability, what role do cleaner alternatives presents such as Compressed Natural Gas (CNG) for captive power, gas-to-power projects, and renewable energy integration? What technical recommendations or framework have you developed or developing in conjunction with NSE to support stakeholders in addressing transmission losses, grid stability, and the deployment of local metallurgical and materials engineering capabilities for power infrastructure?

Root causes of grid instability are:

1. Reactive power imbalances — 28% of failures, 2005–2015
2. Protection system miscoordination causing cascading trips
3. Vandalism and security compromises
4. Radial network design limiting rerouting options
5. Institutional gaps: poor funding, regulatory gaps, weak stakeholder coordination, outdated control-room protocols

My proposed solutions:

1. Real-time monitoring and visualization — PMU-based synchrophasor data at 30–60 samples/second, GPS-synchronized, giving operators direct visibility into phase angle differences



Principal Consultant/Chairman, Gridlink Power and Energy Systems Nigeria Ltd, you have noted that renewable energy is “good” and a form of “green energy,” you have also stated it is “not enough to move the economy” for manufacturing and on-grid needs. What should be the technical roadmap for integrating renewables in a way that complements the national grid and supports industrialisation, rather than just providing off-grid residential solutions?

Grid modernisation through Phasor Measurement Unit (PMU) deployment as proposed in October Lecture 2025.

You have identified “financial unsustainability” and “collection failures” within distribution companies as major constraints. What specific technical workable solutions that can be proposed to help DisCos fix their “internal leakages” (illegal connections, meter bypasses) and create a more liquid power market?

pricing mechanisms.”

This means metering/leakage fixes need to be paired with enforceable service-quality linkages, not just revenue linkages:

- AMI rollout with remote disconnection is the top technical fix for illegal connections and bypass.
- Service-Based Tariff (SBT) with teeth: Since the current SBT model raised revenue expectations without proportionate service improvement, DisCos should face automatic tariff-band downgrades if reliability metrics (outage frequency, duration) aren't met.
- GIS-based loss mapping and revenue protection units is essential for separating technical from non-technical losses.

Escrow-linked NBET settlement is the right liquidity incentive mechanism.

The Electricity Act 2023



and frequency deviations before they cascade.

2. Wide-area protection and control — automated responses within milliseconds: out-of-step protection for generator synchronism loss, voltage stability protection for load shedding, oscillation-damping controls.

3. Advanced analytics and predictive capabilities — machine learning on historical PMU data to flag anomalies before alarms trigger, plus post-event reconstruction of disturbance sequences for root-cause learning.

On CNG, gas-to-power, and materials engineering, I would say they remain complementary bridge solutions, but the PMU framework should be sequenced first, since a more stable transmission backbone is the precondition for reliably delivering power from any generation source, gas or renewable, to the end consumer.

It is said that your research findings revealed that 50.62% of stakeholders reported “no direct advantages from reforms”. In light of this finding, how do you propose to restore public and stakeholder confidence in the power sector transformation agenda, What measurable short-term and long-term actions would you recommend to stakeholders to move Nigeria from chronic power deficits to a resilient, diversified energy mix that

supports industrial growth and economic prosperity and what immediate, tangible outcome should Nigerians expect to see through Gridlink Power and Energy Systems Nigeria Ltd and NSE’s advocacy and interventions?

From my NIPSS research finding (50.62% see no benefit) and the October lecture, 579 collapses in 25 years gives you a devastating but honest opening statistic for any public confidence-building

Short-term (0–18 months):

- Include grid stability metrics (collapse frequency, average restoration time) alongside metering and collection data in the Power Sector Dashboard.
- Be more transparent in stakeholder engagements.

Long-term (2–10 years):

- Tie public confidence milestones to measurable PMU rollout progress — e.g., “Phase



campaign. This validates why citizens feel reforms haven’t delivered, in unambiguous technical terms.

The following measures will suffice:

3 installation complete at 100% of critical substations” — giving citizens a concrete, trackable modernisation story rather than abstract policy language.

Category	KPI	Source/Rationale
Grid Stability	Annual system collapse frequency (target: declining from 579/25yrs baseline)	Your own PMU lecture’s core problem statement
Grid Stability	PMU network coverage (% of critical 330kV substations instrumented)	Tracks the 5-phase implementation roadmap directly
Financial	DisCo collection efficiency and ATC&C losses	Unchanged — central to liquidity problem
Tariff-Service Correlation	Reliability improvement per tariff-band increase	Directly addresses the “limited correlation” gap flagged in the tariff analysis document
Access	% population with metered grid connection	Moves beyond raw access percentage
Industrial	Manufacturing sector reliance on self generation	Unchanged — tracks real reliability gains

Finally, what key performance indicators should stakeholders use to measure progress toward sustainable development in the power sector?

KPIs — Now With a Concrete

Grid Stability Dimension

Your PMU lecture explicitly recommends that NERC “establish performance standards for grid stability metrics and reliability indices, with regulatory incentives

for meeting or exceeding targets.” That’s a KPI framework component the earlier draft was missing.



My Engineering Background, Experience in Administration Essential to Delivering Sustainable Infrastructure for National Development

— **Engr. Abubakar D. Aliyu, FNSE, CON**

Former Minister of Power, Engr. Abubakar D. Aliyu, FNSE, CON, in this interview with Members of the Editorial Board, Engr. Olusegun Toluhi, FNSE, Ph.D., and Engr. Prof. Abdulrasheed Babalola, FNSE, speaks on the impact of his engineering background on his career, as well as sundry issues inhibiting Nigeria's development. In the interview, he reflects on his professional journey and the role engineering has played in shaping his perspectives, leadership approach and contributions to national development. He also examines some of the critical challenges confronting Nigeria and offers insights into measures required to overcome them and set the nation on the path of sustainable growth and development.



Engr. Abubakar D. Aliyu, FNSE, CON



How did your Engineering background contribute to your rise in public service?

My training as a Civil Engineer provided the technical discipline, analytical thinking, and problem-solving orientation that shaped my approach to public service. Engineering teaches one to approach challenges systematically; identifying problems, analysing root causes, designing solutions, and implementing them efficiently.

Throughout my career, whether as Supervising Project Engineer, Managing Director of the Yobe State Housing and Property Development Corporation, Deputy Governor of Yobe State, or later as Honourable Minister at the federal level, my engineering background helped me understand infrastructure development from both the technical and policy perspectives.

Engineering also instills strong values such as precision, accountability, and commitment to quality. These principles guided my decisions in public office, particularly when overseeing large-scale infrastructure and power sector projects that require technical competence, transparency, and long-term planning.

Can you provide insights into some infrastructural projects or policies you spearheaded?

My public service career spans several decades across engineering practice, public administration, and national leadership roles. I began my career as a civil servant and professional engineer in Yobe State, where I eventually rose to the position of Permanent Secretary. During this period, I supervised and delivered numerous infrastructure projects that were critical to the development of the state. These included the construction of township and rural road networks to enhance mobility and economic activity across communities, the development of housing estates targeted at low-income groups, and the construction of a 200-bed

capacity hospital which was later upgraded to a teaching hospital. I also supervised the establishment of key educational infrastructure such as the Yobe Turkish International College, now known as Yobe Tulip International College, among other strategic projects.

My experience in public administration prepared me for higher responsibilities when I later served as Deputy Governor of Yobe State. In that capacity, I oversaw several ministries including Commerce and Rural Development. While supervising the Ministry of Commerce, I ensured the successful construction and delivery of the Yobe Investment House located in the Central Business District of Abuja, which serves as a strategic investment and commercial asset for the state. In the Ministry of Rural Development, we revitalized the ministry's operations by procuring modern equipment to support rural road construction and agricultural development, thereby strengthening rural livelihoods and productivity.

However, beyond sectoral oversight, the most critical responsibility of a Deputy Governor is to support the Governor in delivering the administration's development agenda. I am proud to say that throughout the more than ten years I served in that role, I maintained a highly effective working relationship with my principal and discharged every assignment entrusted to me with diligence, loyalty, and professionalism.

At the Federal level, I served as Honourable Minister of State for Works and Housing, where I supported the substantive Minister in delivering some of Nigeria's most significant infrastructure projects. These included the completion of the Second Niger Bridge, the Kaduna-Kano segment of the Abuja-Kaduna-Kano highway, the Lagos-Ibadan Expressway, and the Kano-Katsina Expressway, among several other strategic national road projects that play critical roles in improving connectivity and

facilitating economic growth.

Subsequently, as the Honourable Minister of Power, we pursued key initiatives aimed at strengthening Nigeria's power infrastructure and improving electricity supply across the country. Under the Siemens Presidential Power Initiative (PPI), we facilitated the procurement and delivery of ten mobile substations and ten power transformers, some of which were installed at the Ajah Substation in Lagos State and the Apo Substation in Abuja before the end of our tenure. We also achieved important milestones in power generation and transmission, including the successful full-load test of the 700MW Zungeru Hydropower Plant, certification of the 30MW Maiduguri Emergency Gas Power Plant constructed by NNPC, and significant progress in strengthening the evacuation infrastructure for the 40MW Kashimbilla Hydropower Plant.

These experiences across state and federal levels have reinforced my conviction that strong engineering expertise, sound public administration, and strategic leadership are essential to delivering sustainable infrastructure that drives economic growth and national development.

What are the major challenges you encountered as an engineer-turned-politician?

One of the biggest challenges is bridging the gap between technical solutions and political realities. Engineers often prefer evidence-based, technically optimal solutions, while public governance requires balancing technical feasibility with political, social, and financial considerations.

Another challenge is the complexity of bureaucracy, which can slow the implementation of projects. Large infrastructure projects involve multiple stakeholders, regulatory requirements, and funding constraints.

I addressed these challenges by promoting collaboration among



technical experts, policymakers, and stakeholders, while also emphasizing transparency and accountability in project delivery. Maintaining a strong technical advisory team was also essential in ensuring that decisions remained grounded in sound engineering principles.

How has your engineering expertise helped address critical challenges?

Engineering thinking is fundamentally about practical problem solving, and that perspective has been invaluable in addressing development challenges.

In Yobe State, my technical background helped guide infrastructure planning, ensuring that projects were designed with sustainability and long-term value in mind. This included proper site planning for housing projects, improved rural infrastructure, and support for community development initiatives.

At the national level, in the power sector, engineering knowledge was particularly critical. Understanding grid operations, transmission constraints, and generation capacity allowed us to better evaluate policy options and prioritise investments in areas such as transmission infrastructure and grid stability.

Why has Nigeria's electricity problem persisted despite large investments?

Nigeria's electricity challenges are multi-dimensional, involving structural, technical, financial, and governance issues.

First, the sector has historically faced infrastructure deficits, particularly in transmission and distribution networks. Even where generation capacity increases, the ability to evacuate and distribute power efficiently has been limited.

Second, the sector suffers from liquidity challenges within the Nigerian Electricity Supply Industry (NESI). Revenue collec-



tion inefficiencies and tariff structures that do not fully reflect costs have constrained investment.

Third, governance and regulatory coordination across multiple institutions can sometimes create delays in implementation.

Addressing these issues requires sustained reforms focused on strengthening grid infrastructure, improving market discipline, enhancing regulatory oversight, and encouraging private sector investment. Programs such as the Siemens Presidential Power Initiative were designed to address some of these structural gaps.

How do you ensure accounta-

bility and transparency?

Accountability and transparency are essential for effective governance, especially in infrastructure projects that involve significant public resources.

During my time in public office, we emphasized:

- Strict adherence to procurement regulations
- Transparent project monitoring and reporting
- Independent oversight and technical verification
- Stakeholder engagement and institutional collaboration



In the power sector, for example, strengthening discipline within the market and improving transparency in financial flows were key priorities.

What are your key legacy projects and policies?

My legacy contributions can be viewed across both the state and national levels, particularly in the areas of infrastructure development, power sector improvement, and institutional strengthening.

At the state level in Yobe, one of the most significant projects during my early career in public service was the construction of a 200-bed capacity hospital in Damaturu, which has since been upgraded into a teaching hospital, now serving as a major centre for healthcare delivery and medical training in the region. In addition to this, we implemented several infrastructure projects which has helped lay a solid foundation for long-term socio-economic development in the state.

At the national level, my tenure in the Federal Government also contributed to major infrastructure and power sector milestones. As Honourable Minister of Power, one of the most notable achievements was the completion and successful full-load testing of the 700MW Zungeru Hydropower Plant, one of the largest hydropower projects executed in Nigeria in recent decades. The project significantly strengthened Nigeria's renewable energy capacity and improved the stability of the national grid.

Another key milestone was the advancement of grid modernisation efforts under the Siemens Presidential Power Initiative (PPI). Under this initiative, we facilitated the procurement and deployment of critical transmission infrastructure, including mobile substations and power transformers, which enhanced grid capacity and improved power evacuation capability across key substations in the country.

Overall, these projects reflect a



consistent commitment to applying engineering expertise and strategic policy leadership to deliver infrastructure that improves the quality of life for citizens and strengthens the country's development trajectory.

What advice would you give to aspiring young engineers?

My advice to young engineers is simple:

First, develop strong technical competence. Engineering is a profession built on knowledge, discipline, and continuous learning.

Second, embrace integrity and

professionalism. Your reputation is your most valuable asset.

Third, do not limit yourself to technical practice alone. Engineers have a critical role to play in policy, leadership, and national development. Our country needs engineers who can combine technical expertise with strategic leadership.

Finally, remain innovative and adaptable. The challenges of the future - from infrastructure to energy transition - will require engineers who can think creatively and collaborate across disciplines.

TOP ENGINEERING PROFESSIONALS: WHO IS WHERE!



Engr. Chijioke Okwuokenye

The Managing Director/CEO, Abuja Electricity Distribution Company (AEDC)

Engr. Chijioke Okwuokenye is the Managing Director/CEO of Abuja Electricity Distribution Plc (AEDC). With over two decades in the power sector, he previously served as Chief Operating Officer, driving operational efficiency and strategic initiatives. Before AEDC, he was Vice President of Engineering at Konexa, where he led transformative projects to enhance energy solutions and profitability.

Engr. Chijioke's career began at the Power Holding Company of Nigeria and included key roles at Income

Electrix Limited and Port Harcourt Electricity Distribution Plc, where he excelled in strategic projects and commercial operations. He holds a degree in Electrical Electronics Engineering from the University of Benin, a Master's in Electrical Engineering, and an MBA in Business Administration.

His diverse expertise and educational background make him a strategic thinker capable of navigating the complexities of the power sector.



Engr. Chichi Emenike

Acting Managing Director of Neconde Energy Limited

Engr. Chichi Emenike is a high-impact energy leader with 27 years of expertise in the upstream, midstream, and downstream sectors. As the Acting Managing Director of Neconde Energy Limited, Chichi has transitioned from technical execution to strategic financial stewardship, specializing in the commercial optimization of large-scale energy assets. Her career has been defined by navigating complex regulatory landscapes, securing transformative financing, and leading high-value assets to operational profitability.

She is a recognized expert in navigating complex Joint Venture (JV) environments. Chichi was a pivotal lead in securing and executing the 2022 Finance, Technical, and Services Agreement (FTSA) with NEPL/NNPC Ltd for OML 42. This landmark multi-party agreement successfully unlocked vital financing and investment streams, demonstrating her ability to align diverse stakeholder interests toward long-term profitability and asset growth. This agreement was instrumental in injecting critical financing for asset development, a model now recognized as a success in the industry. Under her leadership with the JV partner, production volumes have been grown on OML42 from 15kopd to the regions of averagely 45kopbd.

Additionally, she oversees the strategic mandate to unlock over 3.8tcf of gas reserves, transforming underutilized resources into bankable commercial opportunities. Her board-level contributions extend to the Nigerian Gas Association (NGA), where she served in various capacities as Council Member, even now as

a 2nd Vice President and chairs the Diversity, Equality, and Inclusion (DEI) Study Group. In these roles, she advises on corporate governance and integrates ESG frameworks into business sustainability strategies.

A Fellow of the Nigerian Society of Engineers (NSE) and COREN certified, Chichi holds a Bachelor's in Engineering and an MBA in Oil C Gas Management from Robert Gordon University, Aberdeen. Her unique blend of technical mastery, commercial acumen and commitment to inclusive leadership makes her a valuable asset to boards seeking expertise in energy transition, global operational standards and bridging the gap between engineering complexity and bottom-line financial performance.

Apart from being involved in several technical projects along different parts of the value chain of the industry, she has been engaged in several Corporate Social Responsibility Projects, advocating inclusion and diversity and its relevance to business sustainability as well as serving on different Not-for profit organizations and NGOs. She is a founding member of the Women in Energy Network (WIEN) and also a member of Association of Professional Women Engineers of Nigeria (APWEN). She remains committed to actively creating opportunities especially for women in Oil and Gas projects whilst also providing Commercial, Technical and Financial advice for women who are seeking to actively participate in the Oil C Gas industry.



Engr. Victor Bandele, FNSE, FNIMechE

Deputy Managing Director, Deep Water Asset of TotalEnergies Ep Nigeria Ltd.

Engr. Victor Bandele currently serves as the Deputy Managing Director, Deep Water Asset of TotalEnergies EP Nigeria Limited. He began his career with the then Elf Petroleum Nigeria Limited (now TotalEnergies E&P Nigeria) in 1993 as a Trainee Reservoir Engineer. Over the years, he has contributed significantly to various subsurface field management and development initiatives—both onshore and offshore—including non-operated assets. In 2004, he was appointed Team Lead for Geosciences and Reservoir Engineering (GSR) for the offshore OML 99 Assets.

A consummate professional, Mr. Bandele has held several strategic roles in operations, projects, and management, both in Nigeria and internationally. Notably, he served as GSR Manager for the Akpo Field, TotalEnergies' first Deepwater development project in Nigeria. He later became Executive General Manager, GSR & Assets Management within the Joint Venture District, before taking up an international assignment at the company's headquarters in Paris as a Petroleum Architect in the Development Studies entity.

In 2015, he returned to Nigeria as Executive General Manager, Special Duties in the Joint Venture District. He was subsequently appointed to the Board of Directors of TotalEnergies EP Nigeria Ltd as Executive Director, Joint Venture District. During his tenure, the company achieved several milestones, including:

- Completion of the OFON Phase 2 development.
- Commencement of domestic gas supply via the Obite, Ubeta, Rumuji/Northern Option Pipeline

(OUR/NOPL) infrastructure.

- Launch of the Ikike Field Development Project.

As the Deputy Managing Director, his steer and leadership facilitated the Oil Mining License lease renewal for OML 130, now Petroleum Mining Leases 2/3/4 (PML 2/3/4 – Akpo/Egina/Preowei) and Petroleum Prospecting License 261 (PPL 261 – Egina South), and an the startup of production of the Akpo West field leveraging the existing Akpo facilities to keep costs low and minimizing greenhouse gas emissions.

Mr. Bandele holds both Bachelor and Masters degrees in Mechanical Engineering from the University of Ilorin, earned in 1989 and 1992 respectively. He is also an alumnus of the Institut Français du Pétrole (IFP/ENSPM – Formation Industrie) in France, where he completed advanced training in Reservoir Engineering.

He is a Fellow of both the Nigerian Society of Engineers (NSE) and the Nigerian Institution of Mechanical Engineers (NIMechE). Additionally, he is a Registered Engineer with the Council for the Regulation of Engineering in Nigeria (COREN) and a member of several professional bodies, including the Society of Petroleum Engineers (SPE) and the Nigerian Institute of Management (NIM).

Beyond his professional accomplishments, Mr. Bandele is a devoted husband and a proud father of three.



Engr. Ngozi Adeleke

President, Pipeline Professionals Association of Nigeria (PLAN)

Ngozi Adeleke is a seasoned engineering professional, innovation advocate, and strategic leader with over two decades of diverse experience in the energy industry. She holds a Chemical Engineering degree from the University of Benin, is a COREN-registered engineer and has an MBA from IE Business School, Madrid. Her career spans impactful roles at Shell Plc—both locally and internationally—and currently at Renaissance Africa Energy Company, where she serves as Pipelines Asset Manager.

In her current role, Ngozi is reshaping the pipelines narrative by championing a multi-year rejuvenation strategy aimed at delivering sufficient capacity to support 500,000 barrels of oil per day—aligned with the company's growth ambitions. Under her leadership, the team has achieved 100% pipeline availability and eliminated illegal connections, setting new benchmarks for operational excellence. She leverages digital technologies and simplification principles to drive innovation, enhance asset reliability, and embed sustainability into core business practices.

Her leadership in commissioning SPDC's Southern Swamp Associated Gas Gathering Facilities stands

as a testament to her ability to deliver high-impact projects that accelerate domestic gas production.

She is a recipient of multiple awards and has been widely recognised as a business improvement champion with a history of implementing new initiatives and technologies to strengthen the business, enhance operational efficiency and control costs.

A proponent of business transformation, she supports the implementation of forward-thinking strategies that improve performance and reduce costs. As President of Women in Renaissance (WiRe), she is a passionate advocate for gender parity and women's development, creating platforms for women to thrive and lead. She is equally committed to mentoring young professionals and building inclusive, high-performing teams.

A wife and mother of two, Ngozi brings empathy, resilience, and a growth mindset to every challenge—making her a driving force for innovation and transformation in the energy sector.

She is currently the President of Pipeline Professionals association of Nigeria(PLAN)

NSE, ASCE to Collaborate on Capacity Building Programmes

The Nigerian Society of Engineers (NSE) and the American Society of Civil Engineers Nigeria Section (ASCE Nigeria Section) have agreed to strengthen collaboration, particularly in the area of capacity building for members.

This formed the crux of discussions when the President of NSE, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR received the President of ASCE Nigeria Section, Austine Odibi, MNSE and his team on Friday, May 15, 2026, at the National Engineering Centre (NEC) Headquarters, Abuja.

Speaking during the visit, Engr. Rabi expressed delight at receiving the ASCE delegation and commended the achievements of the ASCE Nigeria Section. He noted that the meeting provided an avenue to exchange ideas on advancing the engineering profession and deepening institutional collaboration.



Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR.

According to him, NSE is placing significant emphasis on strategic collaborations, especially in the training and development of Young Engineers across the country.

"I am very proud of the

achievements all of you have recorded at the American Society of Civil Engineers (ASCE) Nigeria Section. I am delighted to receive you to discuss and exchange ideas on how to move engineering forward... I am part and parcel of



Engr. Rabi presenting the Special Edition of The Nigerian Engineer magazine to the President of the American Society of Civil Engineers, Engr. Austine Odibi, MNSE.



ASCE and I have drawn a lot of inspiration from the organisation to the extent that some of the activities of ASCE are influencing the way we are shaping programmes within NSE," he stated.

The NSE President acknowledged the strong support and presence of ASCE members during his investiture ceremony held on Saturday, January 17, 2026, in Abuja, adding that he has drawn considerable inspiration from the operations and programmes of ASCE. He further disclosed that one of the cardinal objectives of his administration is the training and empowerment of Young Engineers, expressing confidence that collaboration with ASCE Nigeria Section would greatly enhance such efforts.

He also spoke on ongoing efforts to reposition and strengthen the Society, particularly in ensuring that the conferment of Fellowship strictly adheres to established rules and professional standards.

Earlier, the President of ASCE

Nigeria Section, Engr. Austine Odibi, MNSE congratulated Engr. Rabiun on his emergence as President of NSE, describing his leadership as timely for Nigeria's infrastructure and engineering development aspirations.

"Mr. President, your emergence at this critical time for infrastructure development gives great confidence to the engineering community in Nigeria and globally. We are particularly impressed by your commitment to professional excellence, capacity development and sustainable engineering practice," he said.

Engr. Odibi reaffirmed the commitment of ASCE Nigeria Section to supporting initiatives aimed at advancing engineering practice, strengthening professional collaboration and promoting knowledge exchange for national development. He noted that the visit was not only to felicitate with the NSE President but also to reaffirm ASCE Nigeria Section's readiness to collaborate with NSE in areas such as technical development,

mentorship, research, sustainability and infrastructure development.

The ASCE Nigeria Section President also extended an invitation to Engr. Rabiun to attend the ASCE Nigeria Section Annual General Conference scheduled for August 26, 2026, at the Radisson Hotel, Ikeja, Lagos. He disclosed that the theme of the conference is: *"Climate Adaptive Cities: Engineering Solutions to Urban Futures."*

The Acting Executive Secretary, Abdulkadir A. Aliyu, FNIM, in his vote thanks at the conclusion of the meeting, commended the long-standing relations between NSE and ASCE Nigeria Section, recalling the high-level visit by an ASCE team from the USA to NSE in late 2025 as well as the message of congratulations by the Nigeria Section President to the President of NSE upon his assumption of office in January, 2026.



Group Picture

Branch and Division Chairman's Retreat 2026



(R) President of NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR(R) and (L) Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE.



Past President of NSE, Engr. Kashim Ali, FNSE, FAEng, mni making a presentation during the event.



(L) Vice President (Corporate Services), Engr. Benjamin Osita Okoh, FNSE and Vice President (Asset Management), Engr. Rachel Ugye, FNSE.



(L) Vice President (Professional Development), Engr. Dauda Aluyah Okodugha, Ph.D., FNSE and Vice President (Collaboration and Linkages), Engr. Ibrahim Aliyu Dutsima, FNSE (R)



Immediate Past President of NSE, Engr. Margaret Aina Oguntala, FNSE



Chairman of MEMART Review Committee, Past President of NSE, Engr. Ademola Isaac Olorunfemi, FNSE, FAEng during a presentation on the assignment of the Committees.



Cross section of Chairmen.



Branch and Division Chairman's Retreat 2026



(M) President of NSE, Engr. Rabi'u flanked by Deputy President, Engr. Valerie Ifueko Agberagba, FNSE (R), Immediate Past President, Engr. Margaret Aina Oguntala, FNSE (L) pose for a picture after the presentation of a plaque to the Deputy President for excellent presentation at the event.



Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE during a presentation at the event.



Cross section of Chairmen.



Group picture.

NSE President Commissions Fellows' Lounge



President of NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR gets set to cut the ribbons signalling the official opening of the Fellows Lounge while Deputy President, Engr. Valerie Ifueko Agberagba, FNSE watches with joy

The President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, has officially commissioned the Fellows' Lounge at the National Engineering Centre (NEC) Headquarters in Abuja.

The newly established lounge is a tastefully furnished relaxation space created exclusively for distinguished Fellows of the Society. It is designed to provide a serene and comfortable environment where Fellows can spend brief moments to engage informally and enjoy light snacks while at the national Secretariat for official transactions.

Speaking at the commissioning, the President said the idea for the lounge was borne out of his administration's commitment to upholding the dignity and status, as well as deepening the sense of belonging amongst Fellows of the Society. He recalled that the initiative was first announced during his investiture in January, when he stated: "In furtherance of our commitment to uphold the dignity and status of Fellowship within

the Nigerian Society of Engineers, our administration will establish a dedicated Fellows' Lounge at the NSE National Headquarters."

He announced that access to the facility will be restricted to financially up-to-date Fellows and that refreshments at the lounge will be provided on request and at a cost. The President also informed guests at the commissioning ceremony that guidelines have been established to regulate the use of the lounge in order to preserve its

exclusivity and prestige.

The commissioning of the Fellows' Lounge marks another milestone in the administration's drive to strengthen member experience and enhance the institutional stature of the Nigerian Society of Engineers. The NSE Fellows' Lounge is now officially open to all Fellows of the Society in good financial standing.



(R) Vice President (Engineering Technology & Innovation), Engr. Dr. Halimat Adediran, FNSE, and (L) Vice President (Membership Services), Engr. Usman Tijjani, FNSE, mni being served refreshment immediately after the commissioning by Deputy Director (Human Resources), Adeola Akanni.



NSE President Charges Government on Security, Economic Hardship

The President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR, has called on the Federal Government to take urgent and decisive measures to address the escalating security challenges and worsening economic hardship facing Nigerians.

Speaking on Thursday, June 4, 2026, at the Society's 2026 Second Quarter Dinner, during which 214 distinguished engineers were formally admitted into the Fellowship cadre of the NSE, the President of NSE expressed deep concern over the increasing wave of kidnappings and other criminal activities that continue to endanger the lives and livelihoods of citizens across the country.

Engr. Rabi noted that while the Nigerian Society of Engineers remains steadfast in its commitment to supporting government at all levels in the pursuit of national development objectives, there is an urgent need for greater responsiveness to the welfare and security needs of the populace.

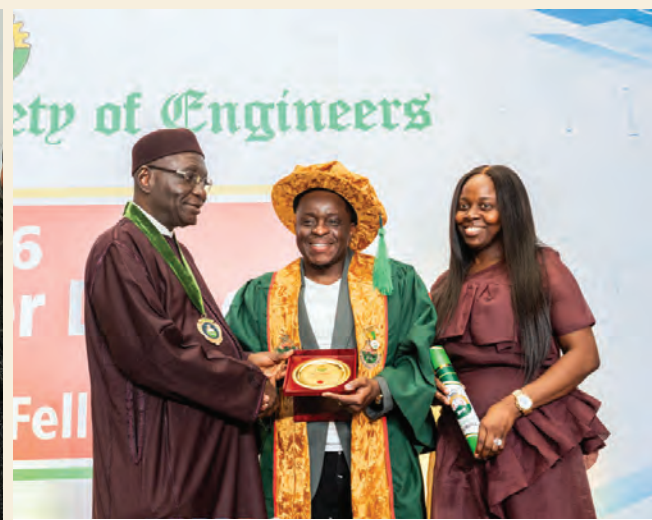


President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR

According to him, "The Nigerian Society of Engineers remains fully committed to supporting government at all levels in the pursuit of national development objectives. We firmly believe that effective collaboration among government, professional bodies, academia, industry and other critical stakeholders is essential for

addressing the multifaceted challenges confronting our nation.

"However, at this moment, we must also charge the federal government of Nigeria to be more alive to its obligations to the citizenry. While we recognise that elections are drawing near and political campaigns have commenced



The President presents plaques to some Conferees.

in earnest, citizens must be safe, healthy and economically empowered for democracy to thrive.

“We are deeply concerned about the rising rate of inflation and the increasing cost of living. Many Nigerians can hardly afford transportation to their places of work due to the soaring cost of petroleum products, with petrol currently selling at an average of about ₦1,350 per litre. This situation has placed tremendous pressure on households and businesses alike.

“We also decry the growing wave of insecurity that is rapidly spreading across the country. The indiscriminate abduction of teachers, pupils, and other innocent citizens is unacceptable and demands urgent and sustained action by the relevant authorities.”

The NSE President stressed that the primary responsibility of any government is the protection and welfare of its citizens, adding that issues affecting the wellbeing of Nigerians should receive greater attention than political considerations.

“We believe strongly that a responsible government should prioritise the wellbeing of its citizens above all else, including mundane considerations such as re-election campaigns. The security and welfare of the people must remain the foremost objective of governance,” he stated.

Engr. Rabiū further used the occasion to lend the voice of the engineering profession to ongoing calls for improved welfare for Nigerian workers, urging government to undertake a substantial upward review of the national minimum

wage in view of prevailing economic realities.

“As a responsible corporate citizen, the Nigerian Society of Engineers joins other well-meaning Nigerians in calling on government to consider a substantive upward review of the national minimum wage for Nigerian workers. Our nation possesses the resources and capacity to improve the quality of life of its people. We can achieve this if we collectively demonstrate the necessary political will and commitment,” he concluded.



Group Picture with Conferees.



NSE President Bemoans Rising Poverty, Charges Engineers to Drive Solutions

The President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR, has expressed deep concern over the worsening state of poverty and the alarming decay of infrastructure across the country, urging Engineers to take a leading role in addressing these pressing national challenges.

Speaking on Saturday, April 18, 2026, at the inauguration of Engr. Gradeone Ogheneovo Idama, MNSE, as the 5th Chairman of the Nigerian Society of Engineers (NSE), Ughelli Branch, the President called on Engineers both within Nigeria and in the diaspora to rise to the occasion through practical and impactful interventions.

“The growing level of poverty, infrastructure decay and social inequality in our communities demands practical and visible intervention. Engineers must be at the forefront of solving these problems”, he stated.

Engr. Rabi further charged



President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR

the NSE Ughelli Branch, as well as all other Branches of the Society nationwide, to proactively conceive, advise on and execute impactful projects that directly address critical areas such as water supply, sanitation, energy access, transportation and other essential services within their respective communities.

He emphasised that the engineering profession must go beyond theoretical contributions and assume a more visible and solution-driven role in national development, particularly at a time when the country faces mounting socio-economic and infrastructural challenges.



Engr. Rabi and Engr. Gradeone Ogheneovo Idama, MNSE in a group picture with Senior Engineers and dignitaries during the inauguration of Engr. Idama as Chairman of NSE Ughelli Branch.

NSE, JBN Move to Strengthen Collaborations

The Nigerian Society of Engineers (NSE) and Julius Berger Nigeria Plc (JBN) have commenced talks to deepen collaborations on capacity development and other strategic initiatives aimed at advancing engineering practice and technological innovation in the country.

This was the outcome of a high-level courtesy visit by the NSE President, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, to the Managing Director of JBN, Engr. Dr. Peer Lubasch, on Wednesday, May 13, 2026, in Abuja.

At the meeting, both organisations explored areas of collaboration focused on strengthening the capacity of NSE members and preparing the profession for the future demands of technology-driven infrastructure development. Discussions also highlighted JBN's commitment to modern construction practices and innovative engineering solutions, with both parties expressing strong interest in fostering deeper institutional partnerships that would



President of NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR and the Managing Director of JBN Ltd, Engr. Dr. Peer Lubasch pose for a picture at the end of the courtesy visit.

benefit Engineers across the country.

The engagement underscores the growing importance of collaboration between NSE and industry leaders in driving sustainable infrastructure development and enhancing technical competence within the profession.

The NSE President's entourage to the meeting included a Past Pres-

ident of the Society, Engr. Kashim Ali, FNSE, FAEng, mni, Vice President (Collaboration and Linkages), Engr. Ibrahim Dutsinma, FNSE, Vice President (Corporate Services), Engr. Benjamin Osita Okoh, FNSE, as well as Executive Committee member (Corporate Services), Engr. Dauda Musa, FNSE and Executive Committee Member (Linkages and Collaboration), Engr. Dayyabu Tijjani, FNSE.



5th from right President of NSE, Engr. Rabi, 3rd from left, Past President of NSE, Engr. Kashim Ali, FNSE, FAEng, mni, 4th from left, MD of JBN Ltd, Engr. Dr. Lubasch, 2nd from left, Vice President (ASSET Management), Engr. Racheal Ugye, FNSE, 3rd from right, Vice President (Collaboration and Linkages), Engr. Ibrahim Aliyu Dutsinma, FNSE, 2nd from right, Vice President (Corporate Services), Engr. Benjamin Osita Okoh, FNSE, 1st from right, Executive Committee Member (Professional Development) Engr. Dayyabu Tijjani, FNSE and 1st from left Engr. Ismaila Amodu, PhD, FNSE of JBN Ltd.

NSE Divisions to Be Harmonised and Strengthened

The professional Divisions of the Nigerian Society of Engineers, representing diverse engineering disciplines, are set to undergo harmonisation and strengthening to enhance their effectiveness and relevance.

The professional Divisions were created to promote collaboration, knowledge sharing, professional development and technical advancement across specialised engineering fields. Over the years, however, several challenges have emerged, undermining their effectiveness. These include overlapping mandates, inconsistent levels of activity, low member participation, declining stakeholder engagement, administrative inefficiencies and the dormancy of some Divisions. In addition, it is perceived that some Divisions have continued to operate without clear differentiation or measurable strategic relevance.

Consequently, following approval by the NSE Council, the President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, on Tuesday, June 16, 2026, inaugurated a Committee on the Harmonisation and Strengthening of the Divisions.



President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR

The Committee has been tasked with reviewing the current structure of the Divisions and recommending a more streamlined and efficient framework. The proposed reform is expected to consolidate related Divisions into a structure capable of delivering greater value to members and stakeholders while enhancing operational efficiency.

Speaking during the inauguration, Engr. Rabi emphasised that the exercise is not intended as a punitive measure but rather as a strategic and forward-looking reform. "It is important to emphasise that this process is not punitive. Rather, it is a forward-looking

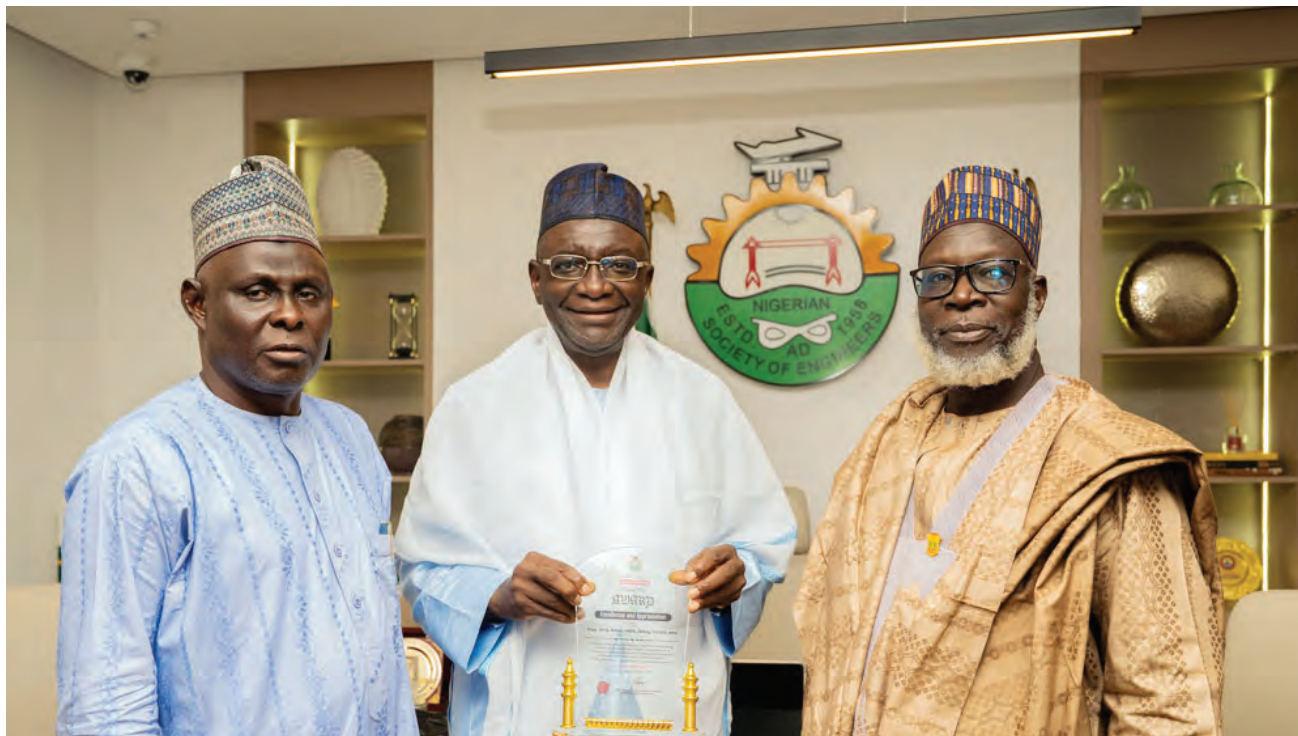
reform designed to reposition the professional Divisions as engines of innovation, research, policy advocacy and specialised technical excellence within the NSE", he stated.

Responding on behalf of the Committee, Engr. Dr. Patricia Opene-Odili, FNSE, who represented the Chairman, expressed appreciation to the NSE leadership for the confidence reposed in the Committee and assured the President that members would diligently execute the Committee's Terms of Reference and deliver on its mandate.



From right, Acting Executive Secretary, Abdulkadir A. Aliyu, FNIM, Director Professional Development, Engr. Babatunde Odunlami, FNSE, Director Membership Services, Engr. Ibrahim Wahab, FNSE, Deputy Director/Head Legal Services, Thomas Egbele (ESQ).

Ilorin Branch Confers Award of Excellence on NSE President



Middle: President of NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR with the award presented to him by NSE Ilorin, flanked by Past President of NSE, Engr. Babagana Mohammed, FNSE (L) who delivered the award and Past President of NSE, Engr. Tasiu Gidari-Wudil, FNSE, mni (R).

The Ilorin Branch of the Nigerian Society of Engineers (NSE) has conferred an Award of Excellence on the President of NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR in recognition of his exemplary leadership and outstanding contributions to the advancement of the engineering profession.

The award was presented during the 4th Distinguished Annual Lecture in honour of Engr. Lanre Yusuf Shagaya, FNSE, FAEng, MFR, OFR, held on Thursday, June 11, 2026, in Ilorin. The President was represented at the event by Past President, Engr. Babagana Mohammed, FNSE who received the award on his behalf.

According to the citation, the award was bestowed in recognition of Engr. Rabi's exemplary leadership, distinguished service to the Society and commitment to advancing the objectives and ideals of the Society.

In his goodwill message delivered at the event which coincided with Engr. Shagaya's 80th birthday celebrations, the President commended the NSE Ilorin Branch for the successful organisation of the annual lecture series, describing it as a valuable platform for intellectual engagement, professional reflection and the celebration of excellence within the engineering community. He noted that the programme also serves as a fitting tribute to an iconic Engineer, administrator and statesman whose contributions to the engineering profession and national development remain profound and enduring.

"I wish to sincerely commend the NSE Ilorin Branch for its consistency, foresight and dedication in sustaining this noble tradition. The success of this programme over the years is a testament to the commitment of the Branch leadership and members to preserving excellence

and promoting knowledge-sharing within the profession."

The President further paid glowing tribute to Engr. Shagaya, describing him as a model of leadership and professionalism who has consistently upheld the ideals and values of the engineering profession. "Engr. Shagaya has demonstrated what it truly means to be a leader, an individual who proudly upholds the banner of the Nigerian Society of Engineers and remains steadfast in the pursuit of excellence. I wish him continued success in the years ahead."

The event brought together distinguished Engineers, professionals, academics and stakeholders who reflected on the enduring legacy and remarkable contributions of Engr. Shagaya to engineering practice and national development.

NSE Calls for Joint Action to Deliver Sustainable Infrastructure in Nigeria



3rd from left, Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE, 1st from right, Vice President (Professional Development), Engr. Dauda Aluyah Okodugha, FNSE, Ph.D. pose with the Conference organisers.

The Nigerian Society of Engineers (NSE) has called on the Federal Government, sub-national authorities, private sector players and all stakeholders in the infrastructure delivery value chain to collaborate for the achievement of sustainable infrastructure development across the country.

This call was the NSE's central message at the maiden Nigeria Infrastructure Summit held recently in Lagos. Speaking on behalf of the President of NSE, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, F.AEng, MFR, the Deputy President, Engr. Valerie Ifueko Agberagba, FNSE, emphasised that joint effort remains the most viable way for delivering sustainable infrastructure and improving the quality of life for Nigerians.

The Deputy President stressed that achieving this objective requires clearly defined roles across all sectors; the government must ensure policy stability and provide credible guarantees, the private sector must bring capital, efficiency and innovation, the professionals must uphold ethics and quality standards, while

development partners must align their interventions with Nigeria's national priorities.

Underscoring the urgency of collaboration, Engr. Agberagba noted that no single entity can address Nigeria's infrastructure challenges alone. "Let us co-create solutions. Let us ensure our infrastructure serves all Nigerians, drives economic growth, and positions Nigeria as the regional hub we know it can be... No single entity, not the federal government, not multilateral banks, not private firms, not even the NSE can solve this alone", she stated.

Highlighting Nigeria's vast potential, Engr. Agberagba described the country as a giant within the West African sub-region, noting its status as the largest economy in the region, with an extensive road network spanning over 195,000 kilometres and a strategic role in regional power supply. However, she pointed out that the nation faces a significant infrastructure deficit, estimated at over \$2.3 trillion. According to her, closing this gap could unlock a new era of productivity, job crea-

tion and shared prosperity for over 220 million Nigerians.

Despite these opportunities, the Deputy President further lamented the persistent challenges within the sector, describing the situation as a paradox of "quantity without quality." She cited instances of poorly executed road projects, congested and inefficient ports despite handling approximately 70% of ECOWAS trade, and an underperforming power sector with generation levels hovering around 5,400 megawatts, far below national needs. She further noted that rising debt servicing obligations have continued to outpace capital expenditure, thereby constraining the country's capacity to invest in new infrastructure or maintain existing assets.

The NSE reaffirmed its commitment to working with all stakeholders to advance sustainable, high-quality infrastructure development that will drive national growth and improve the well-being of citizens.

NSE Ibeju-Lekki Branch Donates Office Equipment to NSE Headquarters

In a demonstration of its commitment to supporting the operational efficiency and service delivery of the Nigerian Society of Engineers (NSE), the NSE Ibeju-Lekki Branch has donated a VersaLink Multifunction Printer to the NSE National Headquarters.

The official presentation was made on Thursday, June 11, 2026, at the NSE Headquarters in Abuja by the Chairman of the Branch, Engr. Olufemi Dare, FNSE, accompanied by the Branch Secretary, Engr. Dr. Omolola Adetona, FNSE. The equipment was presented to the President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR.

Speaking during the presentation, Engr. Dare stated that the donation reflects the Branch's commitment to the growth, development and smooth operation of the Society's National Headquarters.

"We believe that this support will contribute positively to the day-to-day activities of the Headquarters and enhance its capacity to serve members more effectively," he said.



Middle: President of NSE, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR receives a letter on the Donation from the Chairman of NSE Ibeju-Lekki Branch, Engr. Olufemi Dare, FNSE (R), while the Branch's Secretary, Engr. Dr. Omolola Adetona, FNSE, (L) looks on.

Receiving the equipment on behalf of the Society, the NSE President, who was accompanied by the Deputy President, Engr. Valerie Ifueko Agberagba, FNSE expressed profound appreciation to the Ibeju-Lekki Branch for the thoughtful gesture.

Engr. Rabi described the donation as a valuable contribution to the Society's operations and commended the Branch for its exemplary support. He requested that the Branch Chairman convey

his gratitude to all members of the Ibeju-Lekki Branch for their generosity and dedication to the advancement of the NSE.

The President further encouraged other NSE Branches across the country to emulate the Ibeju-Lekki Branch by supporting the National Headquarters through the donation of essential office equipment and other resources that would enhance administrative efficiency and service delivery.





NSE Inaugurates Maiduguri 2026 International Engineering Conference LOC

The Nigerian Society of Engineers (NSE), has officially inaugurated the Local Organising Committee (LOC) for the 2026 International Engineering Conference and Annual General Meeting, scheduled to hold in Maiduguri, Borno State.

The inauguration was performed on behalf of the President of the NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, by Engr. Muhammad Bashir Shettima, FNSE, Chairman of the NSE Maiduguri Branch. The event was witnessed by the Chairman of the Conference Planning Committee (CPC), Engr. Mohammed Kabir Wanori, FNSE.

In his remarks, Engr. Shettima conveyed the President's message to members of the LOC, urging them to work in close synergy with the CPC and other stakeholders to ensure the successful hosting of the event.

Engr. Mohammed Umaru Watsada, FNSE was subsequently inaugurated as Chairman of the LOC. In his acceptance speech, he expressed appreciation to the President of NSE and the CPC for the confidence reposed in him and his team. He assured that the Committee would work diligently to justify the trust placed in them and deliver a memorable and successful conference.



(L) Chairman of Conference Planning Committee, Engr. Mohammed Kabir Wanori, FNSE and Chairman of NSE Maiduguri Branch, Engr. Muhammad Bashir Shettima, FNSE.

Earlier, the CPC Chairman described the inauguration as a significant milestone in the implementation of the Maiduguri 2026 conference roadmap. He noted that the LOC would serve as the operational engine of the conference at the host-city level, working closely with the CPC and relevant stakeholders to ensure the seamless execution of all activities leading to the event.

Engr. Wanori expressed confidence in the Committee's ability to deliver on its mandate and emphasised that the inauguration demonstrates the Society's commitment to early planning, teamwork, and excellence in hosting what is expected to be one of the most memorable international confer-

ences in the history of the NSE.

The decision to host the 2026 NSE International Conference in Maiduguri reflects the Society's confidence in the growing peace, stability, and developmental strides recorded in Borno State. It also presents an opportunity to showcase the resilience of the people of the State and the transformative role of engineering in reconstruction, recovery, infrastructure development, and sustainable growth. The Government and people of Borno State continue to work closely with security stakeholders to sustain a peaceful environment conducive to hosting major national and international events.



Group Picture.

NSE, FIDIC Africa Plan Joint Training on Mega Project Delivery

The Nigerian Society of Engineers (NSE) and FIDIC Africa are planning holistic training for their members so as to empower them with the capability to deliver on massive infrastructure projects. This was the crux of the discussion at the meeting when the President of NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR received the President of FIDIC Africa, Engr. George C. Okoroma, FNSE, FAEng, JP, at the National Engineering Centre (NEC) Headquarters, Abuja on Friday, May 22, 2026.

FIDIC Africa is the African regional body of the International Federation of Consulting Engineers (FIDIC). It represents consulting engineering associations across Africa and promotes collaboration, infrastructure development, professional standards and engineering best practices on the continent.

The training is intended to cover acquiring the crucial information and the process of bidding for multi-billion projects that represent major infrastructure



President of NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR listening to President of FIDIC, Engr. George C. Okoroma, FNSE, FAEng during the courtesy visit.

development projects of government or private concerns. Eventually, the training will help the beneficiaries to equip themselves with the requisite capability to win such contracts upon being advertised and also doing such projects satisfactorily.

NSE and the continental engineering consulting body also share the vision of building the capacity

of Young Engineers and giving them early exposure on how to handle high-capacity projects. Similarly, the President of NSE agreed with the President of FIDIC Africa on modalities to strengthen engineering consulting both in Nigeria and on the continent of Africa and beyond.



Group Picture.



2026 Conference: Zulum Assures Engineers of Maiduguri's Readiness

In the wake of growing scepticism around the plausibility of hosting the 2026 edition of the International Engineering Conference in Maiduguri, the Executive Governor of Borno State, Engr. Babagana Umara Zulum, FNSE, CON, mni, has assured Nigerian Engineers that everything is being put in place to ensure the safety and comfort of delegates to the conference in December.

Governor Zulum made this assertion during the courtesy visit to the Government House in Maiduguri on Tuesday, by the President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR. The NSE President informed the Governor that the visit was made in the course of undertaking official assignments in the city, which included a tour of the facilities being prepared for the conference. He further informed his host that the recent unfortunate mishaps of bombings and killings in Maiduguri metropolis have escalated the fears of Engineers about their safety when they eventually come for the conference. He commiserated with the Governor on the loss of lives and properties during the incidents.

Engr. Zulum, in his response, allayed the fears expressed by confirming that the security apparatuses in the State are on top of their game in ensuring safety of lives and properties. He agreed that the bombing incidents of March were truly unfortunate, but that they could have happened anywhere else, referencing the recent cases of kidnapping in some southern States of the country. He declared that God is the ultimate guarantor of safety.

On the readiness of the conference facilities, he informed the NSE delegation that he has personally taken charge of supervision of the works on some of the facilities still undergoing construction or upgrade. He further affirmed that he would invite the NSE President to Maiduguri to commission some of the facilities and other engineering infrastructure being undertaken by his administration within the city before October. The Governor also said that in about two months from the date of the meeting, he would have inaugurated a joint working team of top Borno State



(L) President of NSE, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR officially presents the NSE flag which is the symbol of NSE conference hosting right to the Executive Governor of Borno State, Engr. Prof. Umara Zulum, FNSE, CON, mni in Maiduguri.

officials and NSE officials to work together for the overall success of the 2026 International Engineering Conference, Exhibition and Annual General Meeting (AGM).

The President formally presented the Hosting Right flag for the 2026 conference to the Governor.

Earlier, the NSE President and his entourage visited the residence of Alh.(Dr.) Muhammadu Indimi, OFR, to formally present the letter conveying his admission to the Honorary Fellowship cadre of the Society. He also paid a cour-

tesy visit to the Shehu of Borno, His Eminence, Alh. (Dr.) Abubakar ibn Umar Garbail el-Kanemi, CFR, (FNSE), to inform him about the conference and seek his blessings and prayers.

Before leaving Maiduguri, the President took a tour of the International Conference Centre, the proposed venue of the conference which is nearing completion, as well as paid condolence visits to the families of two deceased senior Engineers of the Maiduguri Branch.



Front row - 4th from left, President of NSE, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR flanked by Past President of NSE, Engr. Babagana Mohammed, FNSE (L), Chairman/Founder Orient Energy Resources Ltd, Alh (Dr.) Mohammed Indimi, OFR (L), 2nd from right, Vice President (Membership Services), Engr. Usman Tijjani, FNSE, mni, 3rd from right, Executive Committee Member (Professional Development), Engr. Dayyabu Tijjani, FNSE, 1st from right, Chairman, Board of Fellows, Engr. Kamila Wopa Maliki, FNSE, FAEng, mni, 1st from left, Chairman of NSE Maiduguri Branch, Engr. Muhammad Bashir Shettima, FNSE, 2nd from left, Past President of the Association of Consulting Engineers in Nigeria (ACEN), Engr. Kam-Salem Alhaji Bukar, FNSE. Back row, 3rd from left, Acting Executive Secretary, Abdulkadir A. Aliyu, FNIM, 2nd from right, Chairman of Conference Planning Committee, Engr. Mohammed Kabir Wanori, FNSE, 1st from right, Engr. Aisha Umar, FNSE, 1st from left, Conference Local Organising Chairman, Engr. Mohammed Umaru Watsada, FNSE, 2nd from left Son of the Chairman/Founder Orient Energy Resources Ltd.

Nigerian Engineers Celebrate as NSE President Gives Daughter in Marriage

In a moment of profound joy, dignity and cultural significance, Distinguished Engineers and personalities from across the country gathered in Lafia to honour and celebrate with the President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, F. ASCE, FAEng, MFR on the auspicious occasion of the marriage of his daughter, Fatima Ali Rabi.

The bride was gracefully given in marriage to Abubakar Sadiq Zakari in a series of ceremonies that reflected both the richness of tradition and the solemnity of faith, culminating in their formal union as husband and wife.

The marriage rites commenced on Thursday, April 9, 2026, in Abuja with a dignified dinner held in honour of the couple. This was followed by a warm and convivial barbecue reception in Lafia, setting the stage for the grand Nikkah, the sacred Islamic marriage rite.

The Nikkah ceremony was conducted in the presence of the Emir of Lafia, the Chairman of the Nasarawa State Council of Traditional Rulers, Hon. Justice Siddi Bage, whose royal blessings added solemnity and prestige to the occasion.



From right, President of NSE, Engr. Ali Alimasuya Rabi, FNSE, F. ASCE, FAEng, MFR, Immediate Past President, Engr. Margaret Aina Oguntala, FNSE and Vice President of the Council for the Regulation of Engineering in Nigeria (COREN), Engr. Olaolu Ogunduyile, FNSE, rear - Past President of the Association of Consulting Engineers in Nigeria (ACEN), Engr. Kam-Salem Alhaji Bukar, FNSE.

The event drew an array of eminent Engineers, high-ranking government officials, traditional title holders of the Lafia Emirate and a wide spectrum of well-wishers from across the country.

The large and distinguished attendance was evidence of the respect, admiration and goodwill enjoyed by Engr. Rabi within the engineering community and beyond.

In accordance with Islamic tradition, the union was solemnised with fervent prayers and spiritual exhortations by respected

religious leaders, who invoked divine guidance, enduring peace and abundant prosperity upon the new couple. They further charged the couple to uphold the virtues of faith, mutual respect and service to humanity.

The occasion stood as a celebration of marital union and as a reaffirmation of shared values, cultural heritage and communal solidarity. It was a gathering marked by grace, unity and a collective expression of goodwill befitting of the stature of the host, Engr. Rabi.



2nd right, Engr. Rabi, 1st left, Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE, 1st from right, Engr. Ali and 2nd from left, Engr. Oguntala.

Engineers Celebrate with NSE President on his birthday



4th from left, President of NSE, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR flanked by Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE (L), Past President, Engr. Ademola Isaac Olorunfemi, FNSE, FAEng (R), 1st from left, Past Vice President, Engr. Joseph Adebayo, FNSE, 1st from right, Past Chairman of NSE Giri Branch, Engr. Mohammed Abdulrahman, FNSE, 2nd right, Past Executive Secretary, Engr. Ahmed Khadi Amshi, FNSE, 2nd from left, Member of the Editorial Board of the Nigerian Engineer Magazine, Engr. Bello Gwarzo Abdullahi, FNSE.



Beautiful Moments from the Wedding Ceremony of the NSE President's Daughter



(L) The Emir of Lafia, the Chairman of the Nasarawa State Council of Traditional Rulers, Hon. Justice Siddi Bage, and Former Governor of Nassarawa State, Sen. Tanko Al-Makura.



(R) Acting Executive Secretary of NSE, Abdulkadir A. Aliyu, FNIM, (L), Chairman, Board of Fellows, Engr. Kamila Wopa Maliki, FNSE, FAEng, mni



2nd from right, Engr. Rabi'u, 1st from right, Past President of NSE, Engr. Kashim Ali, FNSE, FAEng, mni, 1st from left, Vice President of COREN, Engr. Olaolu Ogunduyile, FNSE. 2nd left, Registrar of COREN, Engr. Prof. O.A.U. Uche, FNSE.



Engr. Rabi'u pose in a picture with NSE Secretariat Staff.



Middle: Engr. Rabi'u flanked by Engr. Ali (R), Engr. Oguntala (L), 1st from right, President of COREN, Engr. Prof. Sadiq Zubair Abubakar, FNSE, FAEng, 1st from left, Engr. Prof. Uche, and 2nd from left, Engr. Kam-Salem.

NSE President Takes Possession of Mass Housing Certificate of Occupancy (C of O)

The President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR, has officially taken possession of the Certificate of Occupancy (C of O) for the NSE Mass Housing Scheme. The document, duly signed by the Honourable Minister of the Federal Capital Territory Administration (FCTA), was presented by the Chairman of FCT Civil Service Commission, a Past President of NSE, Engr. Emeka Ezech, FNSE, FAEng, OFR on Friday, April 24, 2026, in Abuja.

The President was accompanied by the Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE, Past President, Engr. Tasiu Gidari-Wudil, FNSE, mni, Past Vice President, Engr. Aisha Umar, FNSE and Engr. Bello Gwarzo Abdullahi, FNSE. Receipt of the C of O is a major milestone which marks a step in the realisation of the NSE Mass Housing Scheme, an initiative conceived to provide sustainable, affordable and eco-friendly housing for Engineers and staff of the Society within the Federal Capital Territory.

The concept of the housing scheme dates back to August 17, 2010, when the then Head of Membership Services, Engr.



(M), President of NSE, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR receiving the C of O from Past President of NSE, Engr. Emeka Ezech, FNSE, FAEng while Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE, looks on.

Ovens F. Ehimatie, FNSE proposed the idea under the NSE welfare programme for members to the former Executive Secretary, Engr. Ahmed K. Amshi, FNSE advocating for a structured response to the persistent housing challenges faced by professionals in the Territory.

Engagement with FCDA was commenced immediately it was presented to the President in 2010. A major breakthrough came in 2014 when Engr. Ademola Isaac Olorunfemi, FNSE, FAEng received the Offer of Statutory Right of

Occupancy.

The years 2024–2025 witnessed a renewed and vigorous pursuit of the formalisation of the Mass Housing Scheme land and with the successful acquisition of the Certificate of Occupancy, the NSE is now positioned to proceed to the next phase of development, bringing to fruition a long-standing vision that has spanned over a decade of strategic advocacy, leadership continuity and institutional collaboration.



In this group picture is, 3rd from right, Engr. Rabi, 2nd from left, Engr. Agberagba, 3rd from left, Engr. Ezech, 1st from left, Past President of NSE, Engr. Tasiu Gidari-Wudil, FNSE, mni, 2nd from right, Past Vice President of NSE, Engr. Aisha Umar, FNSE, 1st from right, Member of the Editorial Board of the Nigerian Engineer Magazine, Engr. Bello Gwarzo Abdullahi, FNSE.

YEFoN Holds Maiden Innovation Summit in Abuja

The Young Engineers Forum of Nigeria held its maiden Young Engineers Innovation Summit on Tuesday, 28th July 2026, at the National Engineering Centre, Abuja. The event, organised under the auspices of the Nigerian Society of Engineers, brought together young engineers, industry professionals, government representatives, sponsors, and partners under the theme: Engineering Solutions for Energy Security and Digital Transformation.

The summit was chaired by the 35th President and Chairman-in-Council of the Nigerian Society of Engineers, Engr. Ali Alimusuya Rabi, FNSE, F.ASCE, FAEng, MFR, with His Royalty Engr. Otis Oliver Tabugbo Anyaeji, KtSGG, FNSE, FAEng, serving as Royal Father of the Day. Engr. Usman Tijjani, FNSE, Vice President and Chairman of the Membership Services Board of the NSE, served as Chief Host.

The programme comprised two keynote addresses, three panel discussions, an innovation showcase, a workshop on mentorship and leadership development, and the formal launch of the inaugural YEFoN National Magazine. A Dinner and Gala Night held in the evening concluded the day's activities.

Opening Remarks

Welcoming participants, the National Coordinator of YEFoN, Engr. Ahmed Yusuf, MNSE, MNAEE, described the summit as the culmination of a vision to create a national platform where young engineers could engage with industry leaders, showcase innovative solutions, build strategic partnerships, and contribute meaningfully to national development.

"This summit is not merely an event; it is a movement — a movement dedicated to inspiring innovation, advancing professional excellence and empowering the next generation of engineering leaders."



The National Coordinator of Young Engineers Forum of Nigeria (YEFoN), Engr. Ahmed Yusuf, MNSE

— Engr. Ahmed Yusuf, MNSE, MNAEE — National Coordinator, YEFoN, YEIS 2026

Delivering his opening remarks, the NSE President commended YEFoN for the organisation of the summit and noted that its theme aligned closely with the Society's strategic agenda, particularly in the area of capacity building.

"We have placed special emphasis on the growth and empowerment of our young engineers, because we recognise that the future of the profession rests firmly in their hands."

— Engr. Ali Alimusuya Rabi, FNSE, F.ASCE, FAEng, MFR — NSE President, YEIS 2026

The NSE President also used the occasion to extend a formal invitation to participants to attend the 2026 International Engineering Conference and Annual General Meeting, scheduled for the International Conference Centre, Maiduguri, Borno State, from 30th November to 4th December 2026, under the theme: Engineering Innovation for Enhanced Security and Sustainable National Development. He noted that the conference was expected to attract over 6,000 delegates.

Keynote Addresses

The first keynote was delivered by Rt. Hon. Ekperikpe Ekpo,

Honourable Minister of State for Petroleum Resources with responsibility for Gas, who addressed the engineering dimensions of Nigeria's energy challenge. The second was delivered by Prof. Ibrahim Adepoju Adeyanju, Managing Director and Chief Executive Officer of Galaxy Backbone Limited, on digital infrastructure and smart cities. Engr. Salahudeen M. Tahir, FNSE, Managing Director of NNPC Engineering and Technical Company, NETCO, served as Guest Speaker.

A goodwill message was delivered on behalf of the Honourable Minister of Innovation, Science and Technology, Dr. Kingsley Tochukwu Udeh, SAN, by Engr. Ibiam Oguejiofo, FNSE, National Coordinator of the Strategy Implementation Task Office for Presidential Executive Order No. 5. The message emphasised the relevance of the Nigeria First Policy and Executive Order No. 5 to the professional development of young engineers, and called on young engineers to build Nigerian solutions, develop Nigerian technologies, and compete globally.

"Every inconvenience is an engineering problem waiting for a solution. Every inefficiency is an innovation opportunity. Every imported technology to solve these problems represents a product that Nigerian engineers can one day design and



manufacture locally.”

— *Goodwill Message on behalf of Dr. Kingsley Tochukwu Udeh, SAN — Minister of Innovation, Science and Technology*

Panel Discussions

Three panel discussions formed the substantive core of the summit's programme. The first, moderated by Engr. Jonah Ibiamagabara, MNSE, examined engineering pathways to energy security in Nigeria, with panelists drawn from the oil and gas, power, and renewable energy sectors. The second, moderated by Engr. Adenike S. Ajayi, MNSE, addressed digital infrastructure and smart cities, featuring representatives from Galaxy Backbone, NITDA, NIICTE, and COSTECH.

The third panel, moderated by Engr. Adamu Ibrahim Aliyu, MNSE, discussed the topic: Transforming Challenges into Opportunities — Leveraging Policy, Regulation and Innovation to Unlock Career Pathways for Young Engineers in Nigeria. Panelists included the NSE President, the President of COREN, the Honourable Minister of Innovation, Science and Technology, and a young engineer representative. The session examined the structural barriers facing early-career engineers and the

institutional responses required to address them.

YEFoN National Magazine Launch

One of the notable milestones of the summit was the formal launch of the inaugural edition of the YEFoN National Magazine, the first publication of its kind in the Forum's history. The magazine was launched by Engr. Audu Ibrahim, FNSE, Managing Director of the NNPC Gas Infrastructure Company, NGIC. It contains articles from young engineers, industry professionals, and senior engineering leaders across Nigeria, covering topics in energy, digital transformation, engineering culture, and professional development.

Innovation Showcase and Workshop

An Innovation Showcase held in the afternoon provided young engineers with an opportunity to present practical solutions to real-world challenges, witnessed by representatives of the Federal Ministry of Innovation, Science and Technology. A workshop on Mentorship and Leadership Development was facilitated by Engr. Tasiu Sa'ad Gidari-Wudil, FNSE, mni, a Past President of the Nigerian Society of Engineers. A

session on positioning young engineers for global opportunities was also delivered by Mustapha Sa'eed, Managing Director of Mtellect Limited and a Mastercard Foundation Scholar.

Background

The Young Engineers Forum of Nigeria is the platform of the Nigerian Society of Engineers for students, graduates, and engineers below forty years of age. The 2025–2026 administrative cycle, led by the National Coordinator Engr. Ahmed Yusuf, MNSE, MNAEE, recorded a number of milestones including chapter expansions across the federation, a World Engineering Day essay competition, a national membership awareness webinar, participation in the 34th COREN Assembly, and representation at the 468th NSE Executive Council Meeting in Maiduguri.

YEIS 2026 was the Forum's first national summit and is intended to become an annual event. The second edition is anticipated in 2027.



DSS Backs Maiduguri 2026, Commits Security, Local Content Drive

The Department of State Services (DSS) has thrown its weight behind the Nigerian Society of Engineers' (NSE) 2026 International Engineering Conference, Exhibition and Annual General Meeting, pledging comprehensive security support, stronger collaboration on indigenous technology development and the sponsorship of its Engineers to participate in the landmark event.

The commitment was made by the Director-General of the DSS, Mr. Oluwatosin Adeola Ajayi, MON, during a courtesy visit by the President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR, with members of the Conference Planning Committee (CPC) at the Service Headquarters in Abuja.

The conference, scheduled to hold in Maiduguri, Borno State, from November 30 to December 4, 2026, is themed "Engineering Innovation for Enhanced Security and Sustainable National Development."

Speaking during the meeting, Engr. Rabi, briefed the Director-General on the level of preparations for the conference, including the recent inspection and stakeholder engagement visit to Maiduguri, where the Conference Planning Committee held strategic consultations with the DSS State Command and other security agencies.

He said the assurances received had reinforced the Society's confi-



President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR

dence in Maiduguri's preparedness to host over 6,000 Engineers, policymakers, researchers, industry leaders and development partners expected at the annual gathering.

The President appealed for the continued support of the DSS in intelligence sharing, security advisory services, threat assessment and inter-agency coordination before and throughout the conference. He also invited the Director-General to participate as a Special Guest and encouraged Engineers serving in the DSS to contribute to the conference's technical sessions and exhibition.

Responding, Mr. Ajayi described engineering as a strategic pillar of national security and sustainable development, assuring the Society of the Service's unwavering commitment to the success of the conference.

He disclosed that the DSS would deploy adequate personnel and security assets to safeguard delegates, conference venues, designated accommodation facilities and other critical locations throughout the event.

The Director-General also called for deliberate investment in local engineering capacity, stressing that Nigerian engineers possess the expertise required to execute major national infrastructure projects.

He revealed that the DSS is collaborating with the National Agency for Science and Engineering Infrastructure (NASENI) on the development of high-technology engineering equipment and urged the NSE to identify competent Nigerian engineers for future

collaboration.

In a major boost to the conference, Mr. Ajayi announced that the DSS would sponsor engineers from its National Headquarters and Commands across the federation to participate in Maiduguri 2026.

The meeting concluded with both institutions reaffirming their commitment to deepening collaboration in critical infrastructure protection, engineering innovation, indigenous technology development and national security, underscoring the vital role of engineering in addressing Nigeria's evolving development and security challenges.



Maiduguri 2026 Security Gets Boost as Defence Minister Confirms Keynote Address

Security preparations for the 2026 International Engineering Conference and Annual General Meeting (AGM) of the Nigerian Society of Engineers (NSE), scheduled to hold in Maiduguri, Borno State, have received a significant boost following the confirmation by the Honourable Minister of Defence, General Christopher Gwabin Musa (Rtd.), that he will personally attend the event and deliver the Keynote Address.

The Minister gave his approval on Monday, 27 July 2026, during a courtesy visit by the President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, at the Ministry of Defence in Abuja.

Beyond accepting the invitation to serve as Keynote Speaker, General Musa endorsed the Society's requests aimed at ensuring a safe, successful and impactful conference. He approved the Ministry's support for enhanced security arrangements at the conference venue and the facilitation of the active participation of the Armed Forces of Nigeria, Military Engineers, Defence institutions, and the Defence Industries Association of Nigeria (DIAN) in both the conference and exhibition.

The NSE President also sought the Ministry's assistance with logistics coordination, security guidance, and liaison arrangements to ensure the seamless movement and participation of delegates expected from across Nigeria and beyond.

As part of efforts to institutionalise collaboration between the engineering profession and the defence sector, Engr. Rabi proposed a stronger partnership between the Nigerian Society of Engineers and the Ministry of Defence in strategic areas including engineering standards for defence infrastructure, joint research and



President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR

indigenous technology development, defence industry-academia collaboration, and engineering support for emergency response, post-conflict reconstruction, and national resilience.

He further appealed for the restoration of the Nigerian Society of Engineers' dedicated participation slot in the Nigerian Defence College Course, noting that such engagement would strengthen Engineers' appreciation of stra-

tegic defence, national security, and civil-military cooperation while promoting greater synergy between the engineering profession and the nation's security institutions.

Responding, General Musa commended Engr. Rabi for the remarkable achievements recorded since assuming office describing the Society's current leadership as purposeful and forward-looking.

The Minister assured the NSE of the Ministry's full support



(R) President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, speaking, while (L) Honourable Minister of Defence, Gen. Christopher Gwabin Musa, OFR, listens.

towards the successful hosting of the 2026 International Engineering Conference and AGM. He acknowledged the indispensable role of Engineers in defence infrastructure, military logistics, combat support systems, technological innovation, and national security, stressing that engineering solutions remain fundamental to the operational effectiveness and modernisation of the Armed Forces of Nigeria.

General Musa expressed confidence that a deeper and more structured partnership between the Ministry of Defence and the Nigerian Society of Engineers would further strengthen Nigeria's indigenous defence capabilities, technological advancement, and national resilience. He also assured the Society that its request for renewed participation in the Nigerian Defence College Course would receive favourable consideration.



Past Presidents, Engr. Kashim Ali, FNSE, FAEng, Engr. Tasiu Gidari-Wudil, FNSE, mni, Exco Members, Engr. Dauda Musa, FNSE and Engr. Dayyabu Tijjani, FNSE, Conference Planning Committee Chairman,

Engr. Mohammed Kabir Wanori, FNSE, Alt. Conference Planning Chairman, Engr. Ademola Agoro, FNSE formed the team that paid the courtesy call with the President.





NSE Applauds NOC, Kenol for Backing National Engineering Games

The President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR, has commended the Nigeria Olympic Committee (NOC) and Kenol Nigeria Limited for their contributions to the successful hosting of the 2026 National Engineering Games, while calling on the diplomatic community to partner with the Society in expanding the event in future editions.

Speaking at the opening ceremony of the 2026 National Engineering Games on Saturday, July 11, 2026, in Abuja, the NSE President said greater collaboration from diplomatic missions and development partners would further strengthen the Games' role in building friendship, healthy competition and international goodwill.

Engr. Rabi, represented by the Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE, said the invitation to the diplomatic community aligns with one of the core objectives of the National Engineering Games which is to build friendships that promote global peace through sports.

Reflecting on the history of the Games, the NSE President recalled that the National Engineering Games was established in 2011 to promote the physical, mental and social wellbeing of Engineers while strengthening friendship, teamwork and camaraderie among members of the Society.

"I would like to emphasise that we have diligently stayed true to the original purpose of this noble initiative. When we launched this programme in 2011, it was with the intent to give our Engineers, who work tirelessly across all sectors of the economy, a well-deserved opportunity to take a break from their demanding schedules, engage in physical activity and



The President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, F.ASCE, FAEng, MFR flanked by Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE (R) and Immediate Past President of NSE, Engr. Margaret Aina Oguntala, FNSE (L).

promote overall fitness and wellness," he said.

According to him, while the Games provide a platform for healthy competition, they also reinforce the values of discipline, resilience, teamwork and excellence that define the engineering profession.

The President further observed that engineering professionals, who are at the forefront of delivering critical infrastructure and technological solutions for national development, require opportunities to relax, rejuvenate and interact outside the workplace. He described the National Engineering Games as an important platform



Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE

for achieving those objectives.

He urged participants to compete with integrity, uphold the highest standards of discipline and fair play, and take advantage of the Games to build lasting friendships and professional networks that would contribute to the continued growth and advancement of the engineering profession in Nigeria.

The Chairman of the Nigerian Engineering Games Committee, Engr. Giandomenico Massari, JP, DSSRS, FNSE, thanked the President for support to the Committee which enabled it to host the event this year.

The 2026 Games commenced with the Habu Gumel Olympic

Marathon, organised in honour of Past President of NSE, Engr. Habu Ahmed Gumel, FNSE, FAEng, OON, who currently serves as

President of the Nigeria Olympic Committee.



The President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR in Table Tennis match with the Deputy President of NSE, Engr. Valerie Ifueko Agberagba, FNSE.



Group photograph after the presentation of prizes to winners in the various categories of the marathon race.



NSE President Secures Commitment of the IGP to Attend Maiduguri 2026 Conference

The President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, has secured the commitment of the Inspector-General of Police (IGP), Mr. Olatunji Rilwan Disu, to attend the opening ceremony of the forthcoming International Engineering Conference and Annual General Meeting scheduled to hold in Maiduguri.

The IGP is expected to grace the occasion as Guest of Honour and deliver an address at the opening ceremony.

Engr. Rabi, who visited the IGP in Abuja on Wednesday, July 28, 2026, made several requests to the Police Chief in support of the conference. These included a request for his presence at the opening ceremony, sponsorship of some components of the conference and sponsorship of Engineers serving in the Nigeria Police Force to attend the event.

The NSE President also sought the goodwill of the IGP in drafting officers and personnel of the Nigeria Police Force to provide adequate security for a successful conference. In addition, he requested the



President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR

elevation of NSE members in the Force who have attained the Society's Fellowship cadre.

Responding, Mr. Disu accepted the proposals and acknowledged the critical role of engineering and the NSE in the daily survival and development of the country.

He encouraged the NSE President to continue to keep him, as well as the Commissioner of Police in charge of Borno State Command, abreast of developments and areas

where their intervention would be required.

The IGP further directed the Deputy Inspector General of Police in charge of Administration to look into the NSE's request concerning officers who are Fellows of the Society.

Mr. Disu also requested the NSE President to consider including police engineers in the Society's capacity-building programmes.



4th from left, President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, 5th from left, Inspector General of Police, Mr. Olatunji Rilwan Disu, flanked by Senior Police Officers.

34th Engineering Assembly of the Council for the Regulation of Engineering in Nigeria (COREN)



President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, exchanging pleasantries with the Chairman of All Progressives Congress (APC), Engr. Prof. Nentawe Goshwe Yilwatda, MNSE.



President of the Nigerian Society of Engineers, Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, exchanging pleasantries with the Honourable Minister of Works, Engr. Dave Umahi, FNSE.



The President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, in a warm handshake with Engr. Sen. Iyiola Omisore, FNSE, FAEng, while Engr. Sen. Gbenga Daniel, FNSE, FAEng, looks on.



3rd from right, President of the Nigerian Society of Engineers (NSE), Engr. Ali Alimasuya Rabi, FNSE, FASCE, FAEng, MFR, amidst Dignitaries.



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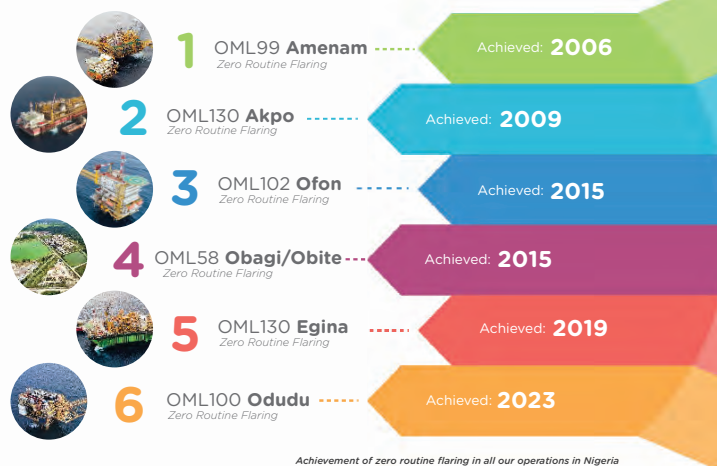
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The Nigerian Society of Engineers
Announces its

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Maiduguri 2026

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