

SAMPSON IKECHUKWU EWUZIE

Electrical Engineer | Energy Market & DER Specialist

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PROFESSIONAL SUMMARY

Results-driven Electrical Engineer and Energy Market Specialist with over 11 years of progressive experience in Nigeria's electricity distribution sector. Skilled in energy analytics, financial modelling, GIS-based project assessment, and market settlement frameworks. Possesses deep understanding of NERC's Mini-Grid, Embedded Generation, and IEDN regulations, as well as practical experience with MYTO tariff models and electricity market design. Currently serving as Ag. Energy Manager – Market Settlement and Reconciliation (AEDC), driving digital transformation, data governance, and reconciliation of ₦37bn+ monthly settlements. Passionate about advancing AEDC's Distributed Energy Resources (DER) initiatives through data-driven planning, regulatory insight, and financial acumen to enhance grid reliability and sustainability.

KEY COMPETENCIES

- Distributed Energy Resources (DER) Planning & Implementation
- Mini-Grid, Embedded Generation & IEDN Regulatory Frameworks
- Electricity Market Settlement & Financial Reconciliation
- Financial Modelling, Valuation & Tariff Analysis (MYTO Framework)
- GIS Mapping (QGIS, ArcGIS) & Python for Energy Analytics
- Project Management & Stakeholder Engagement
- Energy Auditing & AT&C Loss Reduction Strategies
- Energy Trade Flow Automation & Data Integrity Systems
- Developer Evaluation & Procurement Support

PROFESSIONAL EXPERIENCE

Abuja Electricity Distribution Plc (AEDC) – Abuja

- Energy Market & Projects Leadership Roles (Oct 2022 – Present)
- Ag. Energy Manager – Market Settlement & Reconciliation (Nov 2024 – Present)
- Designed and implemented an energy market settlement framework, uncovering over ₦1.5 billion in billing errors and strengthening data transparency.
- Managed reconciliation of NBET market invoices and embedded generation settlements, improving financial discipline across business units.

- Supported automation of the Energy Trade Flow System, enhancing operational visibility and integrity.
- Assistant Manager – MD Business Taskforce (Feb 2024 – Nov 2024)
- Led digitization of revenue protection operations through a new Revenue Protection Module in the AEDC Workforce App.
- Developed energy recovery algorithms that improved field efficiency by 10% and reduced costs by 15%.
- Recovered over ₦200 million through strategic loss-prevention and data-driven interventions.
- Assistant Manager – Projects & Escalations (Oct 2022 – Feb 2024)
- Coordinated cross-functional investigations on energy theft and non-technical losses.
- Achieved a 10% monthly reduction in electricity losses through structured audits and field supervision.
- Revenue Protection Supervisor (Apr 2016 – Sep 2022)
- Conducted GIS-enabled feeder audits, recovering over ₦600 million in lost revenue.
- Trained 1,000+ technical staff on advanced metering, infraction handling, and audit protocols.
- Worked closely with Legal and Business Units to enforce regulatory compliance and customer accountability.

Aurecon Consulting, Abuja (Contract) – Energy Auditor (Jul 2014 – Mar 2016)

- Performed comprehensive energy audits for public and private sector clients, identifying over 20% savings potential.
- Designed Excel-based monitoring tools to track audit outcomes and project implementation.
- Delivered actionable reports that improved energy efficiency and reduced operating costs.

Realistic Solutions (MDGs Project Volunteer) – Electrical Technician (2012 – 2013)

- Installed and maintained electrical infrastructure for rural electrification projects under the Millennium Development Goals.
- Gained practical experience in community-scale renewable energy deployment and field operations.

CERTIFICATIONS

- NERC Training on MYTO Model and Electricity Tariffs and Rates Design
- GIS Master Class for Renewable Energy Applications, Centre for Renewable Energy Research

- Large-Scale Photovoltaic Power Station Project Development, China Renewable Energy Engineering Institute (CREEI) in partnership with African Energy Commission (AU)
- Financial Modelling & Valuation, Udemy
- Applied Data Science, WorldQuant University
- COREN Certified Engineer
- Project Management, Simplilearn

EDUCATION

- Master of Engineering (M.Eng), Electrical/Electronic Engineering (In View) – Nile University of Nigeria, Abuja
- Advanced Diploma in Business Administration (2022) – Tekedia Institute, USA
- Bachelor of Engineering (B.Eng), Electrical/Electronic Engineering (2011) – Federal University of Technology, Owerri

PROFESSIONAL AFFILIATIONS

- Member, Nigerian Society of Engineers (NSE) –
- Secretary, Power Distribution Working Group, Chartered Institute of Power Engineers (CIPEN)