

SWITCHNET ENGINEERING TECHNOLOGY

Company Profile |

Incorporated 2025 | Headquarters: Abuja, Nigeria

Company Overview

Switchnet Engineering Technology is a multidisciplinary engineering and contracting company established in 2025 and headquartered in Abuja. Under the leadership of **Lawan Aliyu**, we deliver end-to-end solutions across **Civil Engineering, Electrical Engineering, Renewable Energy, Oil & Gas, ICT, and General Contracts**. Our teams blend engineering depth with practical execution, serving public institutions, private developers, utilities, and industrial clients across Nigeria.

We plan, design, build, operate, and maintain projects with a clear focus on quality, cost control, safety, and timely delivery.

Leadership

Lawan Aliyu, Chief Executive Officer

Aliyu Usman provides strategic direction, stakeholder engagement, and oversight of service excellence. He champions rigorous project governance, talent development, and long-term partnerships that support national infrastructure growth.

Abubakar Ismail, Head of Business Operations

Abubakar Ismail leads the company's business operations with a focus on efficiency, resource optimization, and service delivery. He coordinates cross-departmental activities, ensures compliance with operational standards, and oversees client relations, procurement, and project support functions. His role strengthens Switchnet's ability to execute complex projects while maintaining consistency, transparency, and accountability.

Vision, Mission, and Values

- ❖ **Vision:** To be a trusted Nigerian engineering partner known for reliable delivery and measurable impact on communities and industry.
- ❖ **Mission:** Provide integrated engineering and contracting services that meet client goals for quality, budget, schedule, and safety, while advancing local capacity.
- ❖ **Values:** Professionalism, integrity, safety, innovation, accountability, and community stewardship.

Compliance and Industry Standards

Switchnet operates in line with Nigerian laws and sector regulations. We work within standards set or overseen by bodies such as **COREN**, **NSE**, **NERC/NEMSA** for electrical works, and **NUPRC/NMDPRA** for oil and gas operations. Our management systems align with **ISO 9001 (Quality)**, **ISO 14001 (Environment)**, and **ISO 45001 (Occupational Health & Safety)** principles.

Core Business Sectors

1) Civil Engineering

We deliver civil works from feasibility through handover and maintenance.

Key Services

- **Mass Housing and Estates:** Site acquisition support, master planning, detailed design, roads and drainage, water and wastewater reticulation, power distribution, and full EPC for housing developments.
- **Individual and Premium Housing:** Architectural coordination, structural design, MEP integration, smart home provisioning, finishing, and warranty support.
- **Transport Infrastructure:** Urban and rural roads, asphalt paving, concrete pavements, culverts, minor bridges, roundabouts, bus lay-bys, and traffic safety features.
- **Water and Sanitation:** Boreholes and small treatment plants, elevated/ground water tanks, reticulation networks, stormwater systems, and flood control works.
- **Public Buildings:** Schools, clinics, markets, office complexes, and mixed-use facilities including accessibility and fire-life-safety compliance.
- **Industrial Platforms:** Factory pads, warehouses, perimeter and security works, internal roads, loading bays, and utility corridors.
- **Urban Infrastructure:** Street lighting, walkways, landscaping, median improvements, and city furniture.

Capabilities

- ✓ Topographical and geotechnical investigations
 - ✓ Structural and infrastructure design, BIM coordination
 - ✓ Materials testing and quality control labs
 - ✓ Turnkey EPC delivery and facility maintenance
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2) Electrical Engineering

We support reliable power from medium

voltage infrastructure to customer connections.

Key Services

- **Solar-Grid and Hybrid Plants:** Design and EPC for solar farms and hybrid systems with battery storage and grid integration.
- **Substations and Transformers:** Supply, installation, testing, commissioning, and maintenance of distribution transformers and compact substations.
- **Distribution Networks:** 11 kV/33 kV lines, switchgear, reclosers, sectionalizers, ring-main units, and underground cabling.
- **Rural Electrification:** Mini-grids, feeder extensions, and last-mile connections in partnership with public programs and communities.
- **Commercial and Industrial Power:** Power factor correction, harmonics mitigation, generator integration, ATS/AMF panels, and energy efficiency upgrades.
- **Metering and Automation:** AMI/AMR metering, SCADA integration, protection coordination, and remote monitoring.
- **Maintenance Services:** Preventive maintenance programs, condition assessment, oil testing for transformers, thermography, and rapid response repairs.

Standards and Tools

- ✓ Designs aligned with NEMSA and utility codes
 - ✓ Load flow, short-circuit, and protection studies
 - ✓ SCADA/PLC integration and commissioning test protocols
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3) Renewable Energy

We build dependable clean-energy assets tailored to Nigerian conditions.

Solutions

- **Solar PV Plants:** Ground-mount and rooftop systems from 50 kW to multi-MW, with string or central inverters.
 - **Mini-Grids and C&I Systems:** Rural mini-grids, captive power for estates, factories, hospitals, and schools.
 - **Hybrid and Storage:** Solar-diesel/battery hybrids, BESS sizing, microgrid controllers, and demand-side optimization.
 - **O&M Services:** Performance monitoring, IV curve testing, preventive maintenance, spare-parts programs, and service-level reporting.
 - **Energy Audits and Advisory:** Site assessments, financial modeling, grid-tie studies, and carbon accounting support.
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4) Oil & Gas

We support upstream, midstream, and downstream clients through safe, compliant services.

Service Lines

- **Pipeline and Facilities:** Flowlines, pipeline repairs, cathodic protection, pigging coordination, and small-to-medium process skids.
 - **Electrical & Instrumentation:** Cable trays, MV/LV power, lighting, earthing, field instrumentation, loop checks, FAT/SAT.
 - **Civil Works for Oil & Gas:** Well pads, access roads, bund walls, foundations, and drainage.
 - **Tank Farms and Terminals:** Mechanical works, fire protection systems, metering skids, custody transfer points.
 - **Operations Support:** Shutdowns and turnarounds, maintenance campaigns, materials procurement, and logistics.
 - **HSE and Compliance:** Work planning aligned with client HSE cases, PTW systems, and Nigerian Content development goals.
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5) Information & Communication Technology (ICT)

We design and implement digital infrastructure that supports modern operations.

Offerings

- **Network Infrastructure:** Structured cabling, fiber backbone, wireless backhaul, campus networks, and secure LAN/WAN.
 - **Data Center and Cloud:** Server rooms, power and cooling, virtualization, backup and disaster recovery planning.
 - **Cybersecurity:** Perimeter and endpoint security, identity management, security monitoring, and incident response playbooks.
 - **Software and Systems Integration:** Business applications, ERP/CRM implementation support, API integration, and custom dashboards.
 - **IoT and Smart Solutions:** Smart metering, building management systems, energy monitoring, and asset tracking for estates and industrial sites.
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6) General Contracts

We manage diverse projects and supplies with transparent procurement and tight controls.

Scope

- **Turnkey Project Delivery:** From design coordination and approvals to construction, commissioning, and handover.
 - **Procurement and Supply:** Sourcing of technical equipment, materials, and spares with documentation and warranty management.
 - **Facilities Management:** MEP maintenance, grounds and utilities, SLAs, and help-desk reporting.
 - **Logistics and Support:** Warehousing, transport, and last-mile delivery to project sites nationwide.
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Project Delivery Approach

- ❖ **Project Management:** PMBOK-based methodology with clear Work Breakdown Structures, schedules, risk registers, and change control.
- ❖ **Quality Assurance:** Inspection and Test Plans, material traceability, site diaries, and close-out dossiers.
- ❖ **Cost and Schedule Control:** Baseline budgeting, earned value tracking, and progress reporting.
- ❖ **HSE:** Job hazard analysis, toolbox talks, incident reporting, emergency response plans, and continuous training.
- ❖ **Community Relations:** Stakeholder mapping, local hiring targets where feasible, and responsible engagement in host communities.

Tools, Plant, and Technology

- ✓ Survey, geotech, and materials testing equipment
- ✓ Earthmoving and compaction plant, formwork systems, and concreting tools
- ✓ MV/LV test kits, relay testers, insulation resistance and earth testers, power analyzers
- ✓ Solar commissioning tools, IV curve tracers, thermal imagers
- ✓ Design and coordination software: CAD/BIM, power systems analysis, and scheduling tools

Clients and Sectors Served

- ❖ **Public Sector:** Federal, state, and local agencies, utilities, education and health institutions
- ❖ **Private Sector:** Real estate developers, manufacturers, oil and gas operators, commercial estates, banks, and data-driven enterprises
- ❖ **Development Programs:** Electrification and infrastructure initiatives with DFIs and NGOs

Corporate Governance

- ✓ Board oversight with independent advisory input
- ✓ Internal audit and compliance reviews
- ✓ Transparent procurement and vendor management
- ✓ Data protection and information security policies

Sustainability and CSR

- Efficient designs that reduce lifecycle costs and environmental impact
- Waste management and pollution prevention on sites
- Skills transfer through apprenticeships and technical training
- Community projects focused on water, education, and safety

Geographic Coverage

From our Abuja headquarters, we mobilize nationwide with field teams and partner yards, supporting projects across all geopolitical zones. We also explore opportunities within the ECOWAS sub-region.

Contact

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