



Company Profile July 2024
Executive Summary

ABOUT US

Afrienerco Limited has established herself as the primary renewable energy services provider to a broad array of clients across the Industry.

From conceptual power system studies, power audits, to EPC works thru to "Operations and Maintenance" services, Afrienerco Limited can leverage our vast technical expertise, equipment vendor networks and extensive engineering capacity/resources to complete your projects safely, cost- effectively, within schedule and to required engineering specifications

With a "field tested" team extensively supported by experienced Project Engineers, Design Engineers and Project Managers we are well positioned to provide effective Products & Services that support your core business objectives.!!

Our core service areas include

- ✓ *Engineering-Procurement-Construction of Solar Powered Renewable Energy Systems.*
- ✓ *Installation/Commissioning of associated sub-stations and control panels.*
- ✓ *Installation of Power Monitoring & Control SCADA Systems.*
- ✓ *Construction, Project Management and Outsourcing Services*
- ✓ *Operations and Maintenance Services for Solar Power Plants*

This document has been developed to provide an overview of our Services, Company Structure and a Selection of completed project history; for more detailed information kindly visit our portal at
www.afrienercoengineering.com



Signed: Shola Daley
MD Afrienerco Ltd.

OUR VISION

"Building a partnership" with our customers, creating long term relationships that provide "win- win" solutions and services for our clients across the African continent.

OUR MISSION

To provide engineering and technical solutions that are responsive to our clients' needs in an innovative, cost effective, professional, and qualitative manner.

OUR VALUES

Safety... ..

At Afrienerco Engineering, safety is our primary focus. Audits are performed on a regular basis and every employee completes a safety training program. Our track record is something we take seriously every day.

Quality... ..

Every project Afrienerco Engineering undertakes is completed by our team of highly skilled engineers & technicians with the best equipment and knowledge available. We strive to exceed our customers' expectations and appreciate their repeat business and referrals.

Customer Service... ..

Our customers are critical to us, from implementation to conclusion, we will work alongside our customers to ensure that their vision is being delivered by our team.

Teamwork... ..

Our team consists of an array of professionally licensed and registered electricians, skilled project managers, multidiscipline engineers and multiple support contract staff. We are qualified and equipped to handle the challenges and complexities of any size job.

S/#	PROJECT DESCRIPTION	SCOPE	CLIENT	VALUE (Naira)	COMPLETED
1	University of Calaba 8.2MWp Hybrid Solar Plant	Installation & Commissioning : ➤ 4MWh LiFePo4 Smart Energy Storage System ➤ 5 x 3MVA + 3 x 2MVA STS (smart transformer station) ➤ 3 x 11KV Sub-Stations ➤ 35 x 200KW String-Inverter ➤ 8.2MWp Smart Solar Array ➤ Balance of Plant	REA*/World-Bank & Dongang Electrical China /University of Calaba	72,000,000	Nov 2024
2	Michael Opara University of Agriculture, Abia 3.3MWp Hybrid Solar Plant	Installation & Commissioning : ➤ 2.8MWh LiFePo4 Smart Energy Storage System ➤ 2 x 1.5MVA + 1 x 2MVA STS (smart transformer station) ➤ 1 x 11KV Sub-Stations ➤ 18 x 185KW String-Inverter ➤ 3.3MWp Smart Solar Array ➤ Balance of Plant	REA/World-Bank & ZNShine Solar / Michael Opara University of Agriculture	64,000,000	June 2024
3	University of Maiduguri LED Smart Street-Lighting System	Installation & Commissioning : 460 Units of "Smart LED Street Lighting System" including associated civil and mechanical works, remote monitoring systems and system maintenance	REA/ MCC China University of Maiduguri	427,000,000	September 2024
4	University of Maiduguri Internal 11KV Distribution Network Upgrade	Installation & Commissioning : Reinforced Concrete Poles, 11KV HV Pole insulation fittings, Stay-Wire assemblies, Over Aluminum Conductor Cable, Up-riser and down feeder XLPE cables Length of Internal Feeder 2KM	REA/ MCC China University of Maiduguri	142,000,000	August 2024
5	University of Maiduguri External 11KV Distribution Network Upgrade	Installation & Commissioning : Reinforced Concrete Poles, 11KV HV Pole insulation fittings, Stay-Wire assemblies, Over Aluminum Conductor Cable, Up-riser and down feeder XLPE cables Length of Internal Feeder 4KM	REA/ MCC China University of Maiduguri	265,000,000	October 2024
6	Michael Opara University of Agriculture, Abia External 11KV Distribution Network Upgrade	Installation & Commissioning : Reinforced Concrete Poles, 11KV HV Pole insulation fittings, Stay-Wire assemblies, Over Aluminum Conductor Cable, Up-riser and down feeder XLPE cables Length of External Feeder 19KM	REA/World-Bank & ZNShine Solar / Michael Opara University of Agriculture	325,000,000	December 2024

7	University of Calaba External 11KV Distribution Network Upgrade	Installation & Commissioning : Reinforced Concrete Poles, 11KV HV Pole insulation fittings, Stay- Wire assemblies, Over Aluminum Conductor Cable, Up-riser and down feeder XLPE cables Length of Internal Feeder 6KM	REA*/World-Bank & Dongang Electrical China /University of Calaba	265,000,000	October 2024
8	Alex Ekueme University Abakaliki, Ebonyi State 1.1MWp	Installation & Commissioning : ➤ 2.8MWh Lead-Acid Energy Storage System ➤ 1MW PCS Panel ➤ 1MW Inverter Panel ➤ 3 x 1.5MVA Transformer Units ➤ 1.1MWp Solar Array System ➤ Balance of Plant	REA/Sterling and Wilson/Alex Ekueme University	64,000,000	Sept 2019
9	Usman Dam Water Treatment Plant, Ushafa , FCT Abuja	Installation & Commissioning : ➤ 1MW Inverter Panel ➤ 1 x 1.5MVA Transformer Unit ➤ 1.1MWp Solar Array System ➤ Balance of Plant	JICA/Hitachi Plant Equipment Japan/FCT Abuja	112,000,000	Jan 2017

REA**(Rural Electrification Agency) JICA(Japanese international Cooperation Agency)

WHAT WE DO:

➤ **Conceptual to Engineering, Procurement Construction and O&M of Renewable Plants**

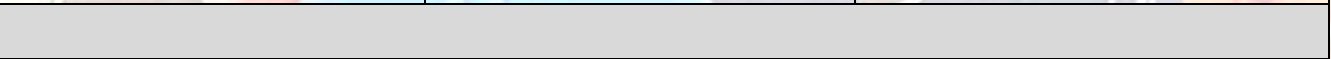
Over 120 projects nationwide with over 50 MW of solar power facilities designed ,
procured and Installed the Afrienerco -IPgrupp consortium is at the forefront of the
rapidly growing solar industry , considered a leading EPC and O&M firm in the
renewable energy market in Nigeria providing quality design, construction and
maintenance services

we have delivered critical Solar Energy projects nationwide from rural villages in Sokoto, Kaduna, Abakaliki, Abia Ife thru to Lagos! with no limitations or restrictions to "when and where" we are prepared to work within the country.

➤ **Installation Commissioning of ancillary Solar Plant Sub-Stations and Load Centres**

With over 20MW ancillary transmission and distribution sub-stations erections and commissioning to our credit the Afrienerco -IPgrupp consortium is an industrial leader nationwide in the Engineering Procurement and Construction thru to O&M of Solar Power Plant "Integrated Low Voltage and High Voltage Substation and Load Distribution Centres"

In 2015 the Afrienerco -IPgrupp Consortium was the primary local contractor that supported the Hitachi Plant Company in the installation and commissioning of the first and only "grid-tied" (at 11KV) 1.6MW Solar Energy Plant at the "Usman-Dam" industrial water supply plant for the FCT, Abuja. In 2018 Afrienerco -IPgrupp Consortium was the primary local contractor that supported the Sterling & Wilson EPC team on the 3MW solar plant at "FUNAI" a university in Ebonyi State.





We have Engineered-Procured-And Erected over 45WMP of Solar Plants Nationwide

➤ **Installation Commissioning of ancillary Solar Plant Sub-Stations and Load Centres**

With over 20MW ancillary transmission and distribution sub-stations erections and commissioning to our credit the Afrienerco -IPgrupp consortium is an industrial leader nationwide in the Engineering Procurement and Construction thru to O&M of Solar Power Plant "Integrated Low Voltage and High Voltage Substation and Load Distribution Centres"

In 2015 the Afrienerco -IPgrupp Consortium was the primary local contractor that supported the Hitachi Plant Company in the installation and commissioning of the first and only "grid-tied" (at 11KV) 1.6MW Solar Energy Plant at the "Usman-Dam" industrial water supply plant for the FCT, Abuja. In 2018 Afrienerco -IPgrupp

Consortium was the primary local contractor that supported the Sterling & Wilson EPC team on the 3MW solar plant at "FUNAI" a university in Ebonyi State.



Over 24MW ancillary transmission and distribution sub-stations erections and commissioning

➤ Operation and Maintenance for Solar Plant and Sub-Stations

Afrienerco Engineering can provide reliable Maintenance and Operation services of your Solar Power Plants, competency and continuous personnel training ensure we continue to sustain our track record of very low SAIDI's and SAIFI's as such guarantee maximum "Plant Up-time" service's to the benefit of our clients.

Afrienerco Engineering Services

- Plant Monitoring and Proactive Intervention
- Development and implementation of Preventive Maintenance Programs

- Timely plant equipment repairs and replacement
- Provide effective equipment spares stock control and procurement







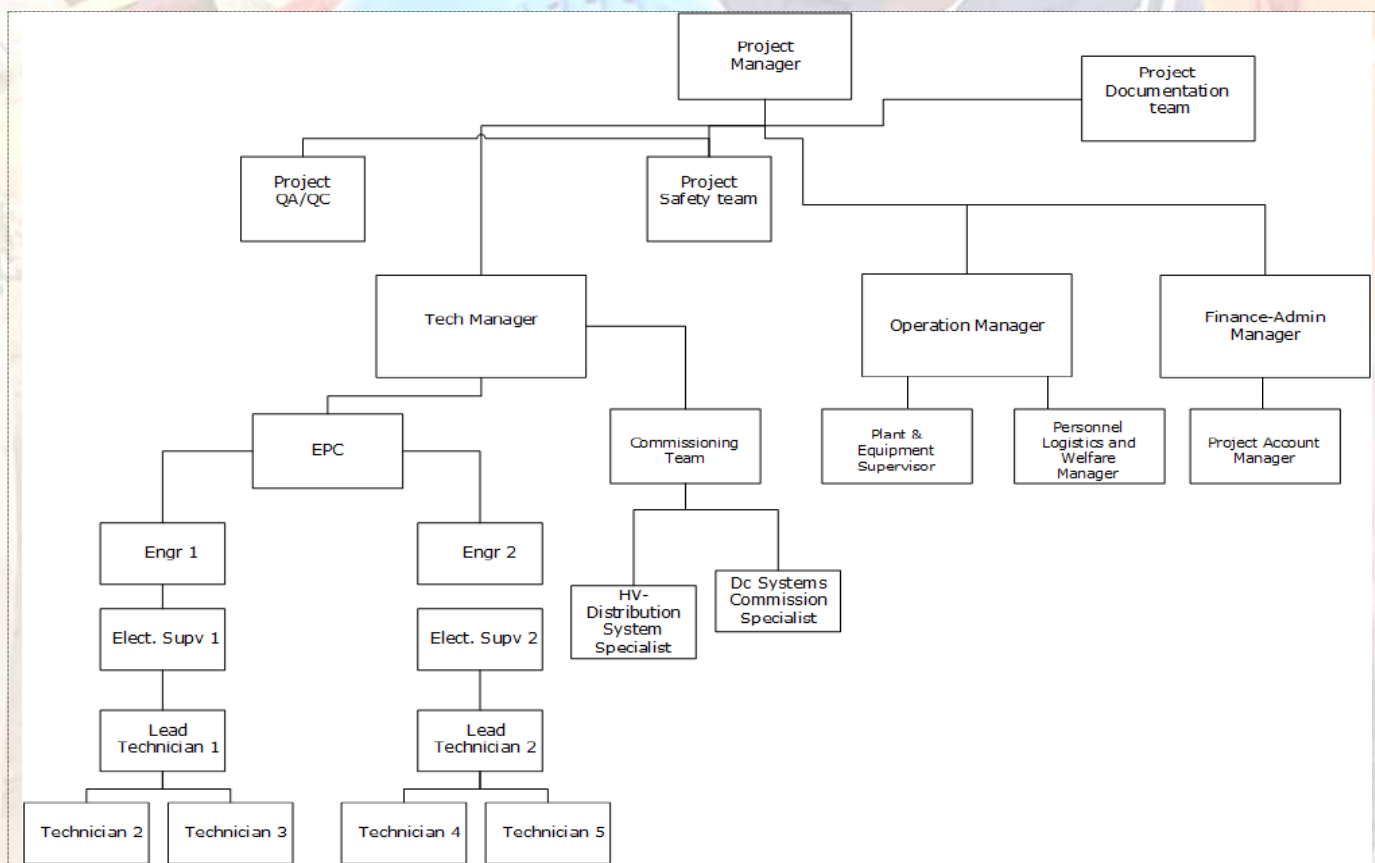
OUR CAPACITY:

➤ **Technical Personnel resources we bring to your projects**

The combined years of relevant technical experience our personnel can deploy to your projects is vast with some of our personnel site experience in excess of 25yrs!! While the majority have been deploying power/renewable energy projects for at least 5yrs!

With a continuous personnel training and re-skilling program in place the Ipgrupp-Afrienerco consortium can resource your projects with some of the best hands and minds in the industry

Please see company organization below:



➤ **Technical Personnel resources we bring to your projects**

We take pride in the skill and "attention to detail" that our team bring to your work, from the young eager trainee technician to the experienced supervising engineers thru to the project managers our staff have been selected-trained and motivated to bring huge competency and quality to your project and ensure timely, qualitative and within budget delivery to you satisfaction.



➤ **Construction Equipment resources we can bring to your projects**

From Mobile Truck-Cranes, to fork-lifts thru to personnel/equipment transport trucks Afrienerco is your "one-stop shop" for those critical construction equipment and tools that ensure your project is timely and qualitatively driven into success!!.

What-ever equipment we don't have in our yard/site we can source from our numerous partners and suppliers across the nation.



Renewable Energy & Electrical System Capacity Development – Training Workshops



Afrienerco Engineering in collaboration with our partners Faraday Electrical UK and African Energy Texas USA, we can provide extensive engineering training and re-training services customized to the Renewable(Solar) energy and Oil & Gas and Power Sub-sector resource requirements

Our training modules have been developed to ensure emphasis on primary skills required for electrical/Instrument engineers are at

once valuable to ongoing projects.

Facilitated by practicing extensively knowledgeable engineers in small class sizes our courses offer a fast track approach option of equipping engineers with employable skills and tools as required by this industry.

What you can learn from our training modules

- Fundamental of Electrical Systems Studies
Advanced Power Distribution System Design
- Design of Solar Energy Powered Plants
- SCADA systems for Power Plants
- Uninterruptible power supplies
- SCADA, DCS and PLC systems □
Fundamentals of Process Control
Instrumentation
- Project Management in Power Plant Projects





Continuing to provide high-quality services to our customers well into the 21st century will be both complex and challenging. It requires the application of practical knowledge and experience integrated with a structured and disciplined management approach.

AFRIENERCO. recognizes the crucial role that “Power systems design and Implementation” and related technology will play in the operations of many businesses as such our company will continue to strive so as to evolve into the service company of choice for the industry.

Further details and “On-line” customized quotes for our various services please visit:
www.Afrienercoengineering.com

A selection of our Clientele

- Shell Petroleum Dev Coy • American International School
- SIEMENS Electronic Security Systems South Africa
- OUTSOURCING Services Limited South Africa
- AmazonEnergy Services Limited, Nigeria • WH Linder Consulting Engineers, Houston
- Central Bank of Nigeria - Training School • United Bank for Africa
- ACCENTURE Consulting Nigeria Limited
- MULTICHOICE Africa
- Transmission Broadcasting Engineering(pty) Ltd South Africa
- ATLAS International Engineering
- Communications Trends Limited • ExxonMobil Producing Unlimited

- GRANGE International School
- African Leadership Forum Sango Otta
- CRITICAL RESCUE INTERNATIONAL
- Chevron-Texaco Nigeria Limited
- Cool FM 96.9
- The BELLS International School Sango Otta
- Impulse Technology Limited
- Flour Mills Nigeria Limited
- Imo Hill Farms
- PW Construction
- Nigerian Ports Authority
- UAC Nig Plc
- UPDC Nig Plc
- AKLAB EPC Contractors
- DOREN Specialist Hospital Ajah Roundabout
- Sokoto State Government
- Ministry of Works, Power & Housing FCT Abuja
- Sternling & Wilson Global EPC India
- DELTA Power System India
- Nissen Energy Solutions Japan
- NNPD
- Rural Electrification Agency, Nigeria
- Abubakar Tafawa Balewa University, Bauchi

Partners

- | | |
|---------------------------------------|-------------------------------|
| 1. Amazon Energy Services Limited | 2. NEGO Construction Services |
| 3. Faraday Electrical Services UK | 4. Advanced Testing Inc. |
| 5. Coordinated Power Engineering Inc. | 6. Gaflab Technical Services |
| 7. HITACHI Plant Company Japan | 8. G.E. Power Systems |
| 9. CivilForte Construction Services | 10. ABB India |
| 11. Ipgrupp Engineering Services | 12. Schneider Electric |