



**SDEM
ERECTORS
NIGERIA**

OIL & GAS SECTOR

PROFILE





ABOUT US



**SDEM
ERECTORS
NIGERIA**

SDEM Erectors Nigeria Limited (SDEM) is an energy, industrial and infrastructure construction company specializing in electro-mechanical services, civil and structural construction, steel fabrication, steel structures and industrial equipment erection, operations and maintenance of industrial and energy plants.

ABOUT US

SDEM ERECTORS NIGERIA LIMITED



- **1981:** SDEM was founded in Nigeria as the installation arm of the GEC- Alstom Group of France.
- **2004:** 90% of SDEM was acquired by a Nigerian group with the French retaining only 10%.
- **2011:** SDEM became management owned through an MBO supported by investor group.
- **Key sectors:** Power, Oil and Gas, and Industrial & Public Infrastructure.
- **Core competence:** Structural Steel Fabrication & Erection, Power Plant, Mechanical & BOP Erection; Piping Network & Spools Fabrication & Installation

Key Sectors



OUR SERVICES

We are an energy, industrial, and infrastructure construction company



ELECTRO-MECHANICAL SERVICES



ERECTION SERVICES



CIVIL & STRUCTURAL SERVICES



PIPING SERVICES



FABRICATION SERVICES



OPERATIONS & MAINTENANCE

Our Achievements & Numbers



COMPLETED
PROJECTS

500+

DELIVERED

HUMAN
RESOURCES

300+

QUALIFIED
MANPOWER

PROFESSIONALISM

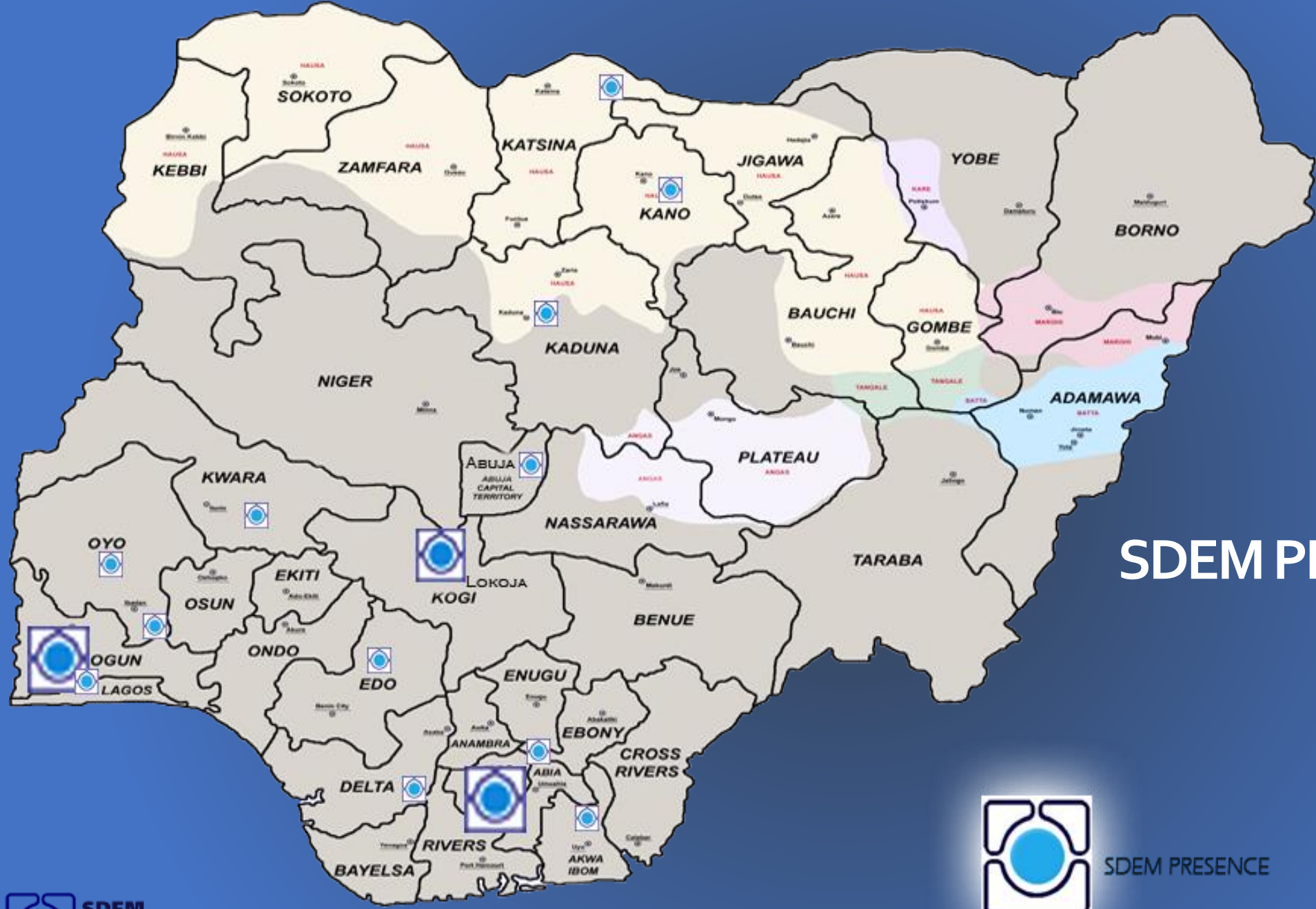
45

YEARS OF
EXPERIENCE

WORK
COVERAGE

36

STATES IN
NIGERIA



SDEM PRESENCE IN NIGERIA



SDEM PRESENCE

OIL & GAS SECTOR

- SDEM Erectors Nigeria Limited (SDEM) oil and gas sector specializes in electro-mechanical services, civil and structural construction, steel fabrication, steel structures and industrial equipment erection, operations and maintenance of industrial and energy plants.

- In line with local content and NCD objectives, SDEM is expanding its existing fabrication facilities to develop a strong niche in all types of structural steel fabrication and erection projects for the oil and gas industry.



SDEM Business Segments

SDEM Service Structure (Oil & Gas)

IOM



- Oil & Gas Plant Equipment Installation
- Bolt Torquing & Tensioning
- Blasting & Painting
- Scaffolding Services
- Labour Supply/Secondment
- Hook Up & Commissioning
- Service/Maintenance Contract
- Onshore/Offshore

Fabrication



- Yard/On-site Fabrication
- S/S Pipe Spool Fabrication
- M/S Pipe Spool Fabrication
- HVAC Ducting Fabrication
- Skidded Packages
- Steel Support
- Pipe Bridge/Walkway
- Flowlines/Pipelines

E & I



- SCADA Installations
- E & I Control Panel Design/Fab
- E & I Cable Installation & Termination
- E & I Loop Testing & Calibration
- Power Cabling Installation
- Commissioning

Mechanical



- Upgrades/New builds
- Gas Recompression Engines
- Gas Plant Equipment Erection
- HVAC/R
- Flow stations, Gas plants etc.

SERVICES CAPABILITIES

OIL & GAS SECTOR



- Pre-fab and Fabrication of structural and pipe spools using materials of general and alloy steels for Production Platforms, Flow Stations, etc.
- Erection and Installation of Gas Plants , Power Plants –Hydro/Gas, Flow stations.
- Mechanical Works – Flow stations-new builds and upgrades, Hook-up and maintenance operations to support new/ existing construction projects.
- Piping and Pipe Networks.
- E & I capabilities – Control system and Panel building, SCADA Installations.
- Blasting, Coating and Scaffolding services.

PERSONNEL

PERMANENT STAFF

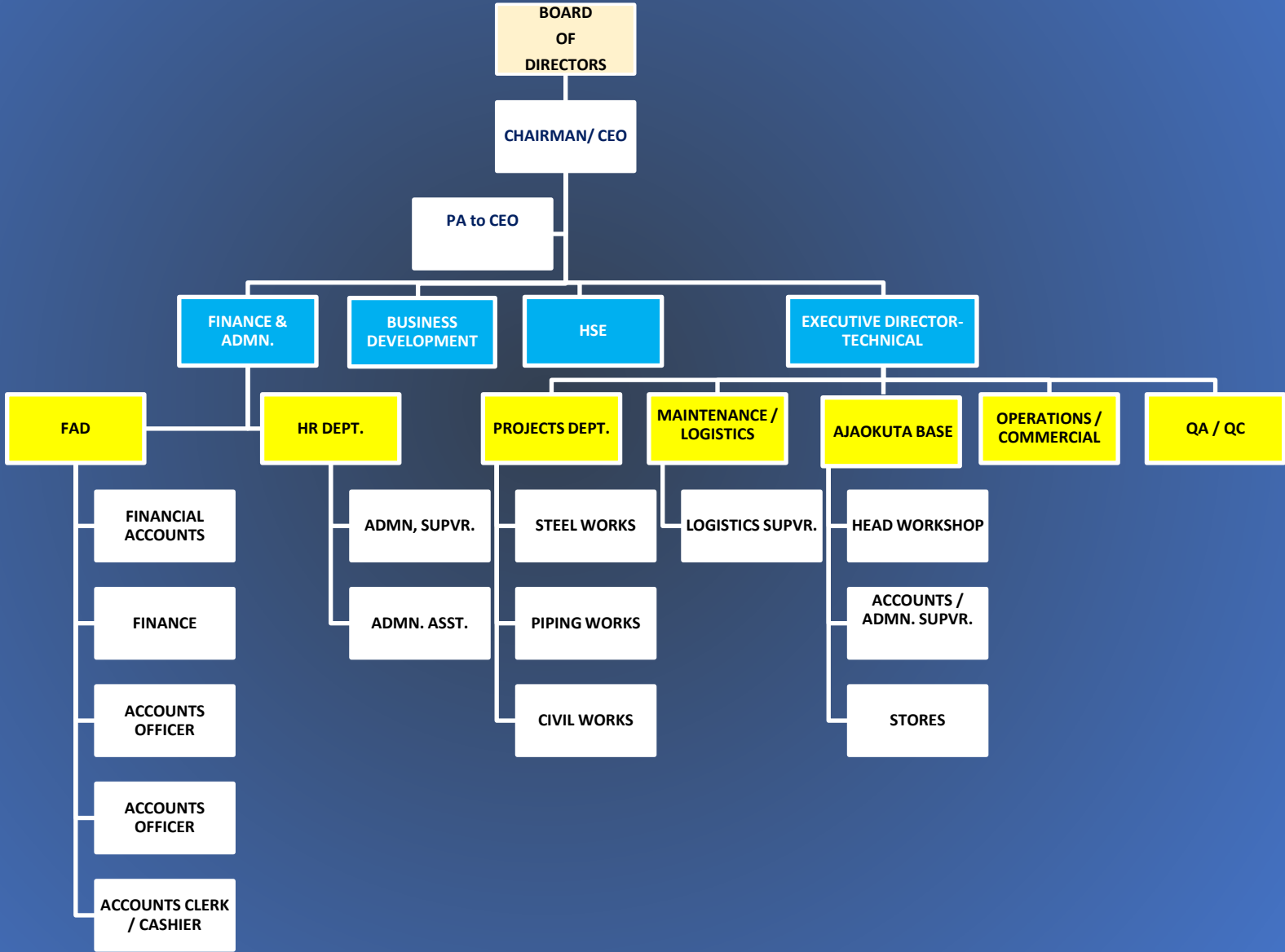
• Management Team	6
• Expatriates	Nil
	(Approved 10 exp. quota)
• Engineers	27
• QAQC	4
• HSE	3
• Experienced Technicians Personnel	48
• Semi-skilled Personnel	15

OTHERS

- SDEM maintains a pool of over **200** local & expatriate staffs on specific project engagement



SDEM CORPORATE STRUCTURE



OFFICES & YARD



Lagos

Head Office

No. 127 B Eti-Osa Way, Dolphin Estate,
Ikoyi, Lagos State, Nigeria.

Tel: +2348034020893,
+2348063737127,
+23408103281963

Email: sdem@sdem.com,



Ajaokuta

Base Office, Fabrication Yard

Ajenco Road, Ajaokuta,
Kogi State,
Nigeria.

Tel: +234 58 400402
Email: aogazi@sdem.com
Contact: Augustine Ogazi
[Tel: + 234 803 3270013]



Port Harcourt

Site Office, Fabrication Yard

Plot 71 Trans Amadi Industrial Layout,
Port Harcourt,
Rivers State,
Nigeria.

Tel: +234 84463863
Email: malawode@sdem.com.
Contact : Mike Alawode
[Tel: + 234 806 3737127]

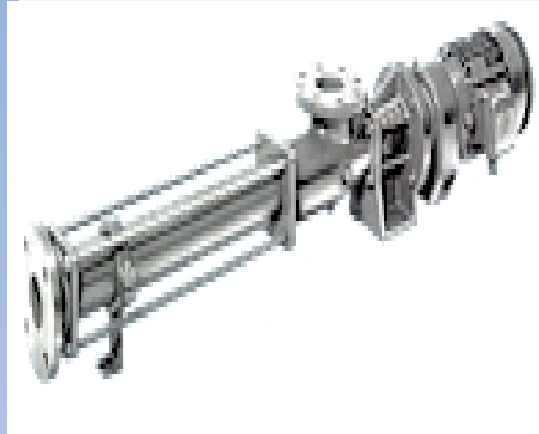
Oil & Gas Integrated Procurement Services

SDEM offers integrated procurement services of high-quality oilfield equipment and materials, through our worldwide network and alliances with OEMs.

With Salzigitter AG, SDEM is able to deliver

- Steel plates,
- Valves, Pipes,
- etc.

These supplies come in at highly competitive prices, and on time ensuring optimum value to our customer.



Liquid pumps(Helical Rotor pumps), PD pumps.



High Performance Valves.



Line Pipes



Power & Instruments Control Panels & Equipment

Fire Systems and Services

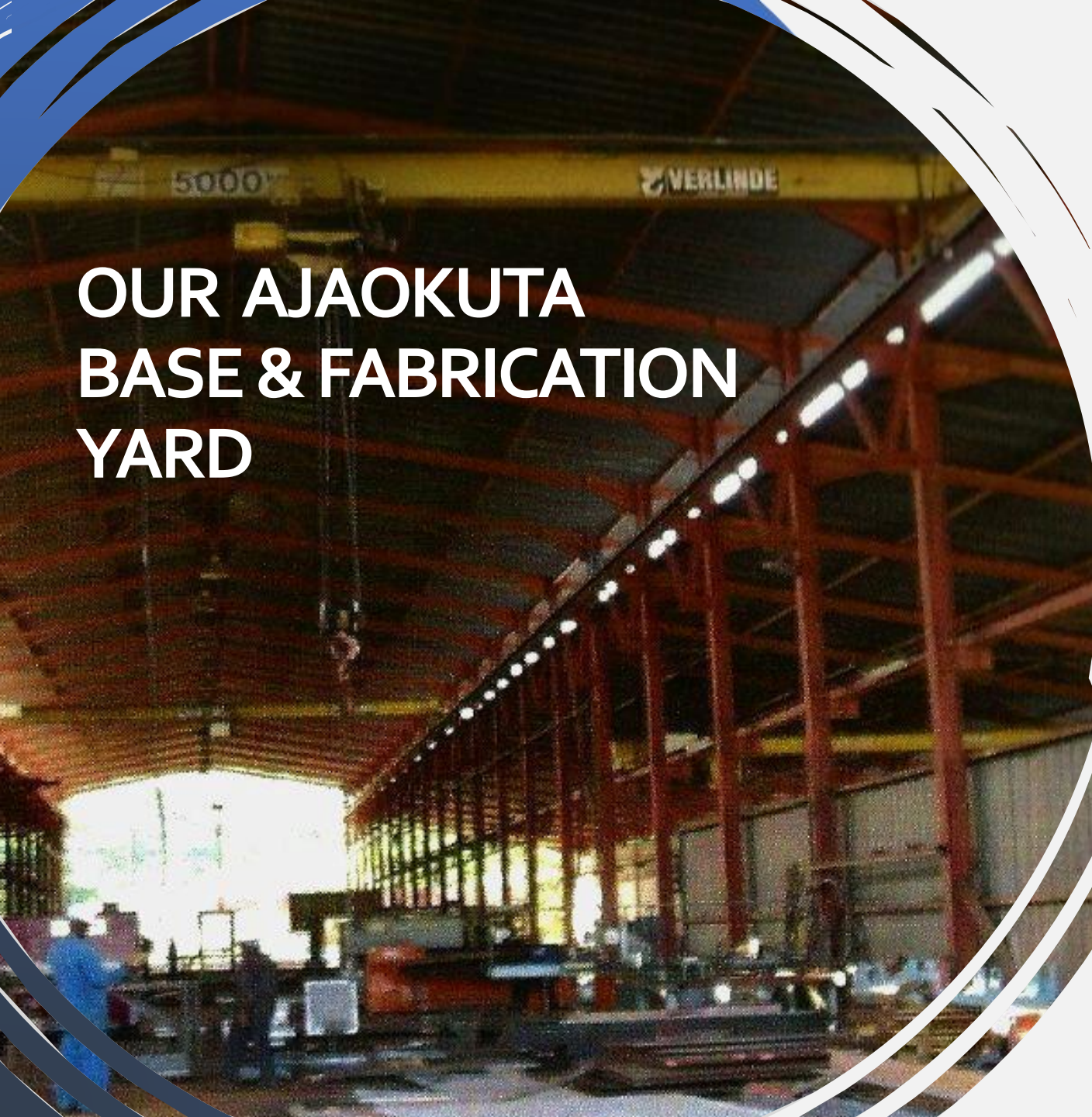
SDEM partners with reputable organisation to give fire-fighting solutions to Refineries, Oil & Gas plants, Power plants, as well as Residential & Industrial buildings. We provide the following:

- SPRINKLER Systems
- Foam Systems
- Water Mist Systems EI MIST®
- Extinguishing Systems with gas Argosystem
- FIRE and GAS
- Self Contained SKID
- Fire Fighting Devices
- Pump Units, Tanks, Hydrants
- Foam Chemical



OUR AJAOKUTA BASE & FABRICATION YARD





OUR AJAOKUTA BASE & FABRICATION YARD

- The Ajaokuta yard is a first-class facility built more than 30 years ago situated in a peaceful and serene environment
- It is about 15,000 sq m of yard space situated on the main Ajenco road with more space for future expansion.
- Over 4000 sq m (112m x 36m x 10m high) covered 4-bay fabrication shed with 5-ton overhead cranes in each.
- Main equipment in the yard include lathes, milling, drilling, shearing, grinding, plate rolling & threading machines. Other plants in the yard are - Over 50 welding plants (Electric/ Diesel powered), oxy-acetylene and plasma cutting table, hydraulic press, blasting and painting equipment.

Fabrication Yard



MAJOR PROJECT EXPERIENCES

SDEM OIL & GAS PROJECT
REFERENCES

NIGERIA LIQUEFIED NATURAL GAS LIMITED (NLNG) TRAIN 7 PROJECT. (October 2022 – Ongoing)

SCOPE

- SDEM Erectors Nigeria Limited will be providing fabrication services, galvanising of structural steel structures and procurements.
- The Train 7 project is expected to ramp up NLNG's production capacity from 22 million tons per annum to 30 million tons per annum.



NLNG HOD Buildings in Port Harcourt Steel Fabrication, Galvanization and Erection (12 buildings) 2017 – 2018



Process Inspection and documentation during galvanization.



Materials transportation and stacking.



Material Inspection after delivery to site.



Installed Drain at view from the south.



Newly extended warehouse building with roofing commenced.



Warehouse MEP steel works in progress.

NLNG HOD Buildings in Port Harcourt Steel Fabrication, Galvanization and Erection (12 buildings) 2017 – 2018



Amenities & refuse buildings.



Erection of hot dip galvanized steel structure.



Transit lounge installation after civil works.



Installed gutter rails & purlins at the top basement.



Cluster building steel erection.



Erected transit gate house awaiting roofing.



NLNG HOD Buildings in Port Harcourt Steel Fabrication, Galvanization and Erection (12 buildings) (2017 – 2018)

SCOPE

- Central office building erection ongoing (front & rear views).



NOTORE CHEMICAL INDUSTRIES PLANT, ONNE BOILER REPLACEMENT (INSTALLATION & COMMISSIONING)

(2015/2016).



NOTORE CHEMICAL INDUSTRIES PROJECT

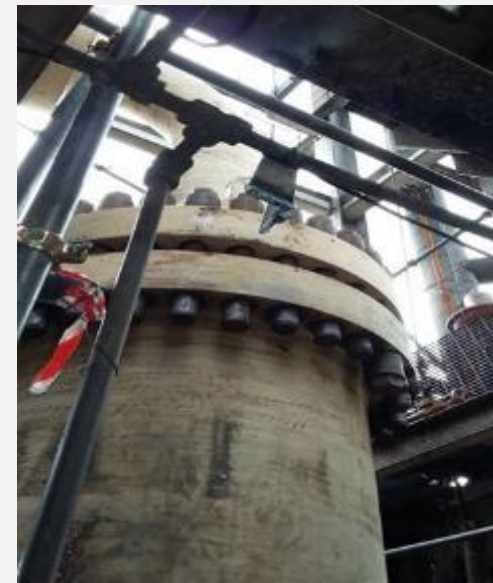
Notore Chemical Industries Plant, Onne Boiler Replacement (Installation & Commissioning) (2015/2016).

SCOPE

Tandem Lifting of new 101C Boiler for
Notore Ammonia Plant.



Tandem Lifting of new
101C Boiler for Notore
Ammonia Plant.



Fully boxed-up boiler c/w
Cover Channel and
interconnecting piping.



Positioning of the 101C Boiler
before welding of auxiliary
piping systems and connection
of appurtenances.



Internal fracture repairs of
High-Pressure Boiler
Casing.



Welding of 21" Diameter
High Pressure Steam Pipe
(1.1/4" thick).



Welding of 21" Diameter High
Pressure Steam Pipe (1.1/4"
thick).

Notore Chemical Industries Plant, Onne Boiler Replacement (Installation & Commissioning) (2015/2016).

SCOPE

- Thermal Insulation and Cladding of the newly installed Boilers (101CA, 102C).



Notore Chemical Industries Plant, Onne Boiler Replacement (Installation & Commissioning) (2015/2016).

SCOPE

- Erection and installation of new PKB Boiler complete with the Economizer and Stack.



Pan Ocean Gas Processing Plant – 2 (GPP-2), Ovade-ogharefe, Oghara, Delta State (2015).



SCOPE

- Lifting & Installation of Skid-Mounted Gas Processing Equipment, Pressure vessels, and interconnecting piping systems on respective foundations at new Gas Plant.



Tandem Lifting & Positioning of Flare Stack c/w guy wires and accessories.



Lifting & Installation of pre-fabricated Pipe supports, Walkways, Pipe spools, Gas Valves and Instruments.



Lifting & Installation of 6Nos Cartapiller Gas Re-compression Engines and Compressor Skids on respective Foundations at gas Plant.



Transportation, Lifting & Installation of Control room for the Gas Plant.



Lifting & Installation of Debutanizer, Depropanizer & Deethanizer Towers c/w Steel Platforms, Access ladders, Interconnected piping systems & Reflux Condensers.

SDEM OIL & GAS PROJECT REFERENCES

SHELL PETROLEUM DEVELOPMENT COMPANY (SPDC) PROJECTS



SHELL PETROLEUM
DEVELOPMENT COMPANY
(SPDC) PROJECTS

SPDC (Shell) IA – 100
Projects For Port
Harcourt New Office
Complex (2011 – 2014)

SCOPE:

Civil works, Structural
Steel Roof Trusses
Fabrication and M & E
Services.



1. Mechanical Modifications Works In Various Flow Stations

SCOPE:

- Mechanical Modifications works in various flow stations such as:
 - Alakiri
 - Cawthone Channel
 - Ekulama
 - Awoba.(2 years renewable call-off contracts) for SPDC.
- Various corrosion repairs, blasting & painting, pipe spools replacement , rerouting, debottlenecking, temporary clamping, flushing/pressure testing, cut out/replacement damaged structural members.

2. Mechanical Field Equipment Maintenance Support For Swamp Team “B” For SPDC

SCOPE:

- Provision of maintenance technicians for 16 K Inspection & Servicing of Ariel/Dresser Rand Compressors.
- Overhaul of reciprocating and screw type air compressors.
- National pump fluid end inspection.

3. Installation Of Instrument Air Package And Flow Control Valves At SPDC Sapele Flow Station

SCOPE:

- Overseas procurement of Fisher control valves (16nos) and transmitters (2nos).
- Mechanical modification works including laying of 2” line pipes.
- Preparation of concrete foundation and installations of SPDC free issue air compressor and vessel.
- Reconfiguration of the DCS , stoking of the valves and commissioning.

4. SPDC Bonny Terminal E & I Call-off Contract:

SCOPE:

- Provision of E and I technicians to support SPDC maintenance team.
- Installation and commissioning of water cut meters in 6 SPDC stations (Ekulama 1& 2, Nembe 2 & 3, Imo River 2 & 3)



5. SPDC Santa Babra Flow Station Manifold Platform Extension

SCOPE:

- Extension of the platform support structures and installation of 6nos 24"dia piles.
- Installation of 3 x 6 nos inlet manifold ligaments.
- Various piping modification and re-routing.
- Blasting /painting and commissioning.

6. Sapele Flow Station And Gas Plants For SPDC

SCOPE:

- Developed Operations' Manual for Sapele flow station and Gas Plants.

7. SPDC (Shell) IA – 100 Projects For Port Harcourt New Office Complex

SCOPE:

- Provision of Civil, Fabrication, Concrete works and Mechanical & Electrical Services for Shell IA Port –Harcourt new Office building (IA – 100 projects)

8. Construction Of Shore Walling – For SHELL PETROLEUM Dev. Company Ltd.

SCOPE:

- Provision of fabrication and mechanical services
- Provision of site supervisor and material acceptance.
- Handling of the construction of shore walling and rail for shell new office in Lagos – SPDC Office Complex.

9. Installation of Multiphase Pumping System for SPDC.



- PD Meter installation for
Production Accounting



Water cut meter Configuration
and Calibration by SDEM

- Modification of spools at
Inlet manifold ligaments
in SPDC Land
Flowstation



Instrument Cable laying at an
offshore flow station



- Installation of Gas Metering Skid c/w Instrumentation and Controls System



- Gas Metering Skid Commissioning & Hook-Up



- Gas Metering Skid Instrument & Control Cabling Termination



CHEVRON PROJECT

- Decommissioning of Ruston Generators at Chevron Escravos Terminal

SCOPE

- Isolation of Electrical, Fire / Gas system networks.
- Voltage Testing / cable isolation, Electrical fixture removal e.g Panels, Switch Gears etc.
- Mechanical fixture removal i.e removal of the bulk of each of the 4 Generators & Containerization of decommissioned parts.



CONSOLIDATED OIL PROJECT

- Installation, Commissioning, Hook-up & Maintenance of Multiphase Pumping System for Consolidated Oil



TOTAL PROJECTS

9. Fire Fighting Pipe Network Procurement , Construction and Commissioning for Total Obagi Flow station

SCOPE

- Procurement, prefabrication of fire pump station structures and erection, piping networks (10", 6", 4" and 2 "lines), Installation of Fire water pumps and spray Deluge system with fixed fire foam & water monitors

10. Obite Gas Terminal for TOTAL/ELF

SCOPE

- Extension of Gas Terminal scope including fabrication and erection structural steel structures about 1300tons.



Gas P.R.M.S Station Equipment Installation & Interconnecting Piping System For Bua Group Cement Plant.

Okpella, Edo State
(2014/2015).



Main Gas PRMS Skid and Interconnecting Piping, Instruments, Control and Power Cabling.



Gas Scrubbers and Interconnecting Piping system network.



Gas Plant Filter-Separator and associated Piping/Tubing & Instrumentation System.



Dual-Operated Gas Line Isolation Valves.



Water Bath Heaters for the Gas Plant.



Piping system installation for Gas Metering Station.

BUA CEMENT PROJECT (2014 – 2015)

BUA CEMENT GAS TURBINE POWER PLANT 3 X 15MW SIEMENS SGT-500 GTG + BoP/PIPING



434MW GEREGU GAS TURBINE POWER PLANT 2.

(2011 – 2013)



GAS INTAKE / TREATMENT PLANT.



16" Treated Gas Supply Header to individual GT Inlet Gas Scrubbers + Gas PRMS Skids.



Gas Turbine Inlet Gas Scrubber & Gas PRMS Skid.



Main Power Plant Gas Receiver, Pressure Reduction/Metering Station.



Knock-out Drum & Main Scrubbers for Gas Plant Pressure Reduction/Metering Station.



Gas Receiving & Treatment Plant (Commissioned and Hooked-Up).



Gas Plant Outlet Piping and Pig Receiver Station.

434MW GEREGU GTPP-2: PROJECT
(2011 – 2013)

GAS TURBINE MECHANICAL ERECTION / STEEL ERECTION / BOP.

SCOPE

- **GT EXHAUST SYSTEM:** Support Structures, Exhaust Diffuser, Elbow, Upper/Lower Transition pieces, Dampers, Lower & Upper Stacks, Expansion Joint, Scaffolding works.



434MW GEREGU GTPP-2: PROJECT
(2011 – 2013)

GAS TURBINE MECHANICAL ERECTION / STEEL ERECTION / BOP.

SCOPE

- **GT AIR-INTAKE SYSTEM:** Support Structures, Inner/ Outer Cone, Elbow, Transition Piece, Damper, Filter Modules, Walkways/ Ladders/ Platforms, Scaffolding.



434MW GEREGU GTPP-2: PROJECT
(2011 – 2013)

GAS TURBINE MECHANICAL ERECTION / STEEL ERECTION / BOP.

SCOPE

- **GT & GENO SYSTEM:** GT Support, Geno Bearing Plates, GT/Geno Alignment, Intermediate Shaft, Lube Oil Piping, Geno Cooling Water System, Combustion Chambers, Thermal Insulation.



434MW GEREGU GTPP-2: PROJECT
(2011 – 2013)

GAS TURBINE MECHANICAL ERECTION / STEEL ERECTION / BOP.

SCOPE

- **STEEL ERECTION & CLADDING:**
Turbine Shelter, Walkways/Access
ladders, Stairs/Platforms, GT
Enclosure Cladding (roof & wall),
Pipe Supports/Bridges



434MW GEREGU GTPP-2: PROJECT
(2011 – 2013)

GAS TURBINE MECHANICAL ERECTION / STEEL ERECTION / BOP.

SCOPE

- **RAW WATER/FIRE WATER
SYSTEM:** Raw/Fire water Tank
fabrication, Spray Deluge System,
Fire Hydrant line & Posts, Fire
Water Pumps, Scaffolding.



EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE

2010 - 2011



LAFARGE CEMENT PLANT, EWEKORO, OGUN STATE. W18V50DF (100MW) GAS ENGINE POWER PLANT.



Fabrication & TIG Welding of gas pipe spools.



Bop/Piping Installation For W18V50DF (100MW) Gas Engine Power Plant,



Fuel gas header hook-up.



Pre-fabrication of fuel gas header spools.



Fuel gas header runs and pipe bridge/support.

LAFARGE CEMENT, EWEKORO W18V50DF (100MW) GAS ENGINE POWER PLANT.

SCOPE

- Ewekoro W18V50DF (100MW)
Power Plant Cooling Water Piping
System Installation



SDEM Construction Facilities & Equipment

CIVIL CONSTRUCTION EQUIPMENT

- Concrete Batch plant
- Mobile mixers
- Pay loaders
- Bulldozer
- Excavators
- Graders, etc.

LIFTING, ERECTION & LOGISTICS SUPPORT EQUIPMENT

- SANY cranes 220T, 50T and 25T
- PPM A600 60T X 2 ; PPM A580 50T X 3; PPM
- A380 25-30 T X 2
- Trucks with Self loader HIAB (6-10 Ton); Trucks with
- Flat Bed Trailer (30 Ton) Truck with Low Bed Trailer
- (60 Ton) ; Personnel carriers: Truck Tanker 15 000 litres; Genie S-65
- Personnel Basket (23m Cherry Picker);
- Maniscopic 5T JCB Forklift; Manitou 6T Forklifts

Other SDEM Equipment, Plant & Machineries and Logistics Vehicles

Lifting Equipment

- Mobile cranes 10 Nos : (25 to 220 ton capacity)
- Workshop overhead cranes
- Generators of 6.6KVA – 275 KVA
- Personnel lifting basket (26m reach)
- Forklifts
- Mobile scaffold Tower (12m platform)
- Payloader
- Backhoe excavator
- Diesel compressors

Machineries & Plants

- Welding machines : Argon TIG, Arc, Diesel, Electric
- Atlas Copco Compressors
- Lathe machine
- Milling machine
- Threading machine
- Oxy and plasma cutting table
- Shearing machine
- Plate rolling machine
- Hydraulic press
- Blasting and painting unit
- Large stock of scaffold tubes, clips etc.

Project Supports

- Site tractors with trailers
- Self loader trucks
- Trucks head with flat bed trailers (20t-30t)
- Trucks head with 60t low bed
- Light motor vehicles

Equipment for erection



THANKYOU

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