



Nigeria Oil & Gas Opportunity Fair 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

***March 29 - 30, 2017
Le Meridien Ibom Hotel, Uyo
Akwa Ibom State***

NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

INTRODUCTION

Following the 2017 Nigeria Oil and Gas Opportunity Fair with the theme 'Advancing Indigenous Participation in the Nigerian Oil and Gas Industry for National Development' held at the Le Meridien Ibom Hotel and Golf Resort, Uyo, Akwa Ibom State between the 29th and 30th March 2017, this compendium seeks to highlight the opportunities available to Nigerian Content Providers within the Oil and Gas Sector over the next few years.

The opportunities identified below are resulting from presentations by the Oil Companies at the Opportunity Fair, which was designed to bring to the front burner the short and medium-term development plans of the major operators in the nation's Oil and Gas Sector with a view to sensitizing stakeholders on the abounding opportunities for Indigenous and Nigerian companies to participate in the overall growth and development of the nation's oil and gas industry.

The main aim was to assist indigenous operators in the industry take advantage of the enabling environment provided by the forum to key into the current and emerging projects of major operators in advancing local participation/content in the industry and develop enforcement of the Nigeria Oil and Gas Industry Development Content (**NOGICD**) Act.

This compendium is NCDMB's pioneer attempt at creating an industry database of opportunities covering the Up-Stream, Mid-Stream and Down-Stream Sectors of the Nigerian Oil and Gas Industry. The opportunities captured herein are as presented by the respective companies based on their short-term, medium-term and long-term plans.

NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES



FIRST E & P
FIRST EXPLORATION & PETROLEUM
DEVELOPMENT COMPANY LIMITED



DEPARTMENT OF PETROLEUM RESOURCES
The Petroleum Regulatory Agency Of Nigeria



ORIENT PETROLEUM
RESOURCES PLC



YINKA FOLAWIYO
Petroleum Co. Limited

NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIA AGIP OIL COMPANY

PROJECTS

ZABAZABA

- FPSO (Leased/ Converted VLCC) on ZZ
- (16+6) Phased wells development
- Subsea Development with rigid pipeline
- Gas export pipeline to Offshore Gas Gathering System (OGGS) for domestic gas utilization

ETAN

- Etan tieback to ZZ FPSO
- (4 + 6) Phased well development
- 40km tie back pipeline

TIMELINE

- FID – Q2 2017
- Drilling startup – Q2 2018
- FPSO arrival – Q2 2020
- ZZ First Oil – Q4 2020



STATUS

- FID – Q2 2017
- Drilling startup – Q2 2018
- FPSO arrival – Q2 2020
- ZZ First Oil – Q4 2020

POTENTIAL NIGERIAN CONTENT

- Engineering & Project Management;
- Topsides, Hull and Mooring System;
- Subsea Production Systems
- Pipeline, Flowlines, Risers & Installation
- Umbilical System
- Materials and Procurement
- Fabrication & Construction
- Telecommunications/ICSS;
- Transportation
- HSE; including Catering Services;
- Marine Operations & Logistics Services;
- Installation, Hook-up, Pre-commissioning & Commissioning;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Rigs (two contracts);
- Drilling and Completion Materials;
- Ancillaries Drilling Services;
- Logistic.



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIA AGIP OIL COMPANY

PROJECTS

FLARING DOWN PROJECTS

- Flow Station Gas Flare Elimination Projects

TIMELINE

- TBA

STATUS

- LP/LLP - Kwale Flare Down (ongoing)
- LP/LLP – Oshi Flow Station (pre-feasibility stage)
- LP/LLP – Ebocha Flow Station (pre-feasibility stage)
- LP/LLP – Ob/Ob Gas Plant (pre-feasibility stage)

POTENTIAL NIGERIAN CONTENT

- Engineering & Project Management;
- Pipelines, facilities
- Materials and Procurement
- Fabrication & Construction
- Transportation
- HSE; including Catering Services;
- Marine Operations & Logistics Services;
- Installation, Hook-up, Pre-commissioning & Commissioning;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Logistic.



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIA AGIP OIL COMPANY

PROJECTS

WATER INJECTION PROJECT

- Brass Terminal Project
 - Ebocha Water Injection Project
 - Tebidaba Water Injection Project
- (Water injection projects at 3 locations)

TIMELINE

- TBA



STATUS

- Future Activity

POTENTIAL NIGERIAN CONTENT

- Engineering & Project Management;
- Pipelines
- Materials and Procurement
- Fabrication & Construction
- Telecommunications/ICSS;
- Transportation
- HSE; including Catering Services;
- Marine Operations & Logistics Services;
- Installation, Hook-up, Pre-commissioning & Commissioning;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Logistic.



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIA AGIP OIL COMPANY

PROJECTS

DEVELOPMENT OF 3 UNITIZED FIELDS WITH OIL AND GAS PRODUCERS AND FACILITIES UPGRADE

- Upgrade of the existing flow station, to accommodate oil and gas treatment facilities;
- Installation of new separation, compression, injection system and metering units (also dehydration and power generation)
- BoP installed power;
- Wellheads interconnection flowlines cumulated lengths: 119 km
- Oil to be shipped to Brass terminal

TIMELINE

- TBA



STATUS

- Future activity

POTENTIAL NIGERIAN CONTENT

- Engineering & Project Management;
- Pipelines
- Completions equipment
- Materials and Procurement
- Fabrication & Construction
- Telecommunications/ICSS;
- Transportation
- HSE; including Catering Services;
- Marine Operations & Logistics Services;
- Installation, Hook-up, Pre-commissioning & Commissioning;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Logistic.



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COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIA AGIP OIL COMPANY

PROJECTS

DEVELOPMENT OF THE 8 NEW INFILLING PROJECTS WITH FURTHER DEVELOPMENT OF THE EXISTING FIELDS;

- Connection of new wells (over 50 new wells plus S/T and W/O) to the existing facilities with flowlines;
- New remote manifolds or mini flow station;
- New pipelines

TIMELINE

- TBA



STATUS

- Future activity

POTENTIAL NIGERIAN CONTENT

- • Engineering & Project Management;
- Pipelines
- Completions equipment
- Materials and Procurement
- Fabrication & Construction
- Telecommunications/ICSS;
- Transportation
- HSE; including Catering Services;
- Marine Operations & Logistics Services;
- Installation, Hook-up, Pre-commissioning & Commissioning;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Logistic.



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COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIA AGIP OIL COMPANY

PROJECTS

ASSET INTEGRITY

- Manifold Replacement or New Installation;
- Electrification Projects;
- Renewable Projects;
- Platform Structural Integrity
- Sealine Structural Integrity
- Upgrade of Firefighting system
- New PAGA/F&G installation

TIMELINE

- TBA

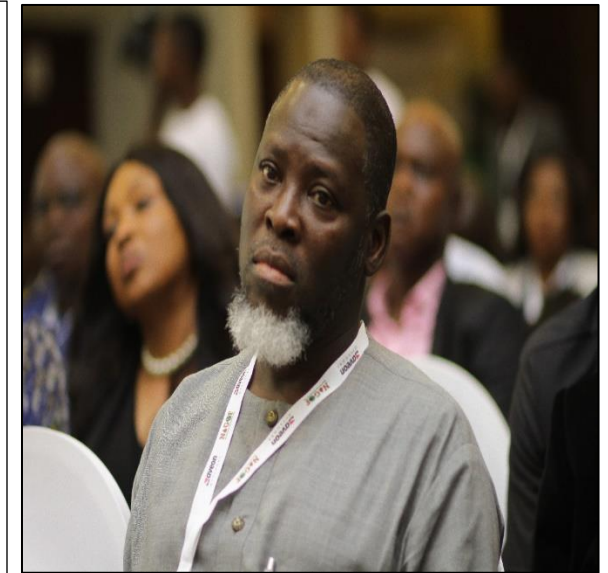


STATUS

- Future activity

POTENTIAL NIGERIAN CONTENT

- • Engineering & Project Management;
- Pipelines
- Electrical Equipment
- Materials and Procurement
- Fabrication & Construction
- Telecommunications/ICSS;
- Transportation
- HSE; including Catering Services;
- Marine Operations & Logistics Services;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Logistic.



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIA AGIP OIL COMPANY

PROJECTS

OKPAI PHASE 2 POWER DEVELOPMENT

- New Integrated Combined Cycle Power Plant of 2 Gas Turbine Generation Sets of 150 MW each and a Condensate Type Steam Turbine of 150MW). Total Okpai plant delivery 1GW

TIMELINE

- TBA

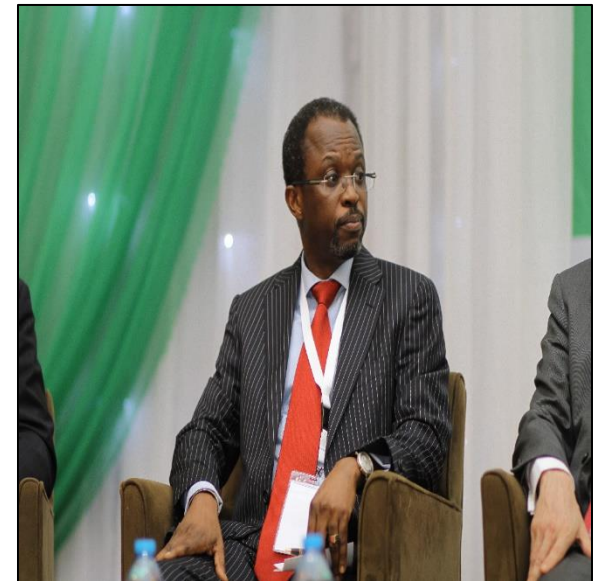


STATUS

- Future activity

POTENTIAL NIGERIAN CONTENT

- Engineering & Project Management;
- Pipelines
- Turbines and spares
- Electric motors and equipment
- Materials and Procurement
- Fabrication & Construction
- Telecommunications/ICSS;
- Transportation
- HSE; including Catering Services;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Logistic.



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

EXXONMOBIL

PROJECTS

FULL FIELD DEVELOPMENT PROJECTS

- Owowo Project (ExxonMobil)
- Bonga SW Project
- Bosi Project
- JV Satellite Field Development

STATUS

- Future Opportunity

TIMELINE

- 2018 - 2020+
- 2018 - 2020+
- 2018 - 2020+
- 2018 - 2020+

POTENTIAL NIGERIAN CONTENT

- Engineering Design
- Fabrication & Construction
- Procurement
- Drilling Services
- Marine Vessels
- Onshore Fabrication, Fitting & Scaffolding Support
- Engine & Pump Repair Facilities
- Valves Testing & Maintenance
- Coating
- Cranes and Life Capsule/Raft Maintenance
- Electrical Equipment
- Materials and Procurement
- Telecommunications/ICSS;



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

EXXONMOBIL

PROJECTS

Base Projects

- Platform Revamps
- Riser Repairs
- Facilities and Pipeline Inspections
- Pipeline Replacements
- Terminal Infrastructure Upgrades
- Crude Tank Repairs
- Power Distribution Upgrade

STATUS & TIMELINE

TBC



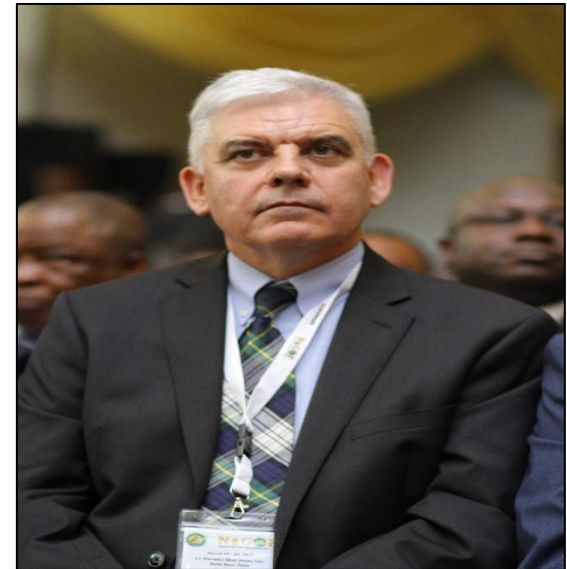
STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

Engineering Design

- Fabrication & Construction
- Procurement
- Drilling Services
- Marine Vessels
- Training/ Consultancy
- Onshore Fabrication, Fitting & Scaffolding Support
- Engine & Pump Repair Facilities
- Valves Testing & Maintenance
- Coating
- Cranes and Life Capsule/Raft Maintenance
- Electrical Equipment
- Materials and Procurement



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

CHEVRON NIGERIA LIMITED

PROJECTS

- Abiteye Non-Associated Gas (NAG) Project
- Tank Replacement and Upgrade (3,5,9)
- Produced water Disposal
- Escravos Export System
- Onshore Water Source Well
- Tapa Power Plant Upgrade
- Makaraba Non-Associated Gas (NAG) Project
- Tank Replacement Upgrade (2,4,6,7 8 & 12)
- Okan Gas Gathering and Compression Project (GGCP) Debottlenecking
- Meji Gas Gathering and Compression Project (GGCP) Debottlenecking
- Delta South Gas Management Project
- JV Solar Control Systems Upgrade

TIMELINE

- TBA



STATUS

- Tendering in progress
- Tendering in progress
- Tendering in progress
- Tendering in progress
- Tendering in progress
- Tendering in progress
- FEED Ongoing (Tendering in progress)
- FEED Ongoing (Tendering in progress)
- FEED Ongoing (Tendering in progress)
- FEED Ongoing (Tendering in progress)
- Opportunity Phase
- Opportunity Phase

POTENTIAL NIGERIAN CONTENT

- Deepwater Operations Support
- Provision of Transmix/Intermix vessel
- Helicopter/Aviation Services
- Dredging Services
- Pipeline Fabrication and Coating
- Rope Access
- Supply of Chemicals and Petroleum Products such as Methanol, Diesel, etc.
- Establishing Relationship with OEMs
- Engineering Design Services
- Diving Services
- Marine and Logistics
- Warehouse Operations
- 3rd party Procurement Services
- Hospitality Services (Room/Boarding)
- Fabrication and Construction
- Procurement



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

ADDAX PETROLEUM

PROJECTS

ANTAN GREEN FIELD DEVELOPMENT (OML 123)

- Develop 15MMSTB of Proven Oil Reserves
- New Wellhead Platform equipped with crude handling facilities
- Leverage/ Optimize existing FPSO Export Terminal

TIMELINE

- Facilities Construction and Installation by Q1 2018
- Drilling Startup by Q1 2018
- First Oil – Q2 2018



STATUS

- FDP approved by DPR, supported by NNPC
- Fabrication of facilities at 58% completion
- Jackup rig tender at award stage

POTENTIAL NIGERIAN CONTENT

- Engineering Design
- Fabrication & Construction
- Procurement
- Jack up Rig
- Drilling Services
- Marine Vessels
- Training/ Consultancy
- Land Rig
- Installation and Commissioning
- TAD Rig
- Drilling Services
- Floating, Storage and Offloading (FSO) Vessel



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

ADDAX PETROLEUM

PROJECTS

NJABA GREEN FIELD DEVELOPMENT

- Develop 13MMstb of Proven Oil Reserves
- New pipeline and wellhead facilities
- Leverage/ Optimize existing flow station and export route

TIMELINE

- Facilities installation and commissioning – Q1 2018
- Drilling startup – Q4 2017
- First Oil – Q1 2018



STATUS

- FDP approved by DPR, supported by NNPC
- Line pipes for facilities procured
- Land rig tender approved by NNPC

POTENTIAL NIGERIAN CONTENT

- Engineering Design
- Fabrication & Construction
- Procurement
- Jack up Rig
- Drilling Services
- Marine Vessels
- Training/ Consultancy
- Land Rig
- Installation and Commissioning
- TAD Rig
- Drilling Services
- Floating, Storage and Offloading (FSO) Vessel



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

ADDAX PETROLEUM

PROJECTS

OFUD GREEN FIELD DEVELOPMENT

- Develop 93MMstb of Proven Oil Reserves
- New operations location
- New wellhead platforms, Crude handling and processing facility

TIMELINE

- Potential synergy with Agbara to be confirmed – Q2 2017
- FID – Q2 2018



STATUS

- FDP approved by DPR, supported by NNPC
- Facilities development at FEED stage
- Rig tender in progress
- FSO tender in progress

POTENTIAL NIGERIAN CONTENT

- Engineering Design
- Fabrication & Construction
- Procurement
- Jack up Rig
- Drilling Services
- Marine Vessels
- Training/ Consultancy
- Land Rig
- Installation and Commissioning
- TAD Rig
- Drilling Services
- Floating, Storage and Offloading (FSO) Vessel



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

SHELL NIGERIA

PROJECTS

BONGA SOUTH WEST/APARO (BSWA)

- EPCI - Floating, Production, Storage and Offloading (FPSO)
- EPCI – Subsea, Umbilicals, Risers and

TIMELINE

- TBA



STATUS

- FEED Review in Progress

POTENTIAL NIGERIAN CONTENT

- Project Management; QA/QC
- Pre-FEED and FEED
- Engineering and Procurement
- Construction Site Teams
- Module transport (barges)
- Hull Fabrication
- Hull appurtenances – Riser protection, Mooring Protector, Caisson Protection Structure, Living Quarters
- Topside Module Fabrication – Laydown modules, Walkways, Flare scrubber module, Flare Boom, Gas sales metering modules, Vapour Recovery Unit (VRU), Crane Pedestals
- Support vessels & crew
- Flotel Services
- Helicopter Operations
- Subsea Hardware Assembly
- Subsea Manifold Fabrication
- Pipeline Fabrication



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017 COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

SHELL NIGERIA

PROJECTS

GBARAN PROJECTS

- Infill Opportunities to Gbaran Central Processing Facilities (CPF)
- Drill infill wells and tieback to Gbaran CPF
- Construct flowlines and NAG bulkline
- Install remote manifold
- Install new slug catcher
- Brownfieldworks: flushing, curtting, welding and tie in to existing facilities

TIMELINE

- 2017 - 2022



STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Linepipes (flowlines and pipelines >70km)
- Marine Vessels
- Meters - Allocation & fiscal meters (wet gas, ultrasonic flow, dual venture etc)
- Drilling (>20 wells, re-entry/ workover and new drills, gas and oil services)
- Structural steel fabrication (Shallow Water platforms, onshore manifolds >13000MT)
- Pressure vessels/ Gas processing Equipment (TEG systems, inlet separators (slugcatchers))



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

SHELL NIGERIA

PROJECTS

- **ISENI EARLY H/U:** Accelerated Gas Development via 3rd Party Facility
- **Okpokunou Cluster:** Gas Development from Okpokunou Cluster
- **Brass Fertilizer Project:** Gas supply to 3rd party fertilizer plant
- **E-Block:** Shallow offshore tie-backs to Sea Eagle FPSO
- **AMOR:** Brownfield Gas Development
- **Assa North Project:** New Gas Development Project
- **HI:** Shallow offshore Gas Development Opportunity

TIMELINE

- TBA



STATUS

- Future Opportunity

POTENTIAL NIGERIAN CONTENT

- Linepipes (flowlines and pipelines >70km)
- Marine Vessels
- Meters - Allocation & fiscal meters (wet gas, ultrasonic flow, dual venture etc)
- Drilling (>20 wells, re-entry/ workover and new drills, gas and oil services)
- Structural steel fabrication (Shallow Water platforms, onshore manifolds >13000MT)
- Pressure vessels/ Gas processing Equipment (TEG systems, inlet separators (slug-catchers))



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

TOTAL UPSTREAM NIGERIA

PROJECTS

Ikike Field Development Project –
(Multiphase Pipeline from Ikike to Amenam)

TIMELINE



STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Engineering
- Procurement
- Construction & Fabrication
- Installation
- Pipelines (14km)
- Power and communications lines



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

FIRST E&P

PROJECTS

**OML 83 & 85 (MADU AND ANYALA)
FIELD DEVELOPMENT PROJECTS**

TIMELINE

- 2017 – 2019
- First Oil - Q3 2018
- First Gas – Q4 2019



STATUS

- Ongoing

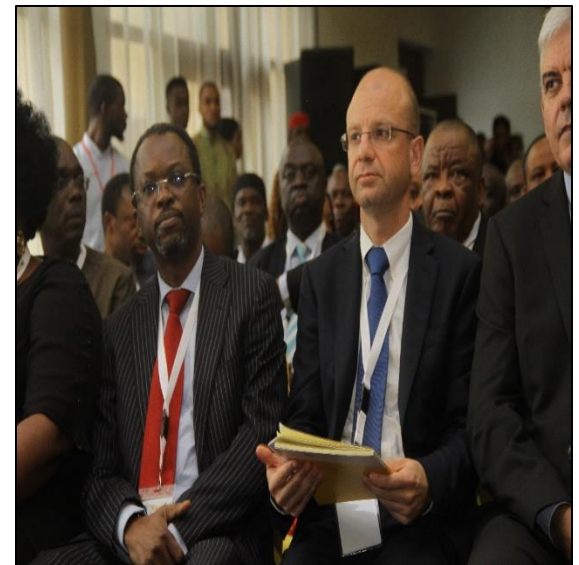
POTENTIAL NIGERIAN CONTENT

PHASE 1

- Installation of 2 Conductor Supported Platforms (CSP)
- Drilling of oil wells on Anyala West Conductor Supported Platform (CSP)
- Drilling of gas and oil wells on Madu CSP
- Field fluids will be produced into an FPSO moored adjacent to the Anyala West CSP
- Interconnecting field pipelines will be laid.

PHASE 2

- Madu Gas Processing facility will be installed along with connecting pipelines from Madu CSP
- The Anyala East CSP will be installed – Oil and gas wells will be drilled on the platform
- Return to Anyala West CSP to drill gas well
- Anyala Central CSP will be installed
- Oil wells will be drilled from the platform.
- Interconnecting pipelines routing produced fluids and gas to Anyala West will be laid.



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NPDC - NIGERIAN PETROLEUM DEVELOPMENT CORPORATION

PROJECTS

OML 66 (SWAMP)

TIMELINE

- 2017 – 2022



STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Seismic Acquisition, Processing and Interpretation
- Drilling Rig Leasing & Ancillary Services
- Heavy Equipment Leasing
- Jetty & Barge Operations
- Water Treatment facilities
- Orphan/Stranded well production
- Alternative Evacuation
- Steel Pipe Production & Laying
- Remote Pipeline Monitoring & Control devices
- Gas Metering & Monitoring Devices
- Facilities EPCI&O
- Road Construction & Maintenance
- Dredging & Site Preparation
- HDD Pipe Laying
- Haulage & Logistics Services
- Pressure Vessel Fabrication Yards
- Turbo Machinery Procurement & Services, Spare Parts Fabrication



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

ORIENT PETROLEUM

PROJECTS

- **Wells Development:** 2000HP rig services and associated well services - well casing, logging, logistics, catering, civil works, etc.
- **Pipeline construction:** About 35km pipeline will be constructed to connect the wells to the flowstations and gas plants
- **Refinery Project:** Process Equipment; Site works; Tank/ piping construction; Electricals, Instrumentation and Control

TIMELINE

- Q2 2017 – 2019
- Q2 2017 – 2019
- 2017 - 2020



STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Rigs
- Drilling Services
- Well Services
- Line pipes
- Drilling Fluids/ Chemicals - Barites, Bentonite, Mud, Chemicals
- Valves and fittings
- Operations Equipment – Wellheads, Control Systems, Process Equipment, Storage facilities, vehicles
- Marine - Crude handling and Storage Barges, tug boats



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

PAN OCEAN OIL CORPORATION

PROJECTS

OVADJE OGHARAFE GAS PLANT

- Phase 2 to expand processing capacity to 200mmscf/d
- Incorporates a cryogenic process to deliver C1 - C2 streams, LPG and other NGL streams for domestic market.

TIMELINE

- 2017

STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Engineering & Project Management;
- Pipelines
- Completions equipment
- Materials and Procurement
- Fabrication & Construction
- Telecommunications/ICSS;
- Transportation
- HSE; including Catering Services;
- Marine Operations & Logistics Services;
- Installation, Hook-up, Pre-commissioning & Commissioning;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Logistic.



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

PAN OCEAN OIL CORPORATION

PROJECTS

DEVELOPMENT OF OML 147 TO FIRST OIL

- Drilling, Workover, Completion of wells
- Provision of 10k/ 2000bhp land rig and ancillary services

TIMELINE

- 2017 – 2021

STATUS

- Tendering stage

POTENTIAL NIGERIAN CONTENT

- Engineering Design
- Fabrication & Construction
- Procurement
- Marine Vessels
- Training/ Consultancy
- Land Rig
- Installation and Commissioning
- Workover Rig
- Drilling Services
- Completions equipment



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COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

PAN OCEAN OIL CORPORATION

PROJECTS

PROVISION OF RIG LESS THROUGH TUBING PRODUCTION IMPROVEMENTS

- Well stimulation, solvent soak, clean out and Nitrogen lift
- Water shut off and re-perforation

TIMELINE

- 2018 – 2019



STATUS

- Tendering stage

POTENTIAL NIGERIAN CONTENT

- Engineering Design
- Fabrication & Construction
- Procurement
- Coiled tubing and Wireline
- Training/ Consultancy
- Well services
- Drilling Services
- Completions equipment



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

PAN OCEAN OIL CORPORATION

PROJECTS

ASSET INTEGRITY

- Carry-out integrity checks on the wellheads/completions
- Carry-out injectivity test and stimulate

TIMELINE

- 2018 – 2020



STATUS

- Tendering Stage

POTENTIAL NIGERIAN CONTENT

- Procurement
- Training/ Consultancy
- Well Services
- Completions activities
- QA/ QC



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017
COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIAN GAS PROCESSING AND TRANSPORTATION COMPANY (NGPTC)

PROJECTS
PROJECTS

ODIDI-WARRI EXPANSION PIPELINE (OWEP)

- Construction of 40" x 30km class 600 gas pipeline system from Odidi to Warri

TIMELINE

- To be awarded in 2017



STATUS

- Engineering completed
- Procurement of line pipes awarded.
- EPC and Project Management Contracts at the point of award

POTENTIAL NIGERIAN CONTENT

- Nos. 40" LBVs
- 1No. 40"Pig launcher
- 1No. 40"Pig receiver
- 100km of 3LPE coating, Fittings



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIAN GAS PROCESSING AND TRANSPORTATION COMPANY (NGPTC)

PROJECTS

OBIAFU/OBRIKOM (OBOB) TO THE CUSTODY TRANSFER STATION (CTMS) OF THE OBOB- OBEN (OB3) PIPELINE

- Engineering, Procurement and Construction of 24" x 5.5km class 600 gas pipeline from OB/OB Gas Plant to the custody transfer station of the OB3 gas pipeline

TIMELINE

- To be awarded in 2017



STATUS

- FEED On-going
- EPC award negotiation in progress

POTENTIAL NIGERIAN CONTENT

- 1,406MT/5.5km/500Nos. 24" steel line pipes;
- 1No. Pig launcher, 1No. Pig Receiver
- line pipes coating



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017 COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIAN GAS PROCESSING AND TRANSPORTATION COMPANY (NGPTC)

PROJECTS

EARLY GAS PHASE (EGP) OF THE TRANS-NIGERIA GAS PIPELINE (TNGP)

- Engineering, Procurement and Construction of 36" x 132km pipeline from QIT (Akwa Ibom) to Obigbo via Ukanafun, 20" x 42 km pipeline from Cawthorne Channel and Alakiri to Obigbo
- 40" x 88km from Obigbo node to Obiafu/Obrikom.

TIMELINE

- To be awarded in Q2 2018

STATUS

- FEED Completed in 2015
- Execution strategy for EPC under consideration

POTENTIAL NIGERIAN CONTENT

- 51,069MT/132km/11,500Nos. 36" line pipes
- 9,672MT/42km/3,500Nos. 20" line pipes
- 1No. Compr. Stn.;
- 4,508MT/88km/7,400Nos. 40" line pipes
- 6Nos. 36" LBVs; 4Nos. 40" LBVs; 5Nos. Pig traps (launcher and receiver)
- 1468km of 3LPE



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIAN GAS PROCESSING AND TRANSPORTATION COMPANY (NGPTC)

PROJECTS

TNGP PHASE 1 (OBIGBO – UMUAHIA – ENUGU – AJAOKUTA)

- Engineering, Procurement and Construction of 36" x 406.5km gas pipeline from Obigbo – Umuahia – Enugu – Ajaokuta

TIMELINE

- Two (2) years; to be awarded latest by Q1 2019



STATUS

- FEED, EIA and Route Survey completed

POTENTIAL NIGERIAN CONTENT

- 42131MT/108.9km/9075Nos. 36" Steel line pipes from Obigbo – Umuahia
- 35129MT/90.8km/7567Nos. 36" Steel line pipes from Umuahia – Enugu
- 80007MT/206.8km/17233Nos. 36" Steel line pipes from Enugu – Ajaokuta
- 3No. 36" pig traps (launcher and receiver); 3LPE coating



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIAN GAS PROCESSING AND TRANSPORTATION COMPANY (NGPTC)

PROJECTS

AJAOKUTA-ABUJA-KADUNA-KANO GAS (AKK) PIPELINE PROJECT

- Engineering, Procurement and Construction of 40" x 614km class 600 main gas pipeline system from Ajaokuta in Kogi State to Kano with 24" x 15km spur lines to Abuja and Kaduna

TIMELINE

- To be awarded in 2017



STATUS

- EIA completed; Route survey (geo-physical and geo-technical) on-going
- FEED to be finalized. On final stage of commercial evaluation

POTENTIAL NIGERIAN CONTENT

- 240,768MT/614km/51,200 Nos. 40" steel line pipes,
- 7,671MT/30km/2600 Nos. 24" steel line pipes
- 25Nos. 40" line break valves (LBVs)
- future tie-in valves



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIAN GAS PROCESSING AND TRANSPORTATION COMPANY (NGPTC)

PROJECTS

GAS SUPPLY TO NIGER-DELTA POWER HOLDING COMPANY (NDPHC) EGBEMA

- Engineering, Procurement and Construction of 24" x 22km gas pipeline from NAOC OB/OB Gas Plant to NDPHC Egbema Power Plant Kaduna

TIMELINE & STATUS

- One (1) Year: to be awarded Q3 2017



STATUS

- Detailed engineering design concluded
- 24" Class 600 line pipes (5,626MT/22km/1750 Nos.) procured
- Tendering for PC in progress

POTENTIAL NIGERIAN CONTENT

- 1No. Pig launcher
- 1No. Pig Receiver
- 3LPE coating
- 6 Nos. 40" pig traps (launchers and receivers)
- 2050km of 3LPE coating



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

NIGERIAN GAS PROCESSING AND TRANSPORTATION COMPANY (NGPTC)

PROJECTS

ESCRAVOS - IBADAN - ILORIN - JEBBA (EIIJ) GAS PIPELINE

- Engineering, Procurement and Construction of 24"/36" x 480km gas pipeline from Pigging Station No. 4 on the ELPS (Escravos to Lagos pipeline System) through Ibadan (Oyo) and Ilorin (Kwara) to Jebba (Niger)

TIMELINE

- Two (2) years; to be awarded latest by Q1 2019



STATUS

- Feasibility studies completed

POTENTIAL NIGERIAN CONTENT

- 32,498MT/84km/7100Nos. 36" Steel line pipes
- 102,838MT/396km/33100 Nos. 24" steel line pipes
- 4Nos. 36" LBVs; 16Nos. 24" LBVs
- 1No. 36" pig trap (launcher and receiver) and 5Nos. 24" pig traps (launchers and receivers)
- 3LPE coating



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

SEVEN ENERGY

PROJECTS

- Expansion of Central Production Facility (CPF) at Stubb Creek to about 10,000blpb production capacity
- Construction of Spur line to enable gas supply to boost the production capacity of industries around Calabar (Cross River State)
- Ukanafun – Oma power plant pipeline construction project to supply gas to Oma power plant in Abia state

TIMELINE

- 2017 – 2022

- 2017 - 2020

- 2017 - 2022

STATUS

** Currently no funds available for the above projects due to current economic climate. Projects are currently suspended – Seven Energy*

POTENTIAL NIGERIAN CONTENT

- Engineering & Project Management;
- Pipelines
- Completions equipment
- Materials and Procurement
- Fabrication & Construction
- Telecommunications/ICSS;
- Transportation
- HSE; including Catering Services;
- Marine Operations & Logistics Services;
- Installation, Hook-up, Pre-commissioning & Commissioning;
- Operation & Maintenance;
- Human Capacity Development (HCD)/ Training
- Logistic.



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

PORT-HARCOURT REFINERY (NNPC)

PROJECTS

- Rehabilitation / Upgrade of Waste Water Treatment plant
- Replacement of Heat Exchangers
- Upgrade of Laboratory Equipment
- Replacement of Pumps
- Rehabilitation of Storage Tanks
- Provision and Installation of New Sewage / Waste Water Treatment Facility
- Replacement of Central Air Conditioning System(s)
- Rehabilitation of Condensate System

TIMELINE

- 2017 – 2018
- 2017 - 2018
- 2017 - 2018
- 2017 - 2018
- 2017
- 2017
- 2018

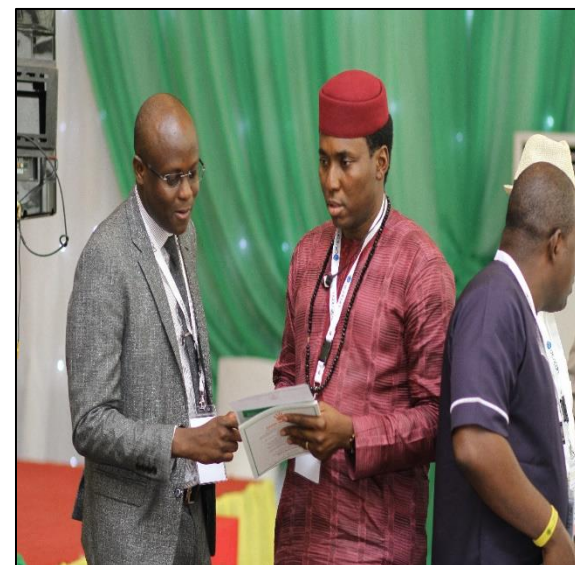


STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Procurement
- Fabrication
- Maintenance
- HVAC
- Process vessels
- Rotating Equipment



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

KADUNA REFINERY AND PETROCHEMICAL COMPANY (NNPC)

PROJECTS

- Fabrication of various equipment
- Re-tubing of Heat Exchangers
- Replacement of Pumps
- Rehabilitation of Storage Tanks
- Rehabilitation / Upgrade of Waste Water Treatment plant
- Upgrade of Laboratory Equipment

TIMELINE

- 2017 - 2018
- 2017 - 2018
- 2017 - 2018
- 2017 - 2018
- 2017 - 2018
- 2017 - 2018



STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Procurement
- Fabrication
- Maintenance
- HVAC
- Process vessels
- Rotating Equipment
-



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

WARRI REFINERY & PETROCHEMICAL COMPANY (NNPC)

PROJECTS

- Various Procurement Orders spanning Heaters, Column Internals, Compressors, Custody Transfer Meters, Jetty Loading Arms and other Machinery
- Rehabilitation of Waste Water Treatment Plants in Refinery and Petrochemicals Plants
- Rehabilitation / Upgrade of Jetty facilities
- New Burner Management System for Boiler
- Major Overhaul of Gas Turbines
- Upgrade of Laboratory Equipment

TIMEL

- 2017 - 2018
- 2017 - 2018
- 2017 - 2018
- 2017 - 2018
- 2017 - 2018



STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Procurement
- Fabrication
- Maintenance
- HVAC
- Process vessels
- Rotating Equipment



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

A-Z PETROLEUM

PROJECTS

FABRICATION OF GASOLINE TANKER TRUCKS

- Fabrication and procurement of 70 (45,000 ltrs) tanker trucks
- Fabrication and procurement of 60 (33,000 ltrs) tanker trucks

EXPANSION OF FUEL RETAIL OUTLETS

- Construction/installation of 40 Nos gasoline/diesel/kerosene retail outlets
- Assembly and procurement of 372 pumps

TANK FARM FABRICATION AND CONSTRUCTION

TIMEL

- 2018 – 2022
- 2018 - 2022
- 2018 – 2022
- 2018 - 2022
- 2018 - 2022

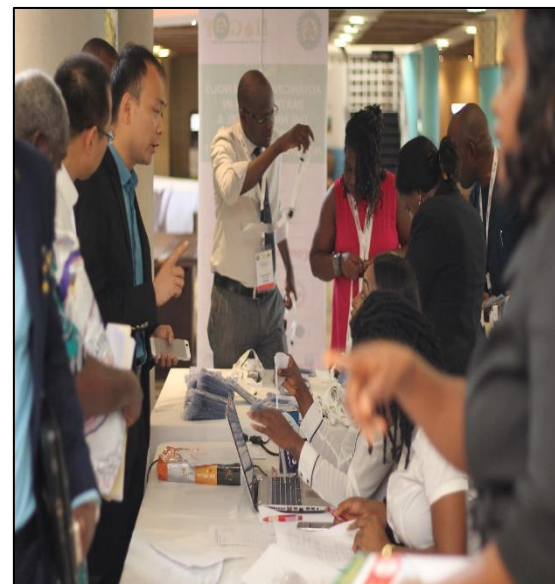


STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

- Procurement
- Fabrication
- Maintenance
- HVAC
- Process vessels
- Rotating Equipment
-



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

YINKA FOLAWIYO PETROLEUM

PROJECTS

OML 113 - AJE FIELD

- Production activities and Operations of FPSO
- Field data collection for history matching to validate models and better define reservoir characteristics
- Further evaluation of the field potential by Seismic data interpretation to mature the leads and prospects on the block
- Inspection Repair and Maintenance (IRM) as applicable on subsea and topside assets

TIMELINE

- TBA

STATUS

- Future Opportunity

POTENTIAL NIGERIAN CONTENT

- Production activities and Operations of FPSO
- Reservoir analysis
- by Seismic data interpretation
- Inspection Repair and Maintenance (IRM)



NIGERIA OIL AND GAS OPPORTUNITY FAIR (NOGOF) 2017

COMPENDIUM OF NIGERIAN CONTENT OPPORTUNITIES

DPR

OPPORTUNITIES

EXPANDING DS GAS MARKET

- Local fabrication of LPG plants and equipment
- Most of the newly established plants ordered their tanks & compressors from China & Dubai
- Manufacturing of consumables such as LPG cylinders, cryogenic tanks, valves, regulators
- Need to develop affordable gas burners to service the growing clientele

OPPORTUNITIES TO SERVICE UPCOMING JETTIES, DEPOTS & RETAIL OUTLETS

TIMEL

- On-going



STATUS

- Ongoing

POTENTIAL NIGERIAN CONTENT

EXPANDING DS GAS MARKET

- Local fabrication of LPG plants and equipment
- Manufacturing of consumables such as LPG cylinders, cryogenic tanks, valves, regulators

Manufacturing of:

- Bolts & nuts
- Flanges
- Valves
- Dispensing Hoses
- Meters
- Pumps
- Flexible connectors
- Conveyor Belts
- Motors
- Gaskets.

