



## Department of Petroleum Resources

### 2016 OIL & GAS ANNUAL REPORT

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Furthermore, the Department of Petroleum Resources, in a drive to improve regulatory efficiency across the value-chain, has embarked on implementation of strategic programs, such as the automation of all business processes and comprehensive upgrade of its standard operating procedures to deliver prompt and quality service to the industry.

This annual activity report on the Nigerian Oil and Gas Industry is the 4th Edition since the initiative resumed in 2013. It aims to provide critical information to the public on the activities of the industry in the year under review. I recommend it to our numerous stakeholders.

M. D. B. Ladan

2. REGULATORY STRUCTURE OF THE NIGERIAN OIL AND GAS INDUSTRY

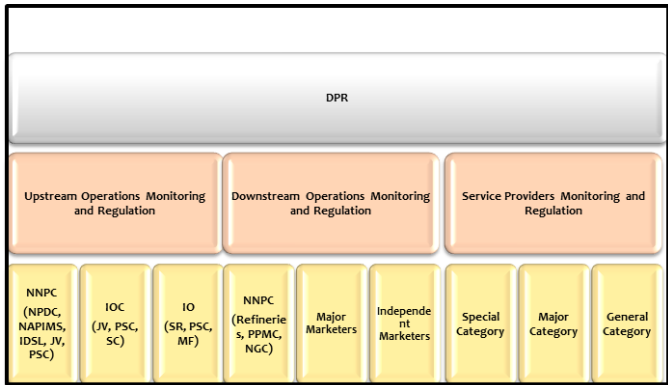


Figure 1: The Nigeria Oil and Gas Industry

Department of Petroleum Resources is the regulatory agency of the oil and gas industry in Nigeria. Specifically, the roles of the Department include:-

- 1. Conservation of Nigeria’s Hydrocarbon Resources
- 2. Regulation and Monitoring of industry activities to ensure compliance with best standards & practices
- 3. Ensure safe, and environmentally sustainable development of the oil and gas operations’ activities
- 4. Maintenance and administration of the national repository for archiving and retrieval of oil and gas data
- 5. Administration & management of acreages and concessions
- 6. Implementation of all government policies

3. ADAPTATION OF NEW TECHNOLOGY IN THE OIL AND GAS INDUSTRY

1.1 INTRODUCTION

Since the beginning of the modern age of the oil and gas industry, technology has played a fundamental role in supporting the efficient production of hydrocarbons. Oil and gas technologies are often destined for hostile, hard-to-reach environments such as deep offshore waters or in the high subsurface temperatures and pressures. New technologies can streamline the production, improve the recovery rate and provide economic benefits. The challenge is that new technology may involve potential threats with high uncertainties which must be properly mitigated and reduced to an acceptance level before the technology is implemented. New technology must therefore be qualified by a systematic process where the required performance is assured by identifying and managing these uncertainties.

DPR’s Technology Qualification (TQ) process provides the industry with a systematic approach to the qualification of new technology. It is usually conducted by independent Testing, Inspection and Certification (TIC) agencies and / or regulatory authorities to validate the system and verify that it is fit for purpose and confirm its compliance with specifications.

1.1.1 Objective of Technology Qualification

The overall objective of the TQ is to provide a systematic approach on how the qualification should be carried out, in order to provide traceable evidence that the technology meets specified requirements for the intended use, within an acceptable level of confidence and that it is sufficiently reliable and safe for the people and the environment.

1.1.2 Scope of Technology Qualification

Individual components in a system might be proven, however, when they are assembled in a novel way, the system as a whole may be considered a new technology with the attendant uncertainties. Proven technology in a new environment is considered new technology.

Technologies that are not new but are yet to be covered by normative standards

To qualify new technologies, several industry standards and governing documentations are considered. These technical documents provide guidance, requirements, and input to the process. The DPR TA requirements cover both regulatory-specific requirements and compliance to industry standards.

1.1.2.1 Regulatory Specific Qualification Requirements

Proposals for new Technology Adaptation/Qualification must be accompanied by (a) DPR Oil Industry Service Company Permit, (b) letter of Relationship with Original Equipment Manufacturer(OEM) or Technology Provider and (c) evidence of Patents/ Intellectual Property Rights, where applicable

The TQ requirements cover the following technical activities:

- i. Technical Audit/Site Inspection of OEM and Nigerian Technology Partner
- ii. Laboratory evaluation of novel technology and on-site visits to facilities where technology has been deployed
- iii. Pilot implementation of qualified technology

Compliance to Nigerian oil and gas Legislation and subsisting regulations:

Technology Providers are required to comply with all relevant Nigerian Oil and Gas Legislation, Standards and Guidelines including but not limited to; (a) Petroleum Act 1969, (b) Petroleum Refining Act, (c) Oil Pipeline Act, (d) Petroleum (Drilling & Production) Regulations 1967 and (e) Mineral Oil (Safety) Regulation (MOSR) 1997

1.1.2.2 Compliance to Industry Standards

For any new technology to be accepted by DPR, it should demonstrate its compliance with relevant current industry rules or regulations by a relevant and documented qualification process:

International Rules, Standards and Guidance notes like IMO SOLAS (International Maritime Organization Safety of Life at Sea), BV (Bureau Veritas) rules, ISO (International Organization for Standardization) and API (American Petroleum Institute) are a few of the applicable qualifications guidelines, rules and regulations.

## 1.2 TECHNOLOGY ADAPTATION PROCESS

### 1.2.1 Overview

The Technology Adaptation process is a methodology developed with specific acceptance criteria for technology under review. This is focused on, but not limited to the *functionality, performance, reliability / maintainability, availability and safety & environmental considerations*.

The TA process includes, but is not limited to, the following activities:

- Identifying technology elements and their readiness levels
- Assessing risks posed by the elements
- Establishing acceptance criteria and goals
- Evidence collection
- Further analysis and testing including test failure analysis
- Performance review.

It can be implemented at any stage during the lifecycle of development of systems or technology. The outcomes of the process at one stage of the TA process will be used as inputs for the next stage. Traceability from qualification requirements, qualification activities, testing results, qualification results (including recommendations to mitigate identified risks) is ensured throughout the whole Technology Adaptation process.



Figure 2: High-level Work Flow for Evaluating Novel Technologies in DPR



Figure 3: Approved Criteria

### 1.1.1 Stages of Technology Qualification Process

The technology qualification process deals with a structured set of steps assembled in series and connected to a modification stage. This ensures that uncertainties are reduced to an acceptable level and documented prior to approval.

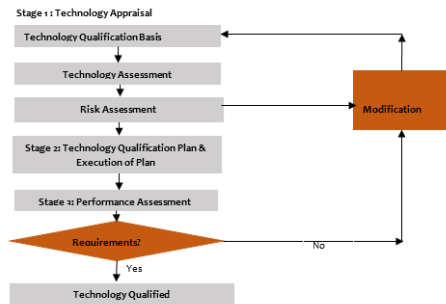


Figure 4: Stage 1 Technology Appraisal

The Technology Adaptation Process is described as follows:

1. **Technology Qualification Basis:** The first stage is where the qualification basis is established. It defines the technology's main objectives, where and how the technology is intended to be used, as well as expectations, technical specifications, functional requirements, environmental parameters, and acceptance criteria through the life cycle.
2. **Technology Assessment:** This step performs an assessment of the technology and determines its degree of novelty where its key challenges and uncertainties are identified. The input to the Technology Assessment includes but not limited to the following supporting documents, which are to be submitted by the applicant:
  - Equipment List
  - Detailed drawings of the items to be qualified
  - Drawings and description of control and safety systems
  - Material specifications
  - Outline fabrication, installation, inspection and maintenance procedures
  - Existing evidence claimed to support qualification (e.g. test reports and documentation of experience).
3. **Risk Assessment:** This identifies the failure modes of the technology, and corresponding failure mechanisms as well as associated risk. The assessment process aims to ensure that all reasonably foreseeable hazards associated with a particular technology are identified and adequately controlled, such as hazards related to novel aspects of system integrity failure, and control/isolation failure.
4. **Technology Qualification Plan:** This is used to provide necessary qualification evidence on how to manage potential unacceptable failure modes. The plan provides for activities that shall obtain reliable evidence and meet requirements stated in the technology qualification basis. The activities shall first of all seek to reduce the failure modes with highest uncertainties. The qualification method may be numerical or analytical analyses, experiments, testing, empirically justified through previous experience or similar methods which are intended to build confidence

In specifying qualification activities, the following are part of the aspects that are considered:

- Analysis to assess the performance of individual elements or the system evaluated
- Detailed risk analyses where applicable
- Modelling and numerical simulation might be used to predict the potential performance of the novel technology.

- Prototyping can be used to provide confidence that the technology can function according to requirements
- Manufacturability
- Material (destructive or non-destructive) testing
- Function testing to demonstrate the performance of the technology
- Proof testing which will demonstrate the limits of the technology
- Audits (e.g. personnel, manufacturing facilities, software,)

5. **Execution of the Plan:** The planned activities are executed and qualification evidence obtained through experience, numerical analysis and test.

The execution of the Technology Qualification Plan consists of the following key steps:

- Carrying out the activities in the Technology Qualification Plan.
- Collecting and documenting the data generated by the respective qualification activities.
- Ensuring traceability of this data.
- Determining the performance margin for each failure mode

6. **Performance Assessment:** In this last step, the qualification evidence is assessed against the technology qualification basis. This is to provide confidence and remove uncertainty from the links between the evidence, failure modes and the requirements in the Technology Qualification Basis. The outcome constitutes the deliverable of the Technology Qualification Process and is the only measure of the confidence that has been established in the technology.

Finally, if the performance assessment concludes that some functional requirements of the new technology are not met, risk control options (modifications to the new technology) and further qualification activities are identified. This can include tightening of the operating envelope for the new technology or enhanced inspection and maintenance and repair strategies to meet the requirements based on the existing evidence. If none of these are feasible, the Technology Qualification has failed. Otherwise, if all functional requirements are met then the technology is qualified for deployment.

Guidance Notes for Technology Qualification, 2014. Lloyd's Register, London, United Kingdom

Mehrdad Sabetzadeha,\_, Davide Falessib, Lionel Briand , Stefano Di Alesi. *Technology Qualification Technologies: Foundations, Tool Support, and Industrial Validation*, 2013. Reliability Engineering and System Safety Journal.

*Procedure for failure mode and effects analysis (FMEA)*. IEC 60812 (2006). International Electrotechnical Commission, Geneva.

*Qualification procedures for new technology*. DNV-RP-A203, Det Norske Veritas Høvik, Norway (DNV), 2011. Available at: <http://exchange.dnv.com/publishing/Codes/download.asp?url=2011-07/rp-a203.pdf>.

*Risk Based Qualification of New Technology - Methodological Guidelines*, NI 525 (2010), Seine Cedex – France

*Technology Qualification Management and Verification Service Specification*, DNVGL-SE-0160 (2015), Det Norske Veritas, Høvik, Norway

*Technology Qualification*, WR 1622 (2009). Statoli ASA, 5.05 edition

**Table 1 : Annual Report on Multi-client Projects in Nigeria**

#	Company	Survey Name	Geological Province	Type Of Survey	Quantum Of Survey(Km/Km1)	Remarks
1	Mabon Limited	African Region Survey	Onshore & Offshore Niger Delta	2D Seismic & Geochemistry Survey	62,000 km	Data available for licensing. Contact company.
2	Mabon Limited	Nigeria Span Survey	Offshore Niger Delta	2D Seismic Regional Survey	12,000 km	Data available for licensing. Contact company.
3	TGS Petrodata JV Offshore Services Ltd	Brokerage of Data	Offshore Niger Delta	2D Seismic	17,000 km	Data available for licensing. Contact company.
4	PGS Geophysical Nig. Ltd	Brokerage of Data	Offshore Niger Delta	3D Seismic	26,000 km2	Data available for licensing. Contact company.
5	PGS Geophysical Nig. Ltd	MC3D	Offshore Benin Basin	3D Seismic	2,845 km2	Data available for licensing. Contact company.
6	PGS Geophysical Nig. Ltd	Mega Survey	Offshore Niger Delta	3D Seismic	98,000 km2	Data available for licensing. Contact company.
7	Sonar / Ikon Science	Niger Delta Pressure Study	Onshore & Offshore Niger Delta	Pore-Pressure Study	Niger Delta	Data available for licensing. Contact company
8	Polarcus Nigeria Limited	Brokerage of Data	Offshore Niger Delta	3D Seismic Survey	9,308km2	Data available for licensing. Contact company.
9	Bilview Energy Services	Well Logs Scanning & Digitizing	Onshore & Offshore Niger Delta	Digital Well Logs	Over 7,000 LAS	Digital Well Logs available for licensing. <a href="http://www.geoinfoweb.com">www.geoinfoweb.com</a>
10	Harvex Geosolutions Limited	Brokerage of Data	Offshore Niger Delta	Controlled Source Electromagnetic	NA	Data is being marketed and licensed. Contact company.

**Table 2 : Status of Oil Mining Leases - OMLs**

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
1	OML29	Joint Venture (JV)	983		Niger Delta - Onshore	AITEO E&P CO	1/7/1989	30-06-2019
2	OML120	Sole Risk (SR)	910		Niger Delta - Deep Offshore	ALLIED ENERGY RESOURCES NIGERIA LTD	27-02-2001	26-02-2021
3	OML121	Sole Risk (SR)	885		Niger Delta - Deep Offshore	ALLIED ENERGY RESOURCES NIGERIA LTD	27-02-2001	26-02-2021
4	OML112	Sole Risk (SR)	438		Niger Delta - Continental Shelf	AMNI INTERNATIONAL DEVELOPMENT CO.	12/2/1998	12/2/2018
5	OML117	Sole Risk (SR)	51		Niger Delta - Continental Shelf	AMNI INTERNATIONAL DEVELOPMENT CO.	6/8/1999	5/8/2019
6	OML52	Joint Venture (JV)	247		Niger Delta - Onshore	AMNI INTERNATIONAL DEVELOPMENT CO.	14-06-1997	13-06-2027
7	OML109	Sole Risk (SR)	772		Niger Delta - Continental Shelf	ATLAS PETROLEUM INTERNATIONAL LTD	25-05-1996	24-05-2016
8	OML55	Joint Venture (JV)	849		Niger Delta - Onshore	BELEMA	14-06-1997	13-06-2027
9	OML110	Sole Risk (SR)	966		Niger Delta - Continental Shelf	CAVENDISH PETROLEUM NIGERIA LIMITED	7/8/1996	6/8/2016
10	OML49	Joint Venture (JV)	1707		Niger Delta - Onshore	CHEVRON NIGERIA LTD.	14-06-1997	13-06-2027
11	OML51	Joint Venture (JV)	145		Niger Delta - Onshore	CHEVRON NIGERIA LTD.	14-06-1997	13-06-2027
12	OML89	Joint Venture (JV)	364		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	18-08-2014	17-08-2034
13	OML91	Joint Venture (JV)	157		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	18-08-2014	17-08-2034
14	OML86	Joint Venture (JV)	385		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	18-08-2014	17-08-2034
15	OML88	Joint Venture (JV)	773		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	18-08-2014	17-08-2034
16	OML90	Joint Venture (JV)	653		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	18-08-2014	17-08-2034
17	OML95	Joint Venture (JV)	1217		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	18-08-2014	17-08-2034

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
18	OML132	Production Sharing Contract (PSC)	804		Niger Delta - Deep Offshore	CHEVRON NIGERIA LTD.	20-12-2005	19-12-2025
19	OML131	Production Sharing Contract (PSC)	1210		Niger Delta - Deep Offshore	OANDO PLC	24-04-2005	23-04-2025
20	OML103	Sole Risk (SR)	914		Niger Delta - Onshore	CONOIL PRODUCING LTD	2/6/1993	1/6/2013
21	OML136	Sole Risk (SR)	1295		Niger Delta - Continental Shelf	CONOIL PRODUCING LTD	27-07-2006	26-07- 2026
22	OML59	Sole Risk (SR)	836		Niger Delta - Onshore	CONTINENTAL OIL AND GAS LTD.	6/6/1998	5/6/2018
23	OML149	Production Sharing Contract (PSC)	428		Niger Delta - Onshore	CONTINENTAL OIL AND GAS LTD.	10/3/2016	9/3/2036
24	N/A	Sole Risk (SR)	221		Niger Delta - Onshore	DUBRI OIL COMPANY	2/5/2013	1/5/2033
25	N/A	Production Sharing Contract (PSC)	656		Niger Delta - Deep Offshore	TOTAL E&P	17-05-2007	16-05-2017
26	OML139	Production Sharing Contract (PSC)	656		Niger Delta - Deep Offshore	TOTAL E&P	17-05-2007	16-05-2017
27	OML99	Joint Venture (JV)	171		Niger Delta - Continental Shelf	TOTAL E&P	2/5/2013	1/5/2033
28	OML100	Joint Venture (JV)	179		Niger Delta - Continental Shelf	TOTAL E&P	2/5/2013	1/5/2033
29	OML102	Joint Venture (JV)	796		Niger Delta - Continental Shelf	TOTAL E&P	2/5/2013	1/5/2033
30	OML58	Joint Venture (JV)	518		Niger Delta - Onshore	TOTAL E&P	14-06-2007	13-06-2027
31	N/A	Sole Risk (SR)	1295		Niger Delta - Onshore	EMERALD ENERGY RESOURCES LIMITED	8/11/2007	7/8/2027
32	OML148	Production Sharing Contract (PSC)	870		Niger Delta - Onshore	ENAGEED RESOURCES LIMITED	15-05-2015	14-05-2035
33	OML18	Joint Venture (JV)	1035		Niger Delta - Onshore	EROTON E&P CO	1/7/2009	30-06-2019
34	OML133	Production Sharing Contract (PSC)	1100		Niger Delta - Deep Offshore	ESSO EXPLORATION	8/2/2006	7/2/2026
35	OML145	Production Sharing Contract (PSC)	1293		Niger Delta - Deep Offshore	ESSO EXPLORATION	30-05-2014	29-05-2034
36	N/A	Sole Risk (SR)	759		Niger Delta - Continental Shelf	EXPRESS PET AND GAS CO LTD	1/11/1995	31-10-2015
37	OML83	Joint Venture (JV)	109		Niger Delta - Continental Shelf	FIRST ARIES PETROLEUM LTD.	18-08-2014	17-08-2034
38	OML85	Joint Venture (JV)	515		Niger Delta - Continental Shelf	FIRST ARIES PETROLEUM LTD.	18-08-2014	17-08-2034
39	OML71	Joint Venture (JV)	730		Niger Delta - Continental Shelf	WAEP/ Dangote	18-12-2014	17-12-2034
40	OML72	Joint Venture (JV)	1129		Niger Delta - Continental Shelf	WAEP/ Dangote	18-12-2014	17-12-2034
41	OML149	Production Sharing Contract (PSC)	941		Niger Delta - Onshore	GLOBAL ENERGY COMPANY LIMITED	5/2/2015	4/2/2035
42	OML149	Production Sharing Contract (PSC)	171		Niger Delta - Continental Shelf	GLOBAL ENERGY COMPANY LIMITED	10/3/2016	9/3/2036
43	OML127	Sole Risk (SR)	1281		Niger Delta - Deep Offshore	STAR DEEPWATER	25-11-2004	24-11-2024
44	OML104	Joint Venture (JV)	675		Niger Delta - Continental Shelf	MOBIL PRODUCING NIGERIA UNLTD	14-01-1998	13-01-2018
45	OML67	Joint Venture (JV)	119		Niger Delta - Continental Shelf	MOBIL PRODUCING NIGERIA UNLTD	11/3/2011	10/3/2031
46	OML68	Joint Venture (JV)	119		Niger Delta - Continental Shelf	MOBIL PRODUCING NIGERIA UNLTD	11/3/2011	10/3/2031
47	OML70	Joint Venture (JV)	1250		Niger Delta - Continental Shelf	MOBIL PRODUCING NIGERIA UNLTD	11/3/2011	10/3/2031
48	OML114	Sole Risk (SR)	464		Niger Delta - Continental Shelf	MONI PULO LTD	3/1/1999	02-01-2019
49	OML24	Joint Venture (JV)	162		Niger Delta - Onshore	NEWCROSS E&P CO	1/7/2009	30-06-2019
50	OML149	Production Sharing Contract (PSC)	990		Niger Delta - Onshore	NEWCROSS E&P CO	14-03-2017	13-03-2037
51	N/A	Production Sharing Contract (PSC)	1131		Niger Delta - Deep Offshore	NIGERIAN AGIP ENERGY (NAE)	31-05-2006	30-05-2026
52	OML125	Production Sharing Contract (PSC)	1219		Niger Delta - Deep Offshore	NIGERIAN AGIP ENERGY (NAE)	2/1/2003	1/1/2023
53	OML60	Sole Risk (SR)	358		Niger Delta - Onshore	NIGERIAN AGIP OIL COMPANY	14-06-1997	13-06-2027
54	OML61	Sole Risk (SR)	1500		Niger Delta - Onshore	NIGERIAN AGIP OIL COMPANY	14-06-1997	13-06-2027
55	OML62	Sole Risk (SR)	1211		Niger Delta - Onshore	NIGERIAN AGIP OIL COMPANY	14-06-1997	13-06-2027
56	OML63	Sole Risk (SR)	2246		Niger Delta - Onshore	NIGERIAN AGIP OIL COMPANY	14-06-1997	13-06-2027
57	OML16	Service Contract (SC)	360		Niger Delta - Continental Shelf	AGIP ENERGY & NATURAL RESOURCES (AENR)	6/8/1979	5/8/2019
58	OML126	Production Sharing Contract (PSC)	705		Niger Delta - Continental Shelf	ADDAX EXPLORATION	25-11-2004	24-11-2024
59	OML137	Production Sharing Contract (PSC)	849		Niger Delta - Continental Shelf	ADDAX EXPLORATION	23-04-2007	22-04-2027
60	OML123	Production Sharing Contract (PSC)	401		Niger Delta - Continental Shelf	ADDAX EXPLORATION	14-08-2002	13-04-2022
61	OML124	Production Sharing Contract (PSC)	300		Niger Delta - Onshore	ADDAX EXPLORATION	14-08-2002	13-04-2022
62	OML40	Sole Risk (SR)	498		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	1/7/1989	30-06-2019
63	OML42	Sole Risk (SR)	814		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	1/7/1989	30-06-2019
64	OML26	Sole Risk (SR)	165		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	1/7/1989	30-06-2019
65	OML34	Sole Risk (SR)	950		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	1/7/1989	30-06-2019
66	OML119	Sole Risk (SR)	715		Niger Delta - Continental Shelf	NIGERIA PET. DEV. CO. (NPDC)	31-10-2000	30-10-2020
67	OML111	Sole Risk (SR)	461		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	6/18/1905	7/8/1905
68	OML64	Sole Risk (SR)	278		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	-09-1989	1/9/1900
69	OML65	Sole Risk (SR)	1019		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	-09-1989	1/9/1900
70	OML66	Sole Risk (SR)	204		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	7/9/1989	6/9/2019
71	OML13	Sole Risk (SR)	1988		Niger Delta - Onshore	NIGERIA PET. DEV. CO. (NPDC)	20-12-2016	19-12-2036
72	OML30	Joint Venture (JV)	1097		Niger Delta - Onshore	NPDC/ SHORELINE NATURAL RESOURCES	1/7/1989	30-06-2019
73	OML14	Sole Risk (SR)	1220		Niger Delta - Deep Offshore	OIL AND GAS NIGERIA LIMITED	18-07-07	17-07-2027
74	OML115	Sole Risk (SR)	310		Niger Delta - Continental Shelf	ORIENTAL ENERGY RESOURCES	20-5-1999	19-5-2019
75	OML98	Joint Venture (JV)	523		Niger Delta - Onshore	PANOCEAN OIL CORPORATION NIG	-06-1976	7/7/2018
76	OML145	Production Sharing Contract (PSC)	544		Niger Delta - Onshore	PANOCEAN OIL CORPORATION NIG	23-10-2014	22-10-2034
77	OML122	Sole Risk (SR)	1295		Niger Delta - Continental Shelf	PEAK PETROLEUM INDUSTRIES NIGERIA LIMITED	17-05-2001	16-05-2021
78	OML4	Sole Risk (SR)	267		Niger Delta - Onshore	SEPLAT PRODUCTION AND DEV. CO.	1/7/1989	30-06-2019
79	OML38	Sole Risk (SR)	2152		Niger Delta - Onshore	SEPLAT PRODUCTION AND DEV. CO.	1/7/1989	30-06-2019



#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
80	OML41	Sole Risk (SR)	291		Niger Delta - Onshore	SEPLAT PRODUCTION AND DEV. CO.	1/7/1989	30-06-2019
81	OML53	Joint Venture (JV)	1562		Niger Delta - Onshore	SEPLAT PRODUCTION AND DEV. CO.	14-06-1997	13-06-2027
82	OML11	Joint Venture (JV)	3097		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
83	OML17	Joint Venture (JV)	1301		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
84	OML20	Joint Venture (JV)	405		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
85	OML21	Joint Venture (JV)	372		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
86	OML22	Joint Venture (JV)	722		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
87	OML23	Joint Venture (JV)	483		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
88	OML25	Joint Venture (JV)	429		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
89	OML27	Joint Venture (JV)	165		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
90	OML28	Joint Venture (JV)	936		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
91	OML31	Joint Venture (JV)	1097		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
92	OML32	Joint Venture (JV)	565		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
93	OML33	Joint Venture (JV)	336		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
94	OML35	Joint Venture (JV)	1144		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
95	OML36	Joint Venture (JV)	338		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
96	OML43	Joint Venture (JV)	767		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
97	OML45	Joint Venture (JV)	76		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
98	OML46	Joint Venture (JV)	1080		Niger Delta - Onshore	SHELL PETROLEUM DEVELOPMENT CO.	1/7/1989	30-06-2019
99	OML74	Joint Venture (JV)	1324		Niger Delta - Continental Shelf	SHELL PETROLEUM DEVELOPMENT CO.	18-12-2014	17-12-2034
100	OML77	Joint Venture (JV)	962		Niger Delta - Continental Shelf	SHELL PETROLEUM DEVELOPMENT CO.	18-12-2014	17-12-2034
101	OML79	Joint Venture (JV)	970		Niger Delta - Continental Shelf	SHELL PETROLEUM DEVELOPMENT CO.	18-12-2014	17-12-2034
102	OML118	Production Sharing Contract (PSC)	1167		Niger Delta - Deep Offshore	SHELL NIG. E&P CO. (SNEPCO)	28-11-2005	27-11-2025
103	OML135	Production Sharing Contract (PSC)	926		Niger Delta - Deep Offshore	SHELL NIG. E&P CO. (SNEPCO)	3/7/2006	2/7/2026
104	OML130	Sole Risk (SR)	1295		Niger Delta - Deep Offshore	SOUTH ATLANTIC PETROLEUM LIMITED	25-04-2005	24-04-2025
105	OML127	Production Sharing Contract (PSC)	1198		Niger Delta - Deep Offshore	STAT OIL	28-12-2004	27-12-2024
106	OML129	Production Sharing Contract (PSC)	1023		Niger Delta - Deep Offshore	STAT OIL	28-12-2004	27-12-2024
107	OML142	Sole Risk (SR)	1295		Anambra Basin - Onshore	SUMMIT OIL INTERNATIONAL	12/6/2009	11/6/2029
108	OML144	Sole Risk (SR)	96		Niger Delta - Continental Shelf	SUNLINK PETROLEUM	2/5/2013	1/5/2033
109	OML145	Production Sharing Contract (PSC)	29		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPKO)	25-10-2014	24-10-2034
110	OML143	Production Sharing Contract (PSC)	369		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPKO)	29-12-2010	28-12-2030
111	OML113	Sole Risk (SR)	1670		Benin Basin - Continental Shelf	YINKA FOLAWIYO PET CO LTD	1/6/1998	31-05-2018

■ Service Contract (SC)
■ Sole Risk (SR)
■ Marginal (MF)
■ Joint Venture (JV)
■ Production Sharing Contract (PSC)

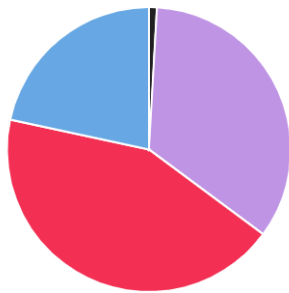


Figure  
Distribution of Nigerian OML by Contract Type

■ Concession By Terrain

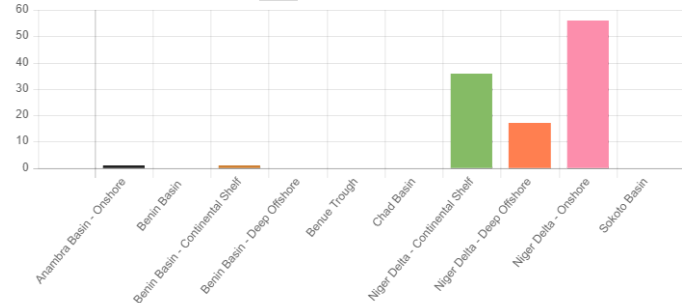


Figure  
Distribution of Nigerian Concessions by Terrain

**Table 3 : Status of Oil Prospecting Licenses - OPLs**

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
1	OPL907	Production Sharing Contract (PSC)	2498		Anambra Basin - Onshore	AFREN GLOBAL ENERGY RESOURCES LIMITED	6/27/1905	19-02-2018
2	OPL917	Production Sharing Contract (PSC)	1710		Anambra Basin - Onshore	AFREN GLOBAL ENERGY RESOURCES LIMITED	6/27/1905	19-02-2018
3	OPL452	Sole Risk (SR)	522		Niger Delta - Onshore	AMALGAMATED OIL CO. LTD.	6/14/1905	24-05-2016
4	OPL325	Production Sharing Contract (PSC)	1265		Benin Basin - Deep Offshore	ASHBERT OIL & GAS LTD.NPDC/TRAIN-COSY ENERGY	6/27/1905	
5	OPL286	Production Sharing Contract (PSC)	804		Niger Delta - Deep Offshore	SAHAHRA.BG EXP. NIC LTD.	6/28/1905	7/3/2017
6	OPL240	Production Sharing Contract (PSC)	48		Niger Delta - Continental Shelf	BOC JNHP CONSORTIUM	6/29/1905	

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
7	OPL471	Production Sharing Contract (PSC)	1370		Niger Delta - Continental Shelf	CHINA NATIONAL OIL DEV. CO (CNODC)	6/28/1905	22-04-21017
8	OPL257	Production Sharing Contract (PSC)	426		Niger Delta - Deep Offshore	CONOIL PRODUCING LTD	6/27/1905	8/2/2016
9	OPL289	Production Sharing Contract (PSC)	386		Niger Delta - Continental Shelf	CLEANWATERS CONSORTIUM	6/28/1905	22-04-2012
10	OPL290	Production Sharing Contract (PSC)	531		Niger Delta - Continental Shelf	CONOIL PRODUCING LTD	6/29/1905	16-10-2013
11	OPL305	Sole Risk (SR)	1558		Benin Basin	CROWNWELL PETROLEUM LTD	6/15/1905	18-05-20202
12	OPL306	Sole Risk (SR)	1889		Benin Basin	CROWNWELL PETROLEUM LTD	6/15/1905	18-05-2020
13	OPL322	Sole Risk (SR)	1789		Niger Delta - Deep Offshore	DAJO OIL LIMITED	30-03-2004	26-02-2019
14	OPL204	Sole Risk (SR)	1670		Niger Delta - Onshore	AFRICOIL & MARKETING CO. LTD.	10/8/1993	8/7/2010
15	OPL251	Production Sharing Contract (PSC)	940		Niger Delta - Deep Offshore	DSV	16-12-2012	
16	OPL221	Production Sharing Contract (PSC)	2286		Niger Delta - Deep Offshore	TOTAL E&P	19-11-2003	18-11-2013
17	OPL227	Sole Risk (SR)	974		Niger Delta - Continental Shelf	EXPRESS PET AND GAS CO LTD	6/22/1905	2/12/2018
18	OPL226	Production Sharing Contract (PSC)	1257		Niger Delta - Continental Shelf	ESSAR E&P LIMITED	18-05-2007	9/3/2015
19	OPL233	Production Sharing Contract (PSC)	920		Niger Delta - Deep Offshore	ESSO EXPLORATION	19-07-2005	18-07-2015
20	OPL235	Sole Risk (SR)	1480		Niger Delta - Onshore	FIRST ARIES PETROLEUM LTD.	10/8/1993	
21	OPL905	Production Sharing Contract (PSC)	2600		Benin Basin - Deep Offshore	GAS TRANSMISSION & POWER LIMITED	23-04-2007	22-04-2017
22	OPL2010	Production Sharing Contract (PSC)	179		Niger Delta - Continental Shelf	GLOBAL ENERGY COMPANY LIMITED	18-05-2007	29-12-2015
23	OPL2012	Production Sharing Contract (PSC)	849		Niger Delta - Continental Shelf	GRASSO NIG. LTD..SIGMUND OIL FIELDS LTD.	16-06-2012	17-06-2019
24	OPL247	Sole Risk (SR)	1165		Niger Delta - Deep Offshore	HERITAGE OIL & GAS CO. LTD.	1/3/1900	5/4/2019
25	OPL252	Production Sharing Contract (PSC)	814		Niger Delta - Deep Offshore	INC NATURAL RESOURCES	6/28/1905	
26	OPL292	Production Sharing Contract (PSC)	1195		Niger Delta - Deep Offshore	INC NATURAL RESOURCES	6/28/1905	
27	OPL234	Production Sharing Contract (PSC)	1214		Niger Delta - Onshore	MONI PULO LTD	6/29/1905	15-12-2013
28	OPL239	Production Sharing Contract (PSC)	65		Niger Delta - Continental Shelf	MONI PULO LTD	6/29/1905	15-12-2013
29	OPL231	Production Sharing Contract (PSC)	244		Niger Delta - Onshore	MONI PULO LTD	6/29/1905	16-05-2016
30	OPL276	Production Sharing Contract (PSC)	472		Niger Delta - Onshore	NEWCROSS E&P CO	16-02-2006	20-01-2017
31	OPL733	Production Sharing Contract (PSC)	2611		Chad Basin	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	6/27/1905	7/8/2016
32	OPL809	Production Sharing Contract (PSC)	2581		Benue Trough	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	6/27/1905	7/8/2016
33	OPL810	Production Sharing Contract (PSC)	2584		Benue Trough	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	6/27/1905	7/8/2016
34	OPL722	Production Sharing Contract (PSC)	2540		Chad Basin	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	6/27/1905	7/8/2016
35	OPL244	Production Sharing Contract (PSC)	1700		Niger Delta - Deep Offshore	NIGERIA AGIP EXPL. LTD (NAE).SHELL NIG.ULTRA DEEP LTD.	6/22/1905	19-12-2011
36	OPL282	Production Sharing Contract (PSC)	695		Niger Delta - Continental Shelf	NIGERIAN AGIP OIL COMPANY	6/27/1905	7/9/2015
37	OPL291	Production Sharing Contract (PSC)	1287		Niger Delta - Deep Offshore	STARCREST LIMITED	6/28/1905	15-10-2016
38	OPL702	Sole Risk (SR)	2574		Chad Basin	NNPC.FES	5/20/1905	Not applicable due to section 20 of NNPC Act Cap 320 of LFN 1990
39	OPL703	Sole Risk (SR)	2772		Chad Basin	NNPC.FES	5/20/1905	
40	OPL705	Sole Risk (SR)	2547		Chad Basin	NNPC.FES	5/20/1905	
41	OPL707	Sole Risk (SR)	2582		Chad Basin	NNPC.FES	5/20/1905	
42	OPL242	Production Sharing Contract (PSC)	1789		Niger Delta - Deep Offshore	NIGERIA PET. DEV. CO. (NPDC)	7/3/2011	
43	OPL233	Production Sharing Contract (PSC)	126		Niger Delta - Continental Shelf	NIGER DELTA PET. RESOURCES LTD	6/28/1905	29-06-2016
44	OPL215	Sole Risk (SR)	2586		Niger Delta - Deep Offshore	NOREAST PET. NIG. LTD.	21-10-1991	20-04-2020
45	OPL325	Sole Risk (SR)	1652		Niger Delta - Deep Offshore	NOREAST PET. NIG. LTD.	13-05-1999	

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
46	OPL236	Production Sharing Contract (PSC)	1652		Niger Delta - Onshore	OANDO PLC	6/27/1905	7/9/2011
47	OPL278	Production Sharing Contract (PSC)	92		Niger Delta - Onshore	OANDO PLC	6/27/1905	7/9/2015
48	OPL241	Production Sharing Contract (PSC)	1257		Niger Delta - Deep Offshore	OILWORLD LIMITED	6/29/1905	9/3/2020
49	OPL285	Production Sharing Contract (PSC)	1167		Niger Delta - Deep Offshore	EMO E&P.TOTAL E&P LTD	6/28/1905	22-02-2017
50	OPL279	Production Sharing Contract (PSC)	1103		Niger Delta - Deep Offshore	EMO E&P.TOTAL E&P LTD	6/28/1905	22-02-2017
51	OPL297	Production Sharing Contract (PSC)	1290		Niger Delta - Deep Offshore	ONGC - MITTAL ENERGY NIGERIA LTD (OMEL)	6/28/1905	
52	OPL310	Sole Risk (SR)	1935		Benin Basin - Deep Offshore	OPTIMUM PETROLEUM DEVELOPMENT LIMITED	6/14/1905	9/6/2018
53	OPL915	Sole Risk (SR)	1195		Anambra Basin - Onshore	ORIENTAL PET. REFINERY LTD.	31-01-2005	29-01-2015
54	OPL916	Sole Risk (SR)	963		Anambra Basin - Onshore	ORIENTAL PET. REFINERY LTD.		
55	OPL320	Production Sharing Contract (PSC)	1789		Benin Basin - Deep Offshore		6/24/1905	16-07-2021
56		Production Sharing Contract (PSC)	1023		Niger Delta - Deep Offshore		7/7/1905	
57	OPL284	Production Sharing Contract (PSC)	1131		Niger Delta - Deep Offshore	SAHARA ENERGY E&P	17-07-2006	6/7/2017
58	OPL228	Production Sharing Contract (PSC)	1915		Niger Delta - Onshore	SAHARA ENERGY E&P	11/5/2007	
59	OPL245	Sole Risk (SR)	1958		Niger Delta - Deep Offshore	NIGERIA AGIP EXPL. LTD (NAE).SHELL NIG.ULTRA DEEP LTD.	22-12-2003	10/5/2021
60	OPL206	Sole Risk (SR)	2020		Anambra Basin - Onshore	SUMMIT OIL INTERNATIONAL	6/12/1905	19-01-2014
61	OPL2005	Production Sharing Contract (PSC)	662		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEPCO)	6/29/1905	29-04-2019
62	OPL2006	Production Sharing Contract (PSC)	662		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEPCO)	6/29/1905	29-04-2019
63		Production Sharing Contract (PSC)	103		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEPCO)	7/8/1905	
64	OPL2008	Production Sharing Contract (PSC)	41		Niger Delta - Continental Shelf	TENOIL PET. & ENERGY SERVICES LTD.CLAYFORD	6/29/1905	25-05-2016
65	OPL281	Production Sharing Contract (PSC)	122		Niger Delta - Onshore	TRANSNATIONAL CORPORATION	6/28/1905	1/5/1900
66	OPL257	Production Sharing Contract (PSC)	234		Niger Delta - Deep Offshore	WAEP/ Dangote	6/29/1905	
67	OPL292	Production Sharing Contract (PSC)	1218		Niger Delta - Deep Offshore	WAEP/ Dangote	6/29/1905	
68	OPL248	Production Sharing Contract (PSC)	2448		Niger Delta - Deep Offshore	ZEBBRA ENERGY LIMITED	6/21/1905	1/6/1900

■ Service Contract (SC) 
 ■ Sole Risk (SR) 
 ■ Marginal (MF) 
 ■ Joint Venture (JV) 
 ■ Production Sharing Contract (PSC)

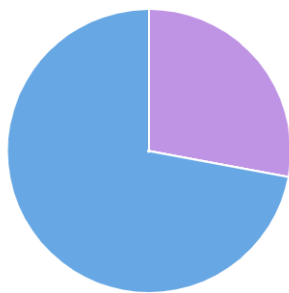


Figure Distribution of Nigerian OPL by Contract Type

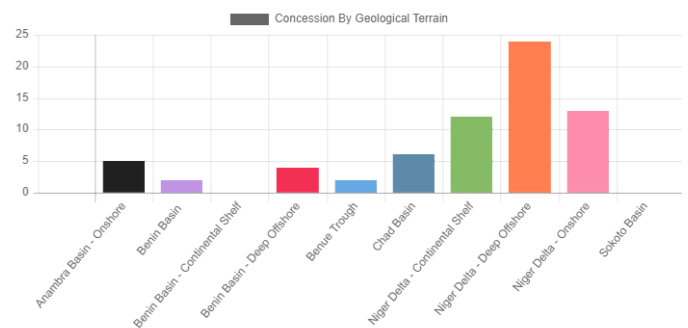


Figure Distribution of Nigerian OPL by Geological Terrain

**Table 4 : Summary Of Acreage Situation As At 31 December**

Basin	No of OPL Blocks Allocated	No of OML Blocks Allocated	No Of Open Blocks	Total No Of Blocks
Anambra	6	1	12	19
Benin	9	3	36	48
Benue	2	0	41	43
Bida	0	0	17	17

Basin	No of OPL Blocks Allocated	No of OML Blocks Allocated	No Of Open Blocks	Total No Of Blocks
Chad	6	0	40	46
Niger Delta	53	105	34	192
TOTAL	76	109	180	365

Figure 1 : Summary Of Acreage Situation As At 31 December

46 192

Figure  
Summary of Acreage Situation

**Table 5 : List of Marginal Fields**

Field Name	Company Name	Block
OGBELLE	NIGER DELTA PET. RESOURCES LTD	OML54
IDU	NIGER DELTA PET. RESOURCES LTD	OML53
AKPO	PRIME EXPLORATION	OML11
IBOT	ORIENTAL ENERGY RESOURCES	OML67
ATRIA	ORIENTAL ENERGY RESOURCES	OML67
STUBB-CREEK	UNIVERSAL ENERGY	OML13/14
DAWES-ISLAND	EURAFRIC ENERGY LIMITED	OML54
UMUSETI	PILLAR OIL LTD	OML56
ALA	BAYELSA OIL COMPANY LTD	OML46
BENIBOYE SOUTH	MOVIDO E&P LIMITED	OML88
GALISOMA	BICTA ENERGY & MANAGEMENT SYSTEMS LIMITED	OML90
ORORO	GUARANTEE PETROLEUM LIMITED (OPERATOR)	OML95
AZUZUAMA	PLATFORM PETROLEUM	OML38
AMOJIE	SOGENAL LIMITED	OML56
AGBAMI	SOGENAL LIMITED	OML90
ISONSI	MILLENIUM OIL AND GAS LIMITED	OML11
AFIA	YINKA FOLAWIYO PET CO LTD	OML90
IYEDE	NETWORK E&P NIGERIA	OML13
DIBI	WALTERSMITH PETROMAN OIL LIMITED	OML16
UMUSADEGE	MIDWESTER OIL AND GAS CO. LTD./Suntrust Oil Company Limited	OML56
EWOLIGBI	INDEPENDENT ENERGY LIMITED	OML30
KE	DEL SIGMA	OML55
AMENAM - KPONO	ASSOCIATED OIL AND GAS LIMITED (OPERATOR)	OML14
KRAKAMA	FRONTIER OIL LTD.	OML13
EBENDO/OBODETI	ENERGIA LTD.	OML56
IKIKE	GOLAND PETROLEUM DEV. CO. LIMITED	OML88
BONGA-NORTH	EXCEL EXPLORATION & PRODUCTION LIMITED	OML46
KD	SAHARA ENERGY LIMITED (OPERATOR)	OML40
INYI CREEK	GREEN ENERGY INTERNATIONAL LIMITED	OML11
KIFI	ALL GRACE ENERGY LIMITED	OML17

**Table 6 : Oil and Condensates Reserves**

Year	Oil (MMbbl)	Condensate (MMbbl)	(Oil + Condensate) (MMbbl)
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0
2010	31219.00	0	31219
2011	31169.60	0	31169.6
2012	32233.24	743450.00	775683.24
2013	31813.51	0	31813.51
2014	31870.00	0	31870
2015	31643.91	0	31643.91
2016	31271.77	0	31271.77

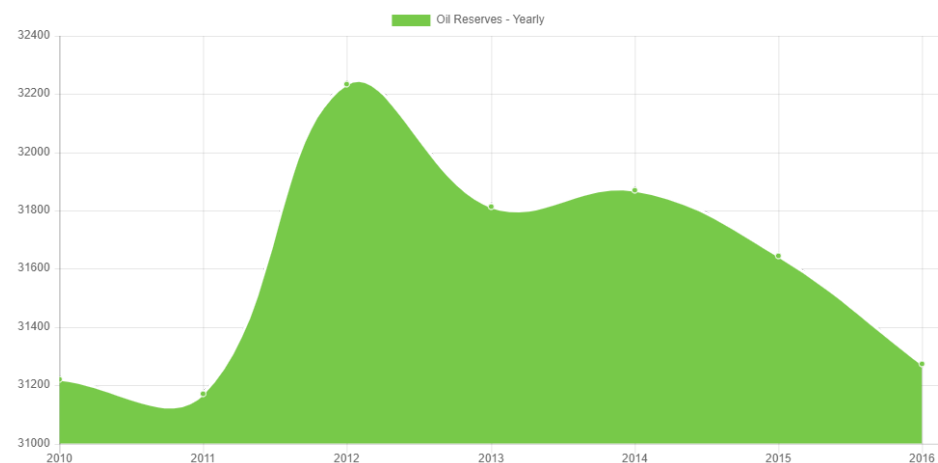


Figure  
Oil Reserves By Year

**Table 7 : Nigeria Oil & Condensate Reserves Distribution on Contract Basis**

Contract Type	Oil (MMbbl)	Condensate (MMbbl)	Total (MMbbl)
Service Contract (SC)	0.00	0.00	0.00
Sole Risk (SR)	0.00	0.00	0.00
Marginal (MF)	0.00	0.00	0.00
Joint Venture (JV)	0.00	0.00	0.00
Production Sharing Contract (PSC)	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Table 8 : Nigeria Oil & Condensate Reserves Distribution on Terrain Basis as at January 1,**

Terrain	Oil (MMbbl)	Condensate (MMbbl)	Total (MMbbl)
Land	0.00	0.00	0.00
Shallow Offshore	0.00	0.00	0.00
Deep Offshore	0.00	0.00	0.00
Swamp	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

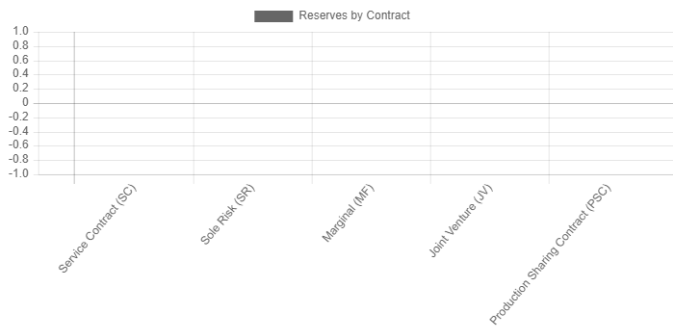


Figure  
Oil & Condensate Reserves Distribution on Contract

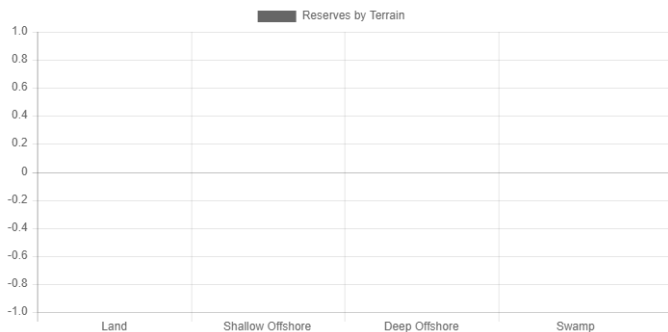


Figure  
Oil & Condensate Reserves Distribution on Terrain

**Table 9 : Oil Reserves Net Addition, Depletion Rate and Life Index on Contract Basis**

Contract Type	Production, Million Barrels	Net Addition (Crude Oil), Million Barrels	% Net Addition	Depletion Rate, %	Life Index, Years
Total	0	0	0	0	0

**Table 10 : Reserves Replacement Rate (RRR) on Contract Basis**

Contract Type	Oil & Condensates Reserves as at 1/1 2017	Oil & Condensates Reserves as at 1/1 2016	2016 Oil & Condensates Production, MMB	Net Addition to Oil & Condensate Reserves, MMB	Reserves Replacement Rate, %
Service Contract (SC)	0.00	0.00	0.00	0.00	0.00
Sole Risk (SR)	0.00	0.00	0.00	0.00	0.00
Marginal (MF)	0.00	0.00	0.00	0.00	0.00
Joint Venture (JV)	0.00	0.00	0.00	0.00	0.00
Production Sharing Contract (PSC)	0.00	0.00	0.00	0.00	0.00
Total (National)	0.00	0.00	0.00	0.00	0.00

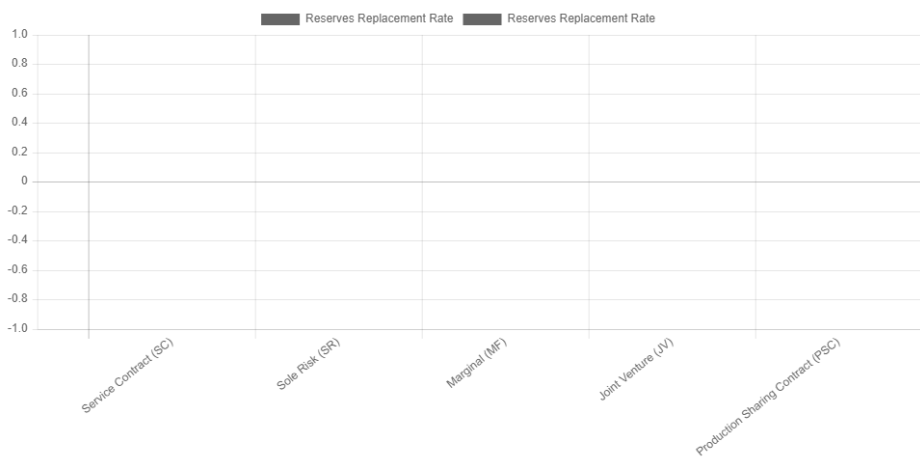


Figure  
2016 Reserves Replacement Rate (RRR)

**Table 11 : Nigeria's Reserves Replacement Rate - RRR - Nine Year Trend**

Year	Oil & Condensate Production, MMB	Reserves Replacement Rate, % Barrels
01/Jan/2006	0.00	0.00
01/Jan/2007	0.00	0.00
01/Jan/2008	0.00	0.00
01/Jan/2009	0.00	0.00
01/Jan/2010	0.00	0.00
01/Jan/2011	500.00	0.00
01/Jan/2012	550.00	0.00
01/Jan/2013	0.00	0.00

Year	Oil & Condensate Production, MMB	Reserves Replacement Rate, % Barrels
01/Jan/2014	0.00	0.00
01/Jan/2015	0.00	0.00
01/Jan/2016	0.00	0.00

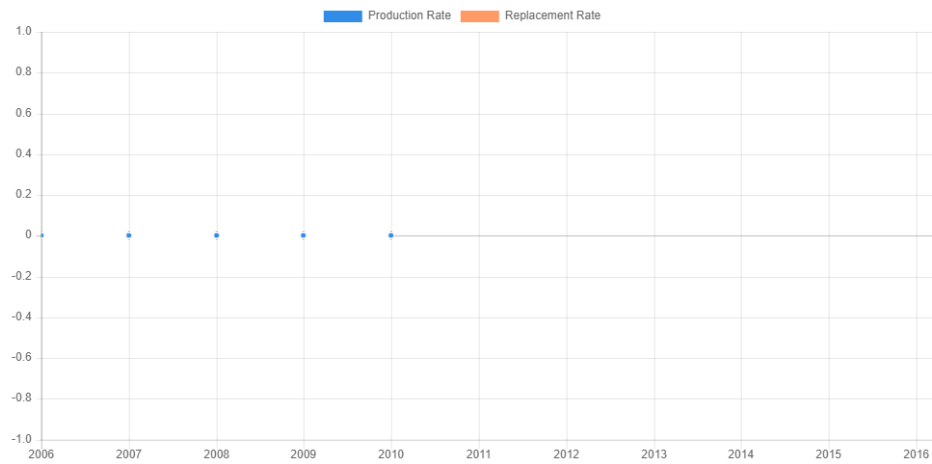


Figure  
Net Reserve Addition, Production & RRR Ten Year Trend

Table 12 : Natural Gas Reserves

Associated Gas (TCF)	Non Associated Gas (TCF)	Total Gas (TCF)
97.253	101.485	198.738

Table 13 : Natural Gas Reserves

Year	Associated Gas (TCF), as at Dec 2016	Non Associated Gas (TCF), as at Dec 2016	Total Gas (TCF), as at Dec 2016
2010	92.945	89.872	182.817
2011	92.904	90.530	183.434
2012	89.729	92.529	182.258
2013	89.652	92.298	181.950
2014	90.094	97.904	187.998
2015	97.208	94.857	192.065
2016	97.253	101.485	198.738

Total Gas Reserves as at 1-Jan-2016 vs 1-Jan-2017

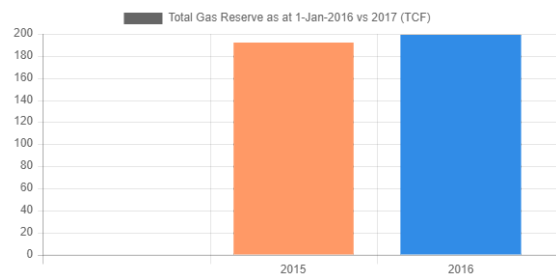


Figure  
Total Gas Reserves

Natural Gas Reserves

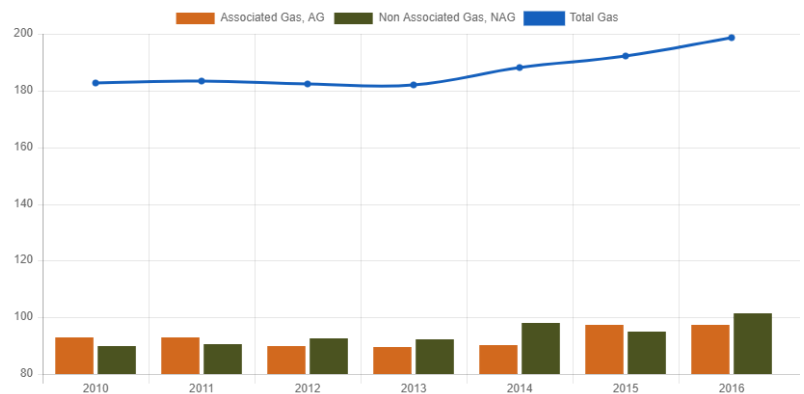


Figure  
Natural Gas Reserves Yearly Trend

Table 14 : Seismic Data Acquisition

Year	Type	Land	Shallow Offshore	Deep Offshore	Total
2016	3-D, Sq.Km	138.50	156.00	0.00	294.5
2015	3-D, Sq.Km	675.80	775.50	455.51	1906.81
2014	3-D, Sq.Km	804.35	2833.03	572.00	4209.38
2013	3-D, Sq.Km	1588.08	1690.24	961.81	4240.13
2012	3-D, Sq.Km	1913.00	568.24	1742.29	4223.53
2011	3-D, Sq.Km	638.27	1127.59	0.00	1765.86
2010	3-D, Sq.Km	1300.94	841.28	2672.79	4815.01
2009	3-D, Sq.Km				0
2008	3-D, Sq.Km				0
2007	3-D, Sq.Km				0
2006	3-D, Sq.Km				0

**Table 15 : Approved 2018 Field Development Plans**

#	Company	Field	Anticipated Production Rate (Bopd/MMscf/d)	Expected Reserves (MMSTB/BSCF)	Commencement Date	Remarks/Status
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**Table 16 : Number of Wells drilled by Terrain**

Year	Land / Swamp	Shallow Offshore	Deep Offshore	Total
2007	0	0	0	0
2008	0	0	0	0
2009	0	0	0	0
2010	0	0	0	0
2011	0	0	0	0
2012	0	0	0	0
2013	42	35	68	145
2014	0	0	0	0
2015	2	3	5	10
2016	0	0	0	0

**Table 17 : Wells Drilled by Contract and Class in**

Contract	Exploratory	Appraisal(1st & 2nd)	Ordinary Appraisal	Development	Total
SC	0	0	0	0	0
SR	0	0	0	0	0
MF	0	0	0	0	0
JV	0	0	0	0	0
PSC	0	0	0	0	0
Total	0	0	0	0	0

**Table 18 : Number of Wells drilled by Class**

Year	Exploratory	Appraisal(1st & 2nd)	Ordinary Appraisal	Development	Total
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	23	68	19	0	110
2014	0	0	0	0	0
2015	3	3	2	2	10
2016	0	0	0	0	0



Table 19 : Wells Completed in

Type of Contract	Total	By Terrain
Service Contract (SC)	0	
Sole Risk (SR)	0	
Marginal (MF)	0	
Joint Venture (JV)	0	
Production Sharing Contract (PSC)	0	
Total	0	

Table 20 : Approved Non-Associated Gas - NAG Development Plans

#	Company	Block	FDP	Gas Reserves (BSCF)	Condensate(MMSTB)	Gas Off-Take Rate (MMSCFD)
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Table 21 : Approved Associated Gas - AG Development Plans

#	Company	Block	FDP	AG Reserves, Bscf	Gas Off-Take Rate (MMSCFD)
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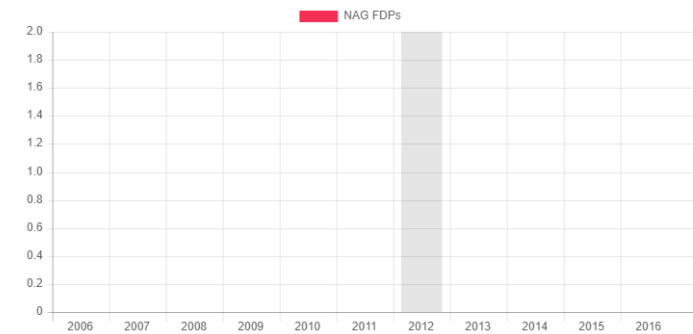


Figure  
Approved NAG Field Development Plans



Figure  
Approved AG Field Development Plans

Table 22 : New Drill Gas Appraisal/ Development Wells

#	Company	Block/Field	Wellname/Status	Terrain	Reserves, Bscf	Off-Take (MMScf/d)
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Table 23 : Approved Gas Well Initial Completion

#	Company	Block/Field	Well/Status	Reserves, Bscf	Off-Take (MMScf/d)	Processing Facility
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Table 24 : Approved Gas Wells Work-Over Operations

#	Company	Block	Well Name	Processing Facility
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Table 25 : Rig Disposition by Terrain from January to December

Terrain	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Terrain	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total	0	0	0	0	0	0	0	0	0	0	0	0

**Table 26 : Active Rigs by Terrain**

Year	Land / Swamp	Shallow Offshore	Deep Offshore	Total
2006	0			0
2007	0			0
2008	0			0
2009	0			0
2010	0			0
2011	0			0
2012	6	3	3	12
2013	0			0
2014	0			0
2015	0			0
2016	0			0

**Table 27 : Fields Summary**

#	Company	Contract Type	Producing Field	Well Name	String Name
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**Table 28 : Production Performance**

Company	Fields	Contract	Terrain	Annual Prod (Bbls)	Daily Ave (Bopd)	% Prod
ALLIED ENERGY RESOURCES NIGERIA LTD		Sole Risk (SR)	Deep Offshore	1,818,680.67	4,982.69	0.28
YINKA FOLAWIYO PET CO LTD		Sole Risk (SR)	Deep Offshore	457,651.58	1,253.84	0.07
MONI PULO LTD		Sole Risk (SR)	Deep Offshore	975,186.00	2,671.74	0.15
NIGERIA PET. DEV. CO. (NPDC)		Sole Risk (SR)	Land	29,836,720.17	81,744.44	4.53
EXPRESS PET AND GAS CO LTD		Sole Risk (SR)	Deep Offshore	18,580.17	50.90	0.00
DUBRI OIL COMPANY		Sole Risk (SR)	Deep Offshore	88,520.00	242.52	0.01
CONTINENTAL OIL AND GAS LTD.		Sole Risk (SR)	Deep Offshore	2,861,085.58	7,838.59	0.43
CONSOLIDATED OIL COMPANY LIMITED		Sole Risk (SR)	Deep Offshore	420,174.58	1,151.16	0.06
ATLAS PETROLEUM INTERNATIONAL LTD		Sole Risk (SR)	Deep Offshore	215,702.92	590.97	0.03
AMNI INTERNATIONAL DEVELOPMENT CO.		Sole Risk (SR)	Deep Offshore	3,703,926.67	10,147.74	0.56
ORIENTAL ENERGY RESOURCES		Marginal (MF)	Deep Offshore	7,451,523.08	20,415.13	1.13
PLATFORM PETROLEUM		Marginal (MF)	Land	692,090.92	1,896.14	0.11
MIDWESTER OIL AND GAS CO. LTD./Suntrust Oil Company Limited		Marginal (MF)	Land	2,395,587.58	6,563.25	0.36
NIGER DELTA PET. RESOURCES LTD		Marginal (MF)	Land	1,517,030.42	4,156.25	0.23
PILLAR OIL LTD		Marginal (MF)	Land	552,905.17	1,514.81	0.08
UNIVERSAL ENERGY		Marginal (MF)	Land	433,205.00	1,186.86	0.07
NETWORK E&P NIGERIA		Marginal (MF)	Land	540,931.67	1,482.00	0.08
PRIME EXPLORATION		Marginal (MF)	Land	2,016.00	5.52	0.00
EXCEL EXPLORATION & PRODUCTION LIMITED		Marginal (MF)	Land	19,328.17	52.95	0.00
FRONTIER OIL LTD.		Marginal (MF)	Land	263,392.50	721.62	0.04
ENERGIA LTD.		Marginal (MF)	Land	668,894.67	1,832.59	0.10
BRITTANIA-U		Marginal (MF)	Deep Offshore	421,614.67	1,155.11	0.06
WALTERSMITH PETROMAN OIL LIMITED		Marginal (MF)	Land	957,983.83	2,624.61	0.15
MOBIL PRODUCING NIGERIA UNLTD		Joint Venture (JV)	Deep Offshore	95,450,415.75	261,507.99	14.49
NIGERIAN AGIP OIL COMPANY		Joint Venture (JV)	Land	26,901,881.67	73,703.79	4.08
PANOCEAN OIL CORPORATION NIG		Joint Venture (JV)	Land	776,533.33	2,127.49	0.12
SHELL PETROLEUM DEVELOPMENT CO.		Joint Venture (JV)	Deep Offshore	41,688,906.67	114,216.18	6.33
AITEO E&P CO		Joint Venture (JV)	Land	19,976,002.08	54,728.77	3.03
NEWCROSS E&P CO		Joint Venture (JV)	Land	8,216,251.33	22,510.28	1.25
EROTON E&P CO		Joint Venture (JV)	Land	11,270,389.42	30,877.78	1.71
SEPLAT PRODUCTION AND DEV. CO.		Joint Venture (JV)	Land	5,506,790.00	15,087.10	0.84
Neconde Energy		Joint Venture (JV)	Land	919,467.33	2,519.09	0.14
TOTAL E&P		Joint Venture (JV)	Deep Offshore	31,208,785.00	85,503.52	4.74
CHEVRON NIGERIA LTD.		Joint Venture (JV)	Deep Offshore	57,035,304.58	156,261.11	8.66

Company	Fields	Contract	Terrain	Annual Prod (Bbls)	Daily Ave (Bopd)	% Prod
BELEMA		Joint Venture (JV)	Land	1,259,519.50	3,450.74	0.19
TOTAL UPSTREAM (TUPNI)		Production Sharing Contract (PSC)	Deep Offshore	46,365,694.17	127,029.30	7.04
ADDAX EXPLORATION		Production Sharing Contract (PSC)	Deep Offshore	15,187,377.58	41,609.25	2.31
AGIP ENERGY & NATURAL RESOURCES (AENR)		Production Sharing Contract (PSC)	Deep Offshore	2,025,024.17	5,548.01	0.31
STAR DEEPWATER		Production Sharing Contract (PSC)	Deep Offshore	76,694,769.50	210,122.66	11.64
ESSO EXPLORATION		Production Sharing Contract (PSC)	Deep Offshore	6,976,875.83	19,114.73	1.06
ESSO EXPLORATION		Production Sharing Contract (PSC)	Deep Offshore	70,137,301.92	192,156.99	10.65
NIGERIAN AGIP ENERGY (NAE)		Production Sharing Contract (PSC)	Deep Offshore	6,960,536.25	19,069.96	1.06
STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPKO)		Production Sharing Contract (PSC)	Land	9,765,846.08	26,755.74	1.48
SHELL NIG. E&P CO. (SNEPCO)		Production Sharing Contract (PSC)	Deep Offshore	68,180,853.83	186,796.86	10.35
Total				658,817,258.01	658,817,258.01	100.0%

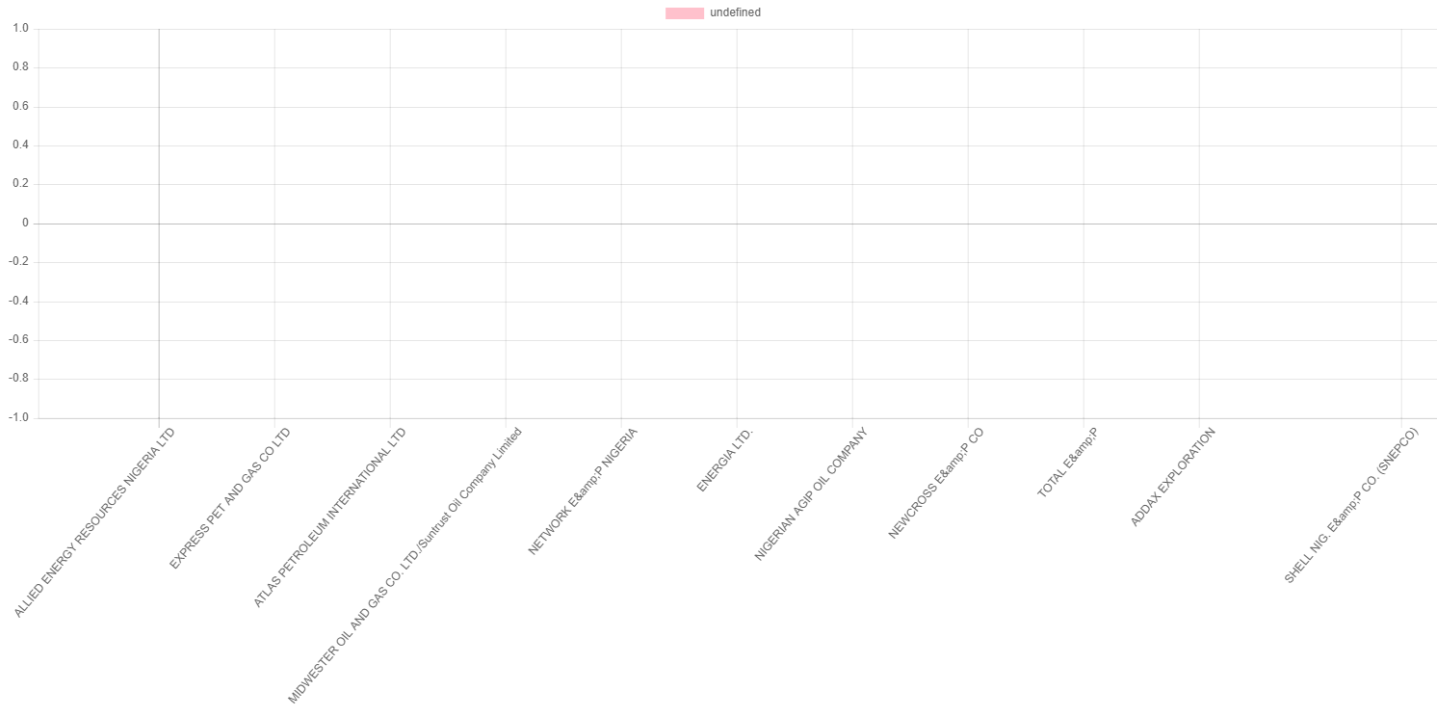


Figure  
Oil Production on Company Basis  
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Table 29 : Monthly Production (Provisional)

Month	Production (Bbls)	Average Daily Production (Bopd)
January	0.00	0
Febuary	0.00	0
March	0.00	0
April	0.00	0
May	0.00	0
June	0.00	0
July	0.00	0
August	0.00	0
September	0.00	0
October	0.00	0
November	0.00	0
December	0.00	0
Total Annual Production (Bbls)	718,612,967.88	
Average Annual Daily Production (bopd)		1,804,979



Figure  
Oil Production on Company Basis

Table 30 : Production by Contract

Contract Type	Production, Bbls	Average Production, Bopd	Production Percentage, %
Joint Venture, JV	300210246.66	822493.84	46 %
Production Sharing Contract, PSC	302294279.33	828203.50	46 %
Sole Risk, SR	40396228.34	110674.59	6 %
Marginal Field Operators, MF	15916503.68	43606.84	2 %
Service Contract	0	0	0 %

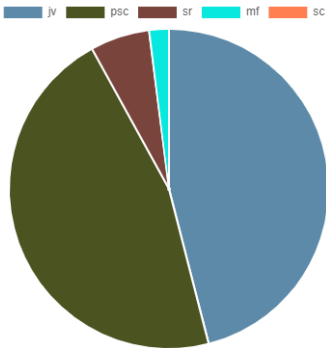


Figure  
Percentage Distribution of Production (Bopd)

Table 31 : Summary of Production Deferments

Deferments		
Month	Cumulative Production (Bbls)	Daily Production (Bopd)
Total Deferment (BBLS)		0.00
Average Daily Deferment (BOPD)		0.00

Table 32 : Monthly Summary of Stabilized Crude / Condensate Volumes by Streams

Stream/Blend	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crude Oil													
Abo	710,611.00	636,987.00	640,633.00	600,658.00	594,595.00	559,106.00	558,669.00	595,721.00	573,559.00	562,128.00	501,089.00	506,279.00	7,040,035.00
Aje	0.00	0.00	0.00	0.00	127,224.00	139,942.00	182,131.00	160,978.00	115,440.00	99,605.00	92,608.00	70,878.00	988,806.00
Antan	1,318,438.00	1,018,399.00	1,076,504.00	985,856.00	1,025,152.00	959,457.00	968,809.00	912,219.00	865,147.00	861,858.00	881,659.00	937,254.00	11,810,752.00

Stream/Blend	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crude Oil													
Bonga	6,335,735.00	5,502,444.00	6,012,411.00	6,167,361.00	5,577,493.00	6,266,249.00	6,640,856.00	6,359,179.00	6,456,882.00	6,488,727.00	6,254,229.00	6,391,196.00	74,452,762.00
Bonny	6,063,326.00	7,575,954.00	7,891,581.00	8,103,458.00	4,000,179.00	4,332,799.00	5,390,384.00	3,899,967.00	6,569,560.00	4,347,654.00	6,310,239.00	5,043,755.00	69,528,856.00
Brass	2,724,935.00	2,927,111.00	2,922,495.00	2,829,167.00	2,708,911.00	2,187,703.00	2,717,920.00	2,723,673.00	2,626,275.00	2,518,677.00	2,543,872.00	2,621,584.00	32,052,323.00
Ebok	734,064.00	716,903.00	786,621.00	740,866.00	733,838.00	668,572.00	644,832.00	633,759.00	627,874.00	628,573.00	578,549.00	374,230.00	7,868,681.00
Ekanga Zaffiro	280,178.00	274,253.00	293,167.00	283,710.00	280,178.00	258,930.00	280,178.00	267,561.00	258,930.00	280,178.00	246,720.00	254,944.00	3,258,927.00
Erha	3,751,292.00	3,507,118.00	3,688,108.00	3,428,707.00	3,828,429.00	3,806,913.00	3,879,793.00	4,352,355.00	4,170,265.00	4,332,995.00	3,717,932.00	3,293,768.00	45,757,675.00
Escravos	5,437,137.00	5,161,046.00	5,595,936.00	5,280,284.00	3,895,387.00	4,551,080.00	4,698,827.00	4,890,184.00	5,058,988.00	4,797,994.00	4,985,448.00	5,246,954.00	59,599,265.00
Forcados	7,113,382.00	2,995,776.00	17,608.00	2,716.00	3,144.00	129,000.00	173,286.00	74,223.00	48,246.00	1,561,230.00	1,668,238.00	373,256.00	14,160,105.00
Ima	48,943.00	66,189.00	63,415.00	59,697.00	38,880.00	0.00	2,258.00	5,855.00	0.00	0.00	0.00	0.00	285,237.00
Odudu	2,399,539.00	1,776,988.00	1,706,392.00	2,060,195.00	2,419,066.00	2,480,574.00	2,645,563.00	2,624,195.00	2,357,926.00	2,636,081.00	2,444,638.00	2,566,612.00	28,117,769.00
Okono	745,623.00	673,330.00	874,040.00	816,063.00	760,596.00	763,666.00	176,956.00	594,224.00	757,367.00	769,155.00	688,056.00	731,883.00	8,350,959.00
Okoro	302,184.00	239,207.00	117,547.00	150,867.00	238,251.00	229,994.00	279,015.00	377,921.00	355,367.00	394,491.00	416,653.00	372,834.00	3,474,331.00
Okwori	326,026.00	413,499.00	449,265.00	402,847.00	432,267.00	403,191.00	432,390.00	402,151.00	383,743.00	360,478.00	344,024.00	332,159.00	4,682,040.00
Oyo	71,646.00	58,586.00	55,078.00	47,768.00	255,441.00	259,637.00	221,381.00	213,738.00	204,423.00	203,843.00	192,720.00	208,666.00	1,992,927.00
Pennington	434,486.00	426,192.00	484,582.00	499,206.00	494,030.00	468,315.00	247,744.00	425,523.00	444,040.00	449,173.00	508,006.00	550,928.00	5,432,225.00
Qua Iboe	10,789,183.00	9,498,247.00	10,324,515.00	9,117,287.00	6,588,585.00	7,311,571.00	4,317,683.00	61,630.00	349,490.00	5,825,343.00	8,421,460.00	6,600,815.00	79,205,809.00
Sea Eagle	384,872.00	1,013,234.00	964,415.00	935,264.00	1,010,696.00	985,828.00	1,006,296.00	1,026,970.00	946,904.00	934,166.00	921,431.00	818,329.00	10,948,405.00
Otakipo Blend	0.00	0.00	62,786.00	95,904.00	200,176.00	129,777.00	594,498.00	594,587.00	326,593.00	193,149.00	288,984.00	412,891.00	2,899,345.00
Usan	0.00	0.00	938,219.00	1,052,753.00	617,492.00	996,007.00	415,360.00	736,241.00	526,085.00	885,823.00	712,022.00	940,690.00	7,820,692.00
Bonny NLNG	0.00	0.00	0.00	410,319.00	574,484.00	572,323.00	522,028.00	101,225.00	309,612.00	98,799.00	96,354.00	191,773.00	2,876,917.00
Ukpokiti	32,323.00	17,203.00	15,363.00	15,782.00	17,558.00	17,096.00	19,137.00	18,922.00	18,471.00	19,961.00	19,021.00	18,739.00	229,576.00
QIT	3,534,341.00	3,419,780.00	3,492,567.00	3,250,208.00	3,380,935.00	2,592,763.00	2,520,073.00	3,454,152.00	2,784,676.00	3,152,812.00	3,255,304.00	2,547,833.00	37,385,444.00
Yoho	1,005,725.00	1,456,740.00	1,479,994.00	1,388,154.00	1,462,238.00	1,372,873.00	1,327,440.00	1,442,986.00	1,346,844.00	1,406,863.00	1,214,669.00	945,051.00	15,849,577.00
Sub-Total	54,543,989.00	49,375,186.00	49,953,242.00	48,725,097.00	41,265,225.00	42,443,366.00	40,863,507.00	36,950,139.00	38,482,707.00	43,809,756.00	47,303,925.00	42,353,301.00	536,069,440.00
Daily-Average	1,759,483.52	1,702,592.62	1,611,394.90	1,624,169.90	1,331,136.29	1,414,778.87	1,318,177.65	1,191,939.97	1,282,756.90	1,413,217.94	1,576,797.50	1,366,235.52	1,468,683.40
Condensates													
Field Condensates													
Agbami	7,123,031.00	6,887,013.00	7,512,143.00	7,405,840.00	7,539,564.00	7,271,660.00	7,322,391.00	7,649,459.00	7,423,725.00	7,618,356.00	7,322,496.00	7,259,790.00	83,835,468.00
Ajapa	0.00	0.00	0.00	0.00	0.00	0.00	47,332.00	0.00	0.00	21,626.00	34,084.00	32,038.00	135,080.00
Akpo	4,410,471.00	3,063,899.00	3,604,293.00	4,361,153.00	4,154,820.00	4,301,827.00	4,541,295.00	4,533,059.00	4,339,078.00	4,258,580.00	4,126,139.00	4,152,415.00	49,847,029.00
Escravos	539,101.00	510,102.00	489,403.00	519,633.00	254,837.00	211,484.00	130,406.00	161,216.00	235,269.00	304,223.00	152,272.00	158,448.00	3,666,394.00
Ima	22,287.00	26,401.00	23,815.00	17,493.00	31,180.00	32,592.00	34,258.00	34,795.00	32,498.00	31,219.00	32,961.00	48,365.00	367,864.00
Sub-Total	12,094,890.00	10,487,415.00	11,629,654.00	12,304,119.00	11,980,401.00	11,817,563.00	12,075,682.00	12,378,529.00	12,030,570.00	12,234,004.00	11,667,952.00	7,151,056.00	137,851,835.00
Daily-Average	390,157.74	361,635.00	375,150.13	410,137.30	386,464.55	393,918.77	389,538.13	399,307.39	401,019.00	394,645.29	388,931.73	230,679.23	377,676.26
Plant Condensates													
BRT	592,360.00	287,932.00	356,687.00	361,128.00	258,157.00	303,592.00	157,801.00	899.00	40,509.00	212,515.00	265,349.00	212,829.00	3,049,758.00
Bonny NLNG	955,223.00	669,395.00	608,569.00	807,212.00	925,476.00	942,404.00	841,374.00	494,594.00	705,409.00	1,082,495.00	949,928.00	818,854.00	9,800,933.00
Sub-Total	1,547,583.00	957,327.00	965,256.00	1,168,340.00	1,183,633.00	1,245,996.00	999,175.00	495,493.00	745,918.00	1,295,010.00	1,215,277.00	1,031,683.00	12,850,691.00
Daily-Average	49,922.03	33,011.28	31,137.29	38,944.67	38,181.71	41,533.20	32,231.45	15,983.65	24,863.93	41,774.52	40,509.23	33,280.10	35,207.37
Crude + Condensates													
Sub-Total Condensates	13,642,473.00	11,444,742.00	12,594,910.00	13,472,459.00	13,164,034.00	13,063,559.00	13,074,857.00	12,874,022.00	12,776,488.00	13,529,014.00	12,883,229.00	8,182,739.00	150,702,526.00
Daily-Average Condensate	440,079.77	394,646.28	406,287.42	449,081.97	424,646.26	435,451.97	421,769.58	415,291.03	425,882.93	436,419.81	429,440.97	263,959.32	412,883.63
Crude + Condensates													
Grand Total	68,186,462.00	60,819,928.00	73,212,550.00	62,197,556.00	54,429,259.00	55,506,925.00	53,938,364.00	49,824,161.00	51,259,195.00	57,338,770.00	60,187,154.00	50,536,040.00	686,771,966.00
Daily-Average	2,199,563.29	2,097,238.90	2,017,682.32	2,073,251.87	1,755,782.55	1,850,230.83	1,739,947.23	1,607,231.00	1,708,639.83	1,849,637.74	2,006,238.47	1,630,194.84	1,877,554.23

**Table 33 : Summary of Stabilized Crude / Condensates Volumes by Streams in Barrels**

Stream/Blend	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Crude Oil										
Abo	0.00	0.00	0.00	11,145,508.00	10,384,452.00	8,489,519.00	8,022,897.00	8,010,447.00	8,062,126.00	7,040,035.00
Agbami	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ajapa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aje	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	988,806.00
Akpo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Antan	0.00	0.00	0.00	19,108,971.00	14,549,317.00	18,664,426.00	19,800,170.00	17,722,615.00	15,368,208.00	11,810,752.00
Asaramaturu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bonga	0.00	0.00	0.00	65,026,519.00	52,296,510.00	64,067,957.00	50,904,162.00	58,238,730.00	70,030,598.00	74,452,762.00

Stream/Blend	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Crude Oil										
Bonny	0.00	0.00	0.00	91,633,924.00	98,768,246.00	85,516,915.00	64,667,075.00	77,754,783.00	68,599,843.00	69,528,856.00
Bonny NLNG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,876,917.00
Brass	0.00	0.00	0.00	47,045,801.00	45,985,280.00	38,431,091.00	31,339,246.00	36,494,930.00	39,120,881.00	32,052,323.00
BRT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ebok	0.00	0.00	0.00	0.00	3,055,560.00	11,116,943.00	12,845,312.00	10,159,963.00	10,254,615.00	7,868,681.00
Egina	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ekanga Zaffiro	0.00	0.00	0.00	4,500,450.00	4,500,450.00	4,512,780.00	4,104,610.00	4,073,185.00	3,700,353.00	3,258,927.00
Erha	0.00	0.00	0.00	60,729,787.00	53,063,950.00	45,680,658.00	37,657,596.00	36,159,774.00	33,469,916.00	45,757,675.00
Escravos	0.00	0.00	0.00	95,476,023.00	90,252,503.00	82,992,947.00	75,172,726.00	70,697,665.00	62,999,068.00	59,599,265.00
Forcados	0.00	0.00	0.00	69,232,152.00	82,774,072.00	72,439,141.00	71,000,791.00	67,932,792.00	68,782,929.00	14,160,105.00
Ima	0.00	0.00	0.00	0.00	0.00	0.00	0.00	560,856.00	516,972.00	285,237.00
Jones Creek Blend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Odudu	0.00	0.00	0.00	40,847,405.00	39,554,024.00	36,765,688.00	29,478,224.00	26,197,149.00	25,029,537.00	28,117,769.00
Okono	0.00	0.00	0.00	17,544,856.00	17,263,430.00	16,348,665.00	14,904,197.00	12,794,563.00	8,459,169.00	8,350,959.00
Okoro	0.00	0.00	0.00	5,885,411.00	5,767,803.00	6,170,120.00	6,601,054.00	6,011,655.00	4,294,703.00	3,474,331.00
Okwori	0.00	0.00	0.00	14,387,558.00	12,819,504.00	12,094,784.00	9,532,752.00	8,204,342.00	6,521,371.00	4,682,040.00
Okwuibome	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oso Condensate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Otakipo Blend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,899,345.00
Oyo	0.00	0.00	0.00	3,216,242.00	1,349,224.00	1,009,842.00	812,467.00	421,171.00	1,777,052.00	1,992,927.00
Pennington	0.00	0.00	0.00	11,129,213.00	10,558,221.00	9,102,862.00	7,357,435.00	5,505,439.00	4,719,541.00	5,432,225.00
QIT	0.00	0.00	0.00	0.00	0.00	29,409,511.00	39,191,544.00	44,520,502.00	39,387,436.00	37,385,444.00
Qua Iboe	0.00	0.00	0.00	126,157,671.00	128,253,257.00	128,852,443.00	130,674,938.00	134,956,728.00	126,774,069.00	79,205,809.00
Sea Eagle	0.00	0.00	0.00	29,746,886.00	23,080,837.00	21,075,517.00	15,626,909.00	7,206,421.00	14,013,061.00	10,948,405.00
Tulja	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ughelli Blend	0.00	0.00	0.00	0.00	0.00	0.00	41,668.00	0.00	0.00	0.00
Ukpokiti	0.00	0.00	0.00	492,411.00	386,832.00	927,491.00	756,259.00	565,887.00	334,956.00	229,576.00
Usan	0.00	0.00	0.00	0.00	1,326,212.00	1,622,834.00	2,985,561.00	4,762,983.00	6,815,676.00	7,820,692.00
Yoho	0.00	0.00	0.00	33,368,770.00	30,371,559.00	27,685,727.00	25,141,246.00	19,315,490.00	17,345,249.00	15,849,577.00
Sub Total	0.00	0.00	0.00	746,675,558.00	726,361,243.00	722,977,861.00	658,618,839.00	658,268,070.00	636,377,329.00	536,069,440.00
Daily Average	0.00	0.00	0.00	2,040,097.15	1,984,593.56	1,975,349.35	1,799,505.02	1,798,546.64	1,738,735.87	1,464,670.60
Condensate										
Field Condensate										
Agbami	0.00	0.00	0.00	87,169,459.00	88,304,428.00	85,041,559.00	84,871,128.00	87,280,118.00	85,339,585.00	83,835,468.00
Ajapa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135,080.00
Akpo	0.00	0.00	0.00	60,210,985.00	56,482,856.00	56,651,708.00	61,102,205.00	55,311,051.00	55,503,303.00	49,847,029.00
Escravos	0.00	0.00	0.00	1,892,148.00	4,041,513.00	5,088,278.00	4,896,351.00	6,169,358.00	10,080,271.00	3,666,394.00
Ima	0.00	0.00	0.00	537,469.00	531,515.00	246,582.00	259,429.00	312,053.00	295,976.00	367,864.00
Oso Condensate	0.00	0.00	0.00	5,200,300.00	4,748,331.00	0.00	0.00	0.00	0.00	0.00
Sub Total	0.00	0.00	0.00	155,010,361.00	154,108,643.00	147,028,127.00	151,129,113.00	149,072,580.00	151,219,135.00	137,851,835.00
Daily Average	0.00	0.00	0.00	423,525.58	421,061.87	401,716.19	412,921.07	407,302.13	413,167.04	376,644.36
Plant Condensate										
Bonny NLNG	0.00	0.00	0.00	10,095,699.00	13,194,065.00	13,042,415.00	9,696,678.00	11,037,805.00	10,080,271.00	9,800,933.00
BRT	0.00	0.00	0.00	3,669,899.00	2,909,182.00	2,735,997.00	3,210,878.00	3,501,352.00	3,237,235.00	3,049,758.00
Sub Total	0.00	0.00	0.00	13,765,598.00	16,103,247.00	15,778,412.00	12,907,556.00	14,539,157.00	13,317,506.00	12,850,691.00
Daily Average	0.00	0.00	0.00	37,610.92	43,997.94	43,110.42	35,266.55	39,724.47	36,386.63	35,111.18
Sub Total - Condensate	0.00	0.00	0.00	168,775,959.00	170,211,890.00	162,806,539.00	164,036,669.00	163,611,737.00	164,536,641.00	150,702,526.00
Daily Average	0.00	0.00	0.00	461,136.50	465,059.81	444,826.61	448,187.62	447,026.60	449,553.66	411,755.54
Crude + Condensate										
Grand Total - Condensate	0.00	0.00	0.00	915,451,517.00	896,573,133.00	885,784,400.00	822,655,508.00	821,879,807.00	800,913,970.00	686,771,966.00
Daily Average	0.00	0.00	0.00	2,501,233.65	2,449,653.37	2,420,175.96	2,247,692.64	2,245,573.24	2,188,289.54	1,876,426.14

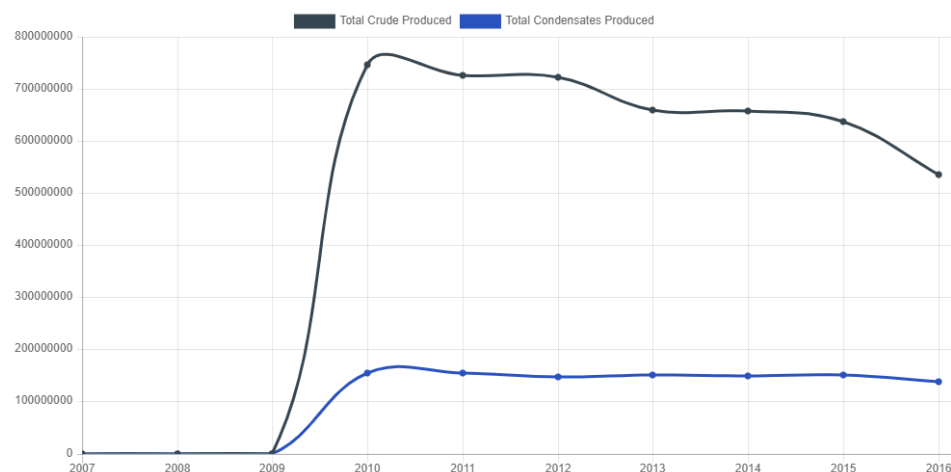


Figure  
Stabilized Crude /Condensates Volumes

**Table 34 : Status Of Major Active Field Development / Crude Oil Handling Facilities Projects**

#	Project	Company	Location	Addition (Mbopd)	Development	Completion Year	Status
1	Bonga Southwest (BSW) Aparo						
2	Agbami Infill Drilling (AIDP)						Detailed Engineering
3	Tapa Production Upgrade						Detailed Engineering
4	South Offshore Area Produced Water Project						
5	Dibi Complete Restoration						Detailed Engineering
6	Antan Well Head Platform						Detailed Engineering
7	FSO unity Cargo Tanks replacement						
8	Wash Tank 3 Replacement Project, Obogwu Flowstation						Detailed Engineering
9	OML 58 Condensate Spiking						
10	Alakiri Flow Station XHP Separator Installation/Commissioning						
11	Robertkiri Crude Oil Dehydration Capacity Expansion						
12	Ibot Satellite Fields Development Phase 2						Detailed Engineering
13	Idoho BP Restoration						Detailed Engineering
14	Usari Alternate Development						Detailed Engineering
15	Ubit PP Restoration						Installation/Construction
16	Debottlenecking and Upgrade of Egbaoma Flow station						
17	Otakikpo Field Early Production Facility						Installation/Construction
18	Further Oil Development Project – Phase 1						Installation/Construction
19	Facilities Modification of Existing 2-phase separator to 3-phase separator for in-field dehydration (IFD) system deployment on flowstations in OML 18						
20	OML 99 Ikike Field Development						Detailed Engineering
21	Anyala and Madu Fields OML 83/85						Detailed Engineering
22	Sapele further Oil Development Project.						
23	100,000bbl Crude Oil Buffer Storage Tank - OML 20 Egbema Fields						
24	Modifiaction of Oil Water Treatment Facility at Amenam Kpono						
25	Escravos Crude Oil Tank Repairs and Upgrade Project						
26	Crude Oil Storage Tank 5 Project						
27	Construction of 100KB Crude Oil Buffer Tank in Egbema Field	NPDC/SEPLAT					
28	Upgrade of Ebendo Flowstation Facility						
29	2Trains x 20,000BPD Otakikpo Flow station Production Facility Project.						
30	Tubu Field Development and Langley Upgrade.						
31	JV Skim Pile Upgrade Project						
32	JV Fibre Optics Project						
33	Eriemu 11T Surface Facility Equipment in Eriemu Field (OML 30)	NPDC/SEPLAT					
34	Replacement of Dehydration Tanks at Ogini Flowstation in OML 26	NPDC/SEPLAT					Detailed Engineering
35	Certification & Commissioning of Ocean Patriot as Accommodation Platform						Valid
36	Offshore Platform Planned to be used for re-entry of Ogedeh-1 Well.	BICTA ENERGY & MANAGEMENT SYSTEMS LIMITED					
37	20,000 barrels Crude Oil Storage Tank						
38	Revamp of Adanga Complex						
39	Gbetiokun Early Production Facility (EPF)	NPDC/SEPLAT					
40	Preowei Deepwater Development Project						
41	Offshore Platform Project in Gulf of Guinea.						
42	1MM Barrels Onshore Crude Oil Storage Facility.						Detailed Engineering
43	Egwa Early Production Facility (EPF)	NPDC/SEPLAT					

#	Project	Company	Location	Addition (Mbopd)	Development	Completion Year	Status
44	Tank 8 DED approval package	CHEVRON NIGERIA LTD.					Detailed Engineering

**Table 35 : Gas Production Volumes in MMSCF**

Month	AG	NAG	Total Gas Produced
January	0.00	0.00	0.00
Febuary	0.00	0.00	0.00
march	0.00	0.00	0.00
april	0.00	0.00	0.00
may	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	0.00	0.00	0.00
September	0.00	0.00	0.00
October	0.00	0.00	0.00
November	0.00	0.00	0.00
December	1,517,667,415.00	1,194,135,621.00	2,711,803,036.00
Total	1,517,667,415.00	1,194,135,621.00	2,711,803,036.00

**Table 36 : Gas Production,**

Year	AG	NAG	Total
2001	0.00	0.00	0.00
2002	0.00	0.00	0.00
2003	0.00	0.00	0.00
2004	0.00	0.00	0.00
2005	0.00	0.00	0.00
2006	0.00	0.00	0.00
2007	0.00	0.00	0.00
2008	0.00	0.00	0.00
2009	0.00	0.00	0.00
2010	0.00	0.00	0.00
2011	0.00	0.00	0.00
2012	0.00	0.00	0.00
2013	1,786,512,899.00	1,025,377,681.00	2,811,890,580.00
2014	1,880,374,658.00	1,168,171,828.00	3,048,546,486.00
2015	1,717,673,083.00	1,285,505,977.00	3,003,179,060.00
2016	1,517,667,415.00	1,194,135,621.00	2,711,803,036.00



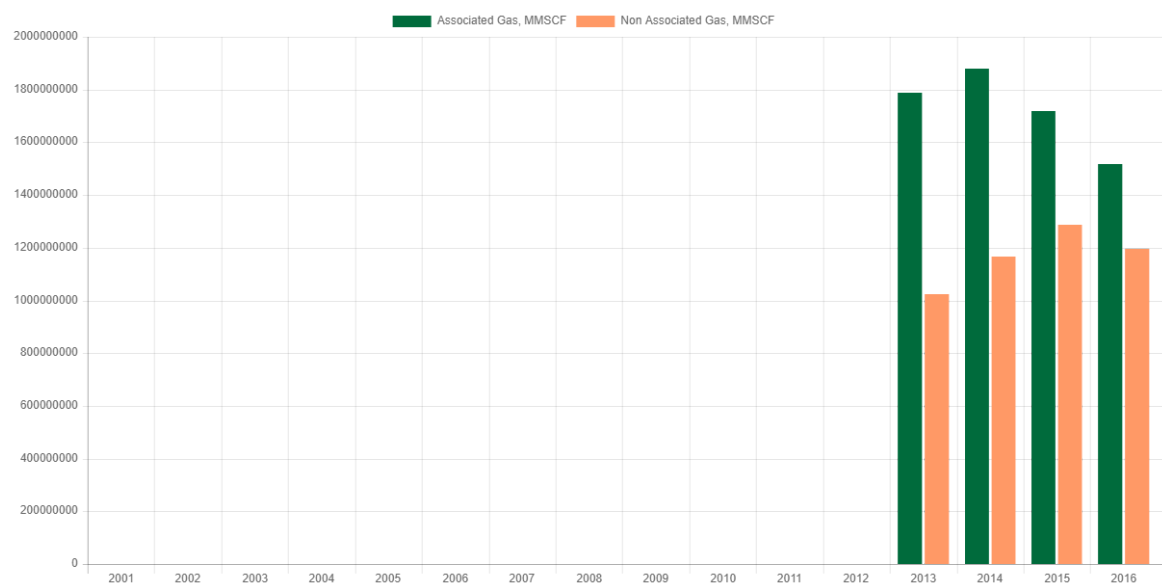


Figure  
AG and NAG Production, 2000 - 2016

**Table 37 : Gas Utilization Profile for the year**

Gas Utilization	Volume (MMscf)	Utilization Factor (%)
Fuel Gas	141604622.3	5.91
Gas Lift make-up	65534450.1	2.74
Gas Re-injection	702858336.5	29.35
NGL/LPG Feed Gas	54386422.9	2.27
Local Supply (Power)	31673982.7	1.32
Local Supply (Others)	350552996.8	14.64
Gas Export	1066744967.8	44.55
Total Gas Utilised	1499002949.5571	62.59

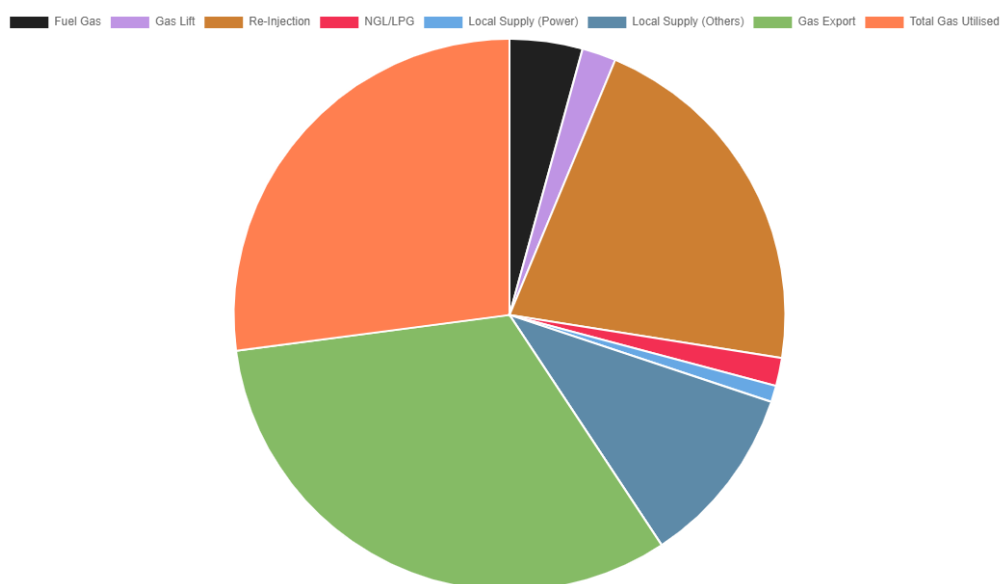


Figure  
Gas Utilization Breakdown, 2016

**Table 38 : Gas Production and Utilization Summary**

Month	Total Gas Produced	Total Gas Utilised	Total Gas Flared	% Flared
January	0.00	230,629,470.65	-230,629,470.65	-23,062,947,065.00
February	0.00	199,267,047.24	-199,267,047.24	-19,926,704,724.00

Month	Total Gas Produced	Total Gas Utilised	Total Gas Flared	% Flared
march	0.00	202,573,822.30	-202,573,822.30	-20,257,382,230.00
april	0.00	212,483,831.21	-212,483,831.21	-21,248,383,121.00
may	0.00	212,770,056.94	-212,770,056.94	-21,277,005,694.00
June	0.00	201,990,564.93	-201,990,564.93	-20,199,056,493.00
July	0.00	191,150,797.07	-191,150,797.07	-19,115,079,707.00
August	0.00	153,020,249.02	-153,020,249.02	-15,302,024,902.00
September	0.00	188,363,796.98	-188,363,796.98	-18,836,379,698.00
October	0.00	199,093,832.80	-199,093,832.80	-19,909,383,280.00
November	0.00	208,001,622.56	-208,001,622.56	-20,800,162,256.00
December	2,711,803,036.00	195,137,076.48	2,516,665,959.52	92.80
TOTAL	2,711,803,036.00	2,394,482,168.18	317,320,867.82	-18,327,875,756.43

**Table 39 : Flare Volume as a percentage of AG Production**

Year	AG Produced Mscf	Total Gas Flared Mscf	% Flared
1996	0.00	0.00	0.00
1997	0.00	0.00	0.00
1998	0.00	0.00	0.00
1999	0.00	0.00	0.00
2000	0.00	0.00	0.00
2001	0.00	0.00	0.00
2002	0.00	0.00	0.00
2003	0.00	0.00	0.00
2004	0.00	0.00	0.00
2005	0.00	0.00	0.00
2006	0.00	0.00	0.00
2007	0.00	0.00	0.00
2008	0.00	0.00	0.00
2009	0.00	763,248,638.96	76,324,863,896,000.00
2010	0.00	539,424,578.46	53,942,457,846,000.00
2011	0.00	503,944,276.83	50,394,427,683,000.00
2012	0.00	480,444,658.82	48,044,465,882,000.00
2013	1,786,512,899.00	423,150,945.41	23,685.86
2014	1,880,374,658.00	346,383,151.27	18,420.96
2015	1,717,673,083.00	331,086,672.89	19,275.30
2016	1,517,667,415.00	289,318,482.74	19,063.37

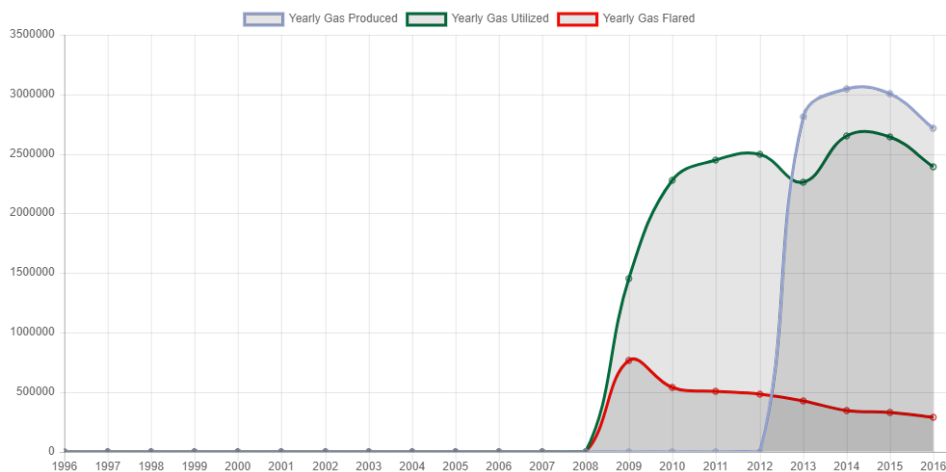
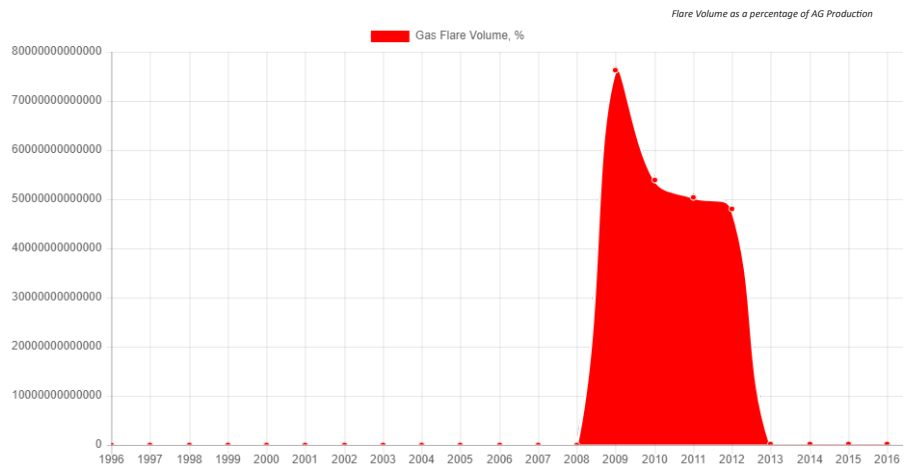


Figure  
Historical Gas Profile (Billion Standard Cubic Feet, BSCF)

Table 40 : Summary of 2018 Gas Production and Utilization

Production				Sales										
Month	AG	NAG	Total	Fuel Gas	Gas Lift	Re-injection	NGL-LPG	Gas To Nipp	Others	NLNG Export	Gas Util	% Util	Gas Flared	% Flared
January	0	0	0	13085428.2	5992696.7	64492833.1	5997255.6	1624832.4	40895427.0	99295808.5	230629470.65	1716.08	26999766.37	2031.35
Febuary	0	0	0	0	0	0	0	0	0	0	0	0	0	0
march	0	0	0	13040006.1	6086254.3	66969485.3	6149589.1	4864982.0	28910703.5	77226983.9	202573822.30	1731.12	25101970.51	1909.73
april	0	0	0	12521771.5	5044595.3	67340877.3	5604702.2	2007748.1	31048958.3	89537100.7	212483831.21	1598.56	21614904.43	2013.41
may	0	0	0	12220194.0	4785851.1	63897856.7	4919663.9	2930275.9	23919809.2	100883959.3	212770056.94	1662.89	18986537.71	2056.07
June	0	0	0	11913749.6	4630659.5	67616708.8	5821137.1	3049691.2	19429916.6	91074821.5	201990564.93	1661.12	18364776.02	1978.00
July	0	0	0	11140382.1	4954082.7	55992348.3	3675874.3	2102324.4	25059882.8	90173742.5	191150797.07	1425.02	25761644.03	2019.88
August	0	0	0	9761642.8	4014673.7	45577691.6	1717505.3	1019510.0	29597051.3	63067250.3	153020249.02	1433.67	24973494.89	1818.00
September	0	0	0	10743942.0	5347090.5	49558448.3	2706722.8	1334182.0	31449464.7	90078216.1	188363796.98	1694.24	24763020.75	1792.56
October	0	0	0	11797125.6	5893864.4	58648422.3	4559796.1	1235623.0	34029088.3	85945533.6	199093832.80	1805.44	26510981.88	1986.51
November	0	0	0	12055450.2	8061940.6	57233215.9	4390556.9	2505481.0	28010187.4	98359299.5	208001622.56	1660.52	27504447.65	1923.64
December	1517667415	1194135621	2711803036.00	11312687.5	5344671.4	47731906.5	3972333.7	4309018.0	26861951.0	97366484.1	195137076.48	1667.13	23649361.79	1926.05
Total	1,517,667,415.00	1,194,135,621.00	2,711,803,036.00	129,592,379.60	60,156,380.20	645,059,794.10	49,515,137.00	26,983,668.00	319,212,440.10	983,009,200.00	2,195,215,120.94	18,055.79	264,230,906.03	21,455.20

Table 41 : Summary of Gas Production and Utilization

Gas Production							Sales						
Year	AG	NAG	Total	Fuel Gas	Gas Lift	Re-Injection	NGL-LPG	Domestic Sales	NLNG Export	Gas Util	% Util	Gas Flared	% Flared
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	86749248.6	49442406.6	542408371.1	33193526.5	190095307.5	462402257.6	1450574930.22	10385.32	763248638.96	19386.77
2010	0	0	0	133499872.1	65128414.9	751705007.7	46591153.4	285802520.9	992293988.8	2275020957.69	12978.55	539424578.46	21247.08
2011	0	0	0	139425042.1	91970753.6	703579859.9	53201835.5	344481029	1114860568.7	2447519088.59	14913.93	503944276.83	20047.58
2012	0	0	0	145901304.3	88626060.1	720930791.3	52658762.9	372044969.3	1131321835.0	2500068902.68	17090.03	480444658.82	20270.42
2013	1786512899	1025377681	2811890580.00	151588583.1	53216309.6	756379361.0	57974830.2	276171032.7	964809782.5	2260122438.85	19122.95	423150945.41	19462.83
2014	1880374658	1168171828	3048546486.00	154037918.5	87221579.6	808503664.6	56785228.4	424738370.7	1123511430.6	2654232586.77	21556.95	346383151.27	15786.31
2015	1717673083	1285505977	3003179060.00	152879152.2	84395058.6	743028073.4	59775984.9	445121438.8	1160836318.3	2646068394.51	22943.50	331086672.89	22102.32
2016	1517667415	1194135621	2711803036.00	141604622.3	65534450.1	702858336.5	54386422.9	382226979.5	1066744967.8	2394482168.18	19752.57	289318482.74	23487.01

Table 42 : Gas Production and Utilization by Company

Gas Produced				Gas Sold										
Company	AG	NAG	Total	Fuel Gas	Gas Lift	Re-injection	NGL-LPG	Gas To Nipp	Others	NLNG Export	Gas Util	% Util	Gas Flared	% Flared
SHELL PETROL	33752642	552030385	585783027.00	10063070.3	3921195.5	0.0	0.0	19974590.7	7137424.7	527671911.3	568768192.26	1164.33	17014835.01	35.67
SHELL NIG. E	56321100	0	56321100.00	4140332.0	9225015.1	0	0	0	0	46162944.8	50303276.81	1069.00	6017823.19	131.00
CHEVRON NIGE	104340651	71899907	176240558.00	14563089.7	18613320.8	0.0	7407605.2	0.0	75191586.5	39874678.4	149757156.99	962.69	31230810.69	237.31
BELEMA	4311220	0	4311220.00	0	0	0	0	0	0	0	0	0	0	0
STAR DEEPWAT	142335307	0	142335307.00	6728500.7	0.0	106412113.2	0.0	0.0	0.0	0	113140613.83	949.99	29194693.10	250.01
MOBIL PRODUC	405152871	0	405152871.00	33074572.8	17746556.9	287268229.0	27951320.7	0.0	0.0	0.0	366040679.56	1073.30	40160194.08	127.29
ESSO EXPLORA	180621868	0	180621868.00	12556983.6	3755471.8	149208813.6	789433.0	0.0	0.0	0.0	162555230.14	1077.04	18066638.29	122.96
NIGERIA AGIP	103604344	247960988	351565332.00	0	0	0	0	0	0	0	0	0	0	0
TOTAL E&P	131177242	92527030	223704272.00	10397810.0	0.0	65916006.6	0.0	0.0	244434.4	135988835.3	212547086.30	1138.03	11025468.94	61.32
TOTAL UPSTRE	193278030	0	193278030.00	6485380.0	0.0	74675760.0	0.0	0.0	0.0	109412190.0	190573330.00	198.88	2704700.00	17.35
AGIP ENERGY	2807203	0	2807203.00	109800.0	0	0	0	0	0	0	109800.00	6.43	2697403.00	1147.79
NIGERIAN AGI	15965150	0	15965150.00	1488740.0	0.0	9075740.0	0.0	0	0	0	10564480.00	264.81	5254270.00	382.92
ADDAX EXPLOR	43012588	0	43012588.00	0	0	0	0	0	0	0	0	0	0	0
PANOCEAN OIL	1995149	0	1995149.00	79516.0	0.0	0.0	0.0	0.0	1863638.7	0.0	1943154.70	292.48	51994.30	7.52
NPDC/ ND WES	23983205	99939810	123923015.00	0	0	0	0	0	0	0	0	0	0	0
AMNI INTERNA	6154446	0	6154446.00	181350.0	0.0	1524840.0	0.0	0.0	0.0	0.0	1706190.00	341.54	4448256.40	858.46
ATLAS PETROL	809080	0	809080.00	174280.0	0	0	0	0	0	0	174280.00	263.81	634800.00	936.19
MONI PULO LT	293795	0	293795.00	8046.7	0	0	0	0	0	0	8046.66	33.77	285748.34	1166.23

Gas Produced							Gas Sold							
Company	AG	NAG	Total	Fuel Gas	Gas Lift	Re-Injection	NGL-LPG	Gas To Nipp	Others	NLNG Export	Gas Util	% Util	Gas Flared	% Flared
NIGER DELTA	713590	10523621	11237211.00	0	0	0	0	0	0	0	0	0	0	0
CONTINENTAL	1557351	0	1557351.00	132022.0	0	0	0	0	0	0	132022.00	103.72	1425329.00	1096.28
CONSOLIDATED	224220	0	224220.00	56332.0	0.0	0.0	0.0	0.0	0.0	0.0	56332.00	304.76	167888.00	895.24
EXPRESS PET	909090	0	909090.00	0.0	0	0	0	0	0	0	0.00	0.00	909090.00	1200.00
DUBRI OIL CO	1795397	0	1795397.00	21772.7	0	0	0	0	0	0	21772.70	14.58	1773624.30	1185.42
PLATFORM PET	7011040	0	7011040.00	25254.0	0	0	0	0	0	1181544.0	1206798.00	169.08	5804242.00	1030.92
WALTERSMITH	176641	168180	344821.00	0.0	344821.3	0	0	0	0	0	344821.30	1100.00	0.00	0.00
MIDWESTER OI	1548189	0	1548189.00	466.0	0	0	0	0	0	0	466.00	0.84	1547723.00	1199.16
PILLAR OIL L	168040	0	168040.00	18670.0	0	0	0	0	0	0	18670.00	133.18	149370.00	1066.82
ALLIED ENERG	2082750	0	2082750.00	136597.0	0	0	0	0	0	0	136597.00	52.44	1946153.00	1147.56
ENERGIA LTD.	4578157	0	4578157.00	151275.0	0	0	509477.0	0	0	0	660752.00	198.03	3917405.00	1001.97
BRITTANIA-U	382762	0	382762.00	307148.0	0	0	0	0	0	0	307148.00	722.14	75614.00	177.86
SEPLAT PRODU	6616810	75965090	82581900.00	210725.0	549780.0	0.0	0.0	0.0	77036730.0	0.0	77797235.00	1131.46	4784665.00	68.54
ORIENTAL ENE	5126697	0	5126697.00	872251.0	0	0	0	0	0	0	872251.00	205.51	4254446.00	994.49
STERLING OIL	1761291	0	1761291.00	1110065.0	476843.5	0.0	0.0	0.0	0.0	0.0	1586908.43	901.00	174382.40	120.48
FRONTIER OIL	138685	26401320	26540005.00	166173.9	0.0	0.0	0.0	0.0	26236145.5	0.0	26402319.41	1192.05	137685.45	7.95
NEWCROSS E&P	6561410	0	6561410.00	69770.0	0	0	0	0	8000.0	0	77770.00	14.04	6483640.00	1185.96
PRIME EXPLOR	164981	0	164981.00	0.0	0	0	0	0	0	0	0.00	0.00	164980.92	500.00
EROTON E&P C	9869983	16719290	26589273.00	596924.8	0.0	0.0	0.0	0.0	16189317.0	0.0	16786241.76	762.19	9803031.24	437.81
UNIVERSAL EN	416120	0	416120.00	5240.0	0	0	0	0	0	0	5240.00	11.66	410880.00	888.34
AITEO E&P C	14683595	0	14683595.00	274318.0	0	0	0	0	0	1025532.0	1299850.00	84.21	13383744.50	1115.79
NETWORK E&P	542030	0	542030.00	3350.0	0	0	0	0	0	0	3350.00	6.14	538680.00	993.86
YINKA FOLAWI	722695	0	722695.00	0	34905.0	0	0	0	0	0	34905.00	20.97	687790.00	779.03

**Table 43 : Summary of Crude / Condensate Export by Crude Stream**

Stream	January	February	March	April	May	June	July	August	September	October	November	December	Total
Oil													
Abo	699,313.00	0.00	698,712.00	699,154.00	681,552.00	699,964.00	699,384.00	698,332.00	0.00	698,113.00	525,674.00	880,948.00	6,981,146.00
Agbami	7,775,155.00	6,770,999.00	7,797,371.00	6,776,147.00	7,793,730.00	6,940,655.00	7,791,557.00	7,795,843.00	6,865,907.00	7,733,898.00	7,750,009.00	2,919,709.00	84,710,980.00
Ajapa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128,874.00	128,874.00
Aje	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	618,240.00	0.00	0.00	304,463.00	922,703.00
Akpo	4,943,815.00	2,950,607.00	3,948,812.00	3,949,147.00	4,858,085.00	3,862,434.00	3,997,891.00	5,048,097.00	4,002,236.00	3,998,935.00	5,043,522.00	4,035,673.00	50,639,254.00
Antan	2,351,397.00	948,354.00	947,340.00	995,246.00	996,283.00	798,776.00	949,049.00	448,858.00	946,167.00	995,906.00	1,597,006.00	399,227.00	12,373,609.00
Asaramaturu	0.00	0.00	0.00	301,120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	301,120.00
Bonga	6,572,149.00	5,691,744.00	6,135,298.00	6,147,890.00	5,875,308.00	5,832,313.00	5,929,002.00	6,529,065.00	6,854,383.00	5,637,622.00	6,632,887.00	7,135,485.00	74,973,146.00
Bonny	5,660,064.00	7,057,785.00	7,387,852.00	5,592,239.00	3,298,896.00	2,895,715.00	3,555,251.00	3,537,015.00	4,868,375.00	3,933,272.00	4,987,690.00	3,207,174.00	55,981,328.00
Brass	3,440,461.00	2,742,221.00	3,094,392.00	2,761,736.00	3,144,278.00	1,408,765.00	3,375,238.00	2,373,672.00	2,054,092.00	2,276,429.00	3,628,045.00	2,849,094.00	33,148,423.00
Ebok	849,639.00	569,474.00	1,181,207.00	589,072.00	586,799.00	590,641.00	609,453.00	579,814.00	1,206,327.00	621,198.00	605,565.00	0.00	7,989,189.00
Ekanga Zaffiro	906,705.00	0.00	951,802.00	0.00	0.00	0.00	0.00	978,605.00	0.00	0.00	995,785.00	0.00	3,832,897.00
Erha	3,953,192.00	3,942,791.00	2,996,130.00	3,942,708.00	4,008,385.00	3,106,204.00	4,003,877.00	4,857,811.00	3,927,107.00	4,170,270.00	3,995,986.00	2,931,933.00	45,836,394.00
Escravos	4,877,149.00	3,787,494.00	3,769,693.00	3,779,427.00	3,794,793.00	4,474,592.00	3,783,302.00	3,787,203.00	3,756,575.00	2,840,676.00	3,793,206.00	4,709,205.00	47,153,315.00
Forcados	6,316,303.00	2,816,270.00	0.00	0.00	389,028.00	281,923.00	488,680.00	395,602.00	287,392.00	1,628,772.00	2,333,840.00	590,444.00	15,528,254.00
Ima	0.00	0.00	0.00	0.00	122,141.00	0.00	0.00	0.00	0.00	0.00	0.00	120,010.00	242,151.00
Odudu	2,948,142.00	1,906,638.00	949,364.00	1,947,930.00	2,926,094.00	1,997,514.00	1,899,250.00	3,995,008.00	1,997,914.00	3,001,310.00	1,899,378.00	2,946,237.00	28,414,779.00
Okono	0.00	899,768.00	901,168.00	899,821.00	900,206.00	299,543.00	0.00	897,155.00	899,672.00	899,904.00	397,132.00	699,720.00	7,694,089.00
Okoro	0.00	0.00	996,563.00	0.00	0.00	0.00	0.00	824,254.00	0.00	950,210.00	0.00	0.00	2,771,027.00
Okwori	0.00	648,215.00	647,683.00	0.00	651,980.00	671,984.00	0.00	672,842.00	0.00	647,845.00	647,879.00	0.00	4,588,428.00
Usan	0.00	924,477.00	907,189.00	988,356.00	922,937.00	949,452.00	0.00	905,385.00	790,537.00	0.00	1,237,304.00	1,000,718.00	8,626,355.00
Oyo	0.00	183,430.00	0.00	158,709.00	0.00	418,454.00	0.00	431,046.00	231,698.00	0.00	400,822.00	121,443.00	1,945,602.00
Pennington	0.00	969,412.00	0.00	972,576.00	0.00	975,086.00	0.00	0.00	967,243.00	0.00	966,547.00	971,587.00	5,822,451.00
Qua Iboe	11,400,152.00	9,688,693.00	9,500,288.00	9,458,157.00	7,600,433.00	7,597,579.00	1,899,596.00	0.00	951,577.00	6,650,811.00	8,550,764.00	6,651,004.00	79,949,054.00
Ukpokiti	946,906.00	948,852.00	948,517.00	948,105.00	995,586.00	947,443.00	995,154.00	946,623.00	949,282.00	947,369.00	499,770.00	995,347.00	11,068,954.00
Yoho	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	195,247.00	0.00	0.00	207,599.00	402,846.00
QIT	2,948,240.00	3,996,499.00	3,044,745.00	3,994,489.00	3,146,665.00	2,077,800.00	2,998,075.00	3,047,052.00	3,047,931.00	2,998,090.00	3,998,410.00	1,999,115.00	37,297,111.00
SEPCO	950,344.00	1,898,664.00	948,887.00	1,943,993.00	1,218,082.00	996,862.00	1,901,845.00	1,578,603.00	949,024.00	1,263,425.00	1,264,354.00	1,263,267.00	16,177,350.00

Stream	January	February	March	April	May	June	July	August	September	October	November	December	Total
Sub-Total	67,539,126.00	59,342,387.00	57,753,013.00	56,846,022.00	53,911,261.00	47,823,699.00	44,876,604.00	50,327,885.00	46,366,926.00	51,894,055.00	61,751,575.00	47,068,276.00	645,500,829.00
Daily-Average	2,178,681.48	2,119,370.96	1,863,000.42	1,894,867.40	1,739,072.94	1,594,123.30	1,447,632.39	1,623,480.16	1,545,564.20	1,674,001.77	2,058,385.83	1,518,331.48	1,768,495.42
Field Condensate													
Sub-Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily-Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil + Condensate													
Total Export	67,539,126.00	59,342,387.00	57,753,013.00	56,846,022.00	53,911,261.00	47,823,699.00	44,876,604.00	50,327,885.00	46,366,926.00	51,894,055.00	61,751,575.00	47,068,276.00	645,500,829.00
Daily-Average	2,178,681.48	2,119,370.96	1,863,000.42	1,894,867.40	1,739,072.94	1,594,123.30	1,447,632.39	1,623,480.16	1,545,564.20	1,674,001.77	2,058,385.83	1,518,331.48	1,768,495.42

Stream/Blend	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Ebok	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ekanga Zaffiro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Erha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Escravos	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forcados	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ima	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Koko Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Odudu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Okono	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Okoro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Okwori	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oso Condensate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oyo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennington	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
QIT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Qua Iboe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEEPCO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seplat Blend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ukpokiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Usan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yoho	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plant Condensate										
Abo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agbami	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ajapa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aje	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Akpo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Antan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asaramaturu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bonga	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bonny	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Brass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ebok	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ekanga Zaffiro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Erha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Escravos	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forcados	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ima	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Koko Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Odudu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Okono	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Okoro	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Okwori	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oso Condensate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oyo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennington	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
QIT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Qua Iboe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SEEPCO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seplat Blend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ukpokiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Usan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yoho	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil + Condensate										
Grand Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 45 : Crude Export Destination Summary**

Stream	Africa	Asia	Australia	Europe	North America	South America
Abo	0.00	0.00	0.00	0.00	0.00	0.00
Agbami	0.00	0.00	0.00	0.00	0.00	0.00
Ajapa	0.00	0.00	0.00	0.00	0.00	0.00
Aje	0.00	0.00	0.00	0.00	0.00	0.00
Akpo	0.00	0.00	0.00	0.00	0.00	0.00
Antan	0.00	0.00	0.00	0.00	0.00	0.00
Asaramaturu	0.00	0.00	0.00	0.00	0.00	0.00
Bonga	0.00	0.00	0.00	0.00	0.00	0.00
Bonny	0.00	0.00	0.00	0.00	0.00	0.00
Bonny NLNG	0.00	0.00	0.00	0.00	0.00	0.00
Brass	0.00	0.00	0.00	0.00	0.00	0.00
BRT	0.00	0.00	0.00	0.00	0.00	0.00
Ebok	0.00	0.00	0.00	0.00	0.00	0.00
Erha	0.00	0.00	0.00	0.00	0.00	0.00
Escravos	0.00	0.00	0.00	0.00	0.00	0.00
Forcados	0.00	0.00	0.00	0.00	0.00	0.00
Ima	0.00	0.00	0.00	0.00	0.00	0.00
Indorama	0.00	0.00	0.00	0.00	0.00	0.00
Koko Plant	0.00	0.00	0.00	0.00	0.00	0.00
Odudu	0.00	0.00	0.00	0.00	0.00	0.00
Okono	0.00	0.00	0.00	0.00	0.00	0.00
Okoro	0.00	0.00	0.00	0.00	0.00	0.00
Okwori	0.00	0.00	0.00	0.00	0.00	0.00
Oyo	0.00	0.00	0.00	0.00	0.00	0.00
Pennington	0.00	0.00	0.00	0.00	0.00	0.00
QIT	0.00	0.00	0.00	0.00	0.00	0.00
Qua Iboe	0.00	0.00	0.00	0.00	0.00	0.00
SEEPCO	0.00	0.00	0.00	0.00	0.00	0.00
Tulja	0.00	0.00	0.00	0.00	0.00	0.00
Ukpokiti	0.00	0.00	0.00	0.00	0.00	0.00
Yoho	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

**Table 46 : Crude Export Destination History in Percent**

Region	2012	2013	2014	2015	2016
Africa	0.0	0.0	0.0	7.2	0.0
Asia	0.0	0.0	0.0	14.4	0.0
Australia	0.0	0.0	0.0	0.0	0.0
Europe	0.0	0.0	0.0	23.6	0.0
North America	0.0	0.0	0.0	2.1	0.0
South America	0.0	0.0	0.0	5.1	0.0

**Table 47 : Average Price of Nigeria's Crude Streams as Quoted by Platts in USD**

Year	Agbami	Bonny	Escravos	Brass	Forcados	Qua Iboe	Akpo	Bonga
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	110.50	111.97	111.94	112.02	112.93	112.14	0.00	0.00
2012	110.71	112.84	113.10	112.82	114.21	113.21	0.00	0.00
2013	108.96	110.47	111.22	110.23	111.95	110.88	110.45	112.87
2014	99.36	100.70	100.66	99.84	101.35	100.80	99.37	101.13
2015	52.64	54.16	53.86	53.14	54.48	54.29	52.69	54.18

Year	Agbami	Bonny	Escravos	Brass	Forcados	Qua Iboe	Akpo	Bonga
2016	44.50	45.23	44.86	44.84	44.54	45.49	44.48	45.06

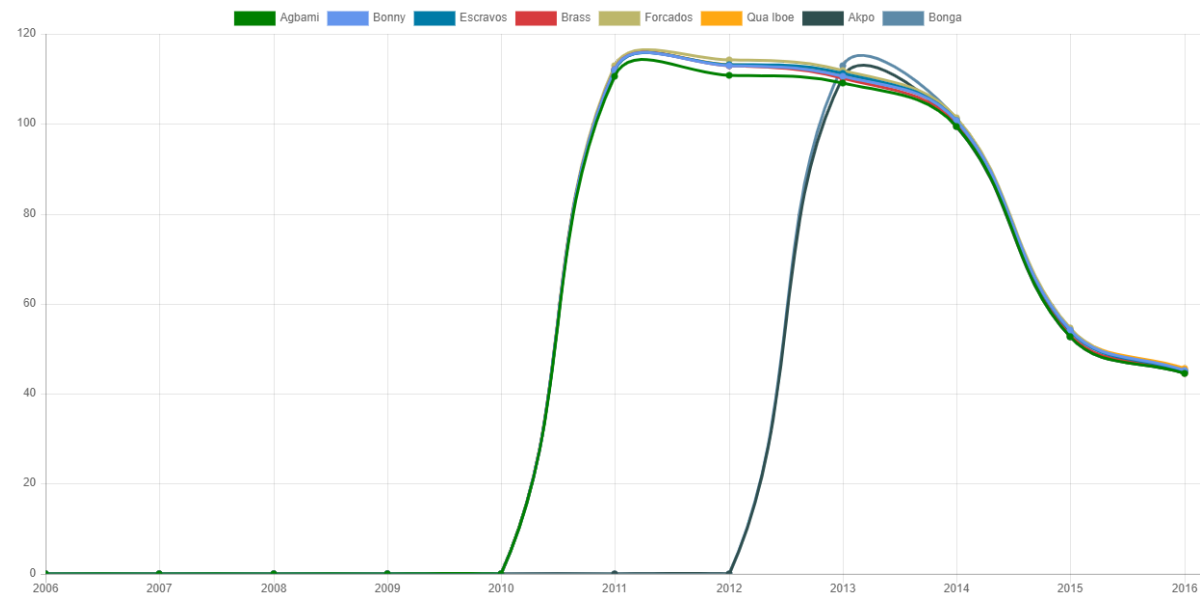


Figure  
Average Price of Nigeria's Crude Quoted by Platts in USD

Table 48 : Summary of Refineries

Process Unit	KRPC	PHRC (New)	PHRC (Old)	WRPC	NDPR	TOTAL
Refinery Intake						
Crude Oil (b/d)						
Q1	0.00	0.00	0.00	0.00	0.00	0.00
Q2	0.00	0.00	0.00	0.00	0.00	0.00
Q3	0.00	0.00	0.00	0.00	0.00	0.00
Q4	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00
Utilization Rate(%)						
Q1						
Q2						
Q3						
Q4						
2016						

Table 49 : Refinery Performance - Capacity Utilisation, BPSD

KRPC	PHRC (New)	PHRC (Old)	WRPC	NDPR	Total	Capacity Utilization %
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Table 50 : Refinery Performance Capacity Utilisation, Percentage

Year	KRPC	PHRC (New)	PHRC (Old)	WRPC	NDPR	Total
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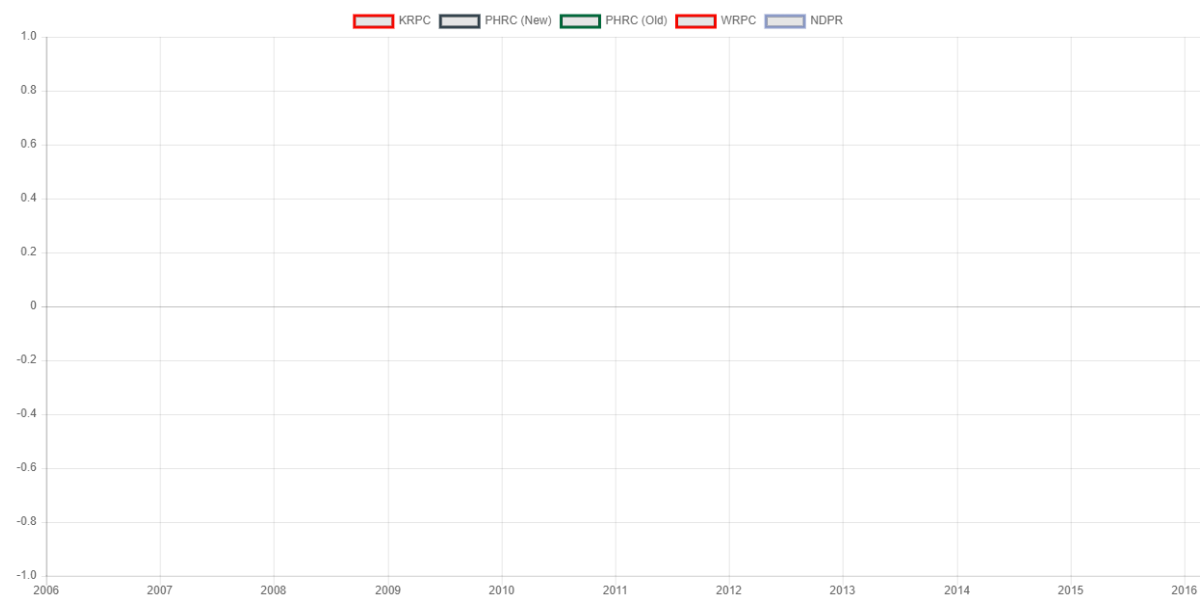


Figure  
Local Refinery Capacity

Table 51 : Status of Licensed Refinery Projects

#	company	Project Type	Capacity (BSPD)	Location	Planned Commission Date
1		Conversion	456	BISENI	2019
2		Conversion	5000	KORONAMA	2019
3		Modular	3090	TAYLOR-CREEK	2020
4		Conversion	456	ABASERE	2019
5		Modular	2100	OFURUMA	2019
6		Modular	2100	OFURUMA	2019
7		Modular	3090	ABO	2019
8		Conversion	5000	IYUNG	2019
9		Modular	7000	BALA	2020
10		Topping Plant	5000		
11		Topping Plant	5000		
12		Topping plant	5000		
13		Hydro-skimming Plant	24000		
14		Hydro-skimming Plant	10000		
15		Hydro-skimming Plant	21000		
16		Topping Plant	10000		

Table 52 : Domestic Gas Supply Obligation for E&P Companies, MMSCF/day

Company / Gas Producers	2017	2018	2019	2020	2021	2022
Total Gas	0	0	0	3366.00	3764.00	4055.00
DSO						

Table 53 : DGSO Allocation vs Supply Performance

Company	Supply Oblig (MMscf/d)	Ave Supply (MMscf/d)	% Performance	Remark
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Table 54 : Summary of Domestic Gas Supply Obligation Performance in MMSCF/Day

Year	Perf	Total
2007	Obligation	0
2007	Supply	0
2007	% Perf	0

Year	Perf	Total
2008	Obligation	0
2008	Supply	0
2008	% Perf	0
2009	Obligation	0
2009	Supply	0
2009	% Perf	0
2010	Obligation	0
2010	Supply	0
2010	% Perf	0
2011	Obligation	0
2011	Supply	0
2011	% Perf	0
2012	Obligation	0
2012	Supply	0
2012	% Perf	0
2013	Obligation	0
2013	Supply	0
2013	% Perf	0
2014	Obligation	0
2014	Supply	0
2014	% Perf	0
2015	Obligation	0
2015	Supply	0
2015	% Perf	0
2016	Obligation	0
2016	Supply	0
2016	% Perf	0

**Table 55 : Approved Gas Supply Structure for the Textile Industry**

Sector	2016	2017
Total (\$/Mcf)	0	0

**Table 56 : Summary of Major Gas Supply Facilities**

Company	Facility	Facility Type	Location	Design Capacity Mmscf/D	Design Life	Date of Commissioning
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**Table 57 : Status of Major Midstream Gas Projects**

Project Title	Company	Project Objective	Capacity Mmscf/d	Location	Expected Completion Date
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**Table 58 : Major Petrochemical Plants**

Location	Ownership	Processing Plant Type	Capacity MTPA	Feedstock	product
Kaduna	Federal Govt	Linear Alkyl Benzene	120000	Raw Kerosine	Kero Solvent

**Table 59 : Major Petrochemical Plants Projects**

Plant Name	Plant Type	Capacity by Unit	Output By Unit	Status	Start Year	Estimated Completion
Dangote Refinery & Petrochemicals Co	Petrochemical plant lined up near the Refinery	1.3 Million MTPA	1.3 million MTPA	11	2015	2019
Dangote Fertilizer Limited	Urea-based fertilizer plant	6,849.32 MTPD	2.5 million MTPA	12	2015	2018
Quantum Methanol Limited	Methanol Plant	3,000 MTPD	3000 MTPD	10		
Brass Fertilizer Co. Ltd	Methanol and Urea fertilizer plant	2.45 Million MTPA Urea, 1 Million MTPA Methanol	2.45 Million MTPA	11		
Pamaque Nig. Ltd	Hydrocarbon Refrigerant from LPG	20MMscf/d hydrocarbon refeedrant	20MMscf/d	10		
Uruga Methanol Limited, (Honeywell Group Ltd)	Methanol plant	1.2 milliom MTPA methanol for export	1.2 Million MTPA	10		
BRASS FERTILIZER PLANT	Petrochemicals Methanol and Urea fertilizer plant	2.45 Million TPA Urea and 1.0 million TPA methanol		0		
DANGOTE Urea Fertilizer Plant	Petrochemicals 2.5MTA Urea Fertilizer plant	2.5 million TPA urea		0		

Plant Name	Plant Type	Capacity by Unit	Output By Unit	Status	Start Year	Estimated Completion
INDORAMA ELEME FERTILIZER CHEMICALS LTD	Petrochemicals Urea Fertilizer Plant	1.4 million MTPA Urea Fertilizer		0		
PAMAQUE NIG. LTD/HYDROFLUOROCARBON	Petrochemicals Hydrocarbon Refrigerant from LPG	20MMscf/d		0		
QUANTUM METHANOL	Petrochemicals Methanol Plant	3000 MTPD methanol		0		
Uraga Methanol Limited	Petrochemicals Methanol plant			0		

Table 60 : Existing Blending Plants, their Locations and Total Capacities

Market Category	Company	Location	Storage Capacity Litres
	Subtotal		0
	Subtotal		0
	Grand Total		0

Table 61 : Licences / Approvals / Permits Granted

#	Facility Type	Licences / Approvals / Permit Issued
NO TABLE STRUCTURE	NO TABLE STRUCTURE	NO TABLE STRUCTURE

Table 62 : Refinery Production Volumes in Litres

Month	Product	Warri, Delta State (WRPC)	Kaduna, Kaduna State (KRPC)	Eleme, River State (PHRC)	Niger Delta Pet Res	Old PHRC, Rivers State	Total, MT	Total, Ltrs
January	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
February	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
March	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
April	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
May	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
June	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
July	pms	0	0	0	0	0	0	0

Month	Product	Warri, Delta State (WRPC)	Kaduna, Kaduna State (KRPC)	Eleme, River State (PHRC)	Niger Delta Pet Res	Old PHRC, Rivers State	Total, MT	Total, Ltrs
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
August	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
September	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
October	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
November	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
December	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
Total	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0

**Table 63 : Summary of Refinery Production Volumes in Litres**

Year	Product	Warri, Delta State (WRPC)	Kaduna, Kaduna State (KRPC)	Eleme, River State (PHRC)	Niger Delta Pet Res	Old PHRC, Rivers State	Total, MT	Total, Ltrs
2007	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2008	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2009	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0

Year	Product	Warri, Delta State (WRPC)	Kaduna, Kaduna State (KRPC)	Eleme, River State (PHRC)	Niger Delta Pet Res	Old PHRC, Rivers State	Total, MT	Total, Ltrs
2010	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2011	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2012	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2013	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2014	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2015	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2016	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpk	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0

**Table 64 : Petroleum Products Volumes as per Import Permits Issued in Metric Tonnes**

Months	pms	ago	dpk	atk	lpfo	base oil	bitumen
January	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
Febuary	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
march	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
april	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
may	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
June	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
July	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
August	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
September	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
October	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
November	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
December	1171041.67	1676333.33	309041.67	311083.33	154416.67	134704.17	55437.50
Total	14052500.04	20115999.96	3708500.04	3732999.96	1853000.04	1616450.04	665250

Table 65 : Petroleum Products Volumes as per Import Permits Issued in Metric Tonnes

Months	pms	ago	dpk	atk	lpfo	base oil	bitumen
2012	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0
2014	10665337.00	14356908.00	705000.00	2623500.00	1640000.00	183.09	1105500.00
2015	10104300.00	14981597.00	1312000.00	3884500.00	2340800.00	1602680.00	952300.00
2016	14052500.00	20116000.00	3708500.00	3733000.00	1853000.00	1616450.00	665250.00

Table 66 : Approved Product Import By Import Permits

Products	MAJORS (MT)			DAPPMA (MT)			TRADERS (MT)			Total (MT)	
	2015	2016	% Diff	2015	2016	% Diff	2015	2016	% Diff	2015	2016
ago	14981597.00	20116000.00	34	0	0	0	1	0	-100	14981598	20116000
Total	14,981,598.00	20,116,001.00	35	1.00	1.00	2	2.00	1.00	-99	14,981,601.00	20,116,003.00

Table 67 : Summary of Petroleum Products Importation by Market Segment Litres

Months	pms	ago	dpk	atk	lpg	lpfo	base oil	bitumen
NNPC, Metric Tonnes								
January	0	0	0	0	0	0	0	0
Febuary	0	0	0	0	0	0	0	0
march	0	0	0	0	0	0	0	0
april	0	0	0	0	0	0	0	0
may	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Major Marketers, Metric Tonnes								
January	0	0	0	0	0	0	0	0
Febuary	0	0	0	0	0	0	0	0
march	0	0	0	0	0	0	0	0
april	0	0	0	0	0	0	0	0
may	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Independent Marketers, Metric Tonnes								
January	0	0	0	0	0	0	0	0
Febuary	0	0	0	0	0	0	0	0
march	0	0	0	0	0	0	0	0
april	0	0	0	0	0	0	0	0
may	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Total, Metric Tonnes

Months	pms	ago	dpk	atk	lpg	lpfo	base oil	bitumen
NNPC, Metric Tonnes								
January	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0
march	0	0	0	0	0	0	0	0
april	0	0	0	0	0	0	0	0
may	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Average Daily Import, Metric Tonnes								
January	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
march	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
april	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
may	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 69 : Summary of Petroleum Products Importation by Market Segment Litres**

Market Segment	Product	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Total, Metric Tonnes	Total, Litres
NNPC	pms	0	0	0	0	0	0	0	1815976.17	0	0	1,815,976.2	2,435,224,044.0	
	ago	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	dpk	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	atk	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	lpg	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	lpfo	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	base oil	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	bitumen	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
Major Marketers	pms	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	ago	0	0	0	0	0	0	0	2431238.00	0	0	2,431,238.0	2,829,961,032.0	
	dpk	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	atk	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	lpg	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	lpfo	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	base oil	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	bitumen	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
Independent	pms	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	ago	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	dpk	0	0	0	0	0	0	0	155920.00	0	0	155,920.0	181,490,880.0	
	atk	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	lpg	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	lpfo	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	base oil	0	0	0	0	0	0	0	0	0	0	0.0	0.0	
	bitumen	0	0	0	0	0	0	0	0	0	0	0.0	0.0	

Petrol Importation by Market Segment

Diesel Importation by Market Segment

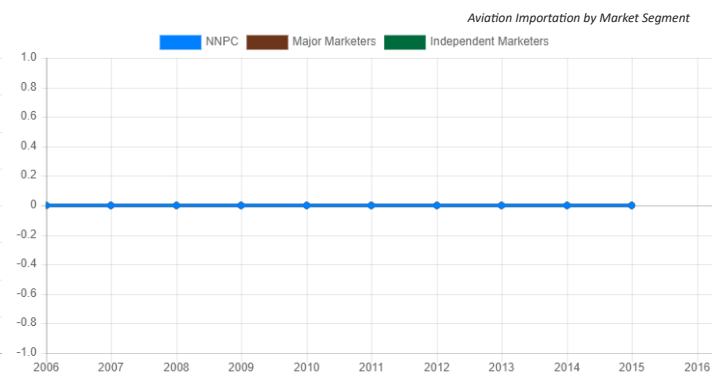
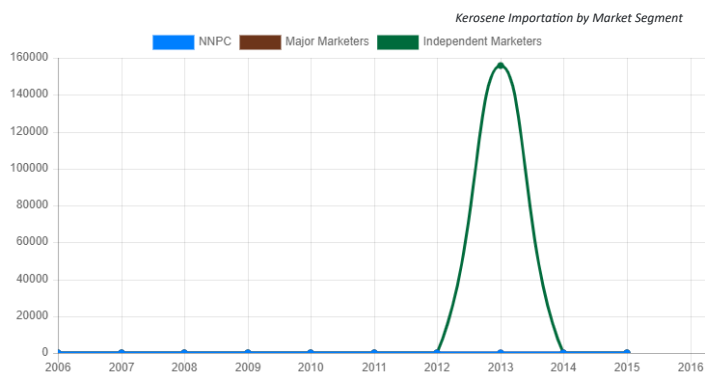
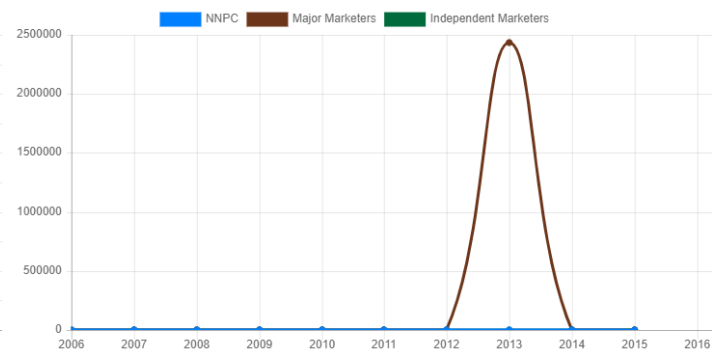
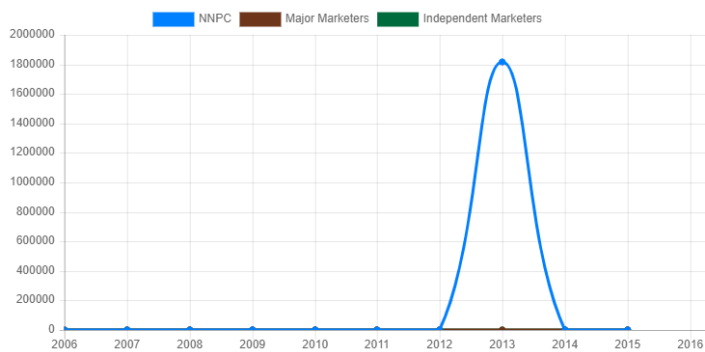


Figure  
Product Importation by Market Segment

**Table 70 : Petroleum Products Import Summary, Litres**

Year	pms	ago	dpk	atk	lpg	lpfo	base oil	bitumen
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	1,815,976.17	2,431,238.00	155,920.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 71 : Product Import: Number of Product Vessels**

Field Office	PMS Import Vessels	DPK Import Vessels	AGO Import Vessels	ATK Import Vessels
Calabar	101	11	25	0
Eket	6	0	0	0
Lagos	449	24	212	63
Port-Harcourt	83	2	39	2
Umuahia		0	370	0
Warri	246	7		
<b>Total</b>	<b>885</b>	<b>44</b>	<b>646</b>	<b>65</b>



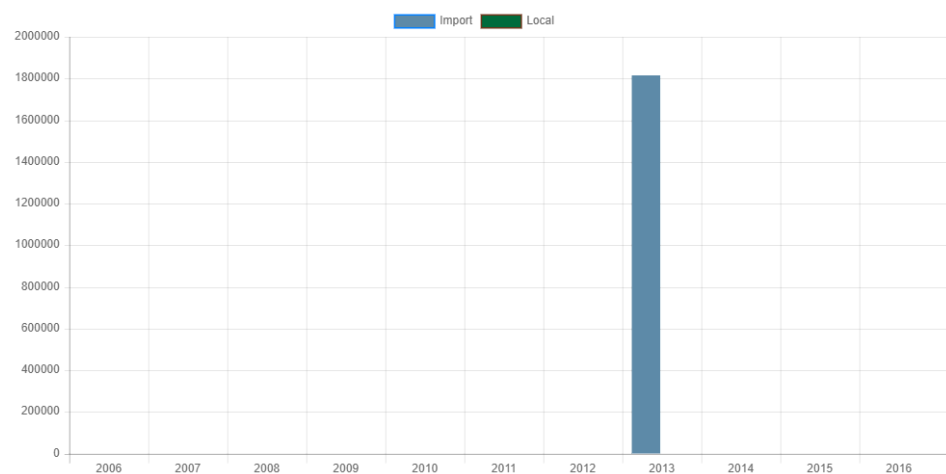
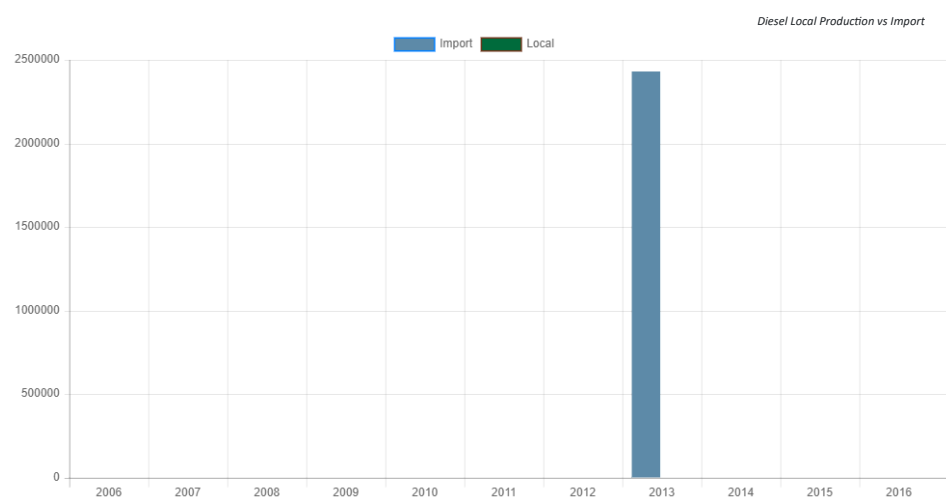
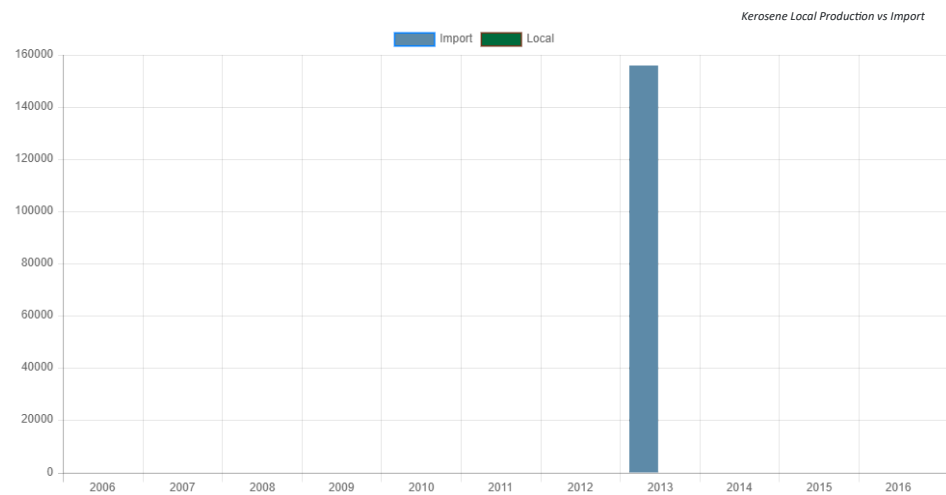


Figure  
Product Local Production vs Import



*Diesel Local Production vs Import*



*Kerosene Local Production vs Import*

**Table 72 : Retail outlets Summary - Filling Stations count**

State	Independent	Major	NNPC - Franchise & Mega	Grand Total
Abia	0	0	0	0
Adamawa	0	0	0	0

State	Independent	Major	NNPC - Franchise & Mega	Grand Total
Akwa-Ibom	0	0	0	0
Anambra	0	0	0	0
Bauchi	0	0	0	0
Bayelsa	0	0	0	0
Benue	0	0	0	0
Borno	0	0	0	0
Cross River	0	0	0	0
Delta	0	0	0	0
Ebonyi	0	0	0	0
Edo	0	0	0	0
Ekiti	0	0	0	0
Enugu	0	0	0	0
FCT	0	0	0	0
Gombe	0	0	0	0
Imo	0	0	0	0
Jigawa	0	0	0	0
Kaduna	0	0	0	0
Kano	0	0	0	0
Katsina	0	0	0	0
Kebbi	0	0	0	0
Kogi	0	0	0	0
Kwara	0	0	0	0
Lagos	0	0	0	0
Nasarawa	0	0	0	0
Niger	0	0	0	0
Ogun	0	0	0	0
Ondo	0	0	0	0
Osun	0	0	0	0
Oyo	0	0	0	0
Plateau	0	0	0	0
Rivers	0	0	0	0
Sokoto	0	0	0	0
Taraba	0	0	0	0
Yobe	0	0	0	0
Zamfara	0	0	0	0
Total	0	0	0	0

**Table 73 : Petroluem Product Marketers total capacities**

Marketers	PMS	DPK	AGO
Independent Marketers	0.00	0.00	0.00
Major Marketers	0.00	0.00	0.00
NNPC	0.00	0.00	0.00
NNPC - Franchise	0.00	0.00	0.00
NNPC - Mega	0.00	0.00	0.00
Total	0.00	0.00	0.00

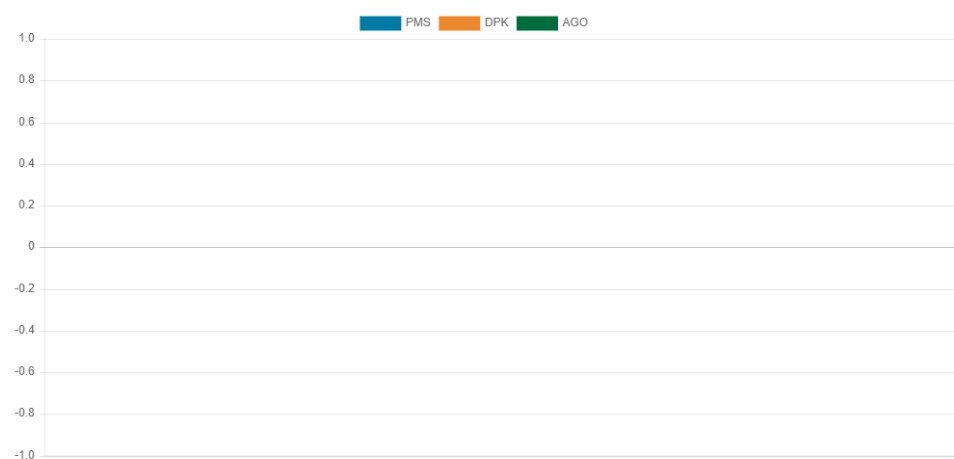


Figure  
Petroleum Product Storage Capacities by Market Segment

**Table 74 : Storage capacities of retail outlets by State and Market Segment**

Independent				MAJOR			NNPC - Franchise & Mega		
State	PMS	DPK	AGO	PMS	DPK	AGO	PMS	DPK	AGO
Abia	0	0	0	0	0	0	0	0	0
Adamawa	0	0	0	0	0	0	0	0	0
Akwa-Ibom	0	0	0	0	0	0	0	0	0
Anambra	0	0	0	0	0	0	0	0	0
Bauchi	0	0	0	0	0	0	0	0	0
Bayelsa	0	0	0	0	0	0	0	0	0
Benue	0	0	0	0	0	0	0	0	0
Borno	0	0	0	0	0	0	0	0	0
Cross River	0	0	0	0	0	0	0	0	0
Delta	0	0	0	0	0	0	0	0	0
Ebonyi	0	0	0	0	0	0	0	0	0
Edo	0	0	0	0	0	0	0	0	0
Ekiti	0	0	0	0	0	0	0	0	0
Enugu	0	0	0	0	0	0	0	0	0
FCT	0	0	0	0	0	0	0	0	0
Gombe	0	0	0	0	0	0	0	0	0
Imo	0	0	0	0	0	0	0	0	0
Jigawa	0	0	0	0	0	0	0	0	0
Kaduna	0	0	0	0	0	0	0	0	0
Kano	0	0	0	0	0	0	0	0	0
Katsina	0	0	0	0	0	0	0	0	0
Kebbi	0	0	0	0	0	0	0	0	0
Kogi	0	0	0	0	0	0	0	0	0
Kwara	0	0	0	0	0	0	0	0	0
Lagos	0	0	0	0	0	0	0	0	0
Nasarawa	0	0	0	0	0	0	0	0	0
Niger	0	0	0	0	0	0	0	0	0
Ogun	0	0	0	0	0	0	0	0	0
Ondo	0	0	0	0	0	0	0	0	0
Osun	0	0	0	0	0	0	0	0	0
Oyo	0	0	0	0	0	0	0	0	0
Plateau	0	0	0	0	0	0	0	0	0
Rivers	0	0	0	0	0	0	0	0	0
Sokoto	0	0	0	0	0	0	0	0	0
Taraba	0	0	0	0	0	0	0	0	0
Yobe	0	0	0	0	0	0	0	0	0
Zamfara	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

**Table 75 : Petroleum Products Average Consumer Price Range - Naira per Litre**

Year	Market Segment	PMS	ago	DPK
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Table 76 : LPG importation by Zone

Months	Lagos (MT)	Warri (MT)	Calabar (MT)
January	0.000	0.000	0.000
February	0.000	0.000	0.000
march	0.000	0.000	0.000
april	0.000	0.000	0.000
may	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000
TOTAL	0.00	0.00	0.00

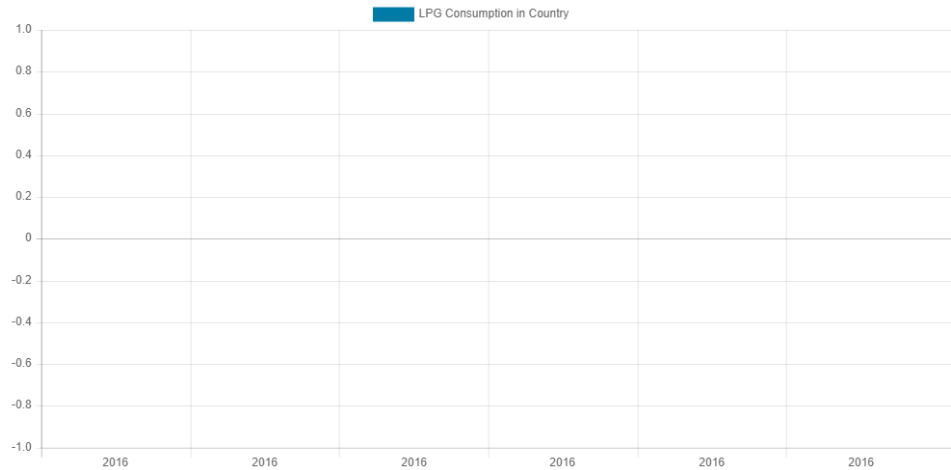


Figure  
LPG Consumption in 2016

Table 77 : Accident Report – Industry-wide

Month	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
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Table 78 : Accident Report – Upstream

Month	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
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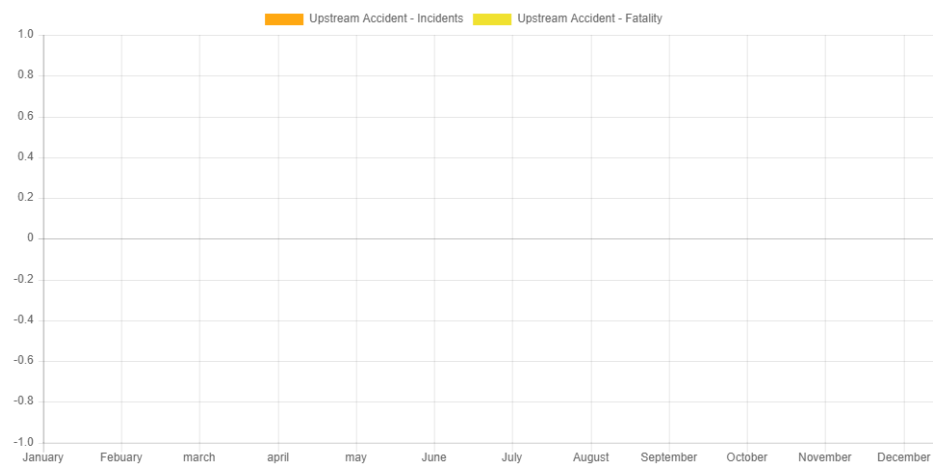


Figure  
Accident Report - Upstream

Table 79 : Accident Report – Downstream

Month	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
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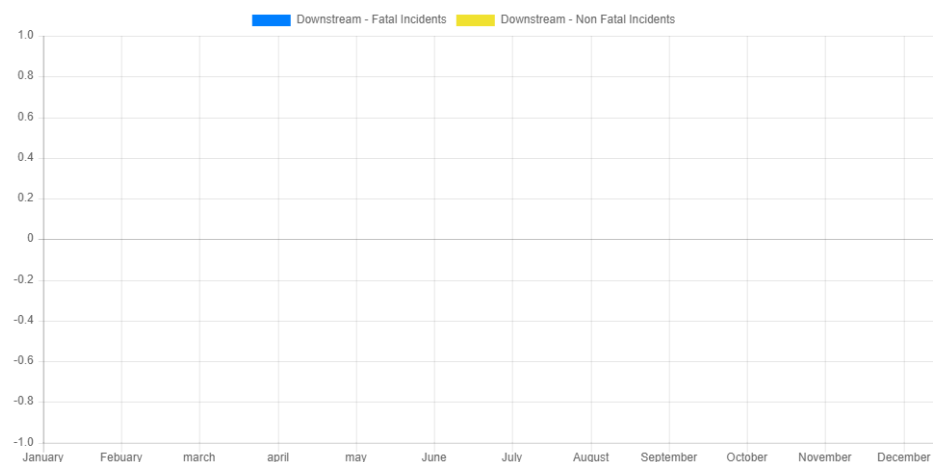


Figure  
Accident Report - Downstream

Table 80 : Accident Report – Upstream

Year	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0

Table 81 : Accident Report – Downstream

Year	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0

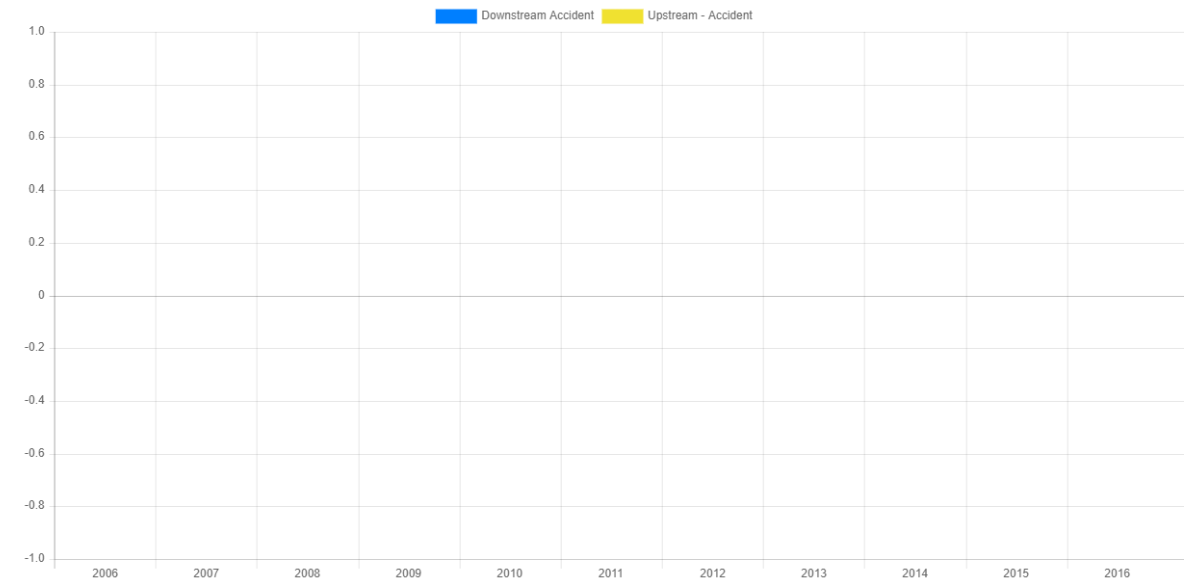


Table 82 : Accident Report – Industry-wide

Year	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0

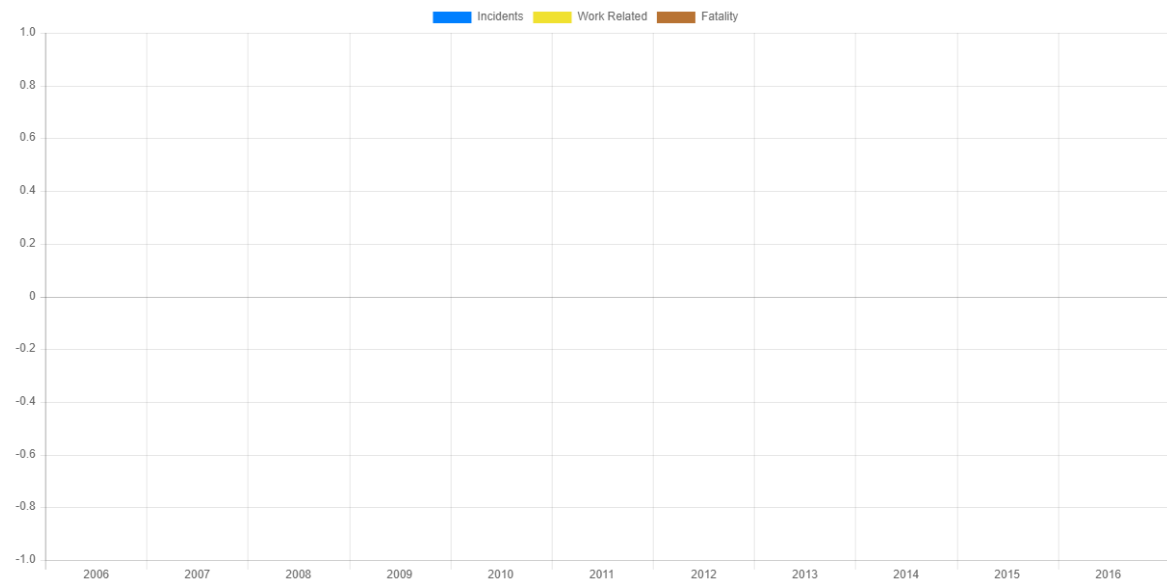


Figure  
Accident Report – Industry-wide

Table 83 : Spill Incidence Report

Month	Natural Accident	Corrosion	Equipment Failure	Sabotage	Human Error	YTBD	Mystery	Total Spill	Volume Spill
Total	0	0	0	0	0	0	0	0	0

Figure  
Spill Incidents

Table 84 : Spill Incidence Summary

Year	Number of Spills	Quantity Spilled (Br)
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0
2011	0	0
2012	0	0
2013	0	0
2014	0	0
2015	0	0

Year	Number of Spills	Quantity Spilled (Br)
2016	0	0

**Table 85 : Report on Produced Water Volumes Generated**

Company	Facility	Terrain	Concession	Volume/Day (Bbl)
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**Table 86 : Drilling Waste Volumes**

Month	Sum Of WBMC (Mt)	Sum Of OBMC (Mt)	Sum Of Spent WBM (Mt)	Sum Of Spent OBM (Mt)
Grand Total	0	0	0	0

**Table 87 : Accredited Waste Managers**

Company	Type of Facility	Location Area	Operational Status
Specialty Drilling Fluids Ltd	TDU : 1 unit		
Specialty Drilling Fluids Ltd	WBM : 1 unit		
Specialty Drilling Fluids Ltd	Hazardous Waste Transportation : Waste Transportation		
Nubian Nigeria Ltd	TDU : LTDU (Rotomil Low Temperature)		
Nubian Nigeria Ltd	WBM Handling : WBM Handling - Onsite		
Delta Waste Management Company Limited (DEL)	TDU : 3 HTDUs, 2 LTDUs		
Delta Waste Management Company Limited (DEL)	INCINERATOR : High Temp Hazardous Waste Incinerator		
Delta Waste Management Company Limited (DEL)	WBM Handling : Using HT Incinerator		
Delta Waste Management Company Limited (DEL)	Hazardous Waste Transportation : Waste Transportation		
Delta Waste Management Company Limited (DEL)	Tank/Vessel Cleaning unit : TCU-OS0701 & SC 15 TWGL		
ITS Drilling Services Nigeria Limited	INCINERATOR : 2 Trash Incinerators CA1000 & RD700 (Models)		
ITS Drilling Services Nigeria Limited	Secondary Waste Management : Secondary Waste Management		
ITS Drilling Services Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation		
Paschal Technical Services Ltd	INCINERATOR : 1 Macroburn V500C Incinerator		
Paschal Technical Services Ltd	Tank Cleaning : Gamajet-8		
Paschal Technical Services Ltd	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore		
Golden Years Ltd	INCINERATOR : 2x 1000kg/hr Incinerators		
Golden Years Ltd	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Golden Years Ltd			
Allman Global	INCINERATOR : 1 x 1000KG/HR Incinerator		
Allman Global	WBM : Mobile Water based Treatment Plant		
Allman Global			
The Initiates	TDU : 1 Indirect Fire Soil Remediation, WBM and Associated cuttings treatment Unit		
The Initiates			
The Initiates	Tank Cleaning : Super Macs		
The Initiates	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
The Initiates	INCINERATOR : 1 AANL Kg/hr Rotary Kiln Incinerator		
The Initiates	Secondary Waste Management : Secondary Waste Management		
The Initiates	WBM Handling : WBM Handling		
Nautilus Engineering and Construction Company (NECC)	TDU : 1 TDU		
Seric Implants	TDU : 1 Unit Bethlehem Thermal D System		
Boskel Engineering Services			
Boskel Engineering Services			
Halden Nigeria Limited	INCINERATOR : 1-unit Dual Chamber PL-1200 Incinerator		
Halden Nigeria Limited			
Halden Nigeria Limited	TDU : 1x Vulcan IDR		
Frigate Investment Ltd	TDU : 2 units LTDU		
Frigate Investment Ltd	WBM Handling : WBM Handling: Offsite		
Frigate Investment Ltd	Hazardous Waste Transportation : 4 Coral Barges		
Frigate Investment Ltd	Waste Water Treatment : 50kl/hr SS50000		
Frigate Investment Ltd	Secondary Waste Management : Secondary Waste Management		
Frigate Investment Ltd	Tank Cleaning : Gamajet Technology		
FIBOW	INCINERATOR : 1 1-unit High Temp Horizontal Flow Multi-Chambered Incinerator		
EPCC Ltd	INCINERATOR : 1-unit Sludge Incinerator		
Titan Projects Nigeria Limited	TDU : 2 units		
Titan Projects Nigeria Limited	WBM Handling : WBM Handling		



Company	Type of Facility	Location Area	Operational Status
Titan Projects Nigeria Limited	Secondary Waste/Solidification : Secondary Waste/Solidification		
Titan Projects Nigeria Limited	Hazardous Waste Transportation : 3 Coral Barges		
Comprehensive Remediation Technologies (CRT)	TDU : 1x GTS LTDU unit		
Comprehensive Remediation Technologies (CRT)	INCINERATOR : 1-unit G-30 Therm-Tec Incinerator		
Comprehensive Remediation Technologies (CRT)	Tank/Vessel Cleaning : Tank/Vessel Cleaning		
Comprehensive Remediation Technologies (CRT)	Hazardous Waste Transportation : Hazardous Waste Transportation		
Mosab Marine and Engineering Services Limited	TDU : 1unit Vulcan TDU		
Mosab Marine and Engineering Services Limited			
Mosab Marine and Engineering Services Limited	Tank/Vessel Cleaning : Tank/Vessel Cleaning		
Amotoi Global Services Limited	INCINERATOR : 1 unit – Model 4505		
Amotoi Global Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Amotoi Global Services Limited	WBM Handling : WBM Handling		
Franco Intl Energy Services	TDU : 1 unit		
Prime Sources Ltd	INCINERATOR : 1 unit		
Petro-Scan Ltd	TDU : 1 unit		
Fidella Oil and Gas Services Ltd	TDU : 1-unit Vulcan Model 14818 TDU		
Fidella Oil and Gas Services Ltd			
Fidella Oil and Gas Services Ltd	INCINERATOR : 1 unit (AANL-1000KG/HR DTS)		
Fidella Oil and Gas Services Ltd	Tank/Vessel Cleaning : Gobyjet		
Olutee Engineering Services			
Olutee Engineering Services			
Olutee Engineering Services			
Mawe Services Limited	TDU : 1 unit		
Titan Proects Nigeria Limited	TDU : 2 units		
Titan Projects Nigeria Limited	Hazardous Waste Transportation : Coral Barges		
Ebenco Global Resources Limited	INCINERATOR : 1 unit		
Vmart Company Limited	LTDU : 1 unit		
Vmart Company Limited	INCINERATOR : Incinerator		
Vmart Company Limited	Sewage Treatment Plant : Sewage Treatment Plant		
Silver Star Environmental Nigeria Limited	TDU : : 4 units		
Silver Star Environmental Nigeria Limited	WBM Handling : WBM Handling		
Silver Star Environmental Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
	TDU : TDU: 1 unit		
	Secondary Waste Management : Secondary Waste Management		
ITS Drilling Services Nigeria Limited	WBM Handling : WBM Handling		
ITS Drilling Services Nigeria Limited	INCINERATOR : CA-1000 Domestic Trash Incinerator		
ICREN Services Limited	INCINERATOR : 1 unit		
JAPPCO Nigeria Limited	WBM Handling : On-site treatment unit		
Stelmas Integrated Services Limited	Waste Recycling : Waste Recycling		
Blueworks Technologies	WBM Handling : On-site treatment unit		
Ejovi Dredging & Marine Services Limited	WBM Handling : WBM Handling		
Salasar Enterprises Limited	Pyrolysis plant : Pyrolysis plant		
Technoserve Africa Limited	WBM Handling : WBM Handling		
Dubi Nigeria Company Limited	WBM Handling : WBM Handling		
Montego Upstream Services Limited	TDU : TDU		
Montego Upstream Services Limited	WBM Handling : WBM Handling		
Montego Upstream Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore		
Dakotelin Nigeria Limited	WBM Handling : WBM Handling: On-site		
Dakotelin Nigeria Limited	Bulk Cuttings Evacuation/Transfer : Bulk Cuttings Evacuation/Transfer		
Currenters Nigeria Limited	Waste Recycling Plant : Waste Recycling Plant		
Currenters Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation – Onshore		
Currenters Nigeria Limited	Tank/Vessel Cleaning : Tank/Vessel Cleaning Unit		
JB Synergy Limited	Hazardous Waste Transportation : 1 Coral Barge		
Consolidated Integrated Field Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Prompt Technology Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Elvimex Nigeria Limited	Waste Recycling : Waste Recycling		
Elvimex Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Emtobi Multi Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Phronesis Oil and Gas Tek Limited	WBM Handling : WBM Handling: Onsite		
Wilton Services Nig. Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Offshore		
Wilton Services Nig. Limited	WBM Handling : WBM Handling - Onsite		
Oilfield Management Services Limited	TDU : 1 Unit (Model WJ 9)		
Oilfield Management Services Limited	WBM Handling : WBM Handling - Onsite		
TMCH Group Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
TMCH Group Limited	Tank/Vessel Cleaning unit : Gamajet VIII		
TYJ Trinity oilfield Services	Zero Discharge Drilling Waste Streams Fixation : Zero Discharge Drilling Waste Streams Fixation		
Newbirth Environmental Project Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Elywin Wealth Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Integrated Waste Solutions Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		

Company	Type of Facility	Location Area	Operational Status
Greenbelt Tropical Environs Limited	TDU : 1-unit LTDU		
Greenbelt Tropical Environs Limited	Hazardous Waste Transportation : Coral Barges		
Greenbelt Tropical Environs Limited	Secondary Waste Management : Secondary Waste Management		
Roadlamp Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
Philcom Integrated Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore		
FILCO Drilling & Completion Services Limited	Offshore Drill Cuttings Evacuation : Offshore Drill Cuttings Evacuation		
Coson Oil and Gas Projects Limited	WBM Handling : WBM Handling: On-site		
Anam Resources Limited	Waste Recycling : Waste Recycling		
B2 Oil & Gas Project Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore		
CKS Environmental Services Nigeria Limited	WBM Handling : WBM Handling: Onsite		
Milat Nigeria Limited	Tank Cleaning : Milat-Sepor Equipment		
OMG Rubicon Synergy Limited	Wood Waste Recycling : Frost ST6 Woodchipper		
Synergy Environmental Experts Global Limited	Tank Cleaning : Gamajet (Alfa Laval GJ-Series)		
Patoski International Services Limited	Tank Cleaning : Gamajet		
Lafarge Africa Plc	Secondary Waste Management : Secondary Waste Management		
Mabisel Trading & Construction Company Limited	Tank/Vessel Cleaning unit : Gobyjet		
Monarch Environmental Services Limited	Tank/Vessel Cleaning : Tank/Vessel Cleaning		
Mascodi Global Integrated Services Limited	Waste Recycling : Waste Recycling (Parrafin wax)		
Tima Global Resources Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore		
ISEEU Multi-Concept Limited	Tank/Vessel Cleaning unit : Scanjet SC-45-TW		
NCS Tank Cleaning Limited	Tank/Vessel Cleaning : Tank/Vessel Cleaning		
Remix Industrial Support Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore		
Global Process and Pipeline Limited	Tank/Vessel Cleaning : Stoneage Torus 130		
Environ Consult & Remedial Services Limited	Tank/Vessel Cleaning unit : NES 320 Mover/ Gamajet		
KTV Group Nigeria	Tank/Vessel Cleaning unit : Blabo Tech		
Judora Integrated Services Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore		
CE-Stalong Resources Limited	Tank/Vessel Cleaning unit : Alfa Laval GJ-8		
Zitadel Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning unit		
M-I Nigeria Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning unit		
International Environmental Consultant	TDU : 1 unit		
KGDN Technologies Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning unit		
Iwo-se International Services Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning unit		
Honeybrooks Industrial & Environmental Services Limited	Tank/Vessel Cleaning unit : BR Mixer		
African Circle Pollution Management Limited	Tank Cleaning : Gamajet		
African Circle Pollution Management Limited	Liquid Waste Separator : Liquid Waste Separator		
African Circle Pollution Management Limited	INCINERATOR : 1 unit Tectrol Incinerator		
EnvironSafe Logistics Limited	Hazardous Waste Management : Hazardous Waste Management - Onshore		
Seegnal Nigeria Limited	Tank/Vessel Cleaning unit : Gamajet		
Asbury International Limited	Tank/Vessel Cleaning unit : Alfa Laval GJ-10 & GJ-8)		
Eka-Ata Onne Nigeria Limited	INCINERATOR : AANL-1000kg/hr		
Resdepm International Limited	Tank/Vessel Cleaning unit : Hurricane QC250 Vacuum Unit		

**Table 88 : Summary Of Waste Management Facilities**

#	Type of Facility	Operational Permit
37	INCINERATOR	19
38	TDU	22
39	WBM	2
40	Hazardous Waste Transportation	31
41	Tank/Vessel Cleaning unit	15
42	Secondary Waste Management	6
43	Tank Cleaning	7
44	Waste Water Treatment	1
45	Secondary Waste/Solidification	1
46	Tank/Vessel Cleaning	7
47	LTDU	1
48	Sewage Treatment Plant	1
49	Waste Recycling	4
50	Pyrolysis plant	1
51	Bulk Cuttings Evacuation/Transfer	1
52	Zero Discharge Drilling Waste Streams Fixation	1
53	Offshore Drill Cuttings Evacuation	1
54	Wood Waste Recycling	1
55	Liquid Waste Separator	1
56	Hazardous Waste Management	1
57	WBM Handling	20



Month	BIOLOGICAL MONITORING STUDY	ENVIRONMENTAL BASELINE STUDY	ENVIRONMENTAL EVALUATION STUDY	ENVIRONMENTAL IMPACT ASSESSMENT	ENVIRONMENTAL SCREENING REPORT	POST- DRILL SEABED SURVEY	PRE -DRILL SEABED SURVEY	POST IMPACT ASSESSMENT STUDY	SCOPE OF WORK/TERMS OF REFERENCE	PRELIMINARY IMPACT ASSESSMENT	Total
November	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0
Total											

**Table 97 : Offshore Safety Permit OSP Summary**

Year	PERSONNEL REGISTERED	PERSONNEL CAPTURED	PERMITS ISSUED
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**Table 98 : Approved Safety And Medical Emergency Training Centres**

#	Company	Facility Location Address	Approved Courses
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**Table 99 : Revenue Performance Summary**

Year	Oil Royalty ₦	Gas Royalty ₦	Gas Flare Penalty ₦	Concession Rentals ₦	MOR ₦	Signature Bonus ₦	Total Revenue ₦
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	694,352,412,710.14	0.00	2,388,572,351.20	728,308,923.82	951,380,744.23	0.00	698,420,674,729.39
2011	1,066,836,980,909.87	14,613,812,392.68	3,482,627,975.15	388,502,293.27	2,077,222,926.87	0.00	1,087,399,146,497.84
2012	1,052,043,067,383.93	22,242,285,752.85	3,849,873,091.61	444,535,531.69	1,370,171,171.68	0.00	1,079,949,932,931.76
2013	960,540,365,106.84	23,235,123,088.28	3,120,786,665.13	178,630,934.47	3,981,983,109.64	0.00	991,056,888,904.36
2014	986,343,364,217.80	21,110,923,948.24	2,930,215,304.51	413,496,723.26	5,983,027,290.84	0.00	1,016,781,027,484.65
2015	545,061,446,369.23	22,292,228,906.41	2,590,365,296.82	201,275,922.56	17,489,298,348.58	0.00	587,634,614,843.60
2016	437,356,879,889.83	16,298,590,492.52	2,333,879,050.11	342,495,121.25	6,408,509,381.58	0.00	462,740,353,935.29
Total	5,742,534,516,587.64	119,792,964,580.98	20,696,319,734.53	2,697,245,450.32	38,261,592,973.42	0.00	5,923,982,639,326.89

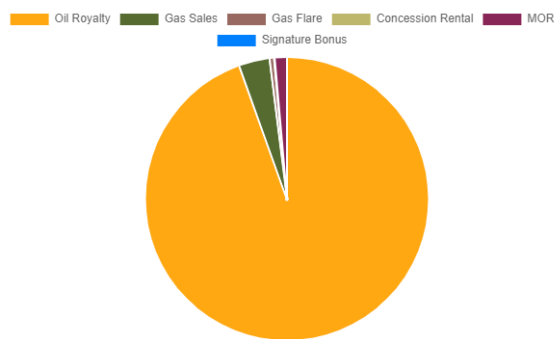


Figure  
Revenue Performance Summary Yearly

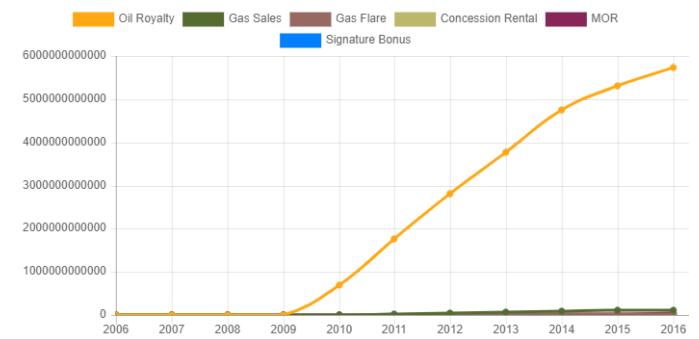


Figure  
Revenue Performance

## 5.0 GLOSSARY ITEMS

AG - Associated Gas  
AGO - Automated Gas Oil  
AR2 - African Regional Line  
ATC-Approval to Construct  
BPSD – Barrel per Stream Day  
CB - Carbon Black

## 5.0 GLOSSARY ITEMS

DGSO - Domestic Gas Supply Obligation

DPK - Dual Purpose Kerosene

DPR - Department of Petroleum Resources

EGP – Escravos Gas Plant

EOR - Enhanced Oil Recovery

FCT - Federal Capital Territory

FPSO - Floating Production Storage and Offloading

IDSL –Integrated Data Services Limited

IO – Indigenous Operator

IOC - International Oil Company

JV - Joint Venture

KM - Kilometer

KRPC - Kaduna Refinery & Petrochemical Company

LAB - Linear Alkyl Benzene

LLDPE - Linear Low Density Polyethylene

MF - Marginal Field

MMbbbls - Million barrels

MMSCFD - Million Standard Cubic Feet per Day

MT – Metric Tonnes

NAG – Non-Associated Gas

NAOC - Nigerian Agip Oil Company

NAPIMS - National Petroleum Investment Management Services

NDPR - Niger Delta Petroleum Resources

NDRC - Niger Delta Regional Data Compilation

NGC – Nigerian Gas Company

NGL - Natural Gas Liquid

NNPC - Nigerian National Petroleum Corporation

NPDC - Nigerian Petroleum Development Company

OBLG - Obligation

OML - Oil Mining Lease

OPEC – Organization of the Petroleum Exporting Countries

OPL - Oil Prospecting License

PE - Polyethylene

PERF - performance

PHRC - Port Harcourt Refining Company

PMS - Petroleum Motor Spirit

PP - Polypropylene

PPHP - Polypropylene Homo-Polymer

PPMC - Petroleum Product Marketing Company, a subsidiary of NNPC

PPT - Petroleum Profit Tax

PRF - Propylene-Rich Feed

PSC - Production Sharing Contract

SC - Service Contract

SPDC - Shell Petroleum Development Company

SQ KM - Square Kilometer

SR - Sole Risk

TA – Technology Adaptation

TCF – Trillion Cubic Feet

TQ – Technology Qualification

WRPC - Warri Refining & Petrochemical Company

The data and information published in this report are subject to ongoing review by DPR based on continuous reconciliation with various stakeholders. Therefore, reliance on data contained herein should be based on final confirmation by DPR.