



## Department of Petroleum Resources

### 2013 OIL & GAS ANNUAL REPORT

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## 1. REMARKS FROM DIRECTOR OF PETROLEUM RESOURCES

Globally, energy discourses in many fora have centred on energy security, sustainability, climate change and impact of global oil markets on developing countries: producers and consumers alike. Recently, the Federal Government of Nigeria reiterated its commitment to resolving its energy challenges and harnessing the potentials toward energy prosperity for her citizenry. This is to ensure that Nigeria remains a competitive supplier of energy as it strives to deepen its energy utilization and domestication to facilitate economic diversification to other sectors.

This year's Nigeria Annual Oil and Gas Industry Report (NOGIAR) contains expository data detailing the activities across the oil and gas value chain in the period under review. The upstream industry performance is seen to be steady with marginal improvement. The aggregate hydrocarbon reserves are about 37 billion barrels of oil and condensate while 199 trillion cubic feet for gas reserves. This is an increase of about 0.08% and 0.85% year-on-year (y-o-y) respectively. Contractual arrangements account for about 23% of the nation's hydrocarbon reserves, while Joint Venture (JV) arrangements account for approximately 62% of the aggregate concessionary reserves. Interestingly, 45% of Nigeria's aggregate reserves resides in the offshore terrain while about 26% are on land. Swampy terrain accounts for the remaining 29%.

In the period under review, production capacity marginally increased by 3% (y-o-y) to an average 754 million barrels of oil in 2018. In the last 5 years, contractual arrangements production capacity has steadily increased, averaging 3% growth, to account for about 35% of total production. JV arrangements contributed about 52% of aggregate production in the preceding year. This is an average 3.5% decline over the last 5 years. Non-International Oil Companies' production capacity accounts for about one-eighth of aggregate production. This is an 8.6% and 1.9% asset growth in the last 5 years for Independent and Marginal field producers, respectively. The depletion and reserves replacement rate y-o-y averaged 2.04% and 4.00% respectively. Currently, the reserves life index stands at about 49 years.

Gas reserves has been on the incline from 2013 and is projected to continue to grow at a conservative rate of about 1.0%. In the review period, gas development picked up to six (6) NAG development plans from 2 NAG development plans in 2017. This is attributable to growing commitments to gas projects. The Domestic Supply Obligation (DSO) performance was about 48.0%. The national gas capacity performance for 2018 was about 80.0% with an average of 1.3 BSCF/D gas delivery to the domestic market.

Overall, gas utilization in the country for 2018 shows the export market accounting for 41%, field/plant use accounts for 31%, domestic market is about 17% and flare gas is about 11%. The zero routine gas flaring target in 2020 is vigorously being pursued by the Department. The impact of regulatory instruments such as Flare Gas (Prevention of Waste and Pollution) Regulations 2018 would undoubtedly facilitate the attainment of the zero flare elimination target and improve gas utilization in the coming years. The Department continues to drive the on-going implementation of the Nigerian Gas Transportation Network Code (NGTNC). The review of the Network Code licensing framework and development of all its ancillary agreements have been firmed preparatory to formal launch in 2019.

Gas utilization is being deepened by increasing liquefied petroleum gas (LPG) penetration. LPG consumption increased by about 16.0% year on year. A total of 364 LPG plant licenses and approvals were issued in 2018. This is expected to give about 15.0% rise in the nation's LPG consumption based on storage capacity. Safety and environmental compliance performance in the review year shows a declining path. Incidents and fatal accidents are mainly due to petroleum tanker truck accident and gas plant explosions.

In conclusion, this annual report is put together to acquaint our stakeholders with relevant reliable data on the 2018 operations of the Nigerian oil and gas industry, with a little more focus on the near virgin but attractive midstream sector. The data in the NOGIAR report would aid investors in making informed decisions on the Nigeria oil and gas industry investment opportunities. It would also provide researchers, academia and planners with updated knowledge and information on the developments in the industry. The Department would continue in its transparency commitment in providing reliable and high-quality data to the public. It is our hope that this edition would enrich policies, plans and studies on the industry thereby facilitating value creation and addition to all stakeholders.

## 2. REGULATORY STRUCTURE OF THE NIGERIAN OIL AND GAS INDUSTRY

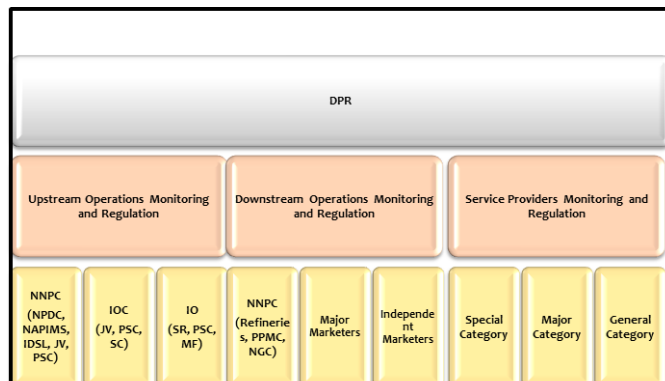


Figure 1: The Nigeria Oil and Gas Industry

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. MAKING MODULAR (MINI) REFINERIES WORK

In the face of dependency on importation for petroleum products availability, attempts by the Nigerian Government to encourage local private investments in refining of crude oil in the past had yielded very low success. The present government has launched new initiatives to encourage establishment of modular (mini) refineries as a short-term solution to the product supply problem. A study of the modular (mini) refinery project shows that it is a viable project even in the event of competing with mega refineries in the same market (though the margin may become very low under this situation). In order to meet government's aspiration of making Nigeria a crude oil refining hub, government has provided conducive environment and incentives to make mini (modular) refinery projects more attractive. This article evaluates the progress status in the establishment of modular refineries in Nigeria while identifying the major challenges being faced with recommended solutions.

Nigeria's four state-owned refineries with a plate capacity of 445,000 barrels per stream day have continued to perform far below capacity. Over eighty percent of the petroleum products consumed in Nigeria is imported<sup>1</sup>. The pump prices of these products except Automotive Gas Oil (Diesel) are subsidized by the government. It is believed that the Federal Government of Nigeria spends over 200 billion Naira every year to subsidized petroleum products. These monies would have been used to provide infrastructure or provide better quality education or health facilities. A conservative estimate suggests that 55 million barrels of petroleum products are consumed daily in Nigeria at the ratio of 35:12:8 for PMS, AGO and DPK respectively. Analysis also shows that at the current demand growth rate, we will need to process 750,000 barrels of crude per day to meet the nation's demand for petroleum product by 2020<sup>1</sup>. There is currently a deficit 2.6 million barrels per stream day between demand and supply of petroleum products in Africa<sup>2</sup>.

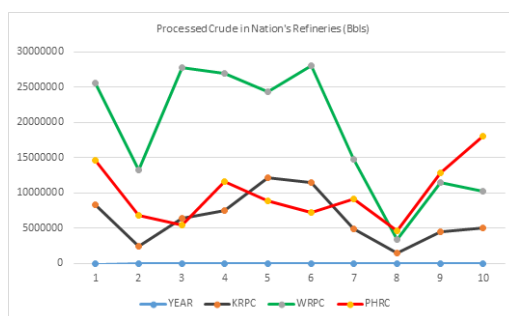


Figure 2: Crude oil processed in Nigeria's refineries between 2008 and 2017

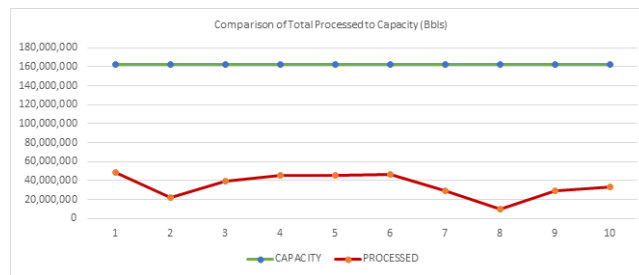


Figure 3: Comparison of the total crude processed to capacity of the nation's refineries (2008 – 2017)

In order to ensure regular supply of petroleum product for domestic consumption and provide veritable platforms for Nigerians and investors to take advantage of these opportunities, the Federal Government has launched some initiatives to support the establishment of private mini (modular) refineries. These initiatives include:

- The "7 Big Wins" Initiative (2015 – 2019). The initiative captured the short and medium-term priorities to grow Nigeria's Oil and Gas Industry. It proffers a roadmap for developing a stable and enabling oil and gas landscape with improved transparency, efficiency, stable investment climate, and a well-protected environment. The "Big Win 4" focuses on expansion of domestic refining capacity and rehabilitation of existing refineries.
- The National Petroleum and Gas Policies. The National Gas Policy was approved by the Federal Executive Council on the 28<sup>th</sup> day of June 2017. This was followed immediately by the approval of the National Petroleum policy on the 19<sup>th</sup> day of July 2017. These policies provide the framework for creation of strong refining hub in Nigeria, divestment of government-owned refineries, co-location of brownfield refineries with existing refineries and construction of private refineries.

#### The Mini (Modular) Refinery Project:

A modular refinery is a prefabricated crude oil processing plant constructed on skid mounted surfaces, with each structure containing a portion of the entire refining process plant, with by interstitial piping to form an easily manageable process. Technically, a modular refinery could be either simple or complex, with capacity ranging from 100 bpsd to 10,000 bpsd. They are however not defined by size. They can be transported in modules across distances and put together at the location desired. The other advantages of modular refineries include short project completion time, relatively small overall project cost, provides quicker investment return, can be installed in small space and could be designed towards petroleum product need around its location.

Attempts to construct private refineries in Nigeria started in 1990 with the call for indigenous private participation in crude oil refining by the government. Between 1990 and 2000, the Department of Petroleum Resources received over 100 applications. From 2001 to 2007, the 3-Stage Licensing (License to Establish - LTE, Approval to Construct - ATC and License to Operate - LTO) process, which is still in use to date was adopted. About 105 applications were received during the period, leading to grant of 21 LTEs in 2002 and 17 ATCs in 2004. Between 2008 and 2011, focus was placed more on mini (modular) refineries. Nine (9) LTEs were granted and two plants were fabricated, but only the 1,000 bpsd capacity Niger Delta Petroleum Resources refinery at Ogbelle River State was commissioned. From 2012 to date, about 34 LTEs have been granted for mini(modular) refinery projects; six (6) of these companies have been granted ATCs and are at different levels of construction.

The success rate of establishment of mini(modular) refineries in Nigeria is low; only one modular refinery has been commissioned since 2008 out of about 43 LTEs issued. However, in the last two years, construction of 7,000 bpsd OPAC Refinery in Umusetti, Delta State and 10,000 bpsd Niger Delta Petroleum Resources Refinery expansion project in Ogbelle, Rivers State started off and are near completion owing to the implementation of government policies and the support from the Department of Petroleum Resources. A few other modular refinery projects, namely Edo Refinery, Ikpoba Okha; Petrolex Refinery, Ijebu Ode; African Refinery, Port Harcourt and Southfield Refinery, Ologbo have either completed detailed engineering, secured modules to relocate or the equipment are being fabricated at the manufacturers yard.

Using Bonny Light Crude as an example, If the buying of the crude and the selling of the products are done using international prevailing prices, it is possible to show that the operation of the plant is profitable using the RefTexas Yield / Profit calculator for a 10,000 bpsd mini(modular) topping refinery that processes Bonny Light crude oil into naphta, diesel and fuel oil.


 <b>Refinery Equipment of Texas, LLC</b>						
Crude Oil Type: Bonny Light Assay ( 32.9 API )						
11/05/2019 Yield / Profit Calculator - Per Day						
10,000	Barrels per day	Cost per barrel USD	\$78.00	Total	\$780,000.00	
		Percent of cost	Barrels	Less:	Sell \$	Projected Sell \$
1.00%	Avg. % yield for water-gas	\$7,800.00	100	15,899	\$0.00	\$0.00
28.78%	Avg. % yield for naphtha	\$224,484.00	2,878	457,964	\$0.80	\$366,061.21
52.98%	Avg. % yield for diesel	\$413,088.00	5,298	841,984	\$0.80	\$673,985.27
17.20%	Avg. % yield for HFO **	\$134,628.00	1,720	274,411	\$0.80	\$219,528.97
0.00%	Avg. % yield for asphalt**	\$0.00	0	0	\$0.00	\$0.00
Assumptions: Crude API see above				return	\$1,259,175.46	
** heavy fuel oil is a blend of diesel no. 4, 5 & 6 (higher quality than #6)				cost	\$780,000.00	
*** yield for asphalt road base / residuum or bitumen				Daily \$	\$479,175.46	
www.plattts.com				30 days	\$14,375,263.68	
				Annual	\$172,503,164.16	

Figure 4: Yield /Profit Calculation for a 10,000 bpsd mini refinery

#### Conclusion and Recommendations

Modular refinery is a profitable project, even in the event of mega refineries competing in the same market. Competition in the same market with mega refineries will only reduce the profit margin for the smaller plant based on economies of scale. The establishment of modular refineries is the short-term remedy for availability of petroleum products from local production in Nigeria and the government in the last few years have been providing conducive environment and support for the realization of establishment of modular refineries in Nigeria. The government has also approved total waiver (100%) on custom duties for modular refinery equipment imported for licensed modular refinery projects. These efforts by the government and the support from the Department of Petroleum Resources have changed the modular refinery projects landscape in the last two years. It is projected that at least five modular refineries with each processing up to 40,000 barrels of crude per day will be operational in Nigeria in the next five years.

The efforts of the government in providing conducive environment for establishment of modular refineries in Nigeria have been commendable. However, a lot more incentives can be put in place to realize government's aspiration of making Nigeria a refining hub in Africa. These incentives can take the form of establishing a special purpose vehicle (trust fund) to assist in funding modular refinery projects; providing tax holidays and foreign loan guarantees for modular refinery projects; and investing in power and road/rail infrastructure especially in areas where mini refinery licenses have been granted.

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## 4. STATISTICAL DATA

### 4.1. UPSTREAM

#### 4.1.1 Concessions

**Table 1 : 2013 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. www.geoinfoweb.com
10	Harvex Geosolutions Limited	Brokerage of Data	Offshore Niger Delta	Controlled Source Electromagnetic	NA	Data is being marketed and licensed. Contact company.

**Table 2 : 2013 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
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

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
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-o1-2019
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
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



#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
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 (SEPCO)	25-10-2014	24-10-2034
110	OML143	Production Sharing Contract (PSC)	369		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEPCO)	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)

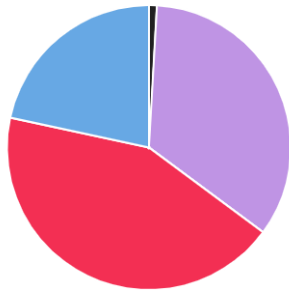


Figure  
Distribution of Nigerian OML by Contract Type

Concession By Terrain

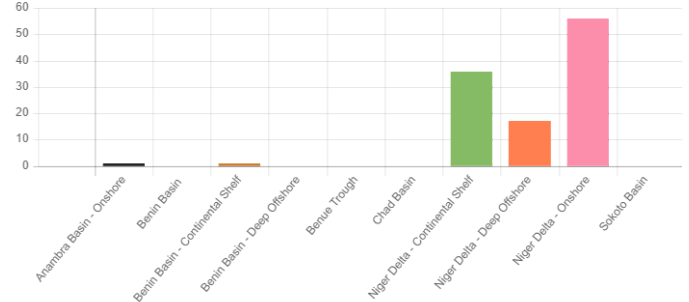


Figure  
Distribution of Nigerian Concessions by Terrain

Table 3 : 2013 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	
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

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
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	
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 (SEEPKO)	6/29/1905	29-04-2019

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
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

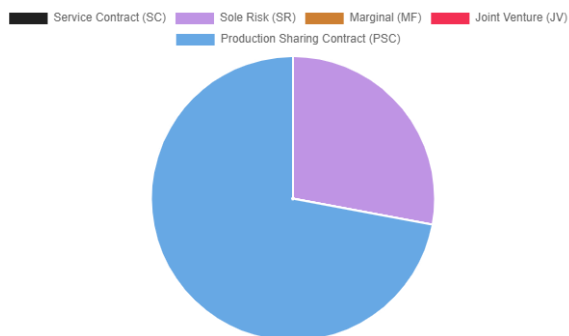


Figure Distribution of Nigerian OPL by Contract Type

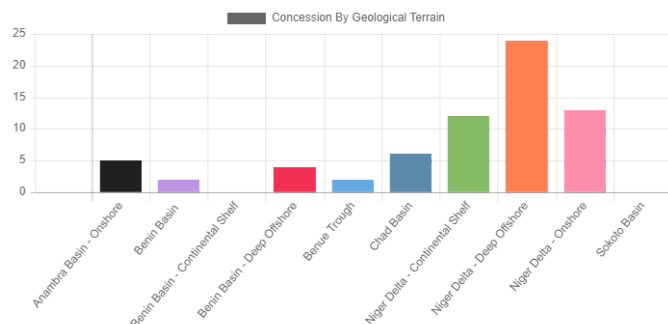


Figure Distribution of Nigerian OPL by Geological Terrain

Table 4 : 2013 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
Benin	25	30	24	79
Benue	2	3	11	16
Bida	9	3	16	28
Chad	3	3	5	11
Niger Delta	18	21	13	52
Sokoto	20	21	6	47
Benue	15	13	32	60
Niger Delta	10	7	12	39
Anambra	6	1	12	19
Benin	9	3	36	48
Benue	2	0	41	43
Bida	0	0	17	17
Chad	6	0	40	46
Niger Delta	53	105	34	192
TOTAL	0	0	0	0

#### Marginal Fields

Table 5 : 2013 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

Field Name	Company Name	Block
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 & PRODUCTON LIMITED	OML46
KD	SAHARA ENERGY LIMITED (OPERATOR)	OML40
INYI CREEK	GREEN ENERGY INTERNATIONAL LIMITED	OML11
KIFI	ALL GRACE ENERGY LIMITED	OML17

#### 4.1.2 Reserves

Table 6 : 2013 Oil and Condensates Reserves

Year	Oil (MMbbls)	Condensate (MMbbls)	(Oil + Condensate) (MMbbls)
2003	0	0	0
2004	0	0	0
2005	0	0	0
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

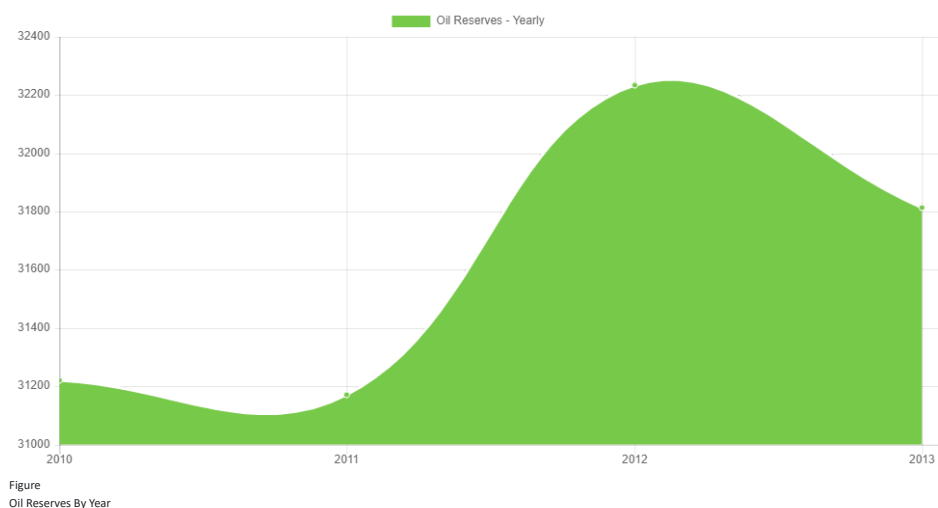


Table 7 : 2013 Nigeria Oil & Condensate Reserves Distribution on Contract Basis

Contract Type	Oil (MMbbls)	Condensate (MMbbls)	Total (MMbbls)
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 : 2013 Nigeria Oil & Condensate Reserves Distribution on Terrain Basis as at January 1,

Terrain	Oil (MMbbls)	Condensate (MMbbls)	Total (MMbbls)
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>

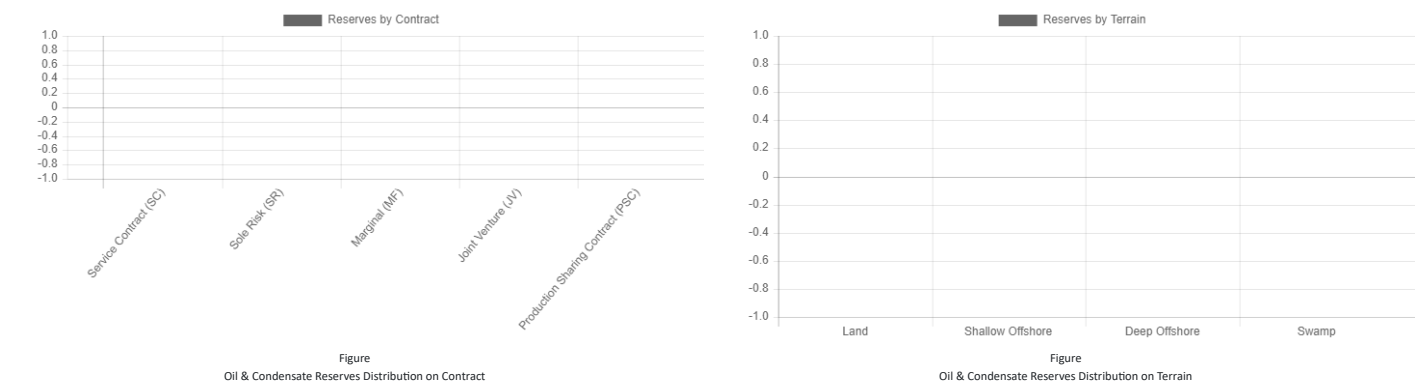


Table 9 : 2013 Oil Reserves Net Addition, Depletion Rate and Life Index on Contract Basis

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

Table 10 : 2013 Reserves Replacement Rate (RRR) on Contract Basis

Contract Type	Oil & Condensates Reserves as at 1/1 2014	Oil & Condensates Reserves as at 1/1 2013	2013 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	743,450.00	0.00	-743,450.00	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
<b>Total (National)</b>	<b>0.00</b>	<b>743,450.00</b>	<b>0.00</b>	<b>-2,973,800.00</b>	<b>0.00</b>

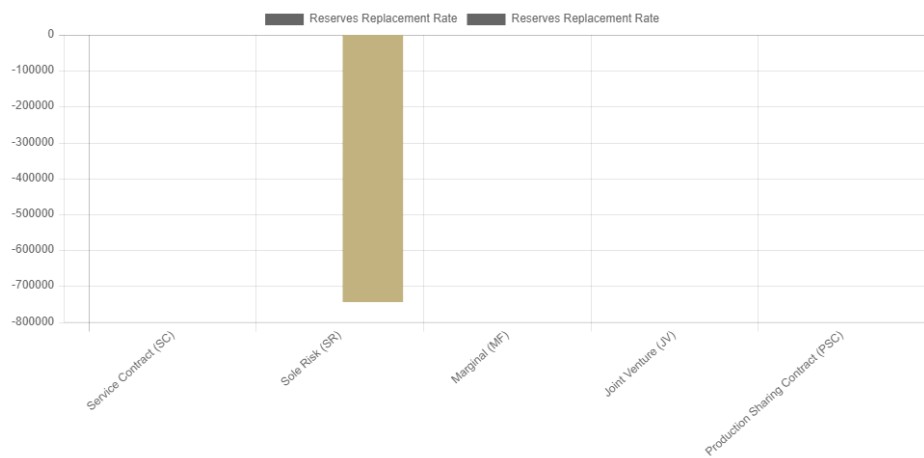


Figure  
2013 Reserves Replacement Rate (RRR)

Table 11 : 2013 Nigeria's Reserves Replacement Rate - RRR - Nine Year Trend

Year	Oil & Condensate Production, MMB	Reserves Replacement Rate, % Barrels
01/Jan/2003	0.00	0.00
01/Jan/2004	0.00	0.00
01/Jan/2005	0.00	0.00
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	0.00	0.00
01/Jan/2012	0.00	0.00
01/Jan/2013	0.00	0.00

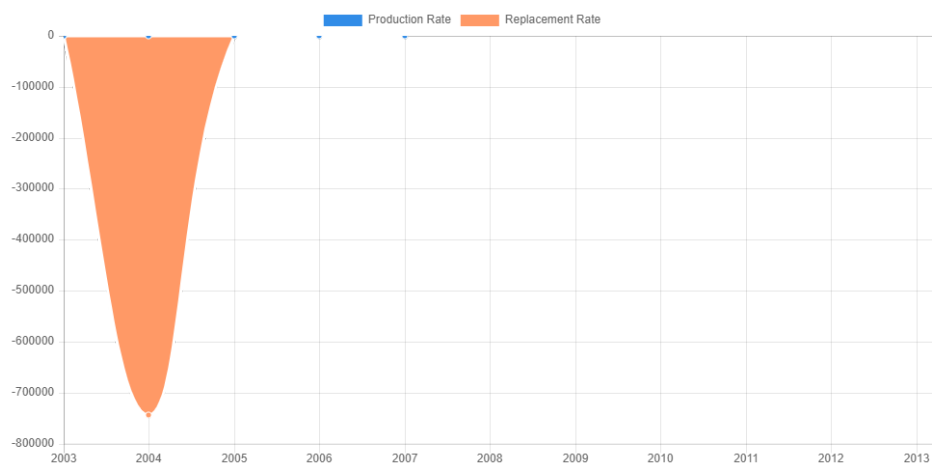


Figure  
Net Reserve Addition, Production & RRR Ten Year Trend

#### Natural Gas Reserves

Table 12 : 2013 Natural Gas Reserves

Associated Gas (TCF)	Non Associated Gas (TCF)	Total Gas (TCF)
89.652	92.298	181.950

Table 13 : 2013 Natural Gas Reserves

Year	Associated Gas (TCF), as at Dec 2013	Non Associated Gas (TCF), as at Dec 2013	Total Gas (TCF), as at Dec 2013
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

Total Gas Reserves as at 1-Jan-2013 vs 1-Jan-2014

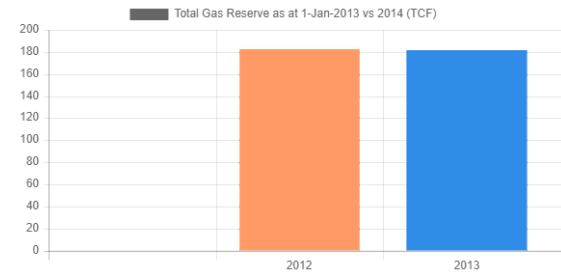


Figure  
Total Gas Reserves

Natural Gas Reserves

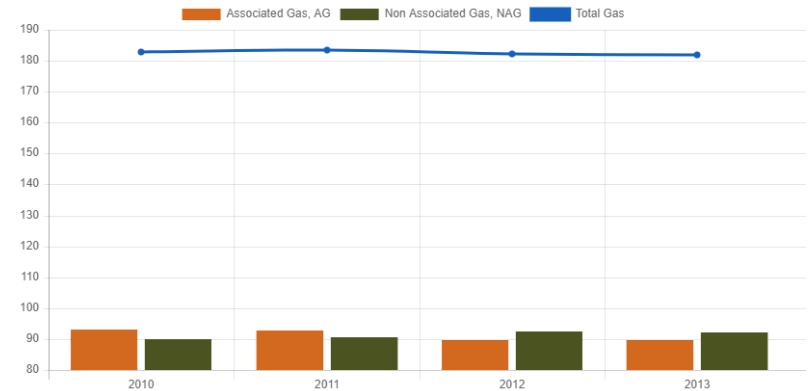


Figure  
Natural Gas Reserves Yearly Trend

#### 4.1.3 Field Exploration Activities

Table 14 : 2013 Seismic Data Acquisition

Year	Type	Land	Shallow Offshore	Deep Offshore	Total
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
2005	3-D, Sq.Km				0
2004	3-D, Sq.Km				0
2003	3-D, Sq.Km				0

#### 4.1.4 Field Development Activities

Table 15 : 2013 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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#### Drilling Summary

Table 16 : 2013 Number of Wells drilled by Terrain

Year	Land / Swamp	Shallow Offshore	Deep Offshore	Total
2004	0	0	0	0
2005	0	0	0	0
2006	0	0	0	0
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

Table 17 : 2013 Wells Drilled by Contract and Class in

Contract	Exploratory	Appraisal(1st & 2nd)	Ordinary Appraisal	Development	Total
SC	23	0	0	0	23
SR	0	0	0	35	35
MF	0	0	0	0	0
JV	0	0	19	0	19
PSC	0	0	0	0	0
Total	23	68	19	0	77

Table 18 : 2013 Number of Wells drilled by Class

Year	Exploratory	Appraisal(1st & 2nd)	Ordinary Appraisal	Development	Total
2004	0	0	0	0	0
2005	0	0	0	0	0
2006	0	0	0	0	0
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	35	145

Well Completion Summary

Table 19 : 2013 Wells Completed in

Type of Contract	Total	By Terrain
Service Contract (SC)	0	
Sole Risk (SR)	5	
Marginal (MF)	0	
Joint Venture (JV)	0	
Production Sharing Contract (PSC)	0	
Total	5	

Gas Field Development Activities

Table 20 : 2013 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 : 2013 Approved Associated Gas - AG Development Plans

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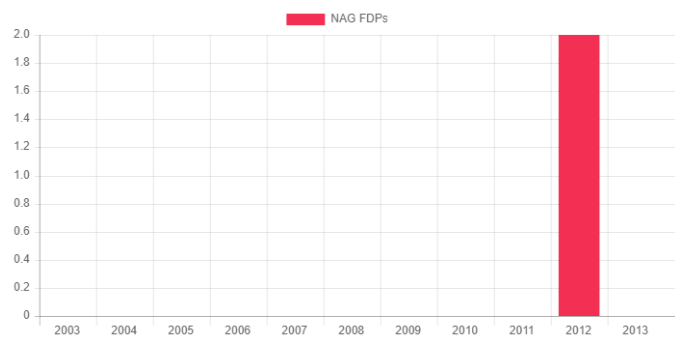


Figure  
Approved NAG Field Development Plans



Figure  
Approved AG Field Development Plans

Table 22 : 2013 New Drill Gas Appraisal/ Development Wells

#	Company	Block/Field	Wellname/Status	Terrain	Reserves, Bscf	Off-Take (MMScf/d)
1	SHELL NIG. E&P CO. (SNEPCO)	/FORCADOS-YOKRI	Land	Aje-North	39000.00	100
2	MOBIL PRODUCING NIGERIA UNLTD	OML70 /ABANG		Sonam-10 (J01A)	590.00	2
3	NEWCROSS E&P CO	OPL283 /AMOJI	Land	Sonam-10 (J01A)	190.00	8

Table 23 : 2013 Approved Gas Well Initial Completion

#	Company	Block/Field	Well/Status	Reserves, Bscf	Off-Take (MMScf/d)	Processing Facility
21	NIGERIA AGIP OIL COMPANY	N/A / CLOUGH-CREEK	Clough Well	430.00	1	Agbami FPSO
22	SHELL PETROLEUM DEVELOPMENT CO.	OML18 / BUGUMA-CREEK	Buguma Well	670.00	12	Benisede AGG

Table 24 : 2013 Approved Gas Wells Work-Over Operations

#	Company	Block	Well Name	Processing Facility
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#### 4.1.5 Rig Activities

Table 25 : 2013 Rig Disposition by Terrain from January to December

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 : 2013 Active Rigs by Terrain

Year	Land / Swamp	Shallow Offshore	Deep Offshore	Total
2003	0			0
2004	0			0
2005	0			0
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

## 1. Production Activities

### 4.1.6 Production Fields

Table 27 : 2013 Fields Summary

#	Company	Contract TYPe	Producing Field	Well Name	String Name
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Crude Oil & Condensate Production

Table 28 : 2013 Production Performance

Company	Fields	Contract	Terrain	Annual Prod (Bbls)	Daily Ave (Bopd)	% Prod
Total				1.00	1.00	0.0%

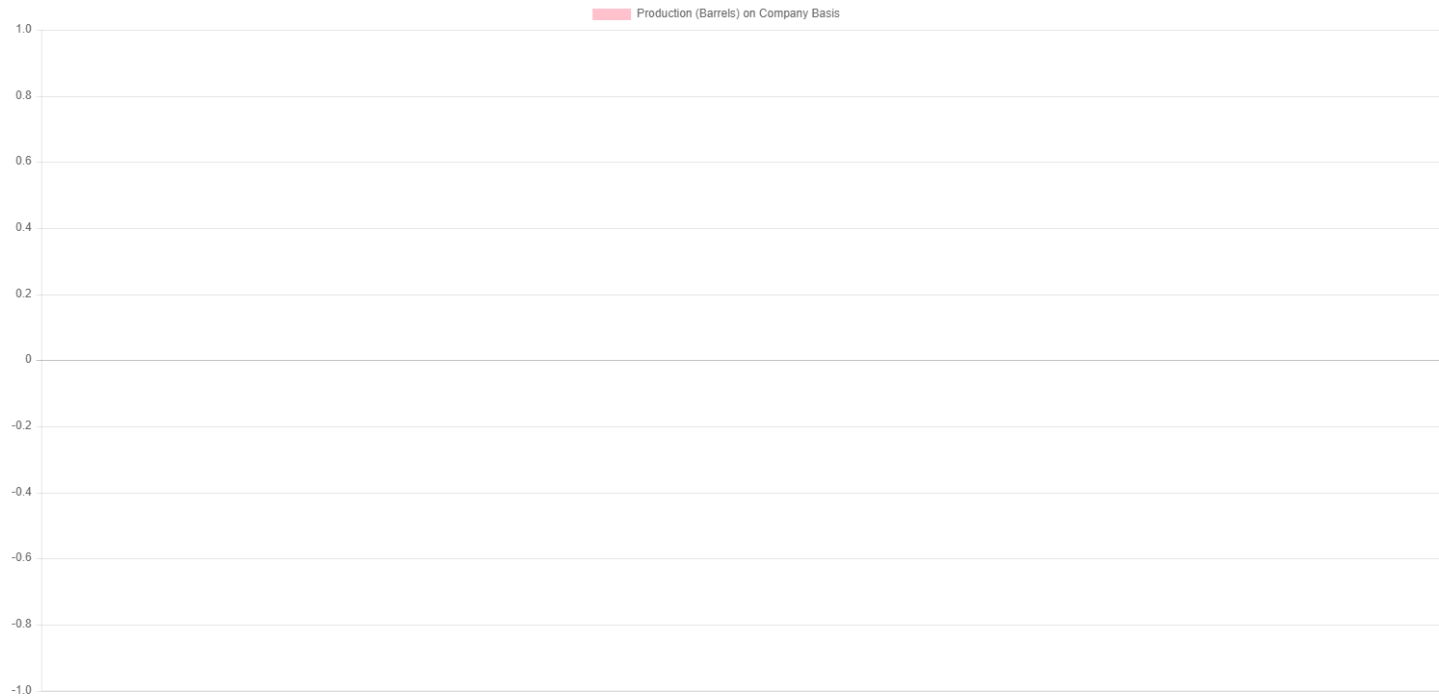


Figure  
Oil Production on Company Basis  
0000000000000

Table 29 : 2013 Monthly Production (Provisional)

Month	Production (Bbls)	Average Daily Production (Bopd)
January	0.00	0.00
Febuary	0.00	0.00
March	0.00	0.00
April	0.00	0.00
May	0.00	0.00
June	0.00	0.00
July	0.00	0.00
August	0.00	0.00
September	0.00	0.00
October	0.00	0.00
November	0.00	0.00
December	0.00	0.00
Total Annual Production (Bbls)	0.00	
Average Annual Daily Production (bopd)		0

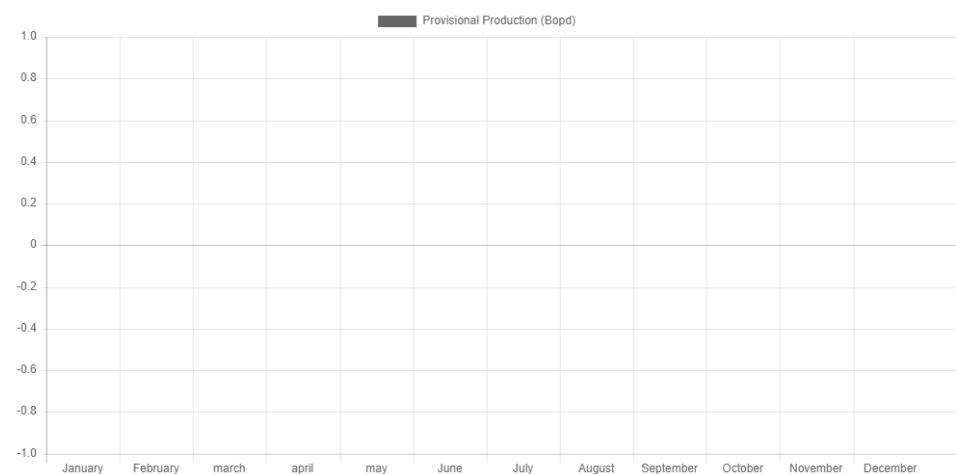


Figure  
Oil Production on Company Basis

Table 30 : 2013 Production by Contract

Figure  
Percentage Distribution of Production (Bopd)

#### Major Production Deferment

Table 31 : 2013 Summary of Production Deferments

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

#### 4.1.6.4 Stabilized Crude / Condensate Volumes by Stream

Table 32 : 2013 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	643,100.00	548,985.00	624,146.00	620,892.00	792,751.00	679,909.00	504,508.00	735,085.00	680,579.00	756,363.00	718,538.00	718,041.00	8,022,897.00
Ughelli Blend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41,668.00	41,668.00
Antan	1,666,608.00	1,474,112.00	1,705,526.00	1,648,152.00	1,598,541.00	1,589,246.00	1,803,676.00	1,795,033.00	1,604,534.00	1,662,702.00	1,629,439.00	1,622,601.00	19,800,170.00
Bonga	5,238,213.00	4,216,606.00	5,534,098.00	5,316,056.00	5,079,987.00	3,861,306.00	5,181,955.00	4,618,484.00	4,571,412.00	4,776,416.00	1,104,666.00	1,404,963.00	50,904,162.00
Bonny	10,104,048.00	7,286,044.00	5,859,294.00	5,674,880.00	4,439,558.00	2,491,876.00	2,606,732.00	5,268,261.00	3,262,677.00	4,517,256.00	5,174,098.00	7,982,351.00	64,667,075.00
Brass	3,210,495.00	2,541,251.00	2,112,998.00	2,305,112.00	2,835,073.00	2,703,379.00	2,689,786.00	2,856,836.00	2,559,966.00	2,633,906.00	2,477,858.00	2,412,586.00	31,339,246.00
Ebok	1,119,001.00	985,713.00	903,810.00	1,059,434.00	1,087,955.00	1,017,836.00	1,177,181.00	1,167,803.00	1,124,269.00	976,854.00	1,107,366.00	1,118,090.00	12,845,312.00
Ekanga Zaffiro	331,390.00	126,700.00	331,390.00	369,900.00	382,230.00	369,900.00	382,230.00	356,624.00	369,900.00	369,613.00	345,120.00	369,613.00	4,104,610.00
Erha	3,664,779.00	3,126,610.00	3,566,024.00	3,262,972.00	2,871,351.00	2,896,312.00	3,038,071.00	3,240,793.00	3,231,053.00	2,665,553.00	2,841,947.00	3,252,131.00	37,657,596.00
Escravos	6,882,030.00	6,268,032.00	6,718,876.00	6,420,898.00	6,423,787.00	6,025,649.00	6,334,335.00	6,339,765.00	5,979,897.00	5,946,178.00	5,681,049.00	6,152,230.00	75,172,726.00
Forcados	6,284,100.00	5,494,447.00	5,900,351.00	5,629,628.00	5,545,976.00	5,468,781.00	6,384,499.00	6,489,649.00	5,655,549.00	6,193,363.00	5,967,387.00	5,987,061.00	71,000,791.00
Odudu	2,780,045.00	2,234,188.00	2,586,333.00	2,386,223.00	2,343,468.00	2,345,054.00	2,591,742.00	2,627,139.00	2,540,181.00	2,655,865.00	2,202,647.00	2,185,339.00	29,478,224.00
Okono	1,578,434.00	1,147,797.00	1,163,570.00	1,068,228.00	1,068,228.00	1,062,880.00	1,054,775.00	1,132,953.00	1,452,461.00	1,435,940.00	1,322,977.00	1,415,954.00	14,904,197.00
Okoro	631,515.00	544,306.00	548,321.00	475,201.00	467,098.00	558,087.00	602,115.00	601,835.00	557,010.00	586,965.00	491,804.00	536,797.00	6,601,054.00
Okwori	960,274.00	800,982.00	890,117.00	781,801.00	844,515.00	771,844.00	788,013.00	757,822.00	705,120.00	613,128.00	738,205.00	880,931.00	9,532,752.00

Stream/Blend	January	February	March	April	May	June	July	August	September	October	November	December	Total
Crude Oil													
Oyo	70,785.00	66,780.00	73,851.00	72,299.00	71,827.00	67,716.00	69,609.00	69,872.00	65,497.00	61,655.00	58,146.00	64,430.00	812,467.00
Pennington	714,399.00	652,922.00	713,794.00	645,660.00	496,586.00	605,723.00	626,043.00	553,465.00	576,603.00	586,912.00	597,887.00	587,441.00	7,357,435.00
Qua Iboe	11,193,230.00	7,095,384.00	9,814,689.00	11,036,545.00	10,075,140.00	11,678,261.00	12,550,479.00	12,367,991.00	12,064,881.00	12,583,661.00	10,605,828.00	9,608,849.00	130,674,938.00
Sea Eagle	1,521,433.00	1,324,665.00	1,459,821.00	1,182,754.00	1,330,084.00	1,301,606.00	1,264,583.00	1,335,592.00	1,252,483.00	1,264,511.00	1,130,134.00	1,259,243.00	15,626,909.00
Usan	145,131.00	136,321.00	227,436.00	148,129.00	145,948.00	280,652.00	295,895.00	303,977.00	299,104.00	394,314.00	299,375.00	309,279.00	2,985,561.00
Ukpokiti	132,513.00	113,308.00	71,476.00	60,594.00	57,670.00	54,179.00	43,493.00	26,021.00	38,562.00	51,623.00	49,404.00	57,416.00	756,259.00
QIT	3,056,692.00	3,246,900.00	3,622,350.00	3,359,144.00	2,461,305.00	1,070,267.00	3,581,387.00	3,804,175.00	3,796,695.00	3,899,549.00	3,630,537.00	3,662,543.00	39,191,544.00
Yoho	2,141,572.00	1,924,654.00	2,115,011.00	1,747,441.00	2,090,166.00	2,110,868.00	2,105,143.00	2,191,285.00	2,254,204.00	2,287,586.00	2,087,850.00	2,085,466.00	25,141,246.00
Sub-Total	64,069,787.00	51,356,707.00	56,543,282.00	55,271,943.00	52,509,244.00	49,011,331.00	55,676,250.00	58,640,460.00	54,642,637.00	56,919,913.00	50,262,262.00	53,715,023.00	658,618,839.00
Daily-Average	2,066,767.32	1,834,168.11	1,823,976.84	1,842,398.10	1,693,846.58	1,633,711.03	1,796,008.06	1,891,627.74	1,821,421.23	1,836,126.23	1,675,408.73	1,732,742.68	1,804,435.18
Condensates													
Field Condensates													
Agbami	6,945,471.00	6,190,961.00	6,932,903.00	6,633,261.00	6,737,510.00	7,043,697.00	7,664,786.00	7,484,515.00	7,177,047.00	7,367,219.00	7,063,977.00	7,629,781.00	84,871,128.00
Akpo	4,715,045.00	4,934,184.00	5,541,759.00	5,374,598.00	5,334,125.00	4,847,147.00	5,098,083.00	5,279,723.00	5,018,147.00	5,141,384.00	4,831,008.00	4,987,002.00	61,102,205.00
Escravos	505,544.00	457,428.00	518,660.00	464,449.00	500,113.00	424,495.00	284,137.00	283,595.00	342,920.00	382,702.00	353,748.00	378,560.00	4,896,351.00
Ima	16,973.00	15,491.00	17,722.00	15,636.00	18,245.00	16,856.00	21,938.00	25,274.00	28,009.00	24,670.00	28,591.00	30,024.00	259,429.00
Sub-Total	12,183,033.00	11,598,064.00	13,011,044.00	12,487,944.00	12,589,993.00	12,332,195.00	13,068,944.00	13,073,107.00	12,566,123.00	12,915,975.00	12,277,324.00	13,025,367.00	151,129,113.00
Daily-Average	393,001.06	414,216.57	419,711.10	416,264.80	406,128.81	411,073.17	421,578.84	421,713.13	418,870.77	416,644.35	409,244.13	420,173.13	414,052.36
Plant Condensates													
BRT	237,606.00	162,135.00	260,189.00	313,463.00	272,298.00	321,473.00	260,647.00	334,419.00	291,123.00	282,861.00	253,968.00	220,696.00	3,210,878.00
Bonny NLNG	1,205,397.00	505,571.00	571,090.00	832,267.00	713,797.00	665,727.00	497,066.00	1,061,791.00	870,547.00	853,601.00	780,521.00	1,139,303.00	9,696,678.00
Sub-Total	1,443,003.00	667,706.00	831,279.00	1,145,730.00	986,095.00	987,200.00	757,713.00	1,396,210.00	1,161,670.00	1,136,462.00	1,034,489.00	1,359,999.00	12,907,556.00
Daily-Average	46,548.48	23,846.64	26,815.45	38,191.00	31,809.52	32,906.67	24,442.35	45,039.03	38,722.33	36,660.06	34,482.97	43,870.94	35,363.17
Sub-Total Condensates													
Sub-Total Condensates	13,626,036.00	12,265,770.00	13,842,323.00	13,633,674.00	13,576,088.00	13,319,395.00	13,826,657.00	14,469,317.00	13,727,793.00	14,052,437.00	13,311,813.00	14,385,366.00	164,036,669.00
Daily-Average Condensate	439,549.55	438,063.21	446,526.55	454,455.80	437,938.32	443,979.83	446,021.19	466,752.16	457,593.10	453,304.42	443,727.10	464,044.06	449,415.53
Crude + Condensates													
Grand Total	77,695,823.00	63,622,477.00	82,565,370.00	68,905,617.00	66,085,332.00	62,330,726.00	69,502,907.00	73,109,777.00	68,370,430.00	70,972,350.00	63,574,075.00	68,100,389.00	822,655,508.00
Daily-Average	2,506,316.87	2,272,231.32	2,270,503.39	2,296,853.90	2,131,784.90	2,077,690.87	2,242,029.26	2,358,379.90	2,279,014.33	2,289,430.65	2,119,135.83	2,196,786.74	2,248,920.56

Table 33 : 2013 Summary of Stabilized Crude / Condensates Volumes by Streams in Barrels

Stream/Blend	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Crude Oil										
Abo	0.00	0.00	0.00	0.00	0.00	0.00	11,145,508.00	10,384,452.00	8,489,519.00	8,022,897.00
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	19,108,971.00	14,549,317.00	18,664,426.00	19,800,170.00
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	65,026,519.00	52,296,510.00	64,067,957.00	50,904,162.00
Bonny	0.00	0.00	0.00	0.00	0.00	0.00	91,633,924.00	98,768,246.00	85,516,915.00	64,667,075.00
Bonny NLNG	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	47,045,801.00	45,985,280.00	38,431,091.00	31,339,246.00
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	3,055,560.00	11,116,943.00	12,845,312.00
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	0.00	0.00	0.00	4,500,450.00	4,500,450.00	4,512,780.00	4,104,610.00
Erha	0.00	0.00	0.00	0.00	0.00	0.00	60,729,787.00	53,063,950.00	45,680,658.00	37,657,596.00
Escravos	0.00	0.00	0.00	0.00	0.00	0.00	95,476,023.00	90,252,503.00	82,992,947.00	75,172,726.00
Forcados	0.00	0.00	0.00	0.00	0.00	0.00	69,232,152.00	82,774,072.00	72,439,141.00	71,000,791.00
Ima	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	40,847,405.00	39,554,024.00	36,765,688.00	29,478,224.00
Okono	0.00	0.00	0.00	0.00	0.00	0.00	17,544,856.00	17,263,430.00	16,348,665.00	14,904,197.00
Okoro	0.00	0.00	0.00	0.00	0.00	0.00	5,885,411.00	5,767,803.00	6,170,120.00	6,601,054.00
Okwori	0.00	0.00	0.00	0.00	0.00	0.00	14,387,558.00	12,819,504.00	12,094,784.00	9,532,752.00

Stream/Blend	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Crude Oil										
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	0.00
Oyo	0.00	0.00	0.00	0.00	0.00	0.00	3,216,242.00	1,349,224.00	1,009,842.00	812,467.00
Pennington	0.00	0.00	0.00	0.00	0.00	0.00	11,129,213.00	10,558,221.00	9,102,862.00	7,357,435.00
QIT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29,409,511.00	39,191,544.00
Qua Iboe	0.00	0.00	0.00	0.00	0.00	0.00	126,157,671.00	128,253,257.00	128,852,443.00	130,674,938.00
Sea Eagle	0.00	0.00	0.00	0.00	0.00	0.00	29,746,886.00	23,080,837.00	21,075,517.00	15,626,909.00
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	0.00	0.00	0.00	41,668.00
Ukpokiti	0.00	0.00	0.00	0.00	0.00	0.00	492,411.00	386,832.00	927,491.00	756,259.00
Usan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,326,212.00	1,622,834.00	2,985,561.00
Yoho	0.00	0.00	0.00	0.00	0.00	0.00	33,368,770.00	30,371,559.00	27,685,727.00	25,141,246.00
Sub Total	0.00	0.00	0.00	0.00	0.00	0.00	746,675,558.00	726,361,243.00	722,977,861.00	658,618,839.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	2,045,686.46	1,990,030.80	1,980,761.26	1,804,435.18
Condensate										
Field Condensate										
Agbami	0.00	0.00	0.00	0.00	0.00	0.00	87,169,459.00	88,304,428.00	85,041,559.00	84,871,128.00
Akpo	0.00	0.00	0.00	0.00	0.00	0.00	60,210,985.00	56,482,856.00	56,651,708.00	61,102,205.00
Escravos	0.00	0.00	0.00	0.00	0.00	0.00	1,892,148.00	4,041,513.00	5,088,278.00	4,896,351.00
Ima	0.00	0.00	0.00	0.00	0.00	0.00	537,469.00	531,515.00	246,582.00	259,429.00
Oso Condensate	0.00	0.00	0.00	0.00	0.00	0.00	5,200,300.00	4,748,331.00	0.00	0.00
Sub Total	0.00	0.00	0.00	0.00	0.00	0.00	155,010,361.00	154,108,643.00	147,028,127.00	151,129,113.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	424,685.92	422,215.46	402,816.79	414,052.36
Plant Condensate										
Bonny NLNG	0.00	0.00	0.00	0.00	0.00	0.00	10,095,699.00	13,194,065.00	13,042,415.00	9,696,678.00
BRT	0.00	0.00	0.00	0.00	0.00	0.00	3,669,899.00	2,909,182.00	2,735,997.00	3,210,878.00
Sub Total	0.00	0.00	0.00	0.00	0.00	0.00	13,765,598.00	16,103,247.00	15,778,412.00	12,907,556.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	37,713.97	44,118.48	43,228.53	35,363.17
Sub Total - Condensate	0.00	0.00	0.00	0.00	0.00	0.00	168,775,959.00	170,211,890.00	162,806,539.00	164,036,669.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	462,399.89	466,333.95	446,045.31	449,415.53
Crude + Condensate										
Grand Total - Condensate	0.00	0.00	0.00	0.00	0.00	0.00	915,451,517.00	896,573,133.00	885,784,400.00	822,655,508.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	2,508,086.35	2,456,364.75	2,426,806.58	2,253,850.71

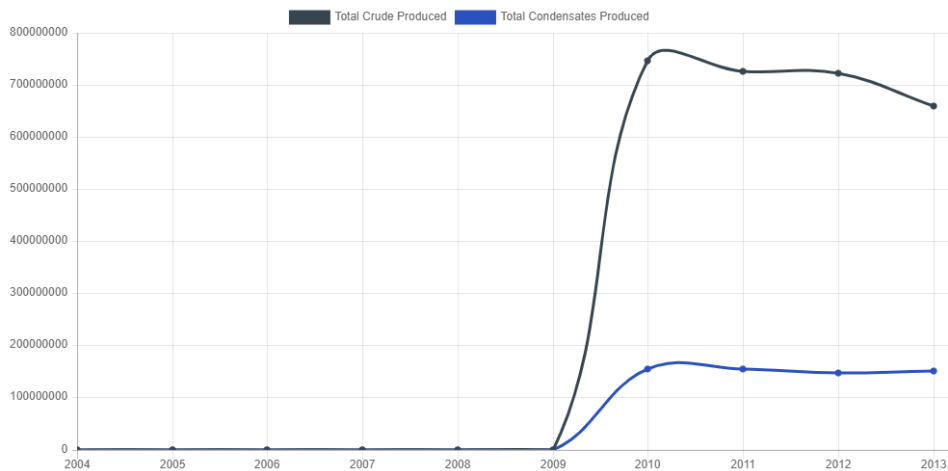


Figure  
Stabilized Crude/Condensates Volumes

#### Major Upstream Projects

Table 34 : 2013 Status Of Major Active Field Development / Crude Oil Handling Facilities Projects

#	Project	Company	Location	Addition (Mtbopd)	Development	Completion Year	Status
1	Bonga Southwest (BSW) Aparo						
2	Agbami Infill Drilling (AIDP)						Detailed Engineering

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

## 1. Gas Production, Utilization and Flare Monitoring

### Gas Production

**Table 35 : 2013 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	1,786,512,899.00	1,025,377,681.00	2,811,890,580.00
Total	1,786,512,899.00	1,025,377,681.00	2,811,890,580.00

**Table 36 : 2013 Gas Production,**

Year	AG	NAG	Total
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	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

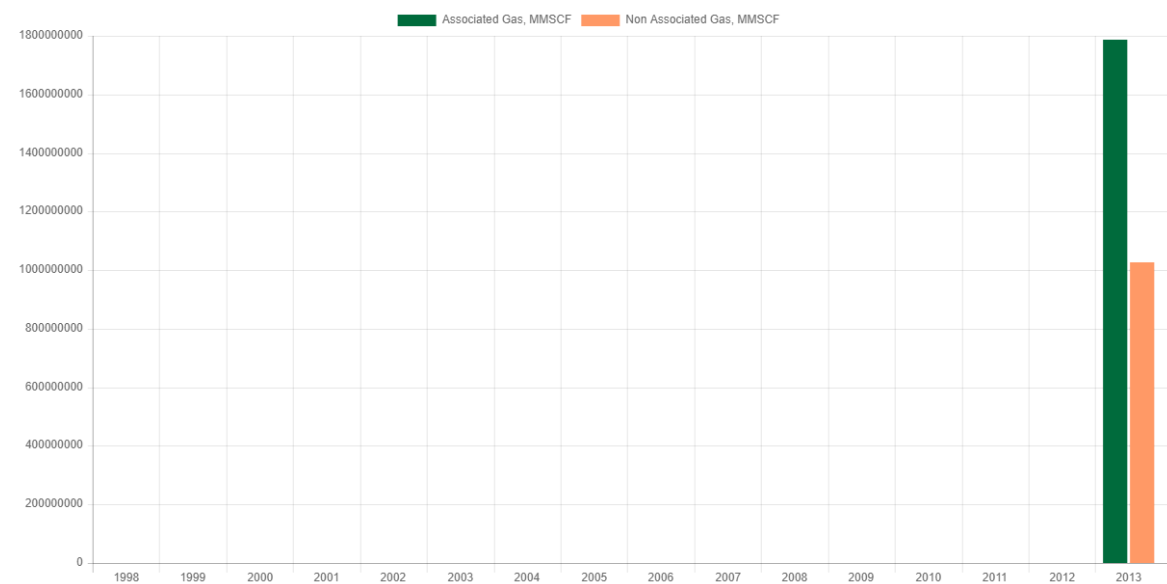


Figure  
AG and NAG Production, 1997 - 2013

#### Gas Utilization

**Table 37 : 2013 Gas Utilization Profile for the year**

Gas Utilization	Volume (MMscf)	Utilization Factor (%)
Fuel Gas	151588583.1	6.71
Gas Lift make-up	53216309.6	2.35
Gas Re-injection	756379361.0	33.47
NGL/LPG Feed Gas	57974830.2	2.57
Local Supply (Power)	54395541.5	2.41
Local Supply (Others)	221775491.2	9.81
Gas Export	964809782.5	42.69
Total Gas Utilised	1433160085.5286	63.42

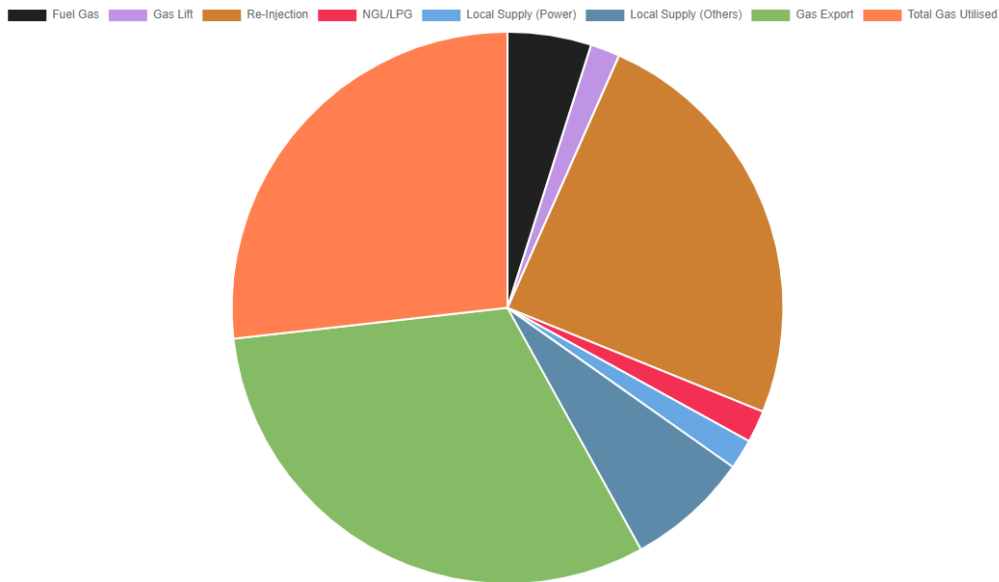


Figure  
Gas Utilization Breakdown, 2013

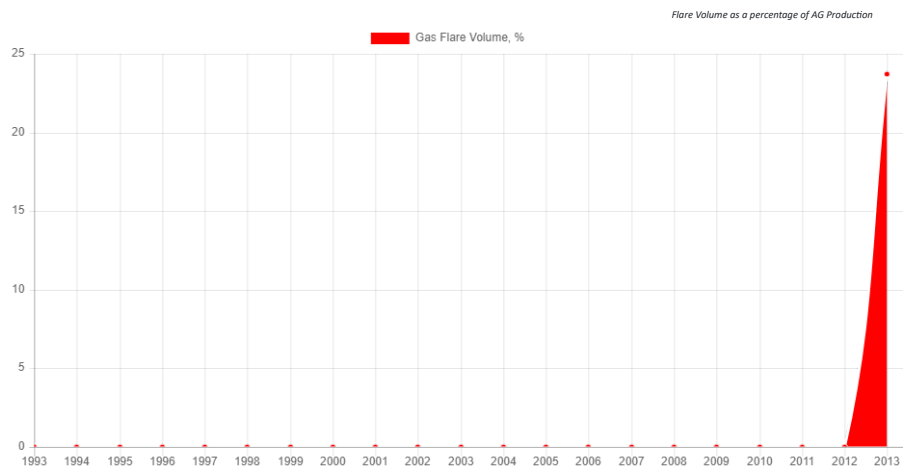
#### Gas Flare Report

Table 38 : 2013 Gas Production and Utilization Summary

Month	Total Gas Produced	Total Gas Utilised	Total Gas Flared	% Flared
January	0.00	207,137,649.12	-207,137,649.12	0.00
February	0.00	148,852,340.29	-148,852,340.29	0.00
march	0.00	183,100,135.54	-183,100,135.54	0.00
april	0.00	186,462,906.71	-186,462,906.71	0.00
may	0.00	172,230,192.31	-172,230,192.31	0.00
June	0.00	171,030,421.98	-171,030,421.98	0.00
July	0.00	159,802,455.38	-159,802,455.38	0.00
August	0.00	218,950,363.87	-218,950,363.87	0.00
September	0.00	200,601,966.19	-200,601,966.19	0.00
October	0.00	209,333,609.09	-209,333,609.09	0.00
November	0.00	189,356,505.36	-189,356,505.36	0.00
December	2,811,890,580.00	213,263,893.01	2,598,626,686.99	92.42
TOTAL	2,811,890,580.00	2,260,122,438.85	551,768,141.15	7.70

Table 39 : 2013 Flare Volume as a percentage of AG Production

Year	AG Produced Mscf	Total Gas Flared Mscf	% Flared
1993	0.00	0.00	0.00
1994	0.00	0.00	0.00
1995	0.00	0.00	0.00
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	0.00





Year	AG Produced Mscf	Total Gas Flared Mscf	% Flared
2010	0.00	539,424,578.46	0.00
2011	0.00	503,944,276.83	0.00
2012	0.00	480,444,658.82	0.00
2013	1,786,512,899.00	423,150,945.41	23.69

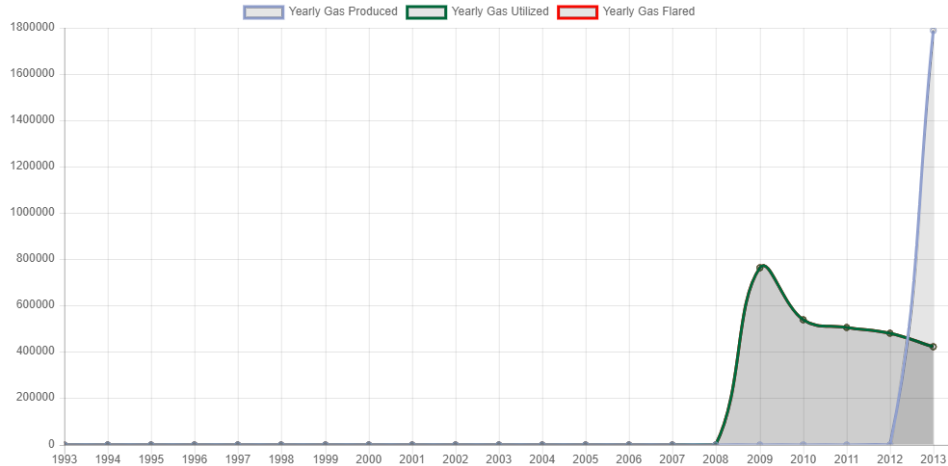


Figure  
Historical Gas Profile (Billion Standard Cubic Feet, BSCF)

Table 40 : 2013 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	0.00	0.00	0.00	12,570,164.40	3,622,374.90	62,580,979.20	5,811,524.60	4,842,613.00	20,493,071.30	97,216,921.70	207,137,649.12	0.00	41,167,245.63	100.00
Febuary	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	100.00
march	0.00	0.00	0.00	12,086,020.00	2,614,082.80	65,472,451.70	4,319,043.70	5,351,927.20	18,864,636.80	74,391,973.30	183,100,135.54	0.00	34,265,817.71	100.00
april	0.00	0.00	0.00	12,066,277.10	3,031,898.50	60,818,969.10	4,812,032.40	4,593,987.60	17,939,710.00	83,200,032.10	186,462,906.71	0.00	34,477,363.36	100.00
may	0.00	0.00	0.00	11,683,860.90	3,135,622.40	55,796,132.40	4,537,985.80	3,829,804.80	20,191,720.30	73,055,065.60	172,230,192.31	0.00	36,064,297.88	100.00
june	0.00	0.00	0.00	12,026,147.60	3,072,113.70	61,792,147.90	5,406,575.40	4,013,074.70	18,531,703.20	66,188,659.70	171,030,421.98	0.00	33,823,202.66	100.00
July	0.00	0.00	0.00	12,759,783.00	3,379,961.10	68,302,695.00	5,944,369.10	3,014,026.10	17,278,443.40	49,123,177.70	159,802,455.38	0.00	38,701,028.09	100.00
August	0.00	0.00	0.00	13,883,552.20	6,662,348.90	70,961,584.00	5,100,038.10	4,534,569.70	17,224,370.10	100,583,900.70	218,950,363.87	0.00	33,649,361.23	100.00
September	0.00	0.00	0.00	13,579,507.90	6,256,286.70	68,848,967.30	4,643,988.50	4,275,032.80	16,415,173.00	86,583,010.00	200,601,966.19	0.00	32,089,675.39	100.00
October	0.00	0.00	0.00	14,048,636.20	6,279,093.60	69,779,497.30	5,100,903.70	5,326,428.50	19,031,856.20	89,767,193.80	209,333,609.09	0.00	32,135,100.54	100.00
November	0.00	0.00	0.00	13,385,428.90	5,684,393.50	61,796,234.90	4,241,188.70	4,565,797.80	17,009,430.00	82,674,031.70	189,356,505.36	0.00	32,953,193.03	100.00
December	1,786,512,899.00	1,025,377,681.00	2,811,890,580.00	12,901,219.10	6,218,102.70	61,985,049.90	3,958,442.50	5,511,597.40	19,002,443.00	103,704,498.30	213,263,893.01	7.58	38,057,773.35	92.42
Total	1,786,512,899.00	1,025,377,681.00	2,811,890,580.00	140,990,597.30	49,956,278.80	708,134,708.70	53,876,092.50	49,858,859.60	201,982,557.30	906,488,464.60	2,111,270,098.56	0.00	387,384,058.87	0.00

Table 41 : 2013 Summary of Gas Production and Utilization

[illegible]

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
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
2009	0.00	0.00	0.00	86,749,248.60	49,442,406.60	542,408,371.10	33,193,526.50	190,095,307.50	462,402,257.60	1,450,574,930.22	0.00	763,248,638.96	100.00
2010	0.00	0.00	0.00	133,499,872.10	65,128,414.90	751,705,007.70	46,591,153.40	285,802,520.90	992,293,988.80	2,275,020,957.69	0.00	539,424,578.46	100.00
2011	0.00	0.00	0.00	139,425,042.10	91,970,753.60	703,579,859.90	53,201,835.50	344,481,029.00	1,114,860,568.70	2,447,519,088.59	0.00	503,944,276.83	100.00
2012	0.00	0.00	0.00	145,901,304.30	88,626,060.10	720,930,791.30	52,658,762.90	372,044,969.30	1,131,321,835.00	2,500,068,902.68	0.00	480,444,658.82	100.00
2013	1,786,512,899.00	1,025,377,681.00	2,811,890,580.00	151,588,583.10	53,216,309.60	756,379,361.00	57,974,830.20	276,171,032.70	964,809,782.50	2,260,122,438.85	80.38	423,150,945.41	19.62

Table 42 : 2013 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 PETROLEUM DEVELOPMENT CO	105,949,388.00	616,951,530.00	722,900,918.00	13,270,532.10	9,359,543.00	1,510,475.40	0.00	32,091,047.50	29,329,469.40	468,240,405.20	553,801,472.34	77	45,620,840.50	23
SHELL NIG. E&P CO. (SNEPCO)	47,962,470.00	0.00	47,962,470.00	3,962,163.00	0.00	0.00	0.00	0.00	0.00	40,529,565.00	44,491,728.00	93	3,537,887.00	7
CHEVRON NIGERIA LTD.	154,779,982.00	89,178,334.00	243,958,316.00	19,623,566.20	13,797,673.70	0.00	8,423,533.70	0.00	129,862,441.20	0.00	171,707,214.96	70	72,251,100.41	30
STAR DEEPWATER	156,835,576.00	0.00	156,835,576.00	8,070,196.10	0.00	139,431,869.90	0.00	0.00	0.00	0.00	147,502,066.07	94	9,333,509.82	6
MOBIL PRODUCING NIGERIA UNLTD	442,279,916.00	0.00	442,279,916.00	33,077,861.30	12,685,400.20	323,010,528.20	30,367,629.50	0.00	0.00	0.00	399,141,418.97	90	43,676,187.76	10
ESSO EXPLORATION	121,912,474.00	0.00	121,912,474.00	9,980,093.70	0.00	118,632,592.00	0.00	0.00	0.00	0.00	128,612,685.69	105	33,396,077.97	-5
NIGERIA AGIP OIL COMPANY	178,800,966.00	196,062,440.00	374,863,406.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	100
TOTAL E&P	139,561,134.00	93,746,442.00	233,307,576.00	8,031,263.50	0.00	86,719,274.50	0.00	0.00	0.00	114,036,571.30	208,787,109.25	89	24,520,466.61	11
TOTAL UPSTREAM (TUPNI)	232,301,290.00	0.00	232,301,290.00	6,737,000.00	0.00	62,303,000.00	0.00	0.00	0.00	119,025,000.00	188,065,000.00	81	4,140,000.00	19
AGIP ENERGY & NATURAL RESOURCE	5,993,086.00	2,605,067.00	8,598,153.00	85,520.00	0.00	0.00	0.00	0.00	0.00	0.00	85,520.00	1	8,512,633.32	99
NIGERIAN AGIP ENERGY (NAE)	13,065,470.00	0.00	13,065,470.00	1,083,030.00	0.00	3,116,260.00	0.00	0.00	0.00	0.00	4,199,290.00	32	8,866,180.00	68
ADDAX EXPLORATION	64,452,318.00	0.00	64,452,318.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	100
PANOCEAN OIL CORPORATION NIG	7,051,020.00	0.00	7,051,020.00	449,740.00	0.00	0.00	0.00	0.00	6,445,007.00	0.00	6,877,287.00	98	173,733.36	2
NPDC/ ND WESTERN LTD.	56,500,814.00	0.00	56,500,814.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	100
AMNI INTERNATIONAL DEVELOPMENT	7,343,740.00	0.00	7,343,740.00	204,070.00	12,290.00	1,022,030.00	0.00	0.00	0.00	0.00	1,238,390.00	17	6,105,350.00	83
ATLAS PETROLEUM INTERNATIONAL	2,590,739.00	0.00	2,590,739.00	85,371.00	0.00	0.00	0.00	0.00	0.00	0.00	85,371.00	3	2,505,368.00	97
MONI PULO LTD	438,450.00	0.00	438,450.00	8,098.00	0.00	0.00	0.00	0.00	0.00	0.00	8,098.00	2	430,352.00	98
NIGER DELTA WESTERN LIMITED	309,590.00	4,140,254.00	4,449,844.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	100
CONTINENTAL OIL AND GAS LTD.	2,341,459.00	0.00	2,341,459.00	102,286.00	0.00	0.00	0.00	0.00	0.00	0.00	102,286.00	4	2,239,173.00	96
CONSOLIDATED OIL COMPANY LIMIT	214,972.00	0.00	214,972.00	53,090.00	0.00	0.00	0.00	0.00	0.00	0.00	53,090.00	25	161,882.00	75
EXPRESS PET AND GAS CO LTD	617,894.00	0.00	617,894.00	304,340.00	0.00	0.00	0.00	0.00	0.00	0.00	304,340.00	49	313,554.00	51
DUBRI OIL COMPANY	2,194,178.00	0.00	2,194,178.00	24,563.00	0.00	0.00	0.00	0.00	0.00	0.00	24,563.00	1	2,169,615.00	99
PLATFORM PETROLEUM	7,231,877.00	0.00	7,231,877.00	244,983.00	0.00	0.00	0.00	0.00	0.00	0.00	244,983.00	3	6,986,894.00	97

#### 4.2.1 Nigerian Crude / Condensate Export

Stream	January	February	March	April	May	June	July	August	September	October	November	December	Total
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Stream/Blend	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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 : 2013 Crude Export Destination Summary

Stream	Africa	Asia and Pacific	Europe	Latin America	Middle East	Non-specified/Other	North America
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Stream	Africa	Asia and Pacific	Europe	Latin America	Middle East	Non-specified/Other	North 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 : 2013 Crude Export Destination History in Percent

Region	2009	2010	2011	2012	2013
Africa	0.0	0.0	0.0	0.0	0.0
Asia and Pacific	0.0	0.0	0.0	0.0	0.0
Europe	0.0	0.0	0.0	0.0	0.0
Latin America	0.0	0.0	0.0	0.0	0.0
Middle East	0.0	0.0	0.0	0.0	0.0
Non-specified/Other	0.0	0.0	0.0	0.0	0.0
North America	0.0	0.0	0.0	0.0	0.0

Table 47 : 2013 Average Price of Nigeria's Crude Streams as Quoted by Platts in USD

Year	Abo	Agbami	Bonny	Escravos	Brass	Forcados	Qua Iboe	Akpo	Bonga
2003	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	
2005	0	0	0	0	0	0	0	0	
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	

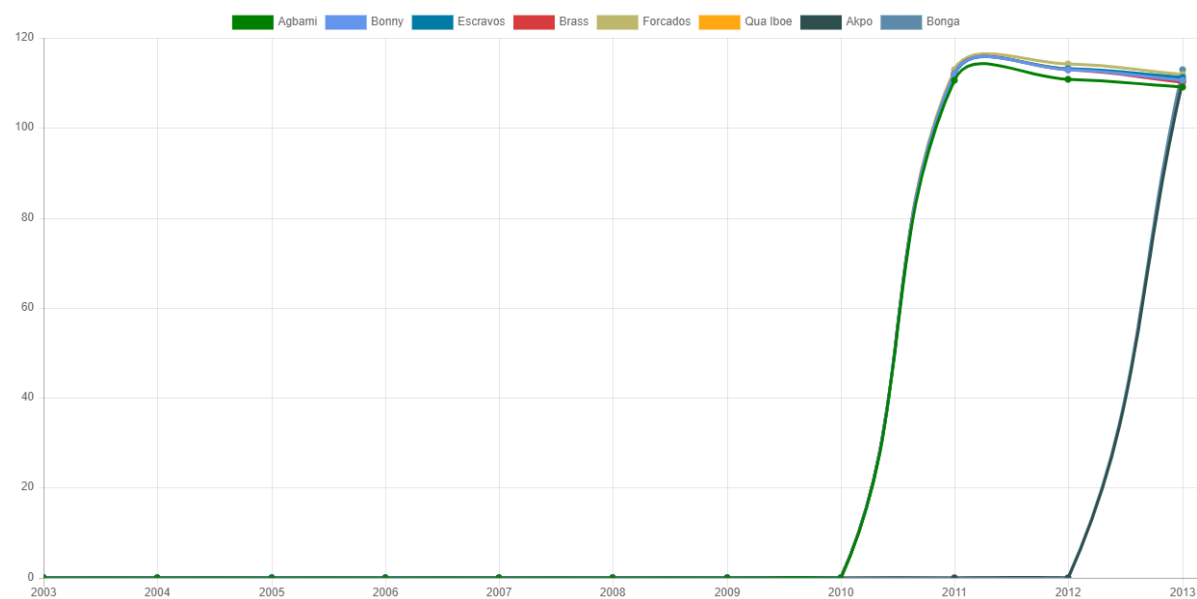


Figure  
Average Price of Nigeria's Crude Quoted by Platts in USD

#### 4.2.2 Refinery Activities

Table 48 : 2013 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
2013	0.00	0.00	0.00	0.00	0.00	0.00
Utilization Rate(%)						
Q1						
Q2						
Q3						
Q4						
2013						

Table 49 : 2013 Refinery Performance - Capacity Utilisation, BPSD

KRPC	PHRC (New)	PHRC (Old)	WRPC	NDPR	Total
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Table 50 : 2013 Refinery Performance Capacity Utilisation, Percentage

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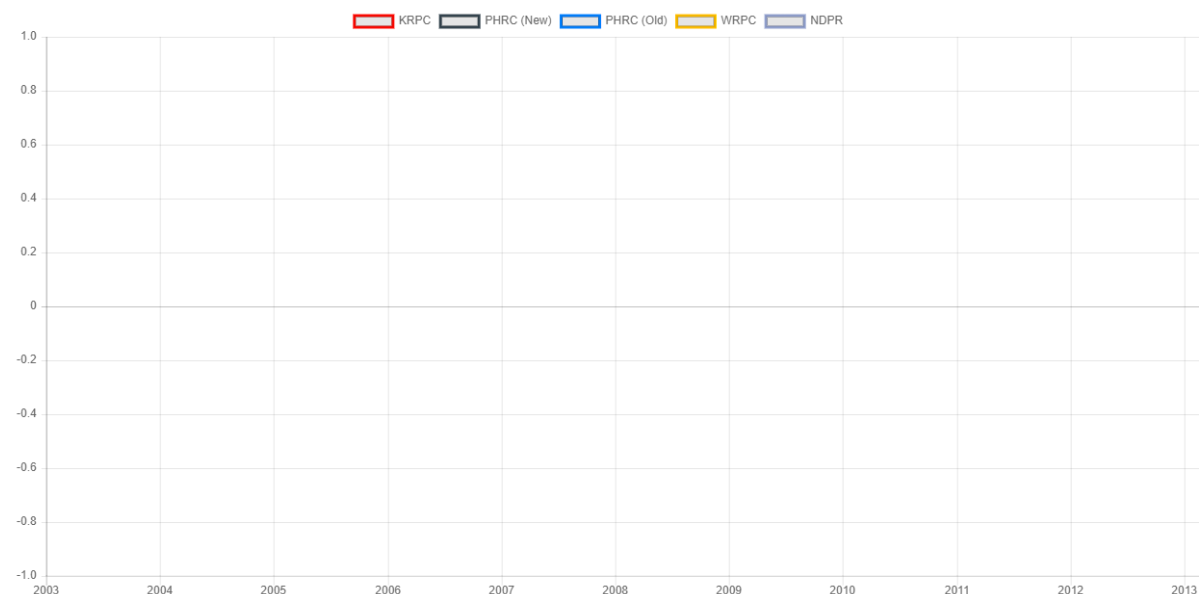


Figure  
Local Refinery Capacity

#### Status of Licensed Refinery Projects

Table 51 : 2013 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		

#### 2. Domestic Gas Supply

##### 4.2.3 National Gas Requirement

Table 52 : 2013 Domestic Gas Supply Obligation for E&P Companies, MMSCF/day

Company / Gas Producers	2014	2015	2016	2017	2018	2019
Total Gas	0	0	0	0	0	4079.11
DSO						

#### DGSO Performance Report

Table 53 : 2013 DGSO Allocation vs Supply Performance

Company	Supply Oblig (MMscf/d)	Ave Supply (MMscf/d)	% Performance
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Table 54 : 2013 Summary of Domestic Gas Supply Obligation Performance in MMSCF/Day



Year	Perf	Total
2004	Obligation	0.00
2004	Supply	0.00
2004	% Perf	0.0%
2005	Obligation	0.00
2005	Supply	0.00
2005	% Perf	0.0%
2006	Obligation	0.00
2006	Supply	0.00
2006	% Perf	0.0%
2007	Obligation	0.00
2007	Supply	0.00
2007	% Perf	0.0%
2008	Obligation	0.00
2008	Supply	0.00
2008	% Perf	0.0%
2009	Obligation	0.00
2009	Supply	0.00
2009	% Perf	0.0%
2010	Obligation	0.00
2010	Supply	0.00
2010	% Perf	0.0%
2011	Obligation	0.00
2011	Supply	0.00
2011	% Perf	0.0%
2012	Obligation	0.00
2012	Supply	0.00
2012	% Perf	0.0%
2013	Obligation	0.00
2013	Supply	0.00
2013	% Perf	0.0%

Table 55 : 2013 Approved Gas Supply Structure for the Textile Industry

Sector	2013	2014
Total (\$/Mcf)	0	0

#### 4.2.4 Gas Supply Infrastructures

Table 56 : 2013 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 : 2013 Status of Major Midstream Gas Projects

Project Title	Company	Project Objective	Capacity Mmscf/d	Location	Expected Completion Date
Test Project	AITEO E&P CO	Project Objective for the year		Calabar	2020-07-04

#### 4.2.5 Petrochemicals

Table 58 : 2013 Major Petrochemical Plants

Location	Ownership	Processing Plant Type	Capacity MTPA	Feedstock	product
Kaduna	Federal Govt	Linear Alkyl Benzene	120000	Raw Kerosine	Kero Solvent
Port Harcourt	River State Govt	Carbon Black (CB)	16000	Reformate	Cracked - C5
Bayelsa	Niger Delta Petroleum Resources (NDPR)	Polyethylene (PE)	7000	Ughelli Blend	Heavy 2
Eleme	Indorama	Linear Alkyl Benzene	19000	Decant Oil	Condensate
Warri	Federal Govt	Polypropylene (PP)	12000	Natural Gas Liquid (NGL)	LPG

Table 59 : 2013 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 reffridgerant	20MMscf/d	10		
Uraga 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		
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		

#### 4.2.6 Lubricant Blending Plants

Table 60 : 2013 Existing Blending Plants, their Locations and Total Capacities

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

Table 61 : 2013 Licences / Approvals / Permits Granted

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

### 3. DOWNSTREAM

#### 4.3.1 Summary of Refinery Products

Table 62 : 2013 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

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
	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
	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 : 2013 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
2004	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
2005	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpg	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2006	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpg	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2007	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpg	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
	dpg	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
	dpg	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0
2010	pms	0	0	0	0	0	0	0
	ago	0	0	0	0	0	0	0
	dpg	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
	dpg	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
	dpg	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
	dpg	0	0	0	0	0	0	0
	lpg	0	0	0	0	0	0	0
	lpfo	0	0	0	0	0	0	0

### 3. Petroleum Product Importation

#### Approved Petroleum Product Import Permit Volumes

Table 64 : 2013 Petroleum Products Volumes as per Import Permits Issued in Metric Tonnes

Months								
January	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0

Months								
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

Table 65 : 2013 Petroleum Products Volumes as per Import Permits Issued in Metric Tonnes

Years								
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

Table 66 : 2013 Approved Product Import By Import Permits

Products	MAJORS (MT)			DAPPMA (MT)			TRADERS (MT)			Total (MT)	
	2012	2013	% Diff	2012	2013	% Diff	2012	2013	% Diff	2012	2013
Total	1.00	1.00	1	1.00	1.00	1	1.00	1.00	1	3.00	3.00

#### Annual Petroleum Products Importation

Table 67 : 2013 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



Market Segment	Product	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Total, Metric Tonnes
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	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

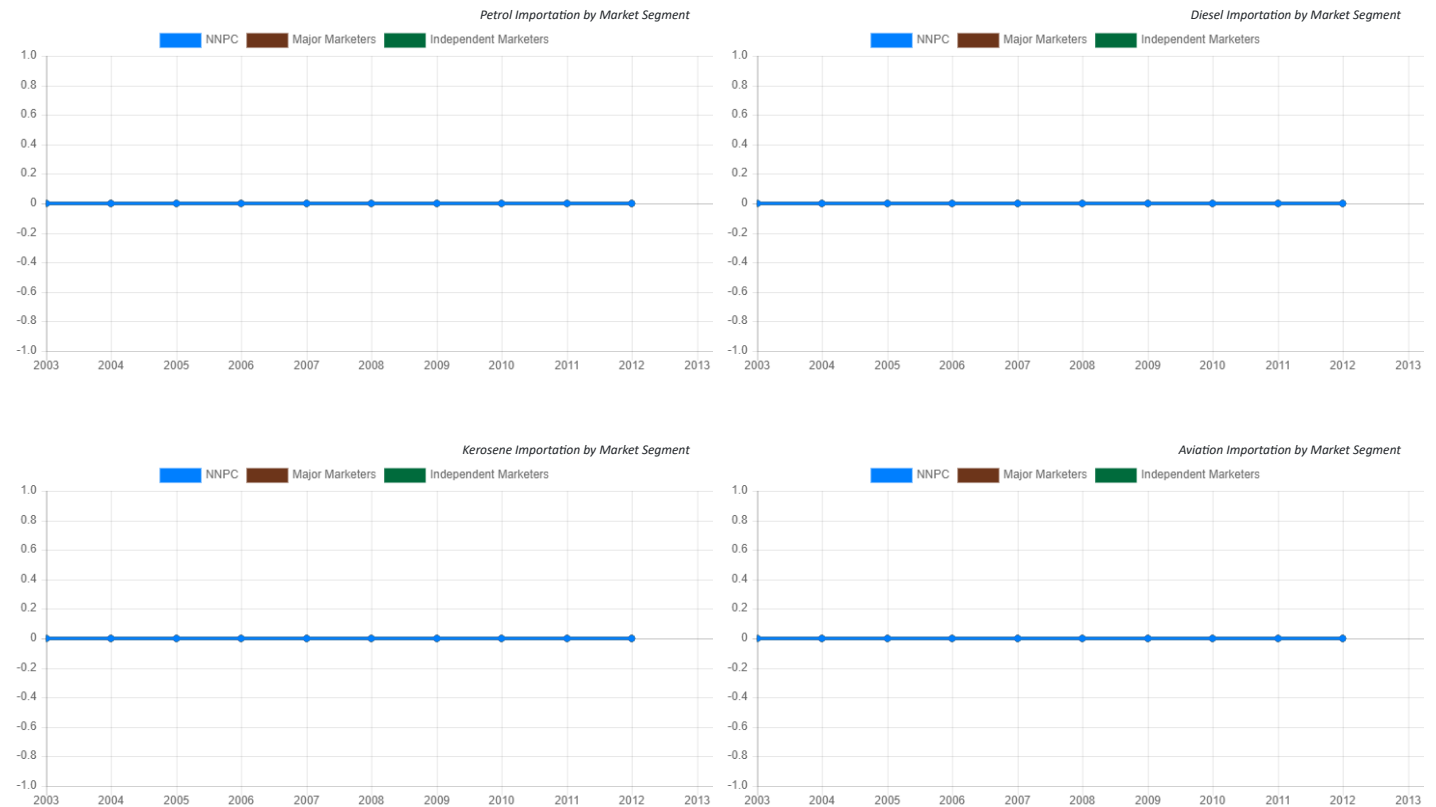


Figure  
Product Importation by Market Segment

Table 70 : 2013 Petroleum Products Import Summary, Litres

Year	pms	ago	dpk	atk	lpg	lpfo	base oil	bitumen
2003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

Table 71 : 2013 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

Field Office	PMS Import Vessels	DPK Import Vessels	AGO Import Vessels	ATK Import Vessels
Port-Harcourt	83	2	39	2
Umuahia		0	370	0
Warri	246	7		
Total	885	44	646	65

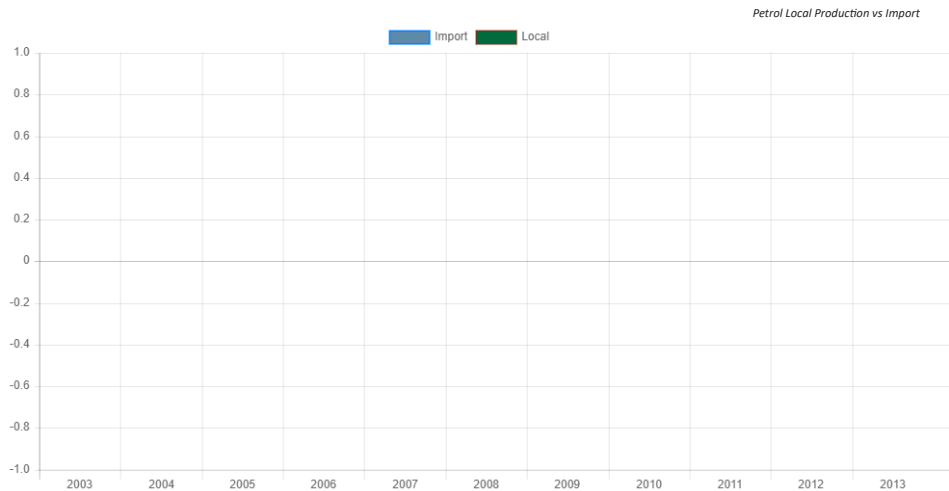
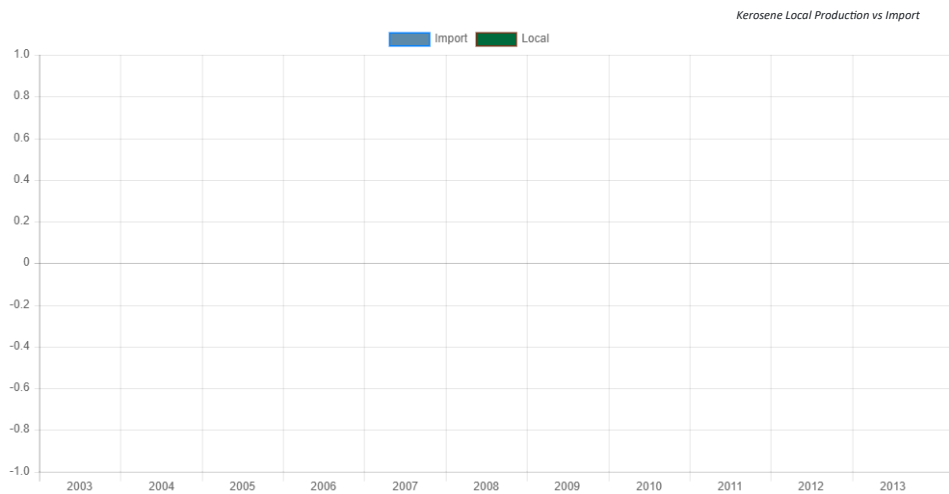
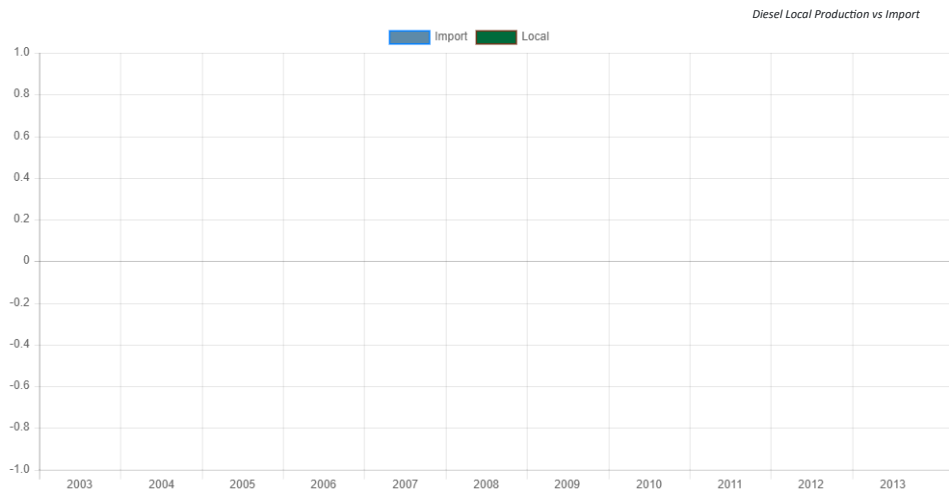


Figure  
Product Local Production vs Import





#### 4.3.2 Retail Outlets

Table 72 : 2013 Retail outlets Summary - Filling Stations count

State	Independent	Major	NNPC - Franchise & Mega	Grand Total
Abia	0	0	0	0
Adamawa	0	0	0	0
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 : 2013 Petroleum 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

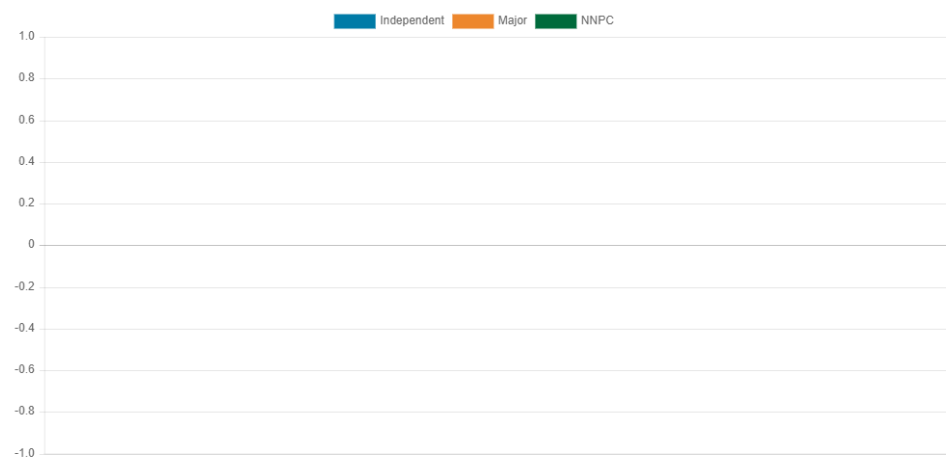


Figure  
Petroleum Product Storage Capacities by Market Segment

Table 74 : 2013 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

#### 4.3.3 Petroleum Products Average Pricing

Table 75 : 2013 Petroleum Products Average Consumer Price Range - Naira per Litre

Year	Market Segment	PMS	ago	DPK
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#### 4.3.4 LPG Penetration

Table 76 : 2013 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
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

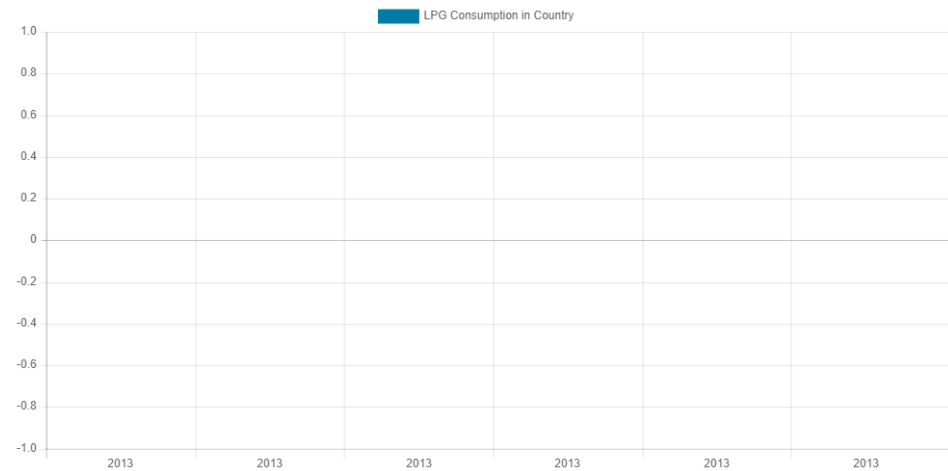


Figure  
LPG Consumption in 2013

## 4. HEALTH, SAFETY AND ENVIRONMENT

### 4.4.1 Accident Report

Table 77 : 2013 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
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	61	31	30	18	43	16	18	34
<b>Total</b>	<b>61</b>	<b>31</b>	<b>30</b>	<b>18</b>	<b>43</b>	<b>16</b>	<b>18</b>	<b>34</b>

Table 78 : 2013 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
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	45	17	28	15	30	14	13	27
Total	45	17	28	15	30	14	13	27

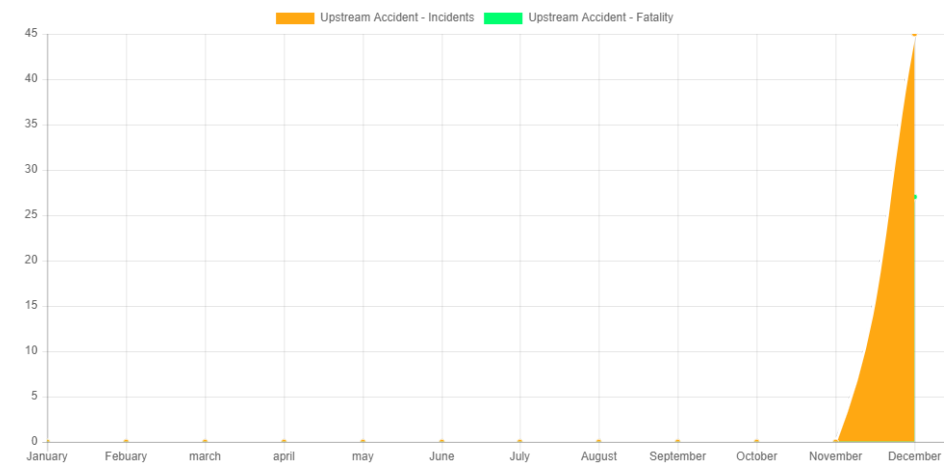


Figure  
Accident Report - Upstream

Table 79 : 2013 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
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	16	14	2	3	13	2	5	7
Total	16	14	2	3	13	2	5	7

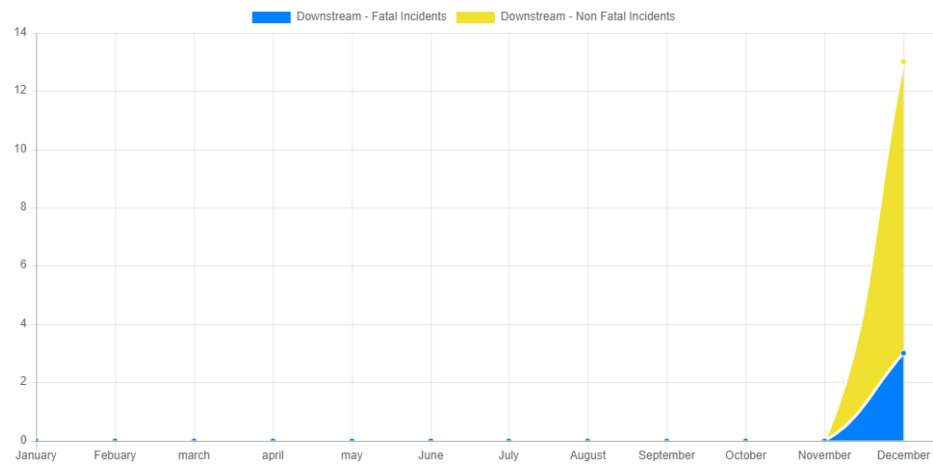


Figure  
Accident Report - Downstream

Table 80 : 2013 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
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0
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	44	18	26	19	25	3	19	22
2011	44	21	23	17	27	5	12	17
2012	53	27	26	30	23	11	26	37
2013	45	17	28	15	30	14	13	27

Table 81 : 2013 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
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0
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	18	10	8	6	12	17	15	32
2011	19	15	4	7	12	14	4	18
2012	14	13	1	4	10	123	0	123
2013	16	14	2	3	13	2	5	7

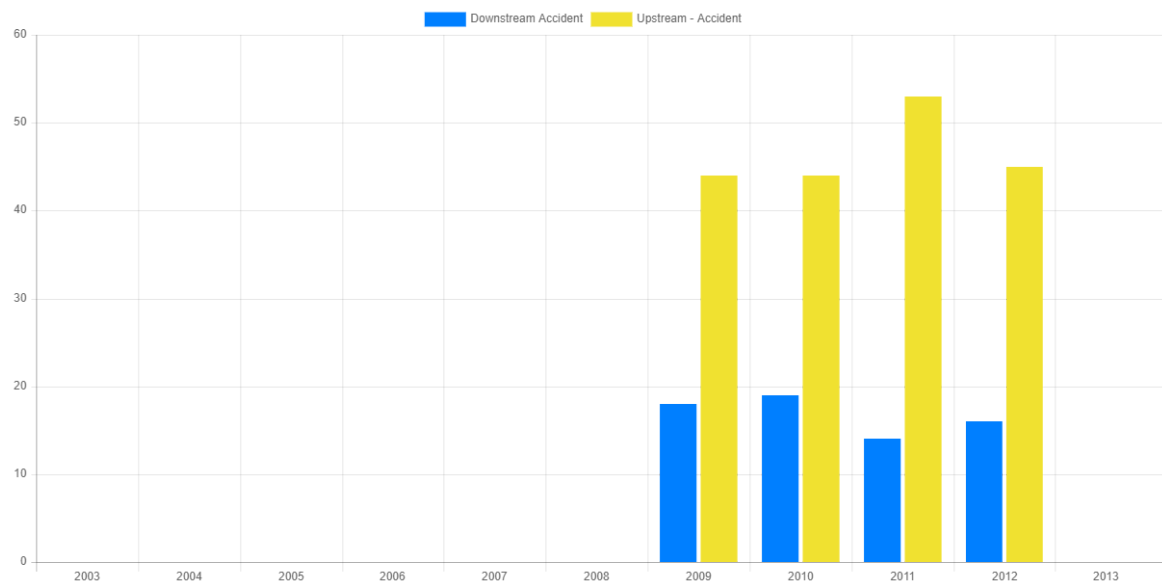


Figure  
Downstream versus Upstream Incidents

Table 82 : 2013 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
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0
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	62	28	34	25	37	20	34	54
2011	63	36	27	24	39	19	16	35
2012	67	40	27	34	33	134	26	160
2013	61	31	30	18	43	16	18	34

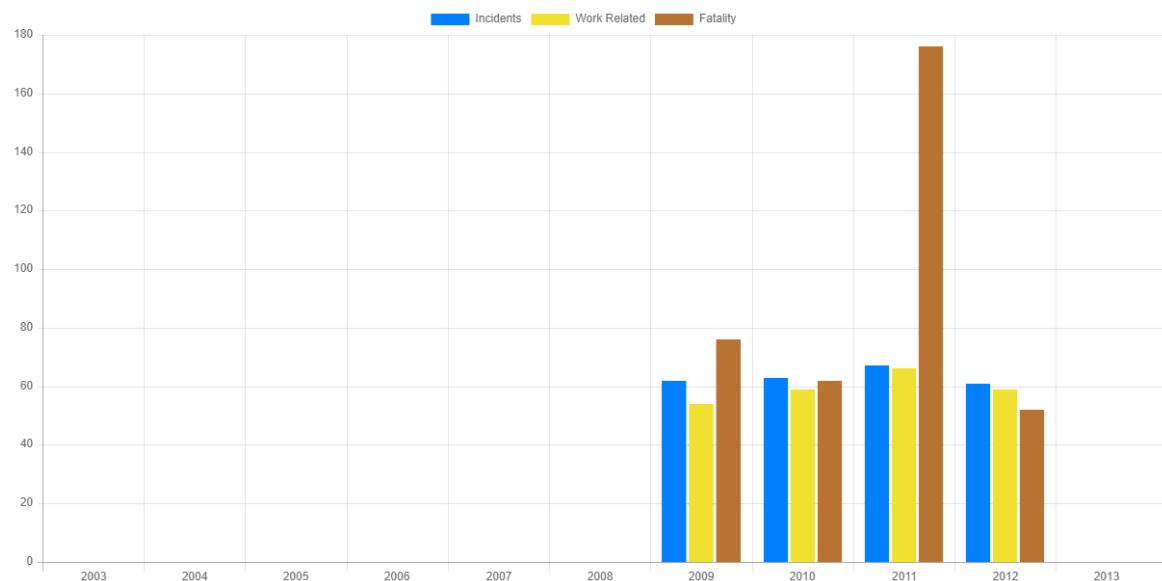


Figure  
Accident Report – Industry-wide

Table 83 : 2013 Spill Incidence Report

Month	Natural Accident	Corrosion	Equipment Failure	Sabotage	Human Error	YTBD	Mystery	Total Spill	Volume Spill
December	75	75	75	75	75	75	75	525	4066.2000
Total	75	75	75	75	75	75	75	525	4066.2



Table 84 : 2013 Spill Incidence Summary

Year	Number of Spills	Quantity Spilled (Br)
2003	0	0
2004	0	0
2005	0	0
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	307	17658.1000
2011	672	66906.8400
2012	840	17526.3700
2013	525	4066.2000

Table 85 : 2013 Report on Produced Water Volumes Generated

Company	Facility	Terrain	Concession	Volume/Day (Bbl)
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Table 86 : 2013 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 : 2013 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		

Company	Type of Facility	Location Area	Operational Status
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	Secondary Waste Management : Secondary Waste Management		
Allman Global	INCINERATOR : 1 x 1000KG/HR Incinerator		
Allman Global	WBM : Mobile Water based Treatment Plant		
Allman Global	Hazardous Waste Transportation : Hopper Barges		
The Initiates	TDU : 1 Indirect Fire Soil Remediation, WBM and Associated cuttings treatment Unit		
The Initiates	Secondary Waste Management : Secondary Waste Management		
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 Impianti	TDU : 1 Unit Bethlehem Thermal D System		
Boskel Engineering Services	INCINERATOR : High Temp. Rotary Kiln incinerator, 1 High Temp. Liquid incinerator.		
Boskel Engineering Services	TDU : 1 unit		
Halden Nigeria Limited	INCINERATOR : 1-unit Dual Chamber PL-1200 Incinerator		
Halden Nigeria Limited	WBM Handling : WBM Handling: Offsite		
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-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		
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	WBM Handling : WBM Handling: Onsite		
Mosab Marine and Engineering Services Limited	Tank/Vessel Cleaning : Tank/Vessel Cleaning		
Amotoi Global Services Limited	INCINERATOR : 1 unit – Model 450S		
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	WBM Waste Water Treatment : WBM Waste Water Treatment		
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	INCINERATOR : 1 Gencorp Beverly Type Waste Incinerator (for general waste)		
Olutee Engineering Services	INCINERATOR : 1 Howden Pyrolytic Gasification System (medical incinerator)		
Olutee Engineering Services	INCINERATOR : 1 Municipal Waste (Trash) incinerator		
Mawe Services Limited	TDU : 1 unit		
Titan Projects Nigeria Limited	TDU : 2 units		
Titan Projects Nigeria Limited	Hazardous Waste Transportation : Coral Barges		



Company	Type of Facility	Location Area	Operational Status
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		
ITS Drilling Services Nigeria Limited	TDU : TDU: 1 unit		
ITS Drilling Services Nigeria Limited	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		
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 GI-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		

Company	Type of Facility	Location Area	Operational Status
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 : 2013 Summary Of Waste Management Facilities**

#	Type of Facility	Operational Permit
1	INCINERATOR	23
2	TDU	23
3	WBM	2
4	Hazardous Waste Transportation	32
5	Tank/Vessel Cleaning unit	15
6	Secondary Waste Management	8
7	Tank Cleaning	7
8	Waste Water Treatment	1
9	Secondary Waste/Solidification	1
10	Tank/Vessel Cleaning	7
11	LTDU	1
12	Sewage Treatment Plant	1
13	Waste Recycling	4
14	Pyrolysis plant	1
15	Bulk Cuttings Evacuation/Transfer	1
16	Zero Discharge Drilling Waste Streams Fixation	1
17	Offshore Drill Cuttings Evacuation	1
18	Wood Waste Recycling	1
19	Liquid Waste Separator	1
20	Hazardous Waste Management	1
21	WBM Handling	22
22	Waste Recycling Plant	1
23	WBM Waste Water Treatment	1
24	SLOP/Produced water	0

**Table 89 : 2013 Oil Spill Contingency Plan Activation Exercises**

#	Location	Terrain	Nos Of Companies For Oscp/Fi	Actual Nos Of Companies Audited
15	5 UPSTREAM FACILITY	Land	123	121
16	0 REFINERY	Land	33	29
17	9 REFINERY	Deep Offshore	90	91

**Table 90 : 2013 Number Of Petitions Received In**

Category	CSR	Pollution	Compensation	Others (Disputes, Contractual Issues, Recognition As Host Community)
Count	0	0	0	0

**Table 91 : 2013 Request For Approvals – Chemicals**

No. of Applications Received	Approved	Disapproved	Pending
0	0	0	0

**Table 92 : 2013 Summary of Accredited Laboratories**

Laboratory Service	Lagos Zone	Port Harcourt Zone	Warri Zone	Total
Environmental Quality Monitoring	0	16	20	36
Health Quality Monitoring	0	0	0	0
<b>Total</b>	<b>0</b>	<b>16</b>	<b>20</b>	<b>36</b>

**Table 93 : 2013 Summary of Drilling Chemicals**

#	Drilling Fluid Type	Numbers
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**Table 94 : 2013 Approved Production Chemicals Inventory**

#	Production Chemicals	Numbers
Total		0

**Table 95 : 2013 Applications For Environmental Restoration Services**

#	Service	Approval Status	Approval (New)	Approval (Renewal)	Total
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Table 96 : 2013 Environmental Studies**

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
January	1	0	0	1	0	0	0	0	0	0	2
February	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	1	1	0	0	2
April	0	1	0	0	0	0	0	0	0	0	1
May	0	1	0	0	0	0	0	1	0	0	2
June	0	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>											

**Table 97 : 2013 Offshore Safety Permit OSP Summary**

Year	PERSONNEL REGISTERED	PERSONNEL CAPTURED	PERMITS ISSUED
2013	5962	3610	727

**Table 98 : 2013 Approved Safety And Medical Emergency Training Centres**

#	Company	Facility Location Address	Approved Courses
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5. REVENUE PERFORMANCE

4.5.1 Revenue

Table 99 : 2013 Revenue Performance Summary

Year	Oil Royalty ₦	Gas Royalty ₦	Gas Flare Penalty ₦	Concession Rentals ₦	MOR ₦	Signatre Bonus ₦	Total Revenue ₦
2003	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
Total	3,773,772,826,110.78	60,091,221,233.81	12,841,860,083.09	1,739,977,683.25	8,380,757,952.42	0.00	3,856,826,643,063.35

Nigerian Revenue Slot for the Year

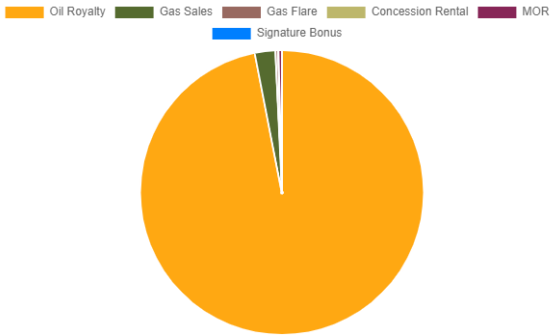


Figure  
Revenue Performance Summary Yearly

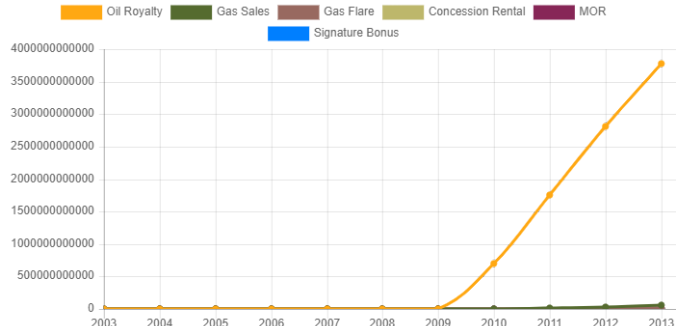


Figure  
Revenue Performance

5.0 GLOSSARY ITEMS

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

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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.

