



## Department of Petroleum Resources

### 2019 OIL & GAS ANNUAL REPORT

#### 1. REMARKS OF DIRECTOR OF PETROLEUM RESOURCES

Globally, energy discourses in many fora has 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 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 plants 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 decline path. Incidents and fatal accidents are mainly due to petroleum tanker truck accident and gas plants 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.

A. R. Shakur

2. REGULATORY STRUCTURE OF THE NIGERIAN OIL AND GAS INDUSTRY

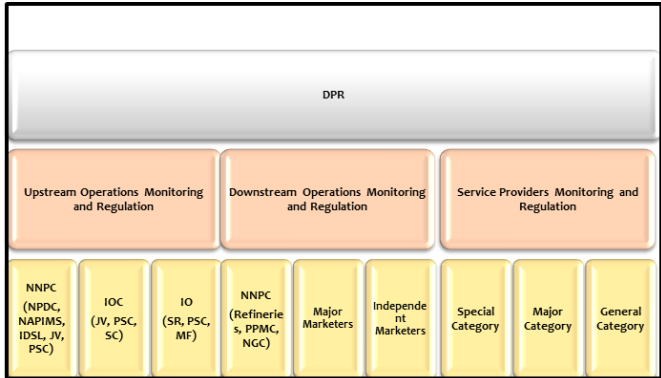


Figure 1: The Nigeria Oil and Gas Industry

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>.

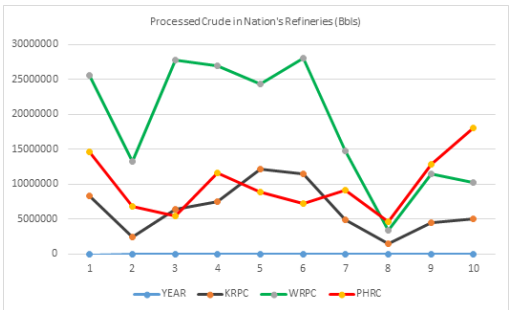


Figure 2: Crude oil processed in Nigeria's refineries between 2008 and 2017

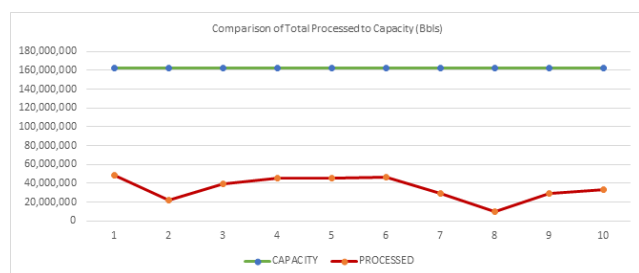


Figure 3: Comparison of the total crude processed to capacity of the nation's refineries (2008 – 2017)

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.

## Refinery Equipment of Texas, LLC

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	Projected Sell \$
1.00%	Avg. % yield for water gas	\$7,800.00	100	15,899	\$0.00
28.78%	Avg. % yield for naphtha	\$224,484.00	2,878	457,964	\$0.80
52.98%	Avg. % yield for diesel	\$413,068.00	5,296	841,994	\$0.80
17.26%	Avg. % yield for HFO **	\$134,628.00	1,726	274,411	\$0.80
0.00%	Avg. % yield for asphalt**	\$0.00	0	0	\$0.00
Assumptions: Crude API see above				return	\$1,259,175.46
** heavy fuel oil is a blend of diesel no. 4 & 8, resid (higher quality than #8)				cost	\$780,000.00
*** yield for asphalt road base / residuum or bitumen				Daily \$	\$479,175.46
www.platts.com				30 days	\$14,375,263.68
				Annual	\$172,503,164.16

\*A reliable feedstock assay, including a True Boiling Point (TBP) distillation to verify the crude oil yields are required. The spreadsheet above is the best estimates that can be done with out the crude oil assay.

True Boiling Point Assay

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.

#### References

- Ogbuigwe, T (2017) Modular Refineries: Prospect and Challenges. Paper delivered at the Nigerian Academy of Engineering (NAE). <https://guardian.ng/opinion/modular-refineries-prospects-and-challenges/> - [Accessed 12 May 2019]
- International Energy Agency (2018). Oil Market Report; 13 April 2018 <https://www.iea.org/media/omrreports/fullissues/2018-04-13.pdf> - [Accessed 12 May 2019]

Table 1: 2019

## Annual Report on Multi-Client Project 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: 2019 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	10/17/2018	10/16/2038
2	OML112	Sole Risk (SR)	437.7		Niger Delta - Continental Shelf	AMNI INTERNATIONAL DEVELOPMENT CO.	9/17/2017	9/16/2037
3	OML117	Sole Risk (SR)	51.1		Niger Delta - Onshore	AMNI INTERNATIONAL DEVELOPMENT CO.	9/17/2017	9/16/2037
4	OML52	Joint Venture (JV)	246.75		Niger Delta - Onshore	AMNI INTERNATIONAL DEVELOPMENT CO.	6/14/1997	6/13/2027
5	OML156	Sole Risk (SR)	522		Anambra Basin - Onshore	AMALGAMATED OIL CO. LTD.	3/25/2019	3/24/2039
6	OML109	Sole Risk (SR)	772.4		Niger Delta - Continental Shelf	ATLAS PETROLEUM INTERNATIONAL LTD	4/25/2017	4/24/2037
7	OML55	Joint Venture (JV)	849.28		Niger Delta - Onshore	BELEMA	6/14/1997	6/13/2027
8	OML49	Joint Venture (JV)	1706.948		Niger Delta - Onshore	CHEVRON NIGERIA LTD.	6/14/1997	6/13/2027
9	OML51	Joint Venture (JV)	144.901		Niger Delta - Onshore	CHEVRON NIGERIA LTD.	6/14/1997	6/15/2027
10	OML89	Joint Venture (JV)	364		Niger Delta - Onshore	CHEVRON NIGERIA LTD.	8/18/2014	8/17/2034
11	OML91	Joint Venture (JV)	157		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	8/18/2014	8/18/2034
12	OPL286/OML 86	Joint Venture (JV)	385.4		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	8/18/2014	8/19/2034
13	OML88	Joint Venture (JV)	772.8		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	8/18/2014	8/20/2034
14	OML90	Joint Venture (JV)	653		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	8/18/2014	8/20/2034
15	OML95	Joint Venture (JV)	1217.376		Niger Delta - Continental Shelf	CHEVRON NIGERIA LTD.	8/18/2014	8/20/2034
16	OML132	Production Sharing Contract (PSC)	804.1		Niger Delta - Deep Offshore	CHEVRON NIGERIA LTD.	12/20/2005	12/19/2025
17	OML131	Production Sharing Contract (PSC)	1210		Niger Delta - Deep Offshore	OANDO PLC	4/24/2005	4/23/2025
18	OML103	Sole Risk (SR)	913.559		Niger Delta - Onshore	CONOIL PRODUCING LTD	12/20/2016	12/19/2036
19	OML136	Sole Risk (SR)	1295		Niger Delta - Continental Shelf	CONOIL PRODUCING LTD	7/27/2006	7/26/2026
20	OML59	Sole Risk (SR)	835.5		Niger Delta - Onshore	CONTINENTAL OIL AND GAS LTD.	6/6/1998	6/5/2028
21	OML150	Production Sharing Contract (PSC)	428		Niger Delta - Onshore	CONTINENTAL OIL AND GAS LTD.	3/10/2016	3/9/2036
22	OML96	Sole Risk (SR)	221		Niger Delta - Onshore	DUBRI OIL COMPANY	5/2/2013	5/1/2033
23	OML138	Production Sharing Contract (PSC)	656.4		Niger Delta - Deep Offshore	TOTAL E&P	5/17/2007	5/16/2017
24	OML139	Production Sharing Contract (PSC)	656.4		Niger Delta - Deep Offshore	TOTAL E&P	5/17/2007	5/16/2018
25	OML99	Joint Venture (JV)	171		Niger Delta - Continental Shelf	NNPC.FES	5/2/2013	5/1/2033
26	OML100	Joint Venture (JV)	179		Niger Delta - Continental Shelf	NNPC.FES	5/2/2013	5/1/2033
27	OML102	Joint Venture (JV)	795.62		Niger Delta - Continental Shelf	NNPC.FES	5/2/2013	5/1/2033
28	OML58	Joint Venture (JV)	518.02		Niger Delta - Onshore	NNPC.FES	6/14/2097	6/13/2027
29	OML141	Sole Risk (SR)	1295		Niger Delta - Onshore	ENAGEED RESOURCES LIMITED	11/8/2007	8/7/2027
30	OML148	Production Sharing Contract (PSC)	870		Niger Delta - Onshore	ENAGEED RESOURCES LIMITED	5/15/2015	5/14/2035
31	OML18	Joint Venture (JV)	1035		Niger Delta - Onshore	NNPC.FES	10/22/2018	10/21/2038
32	OML133	Production Sharing Contract (PSC)	1100		Niger Delta - Deep Offshore	ESSO EXPLORATION	2/8/2006	2/7/2026
33	OML145	Production Sharing Contract (PSC)	1292.94		Niger Delta - Deep Offshore	ESSO EXPLORATION	5/30/2014	5/29/2034
34	OML154	Production Sharing Contract (PSC)	462.961		Niger Delta - Deep Offshore	ESSO EXPLORATION	6/28/2018	6/27/2038

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
35	OML83	Joint Venture (JV)	109.3		Niger Delta - Continental Shelf	NNPC.FES	8/18/2014	8/17/2034
36	OML85	Joint Venture (JV)	514.9		Niger Delta - Continental Shelf	NNPC.FES	8/18/2014	8/17/2034
37	OML71	Joint Venture (JV)	729.6		Niger Delta - Continental Shelf	WAEP/ Dangote	12/18/2014	12/17/2034
38	OML72	Joint Venture (JV)	1129		Niger Delta - Continental Shelf	WAEP/ Dangote	12/18/2014	12/18/2034
39	OML149	Production Sharing Contract (PSC)	941.2		Niger Delta - Onshore	GEC PETROLEUM DEVELOPMENT COMPANY LTD (GLOBAL ENERGY)	2/5/2015	2/4/2035
40	OML151	Production Sharing Contract (PSC)	171		Niger Delta - Continental Shelf	GEC PETROLEUM DEVELOPMENT COMPANY LTD (GLOBAL ENERGY)	3/10/2016	3/9/2036
41	OML127	Sole Risk (SR)	1280.8		Niger Delta - Deep Offshore	STAR DEEPWATER	11/25/2004	11/24/2024
42	OML104	Joint Venture (JV)	675		Niger Delta - Continental Shelf	MOBIL PRODUCING NIGERIA UNLTD	1/10/2019	1/9/2038
43	OML67	Joint Venture (JV)	118.89		Niger Delta - Continental Shelf	MOBIL PRODUCING NIGERIA UNLTD	3/11/2011	3/10/2031
44	OML68	Joint Venture (JV)	119.27		Niger Delta - Continental Shelf	MOBIL PRODUCING NIGERIA UNLTD	3/11/2011	3/10/2031
45	OML70	Joint Venture (JV)	1250.02		Niger Delta - Continental Shelf	MOBIL PRODUCING NIGERIA UNLTD	3/11/2011	3/10/2031
46	OML114	Sole Risk (SR)	464		Niger Delta - Continental Shelf	MONI PULO LTD	1/3/1999	4/17/2039
47	OML24	Joint Venture (JV)	162		Niger Delta - Onshore	NNPC.FES	7/1/2009	10/17/2039
48	OML152	Production Sharing Contract (PSC)	990.394		Niger Delta - Onshore	NEWCROSS E&P CO	3/14/2017	3/13/2037
49	OML134	Production Sharing Contract (PSC)	1131.17		Niger Delta - Deep Offshore	NIGERIAN AGIP ENERGY (NAE)	5/31/2006	5/30/2026
50	OML125	Production Sharing Contract (PSC)	1218.6		Niger Delta - Deep Offshore	NIGERIAN AGIP ENERGY (NAE)	1/2/2003	1/1/2023
51	OML60	Joint Venture (JV)	357.9		Niger Delta - Onshore	NNPC.FES	6/14/1997	6/13/2027
52	OML61	Joint Venture (JV)	1499.6		Niger Delta - Onshore	NNPC.FES	6/14/1997	6/13/2027
53	OML62	Joint Venture (JV)	1210.6		Niger Delta - Onshore	NNPC.FES	6/14/1997	6/13/2027
54	OML63	Joint Venture (JV)	2246		Niger Delta - Onshore	NNPC.FES	6/14/1997	6/13/2027
55	OML116	Service Contract (SC)	360		Niger Delta - Continental Shelf	NNPC.FES	8/6/1979	8/5/2019
56	OML126	Production Sharing Contract (PSC)	704.5		Niger Delta - Continental Shelf	NNPC.FES	11/25/2004	11/24/2024
57	OML137	Production Sharing Contract (PSC)	848.9		Niger Delta - Continental Shelf	NNPC.FES	4/23/2007	4/22/2027
58	OML123	Production Sharing Contract (PSC)	400.9		Niger Delta - Continental Shelf	NNPC.FES	8/14/2002	4/13/2022
59	OML124	Production Sharing Contract (PSC)	299.8		Niger Delta - Onshore	NNPC.FES	8/14/2002	4/13/2022
60	OML40	Joint Venture (JV)	498		Niger Delta - Onshore	NNPC.FES	10/22/2018	10/21/2038
61	OML42	Joint Venture (JV)	814		Niger Delta - Onshore	NNPC.FES	10/22/2018	10/21/2038
62	OML26	Joint Venture (JV)	165		Niger Delta - Onshore	NNPC.FES	7/1/1989	6/18/2039
63	OML34	Joint Venture (JV)	950		Niger Delta - Onshore	NNPC.FES	7/1/1989	2/27/2039
64	OML119	Sole Risk (SR)	715.38		Niger Delta - Continental Shelf	Dangote Industries Limited	10/31/2000	10/30/2020
65	OML111	Sole Risk (SR)	460.76		Niger Delta - Onshore	Dangote Industries Limited	1/1/1996	3/3/2039
66	OML98	Sole Risk (SR)	522.86		Niger Delta - Onshore	Dangote Industries Limited	8/1/2019	7/31/2039
67	OML64	Sole Risk (SR)	278.3		Niger Delta - Onshore	Dangote Industries Limited	1/9/1989	3/3/2039
68	OML65	Sole Risk (SR)	1018.84		Niger Delta - Onshore	Dangote Industries Limited	1/9/1989	3/3/2039
69	OML66	Sole Risk (SR)	204.09		Niger Delta - Onshore	Dangote Industries Limited	7/9/1989	3/3/2039
70	OML13	Sole Risk (SR)	1988.2		Niger Delta - Onshore	Dangote Industries Limited	12/20/2016	12/19/2036
71	OML11	Sole Risk (SR)	3096.9		Niger Delta - Onshore	Dangote Industries Limited	7/1/2019	06/31/2039
72	OML30	Joint Venture (JV)	1097		Niger Delta - Onshore	NNPC.FES	7/1/1989	3/3/2039
73	OML140	Sole Risk (SR)	1220		Niger Delta - Deep Offshore	OIL AND GAS NIGERIA LIMITED	7/18/2007	7/17/2027
74	OML115	Sole Risk (SR)	248		Niger Delta - Continental Shelf	ORIENTAL ENERGY RESOURCES	5/20/1999	5/9/2039
75	OML147	Production Sharing Contract (PSC)	544		Niger Delta - Onshore	PANOCEAN OIL CORPORATION NIG	10/23/2014	10/22/2034
76	OML122	Sole Risk (SR)	1295		Niger Delta - Continental Shelf	PEAK PETROLEUM INDUSTRIES NIGERIA LIMITED	5/17/2001	5/16/2021
77	OML4	Joint Venture (JV)	267.96		Niger Delta - Onshore	NPDC/SEPLAT	10/22/2018	10/21/2038
78	OML38	Joint Venture (JV)	2152.321		Niger Delta - Onshore	NPDC/SEPLAT	10/22/2018	10/21/2038
79	OML41	Joint Venture (JV)	291.052		Niger Delta - Onshore	NPDC/SEPLAT	10/22/2018	10/21/2038
80	OML53	Joint Venture (JV)	1562.27		Niger Delta - Onshore	NPDC/SEPLAT	6/14/1997	6/13/2027
81	OML17	Joint Venture (JV)	1301.25		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
82	OML20	Joint Venture (JV)	405		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
83	OML21	Joint Venture (JV)	372		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
84	OML22	Joint Venture (JV)	722		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
85	OML23	Joint Venture (JV)	482.57		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
86	OML25	Joint Venture (JV)	429		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
87	OML27	Joint Venture (JV)	165		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
88	OML28	Joint Venture (JV)	936		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
89	OML31	Joint Venture (JV)	1097		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
90	OML32	Joint Venture (JV)	565		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
91	OML33	Joint Venture (JV)	336		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
92	OML35	Joint Venture (JV)	1144		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
93	OML36	Joint Venture (JV)	338		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
94	OML43	Joint Venture (JV)	767		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
95	OML45	Joint Venture (JV)	76		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
96	OML46	Joint Venture (JV)	1080		Niger Delta - Onshore	NNPC.FES	10/18/2018	10/17/2038
97	OML74	Joint Venture (JV)	1323.6		Niger Delta - Continental Shelf	NNPC.FES	10/18/2018	12/17/2034

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
98	OML77	Joint Venture (JV)	962		Niger Delta - Continental Shelf	NNPC.FES	10/18/2018	12/17/2034
99	OML79	Joint Venture (JV)	970		Niger Delta - Continental Shelf	NNPC.FES	10/18/2018	12/17/2034
100	OML118	Production Sharing Contract (PSC)	1166.5		Niger Delta - Deep Offshore	SHELL NIG. E&P CO. (SNEPCO)	11/28/2005	11/27/2025
101	OML135	Production Sharing Contract (PSC)	925.7		Niger Delta - Deep Offshore	SHELL NIG. E&P CO. (SNEPCO)	7/3/2006	7/2/2026
102	OML130	Sole Risk (SR)	1295		Niger Delta - Deep Offshore	SOUTH ATLANTIC PETROLEUM LIMITED	4/25/2005	4/24/2025
103	OML128	Production Sharing Contract (PSC)	1197.5		Niger Delta - Deep Offshore	STATOIL NIGERIA LIMITED	12/28/2004	12/27/2024
104	OML129	Production Sharing Contract (PSC)	1022.6		Niger Delta - Deep Offshore	STATOIL NIGERIA LIMITED	12/28/2004	12/27/2024
105	OML142	Sole Risk (SR)	1295		Anambra Basin - Onshore	SUMMIT OIL INTERNATIONAL	6/12/2009	6/11/2029
106	OML144	Sole Risk (SR)	95.6		Niger Delta - Continental Shelf	SUNLINK PETROLEUM	5/2/2013	5/1/2033
107	OML46	Production Sharing Contract (PSC)	29.091		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPKO)	10/25/2014	10/24/2034
108	OML143	Production Sharing Contract (PSC)	368.8		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPKO)	12/29/2010	12/28/2030
109	OML113	Sole Risk (SR)	834.87		Niger Delta - Continental Shelf	YINKA FOLAWIYO PET CO LTD	7/23/2018	7/22/2038

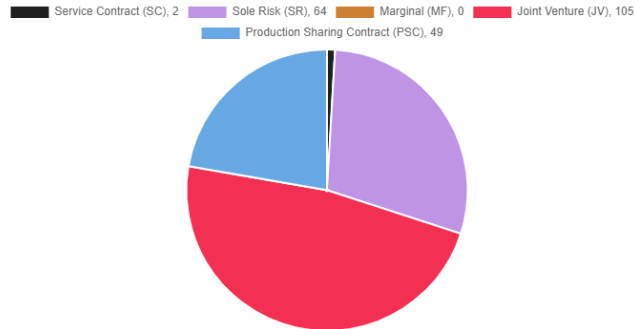


Figure 5 : Distribution of Nigerian OML by Contract Type

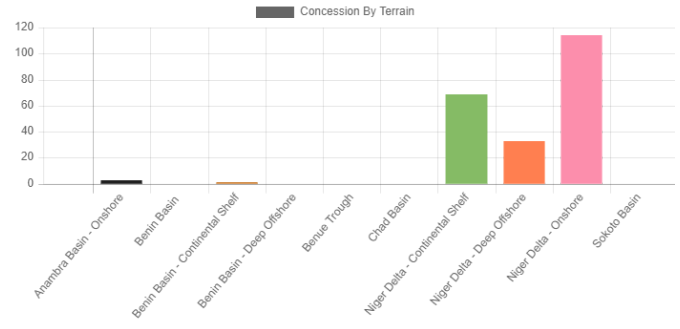


Figure 6 : Distribution of Nigerian Concessions by Terrain

Table 3: 2019 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)	2497.53		Anambra Basin - Onshore	AFREN GLOBAL ENERGY RESOURCES LIMITED	1/1/2005	2/19/2018
2	OPL917	Production Sharing Contract (PSC)	1709.72		Anambra Basin - Onshore	AFREN GLOBAL ENERGY RESOURCES LIMITED	1/1/2005	2/19/2018
3	OPL325	Production Sharing Contract (PSC)	1265		Niger Delta - Deep Offshore	ASHBERT OIL & GAS LTD.NPDC/TRAIN-COSY ENERGY	1/2/2005	
4	OPL286	Production Sharing Contract (PSC)	804.13		Niger Delta - Deep Offshore	SAHAHRA.BG EXP. NIC LTD.	1/1/2006	3/7/2017
5	OPL240	Production Sharing Contract (PSC)	47.65		Benin Basin - Continental Shelf	BOC JNHP CONSORTIUM	1/1/2007	
6	OPL471	Production Sharing Contract (PSC)	1369.972		Benin Basin - Continental Shelf	CHINA NATIONAL OIL DEV. CO (CNODC)	1/1/2006	4/22/2017
7	OPL257	Production Sharing Contract (PSC)	425.7		Niger Delta - Deep Offshore	CONOIL PRODUCING LTD	1/1/2005	2/8/2016
8	OPL289	Production Sharing Contract (PSC)	386		Benin Basin - Continental Shelf	CLEANWATERS CONSORTIUM	10/11/2006	4/22/2012
9	OPL305	Sole Risk (SR)	1557.87		Benin Basin	CROWNWELL PETROLEUM LTD	5/18/2017	5/17/2020
10	OPL306	Sole Risk (SR)	1889.22		Benin Basin	CROWNWELL PETROLEUM LTD	5/18/2017	5/18/2020
11	OPL322	Sole Risk (SR)	1789.44		Niger Delta - Deep Offshore	DAJO OIL LIMITED	3/30/2004	2/26/2019
12	OPL204	Sole Risk (SR)	1670.47		Niger Delta - Onshore	AFRICOIL & MARKETING CO. LTD.	7/9/2005	7/8/2010
13	OPL221	Production Sharing Contract (PSC)	2286		Niger Delta - Deep Offshore	TOTAL E&P	11/19/2003	11/18/2013
14	OPL227	Sole Risk (SR)	974.09		Benin Basin - Continental Shelf	EXPRESS PET & GAS CO. LTD.PETROLEUM PROSPECTS INT'L LIMITED	1/1/2000	12/2/2018
15	OPL226	Production Sharing Contract (PSC)	1257		Benin Basin - Continental Shelf	ESSAR E&P LIMITED	5/18/2007	3/9/2015
16	OPL235	Sole Risk (SR)	1480		Niger Delta - Onshore	FIRST ARIES PETROLEUM LTD.	8/10/1993	
17	OPL905	Production Sharing Contract (PSC)	2599.8		Anambra Basin - Onshore	GAS TRANSMISSION & POWER LIMITED	4/23/2007	4/22/2017
18	OPL2010	Production Sharing Contract (PSC)	179		Benin Basin - Continental Shelf	GEC PETROLEUM DEVELOPMENT COMPANY LTD (GLOBAL ENERGY)	5/18/2007	12/29/2015
19	OPL2012	Production Sharing Contract (PSC)	848.5		Benin Basin - Continental Shelf	GRASSO NIG. LTD..SIGMUND OIL FIELDS LTD.	1/1/2012	6/17/2019
20	OPL247	Sole Risk (SR)	1165		Niger Delta - Deep Offshore	HERITAGE OIL & GAS CO. LTD.	1/1/1999	4/5/2019
21	OPL252	Production Sharing Contract (PSC)	813.75		Niger Delta - Deep Offshore	INC NATURAL RESOURCES	1/1/2006	
22	OPL292	Production Sharing Contract (PSC)	1195.46		Niger Delta - Deep Offshore	INC NATURAL RESOURCES	1/1/2006	
23	OPL234	Production Sharing Contract (PSC)	1214.21		Niger Delta - Onshore	MONI PULO LTD	1/1/2007	12/15/2013
24	OPL239	Production Sharing Contract (PSC)	64.67		Benin Basin - Continental Shelf	MONI PULO LTD	1/1/2007	12/16/2013
25	OPL231	Production Sharing Contract (PSC)	244.04		Niger Delta - Onshore	MONI PULO LTD	1/1/2007	5/16/2016
26	OPL276	Production Sharing Contract (PSC)	472.244		Niger Delta - Onshore	NEWCROSS E&P CO	2/16/2006	1/20/2017
27	OPL733	Production Sharing Contract (PSC)	2611.42		Chad Basin	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	1/1/2005	8/7/2016
28	OPL809	Production Sharing Contract (PSC)	2580.638		Benue Trough	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	1/1/2005	8/8/2016
29	OPL810	Production Sharing Contract (PSC)	2583.683		Benue Trough	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	1/1/2005	8/9/2016
30	OPL722	Production Sharing Contract (PSC)	2539.54		Chad Basin	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	1/1/2005	8/10/2016
31	OPL244	Production Sharing Contract (PSC)	1700		Niger Delta - Deep Offshore	NIGERIA AGIP EXPL. LTD (NAE).SHELL NIG.ULTRA DEEP LTD.	1/1/2000	12/19/2011
32	OPL282	Production Sharing Contract (PSC)	694.867		Benin Basin - Continental Shelf	NIGERIA AGIP OIL COMPANY	1/1/2005	9/7/2015

#	Concession	Contract Type	Area (Sq.km)	Equity Distribution	Basin/Terrain	Operator	Date Of Grant	License Expiration
33	OPL291	Production Sharing Contract (PSC)	1287.19		Niger Delta - Deep Offshore	STARCREST LIMITED	1/1/2006	10/15/2016
34	OPL702	Sole Risk (SR)	2573.5		Chad Basin	NNPC.FES	1/1/1967	
35	OPL703	Sole Risk (SR)	2772.1		Chad Basin	NNPC.FES	1/1/1967	
36	OPL705	Sole Risk (SR)	2547.1		Chad Basin	NNPC.FES	1/1/1967	
37	OPL707	Sole Risk (SR)	2581.7		Chad Basin	NNPC.FES	1/1/1967	
38	OPL242	Production Sharing Contract (PSC)	1789.44		Niger Delta - Deep Offshore	Dangote Industries Limited	3/7/2011	
39	OPL233	Production Sharing Contract (PSC)	125.74		Niger Delta - Continental Shelf	NIG-DEL UNITED LTD.	1/1/2006	6/29/2016
40	OPL215	Sole Risk (SR)	2586.2		Niger Delta - Deep Offshore	NOREAST PET. NIG. LTD.	10/23/1991	4/20/2020
41	OPL236	Production Sharing Contract (PSC)	1651.98		Niger Delta - Onshore	OANDO PLC	1/1/2005	9/7/2011
42	OPL278	Production Sharing Contract (PSC)	91.86		Niger Delta - Onshore	OANDO PLC	1/1/2005	9/7/2015
43	OPL241	Production Sharing Contract (PSC)	1257.444		Niger Delta - Continental Shelf	OILWORLD LIMITED	1/1/2007	3/9/2020
44	OPL285	Production Sharing Contract (PSC)	1167.21		Niger Delta - Deep Offshore	EMO E&P.TOTAL E&P LTD	1/1/2006	2/22/2017
45	OPL279	Production Sharing Contract (PSC)	1102.7		Niger Delta - Deep Offshore	EMO E&P.TOTAL E&P LTD	1/1/2006	2/23/2017
46	OPL310	Sole Risk (SR)	1934.51		Benin Basin	OPTIMUM PETROLEUM DEVELOPMENT LIMITED	1/1/1992	9/3/2022
47	OPL915	Sole Risk (SR)	1194.86		Anambra Basin - Onshore	ORIENTAL PET. REFINERY LTD.	1/31/2005	1/29/2015
48	OPL916	Production Sharing Contract (PSC)	963.45		Niger Delta - Onshore	ORIENTAL PET. REFINERY LTD.		
49	OPL320	Production Sharing Contract (PSC)	1789.44		Niger Delta - Deep Offshore	ORANTO PETROLEUM LTD.	1/1/1999	2/20/2012
50	OPL293	Production Sharing Contract (PSC)	1022.5		Niger Delta - Deep Offshore	ORANTO PETROLEUM LTD.	1/1/2007	
51	OPL284	Production Sharing Contract (PSC)	1131.48		Niger Delta - Deep Offshore	SAHARA ENERGY E&P	7/17/2006	7/6/2017
52	OPL228	Production Sharing Contract (PSC)	1915.16		Niger Delta - Onshore	SAHARA ENERGY E&P	6/11/2015	
53	OPL245	Sole Risk (SR)	1958.31		Niger Delta - Deep Offshore	NIGERIAN AGIP ENERGY (NAE)	12/22/2003	5/10/2021
54	OPL2005	Production Sharing Contract (PSC)	662.42		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPCO)	1/1/2007	4/29/2019
55	OPL2006	Production Sharing Contract (PSC)	662.42		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPCO)	1/1/2007	
56	OPL2004	Joint Venture (JV)	103.7		Niger Delta - Onshore	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPCO)	1/1/2015	
57	OPL2008	Production Sharing Contract (PSC)	40.89		Benin Basin - Continental Shelf	TENOIL PET. & ENERGY SERVICES LTD.CLAYFORD	1/1/2007	5/25/2016
58	OPL281	Production Sharing Contract (PSC)	122		Niger Delta - Onshore	TRANSNATIONAL CORPORATION	1/1/2006	1/5/2019
59	OPL248	Production Sharing Contract (PSC)	2447.61		Niger Delta - Deep Offshore	ZEBBRA ENERGY LIMITED	1/1/1999	1/6/2019

Service Contract (SC), 0    Sole Risk (SR), 34    Marginal (MF), 0    Joint Venture (JV), 1  
 Production Sharing Contract (PSC), 92

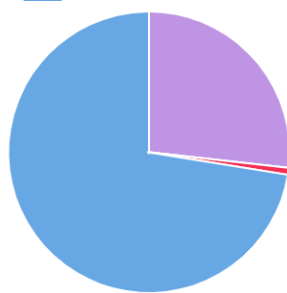


Figure 7 : Distribution of Nigerian OPL by Contract Type

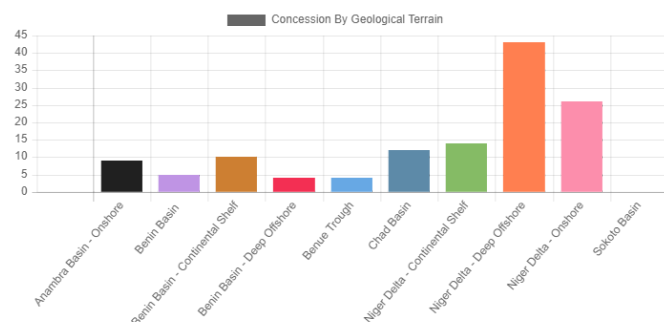


Figure 8 : Distribution of Nigerian OPL by Geological Terrain

Table 4: 2019 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
1	Niger Delta (Onshore)	13	56	5	74
2	Niger Delta (Continental Shelf)	12	37	6	55
3	Niger Delta (Offshore)	19	18	58	95
4	Benin	3	1	6	10
5	Anambra	6	1	12	19
6	Sokoto	0	0	28	28
7	Chad	6	0	40	46
8	Bida	0	0	17	17
9	Benue	2	0	41	43
TOTAL		61	113	213	387

Figure 6: Concession Map showing Open Blocks & PGS 3D Seismic



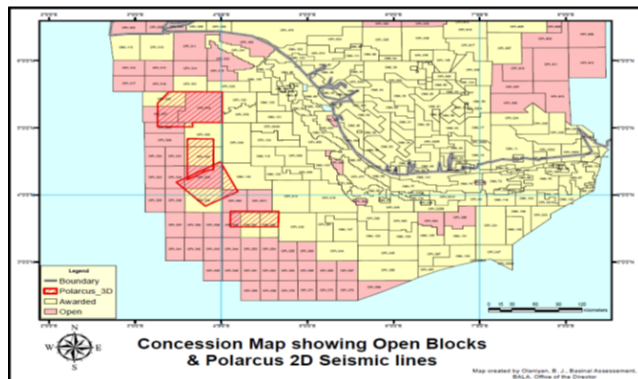
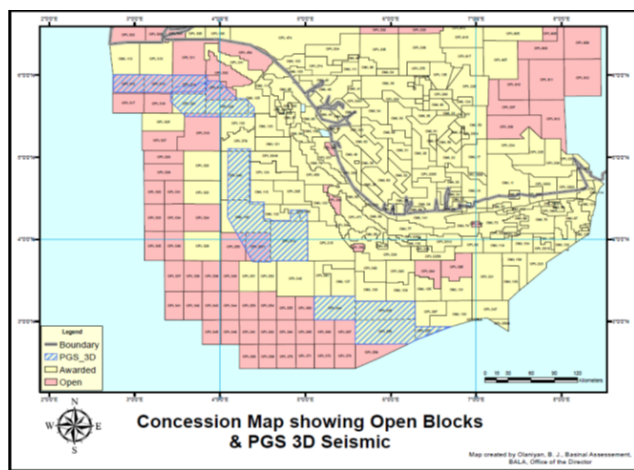


Figure 7: Concession Map showing Open Blocks & Polarcus 2D Seismic Lines

Table 5: 2019 List of Marginal Fields

#	Field Name	Company Name	Block
1	EKPE	NIGER DELTA PET. RESOURCES LTD	OML 54
2	AKUKU	NIGER DELTA PET. RESOURCES LTD	OML 53
3	OKWOK	PRIME EXPLORATION	OML 11
4	OKWOK	Suffolk Petroleum Limited	OML 11
5	JO	Suffolk Petroleum Limited	OML 67
6	AKPOR	Suffolk Petroleum Limited	OML 67
7	OMA	UNIVERSAL ENERGY	OML 13
8	KK SOUTH	EURAFRIC ENERGY LIMITED	OML 54
9	ORIOMU	PILLAR OIL LTD	OML 56
10	OKPOKO	BAYELSA OIL COMPANY LTD	OML 46
11	SANTA BARBARA AYNO	MOVIDO E&P LIMITED	OML 88
12	ERONG	BICTA ENERGY & MANAGEMENT SYSTEMS LIMITED	OML 90
13	OGEDEH	GUARANTEE PETROLEUM LIMITED (OPERATOR)	OML 95
14	OGEDEH	OWENA OIL AND GAS	OML 95
15	AGWE	PLATFORM PETROLEUM	OML 38
16	OZA	CHORUS ENERGY LIMITED	OML 56
17	AFAM	SOGENAL LIMITED	OML 90
18	FIOM	MILLENNIUM OIL AND GAS LIMITED	OML 11
19	YOMENE	BRITANNIA-U	OML 90
20	OGBELLE	NETWORK E&P NIGERIA	OML 13
21	MOYOM	WALTERSMITH PETROMAN OIL LIMITED	OML 16
22	MOYOM	Morris Petroleum LimitedLimited	OML 16
23	ERINMI	MIDWESTER OIL AND GAS CO. LTD	OML 56
24	ERINMI	Suntrust Oil Company Limited	OML 56
25	UGANGA	INDEPENDENT ENERGY LIMITED	OML 30
26	UZERE EAST	DEL SIGMA	OML 55
27	ETAN	ASSOCIATED OIL AND GAS LIMITED (OPERATOR)	OML 14
28	ETAN	Dansaki	OML 14
29	AIYETORO	FRONTIER OIL LTD.	OML 13
30	AMENAM-KPONO	ENERGIA LTD.	OML 56



#	Field Name	Company Name	Block
31	AMENAM-KPONO	OANDO PLC	OML 56
32	AWODI	GOLAND PETROLEUM DEV. CO. LIMITED	OML 88
33	ESEPE	EXCEL EXPLORATION & PRODUCTON LIMITED	OML 46
34	TEBIDABA EAST	SAHARA ENERGY LIMITED (OPERATOR)	OML 40
35	TEBIDABA EAST	African Oil & Gas Company Limited	OML 40
36	OFU	GREEN ENERGY INTERNATIONAL LIMITED	OML 11
37	IWEWORO	ALL GRACE ENERGY LIMITED	OML 17

**Table 6: Oil and Condensates Reserves**

Year	Oil (MMbbls)	Condensate (MMbbls)	(Oil + Condensate) (MMbbls)
2010	31,219.00	5,311.97	36,530.97
2011	31,169.61	5,077.48	36,247.09
2012	32,233.24	4,895.50	37,128.74
2013	31,813.52	5,257.32	37,070.84
2014	30,789.75	5,578.34	36,368.09
2015	31,643.79	5,418.16	37,061.95
2016	31,271.77	5,467.41	36,739.18
2017	31,419.71	5,552.20	36,971.91
2018	31,668.11	5,334.36	37,002.47
2019	31,417.74	5,475.81	36,893.55

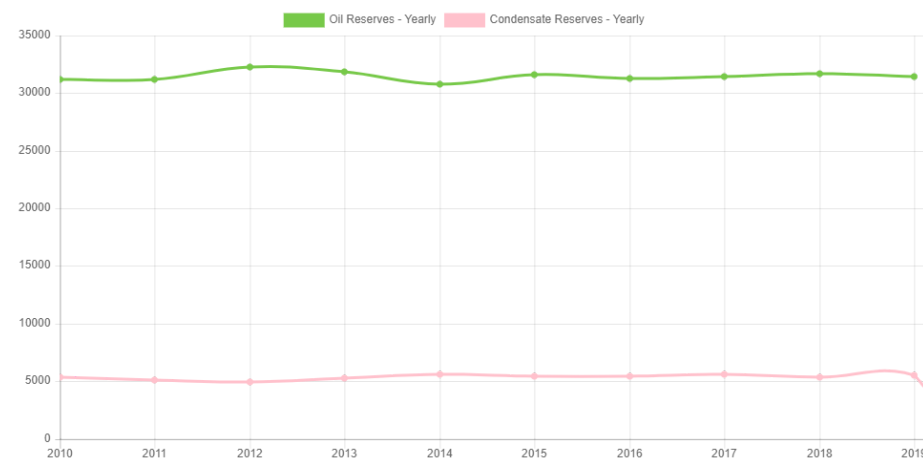


Figure 9 : Oil Reserves By Year

**Table 7: 2019 Nigeria Oil & Condensate Reserves Distribution on Contract Basis**

Contract Type	Oil (MMbbls)	Condensate (MMbbls)	Total (MMbbls)
Sole Risk (SR)	5,269.06	470.53	5,739.59
Marginal (MF)	642.61	53.29	695.90
Joint Venture (JV)	17,186.69	4,410.59	21,597.28
Production Sharing Contract (PSC)	8,319.38	541.40	8,860.78
<b>Total</b>	<b>31,417.74</b>	<b>5,475.81</b>	<b>36,893.55</b>

**Table 8: 2019 Nigeria Oil & Condensate Reserves Distribution on Terrain Basis as at 31 December**

Terrain	Oil (MMbbls)	Condensate (MMbbls)	Total (MMbbls)
Land	15,239.72	3,840.82	19,080.54
Shallow Offshore	3,963.50	491.38	4,454.88

Terrain	Oil (MMbbl)	Condensate (MMbbl)	Total (MMbbl)
Deep Offshore	4,324.00	81.00	4,405.00
Swamp	7,627.16	1,062.61	8,689.77
<b>Total</b>	<b>31,154.38</b>	<b>5,475.81</b>	<b>36,630.19</b>

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

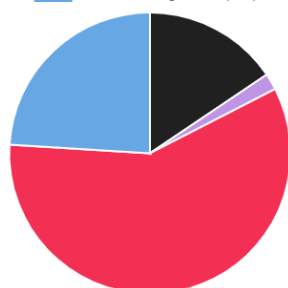


Figure 10 : Oil & Condensate Reserves Distribution on Contract

■ Land 
 ■ Shallow Offshore 
 ■ Deep Offshore 
 ■ Swamp

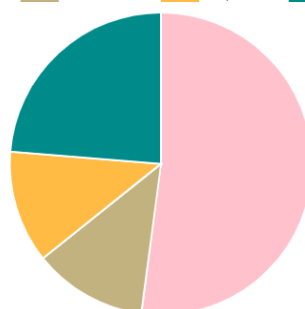


Figure 11 : Oil & Condensate Reserves Distribution on Terrain

**Table 9: 2019 Oil Reserves Net Addition, Depletion Rate and Life Index on Contract Basis**

Contract Type	Prev Year Reserve	Curr Year Reserve	Production, Million Barrels	Net Addition (Crude Oil), Million Barrels	% Net Addition	Depletion Rate, %	Life Index, Years
Sole Risk (SR)	5,934.37	5,739.59	48,103.89	-194.78	-3.39	838.11	0.12
Marginal (MF)	595.51	695.90	0.00	100.39	14.43	0.00	0.00
Joint Venture (JV)	21,720.91	21,597.28	322,742.01	-123.63	-0.57	1,494.36	0.07
Production Sharing Contract (PSC)	8,751.68	8,860.78	198,958.19	109.10	1.23	2,245.38	0.04
<b>Total</b>	<b>37,002.47</b>	<b>36,893.55</b>	<b>569,804.09</b>	<b>-108.92</b>	<b>11.69</b>	<b>4,577.85</b>	<b>0.06</b>

#### A. Net Addition To Reserves On Contract Basis and National Perspective i. National Perspective

The net addition to the Nation's 2P Oil and Condensate reserves volumes based on an annual production of 754.62 MMB is 30.19 MMB. This shows a positive net addition to the Nation's reserves of about 0.08%. The increase in reserves is attributed mainly to an upward revision to reserves from studies in the International JV, PSC and Indigenous JV/SR contract types and reporting of Owowo and Preowei field reserves.

##### ii. Joint Venture

The International Joint Venture companies recorded an increase in the net addition to 2P oil and condensate reserves of about +46.21 MMB which accounts for a positive net addition of about 0.3%. This increase can be attributed to an upward revision of reserves from studies carried out by SPDC and NAOC. Mobil, Chevron, and Total recorded a downward revision in the net addition to oil and condensate reserves. This was largely attributed to production and revisions based on production/reservoir performance and studies.

##### iii. Production Sharing

The Production Sharing Contract companies documented an increase in the net addition to 2P oil and condensate reserves of about +297.43 MMB which accounts for a positive net addition of about 3.5%. Major contributors to this increase are the inclusion of Owowo and Preowei field reserves in the report submission of Esso and TUPNI respectively. Enageed, StarDeep and SNEPCo recorded a downward revision in their net addition to 2P oil and condensate reserves. This was largely attributed to production and revisions based on studies.

##### iv. Sole Risk

The analysis of Indigenous JV and Sole Risk company's contribution showed a decrease in the net addition to 2P oil and condensate reserves of about -340.54 MMB which accounts for a negative net addition of about -3.3%. The negative net addition was due to revisions, studies, and production. This negative addition is due mainly to disparity in the reserves figure for OML 42 as reported by Neconde and NPD C. Although the reserves for OML 42 in our database prior to this disparity was as quoted by Neconde. However Emerald and Consolidated Oil recorded an upward revision in the 2P oil and condensate reserves. This was largely attributed to production and revisions based on studies.

##### v. Marginal Field Operators

The Marginal Field operators recorded an increase in the net addition to 2P oil and condensate reserves of about +27.09 MMB which accounts for a positive net addition of about 4.8%. This increase can be attributed to an upward revision of reserves from studies carried out by Green Energy, Midwestern and reserves data for fields in the Marginal Field basket.

#### B. Reserves Depletion Rate And Life Index on Contract Basis and National Perspective i. National Perspective

The reserves depletion rate is a measure (percentage) of 2018 total oil and condensate production divided by the reserves as of January 1, 2019. This indicator gives a bird's eye on an annual basis, what percentage proportion of the quoted reserves was produced.

The life index, on the other hand, is a measure of the reserves as of January 1, 2019, divided by the total production in 2018. This parameter highlights how long (in years) quoted reserves volumes will be available for production.

The Nation's depletion rate and life index are 2.04% and 49.03 years respectively. These parameters lie within the long-term range. However, to achieve the aspiration of the Federal government of 4MMBOPD daily production and reserves of 40MMMB, there is the need for corresponding increase in reserves as production is increases, otherwise, the life index will fall from a sustainable long-term threshold to a less futuristic and sustainable medium to short term range.

**ii. Joint Venture** The Joint Venture Operators, despite having the highest production (about 41.64%) among all the contract types, recorded a low depletion rate of about 1.8% and high life index of 56.34 years.

##### iii. Production Sharing

The Production Sharing Contract companies had the highest depletion rate of 3.10% and the lowest life index of 32.15 years, while accounting for about 36.08% of the Nation's total production. It is obvious from Table 5 that PSC Companies have the highest depletion rate and lowest life index when compared to the other contract regimes. Perhaps, the Companies may have taken advantage of the poor government take in the Deep Offshore terrain to deplete the reserves there-in with little regard for long term sustainable production as amplified by the life index.

##### iii. Sole Risk

The Sole Risk Companies had the lowest depletion rate of 1.5% and invariably the highest life index of 65.49 years. These companies accounted for about 20.14% of the Nation's total production in 2018. This depletion

rate does not reflect the fact these companies hold the second-largest reserves of about 26.90%.

#### iv. Marginal Field Operators

The Marginal field Companies produced about 2.14% of the Nation's total production in the year 2018. The depletion rate was about 2.7%, with a life index of 36.83 years and a National reserves portfolio of 1.61%. The reserves hold a potential for production that lies within the medium-term range.

#### v. "Unhealthy Companies" - Life Index Less Than Fifteen Years

About nine (9) operating Companies have oil and condensate life index of less than fifteen years. The statistics paint a very gloomy picture for these companies and urgent steps will be taken to address this observed trend. The Department is engaging the Companies to review their strategic plan to guarantee future reserves growth in order for them to remain in business.

#### A. Reserves Replacement Rate (RRR)

The reserves replacement ratio/rate is a measure of the number of reserves added to the company's / Nation's reserves base during the year relative to the amount of oil produced. This is calculated by weighing the ratio of net additions to reserves against total production for the year and is used to judge the operating performance of the exploration and production industry. An RRR that is consistently over 100% is ideal as it indicates that more reserve is being replaced than is produced.

Table 6 shows an RRR of over 100% for the PSC and Marginal field contract type, the JV contract type had a positive RRR calculated at 14.71% while the Sole Risk had a negative RRR of -224.09%.

As of January 1, 2019, the RRR for Nigeria's Oil and Condensate reserves stood at 4.00%. Though this shows a positive RRR, it is not an impressive performance as just 4% of the 2018 annual production was replaced via net addition to reserves. The ideal scenario is when we have a 100% RRR, i.e replace reserves at the same production rate. Table 7 below shows a nine-year trend of National RRR figures.

**Table 10: 2019 Reserves Replacement Rate (RRR) on Contract Basis**

Contract Type	Oil & Condensates Reserves as at 1/1 2020	Oil & Condensates Reserves as at 1/1 2019	2019 Oil & Condensates Production, MMB	Net Addition to Oil & Condensate Reserves, MMB	Reserves Replacement Rate, %
Sole Risk (SR)	5,739.59	5,934.37	48,103.89	-194.78	-0.40
Marginal (MF)	695.90	595.51	0.00	100.39	0.00
Joint Venture (JV)	21,597.28	21,720.91	322,742.01	-123.63	-0.04
Production Sharing Contract (PSC)	8,860.78	8,751.68	198,958.19	109.10	0.05
<b>Total (National)</b>	<b>36,893.55</b>	<b>37,002.47</b>	<b>569,804.09</b>	<b>-616.11</b>	<b>-0.11</b>

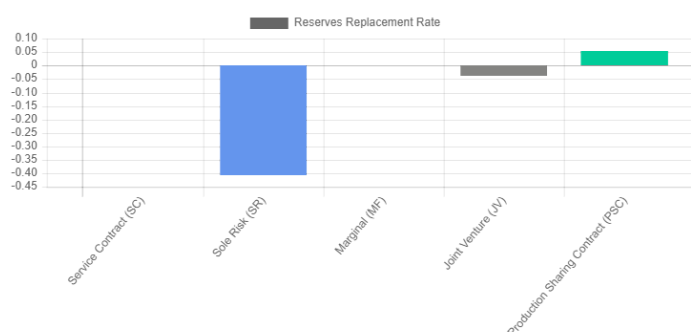


Figure 12 : Reserves Replacement Rate (RRR)

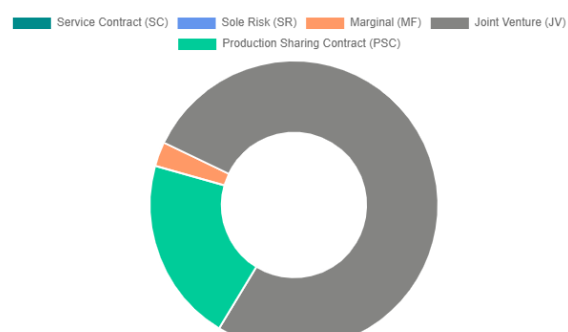


Figure :

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

Year	Oil & Condensate Production, MMB	Reserves Replacement Rate, % Barrels
01/Jan/2011	921.27	25.76%
01/Jan/2012	910.77	2.79%
01/Jan/2013	925.50	68.13%
01/Jan/2014	851.63	17.70%
01/Jan/2015	808.68	46.79%
01/Jan/2016	867.03	-44.54%
01/Jan/2017	801.43	-40.29%
01/Jan/2018	733.98	31.71%
01/Jan/2019	754.62	4.00%
01/Jan/2020	569,804.09	-0.11%

The national gas reserves stood at 200.79 TCF as at January 01, 2019 with an Associated Gas (AG) and Non-Associated Gas (NAG) reserves split of 101.98 TCF and 98.81 TCF respectively based on aggregated Reserves report from E&P companies. With a 2018 gas annual production of 2.18 TCF, the gas Reserves Life Index (RLI) is 92 years. Ok

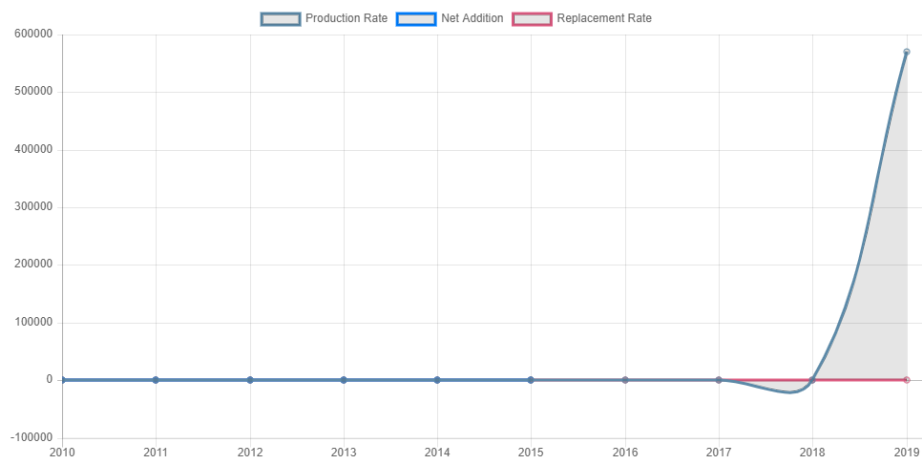


Figure 13 : Net Reserve Addition, Production & RRR Ten Year Trend

Table 12: 2019 Gas Reserves Life Index and Ratio

Contract Type	Prev Reserve (Bscf)	Curr Reserve (Bscf)	Production (Bscf)	Net Addition - Gas Reserve (Bscf)	% Net Addition	Depletion Rate, %	Life Index, Years
Service Contract (SC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sole Risk (SR)	0.00	33,400.75	4,548.71	33,400.75	100.00	13.62	7.34
Marginal (MF)	0.00	0.00	971.55	0.00	0.00	0.00	0.00
Joint Venture (JV)	0.00	39,858.20	14,601.11	39,858.20	100.00	36.63	2.73
Production Sharing Contract (PSC)	0.00	20,448.56	4,333.42	20,448.56	100.00	21.19	4.72
<b>Total</b>	<b>0.00</b>	<b>203,163.50</b>	<b>2,874.51</b>	<b>203,163.50</b>	<b>100.00</b>	<b>1.41</b>	<b>70.68</b>

Table 13: Natural Gas Reserves

Year	Associated Gas (Bcf), as at Dec 2019	Non Associated Gas (Bcf), as at Dec 2019	Total Gas (Bcf), as at Dec 2019
2019	100,691.57	102,471.93	203,163.50

Total Gas Reserves as at 1-Jan-2019 vs 1-Jan-2020

Natural Gas Reserves

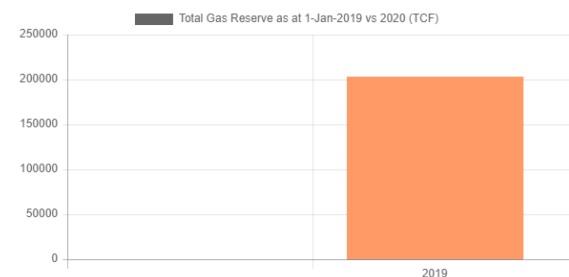


Figure 14 : Total Gas Reserves

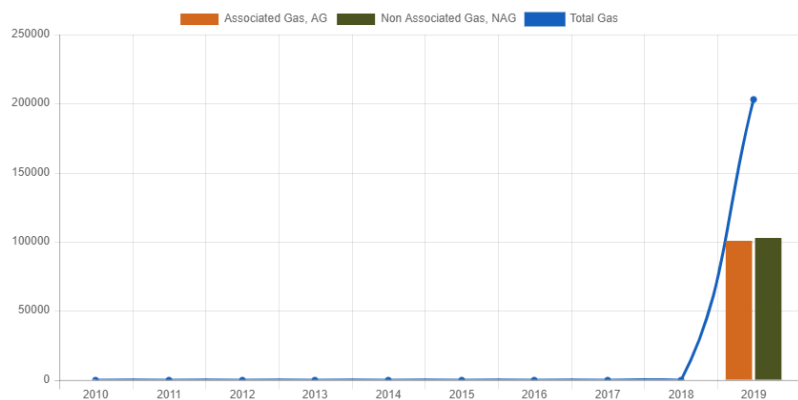


Figure 15 : Natural Gas Reserves Yearly Trend

Table 14: Seismic Data Acquisition

Year	Type	Land	Shallow Offshore	Deep Offshore	Total
2010	3-D, Sq.Km	1,300.94	841.28	2,672.79	4,815.01

2011	3-D, Sq.Km	688.27	1,406.02	0.00	2,044.29
2012	3-D, Sq.Km	2,963.00	568.24	2,592.29	6,123.53
2013	3-D, Sq.Km	1,588.08	1,690.24	961.81	4,240.13
2014	3-D, Sq.Km	804.35	2,833.03	572.00	4,209.38
2015	3-D, Sq.Km	675.80	775.50	455.51	1,906.81
2016	3-D, Sq.Km	138.50	156.00	0.00	294.50
2017	3-D, Sq.Km	775.61	735.28	887.10	2,397.99
2019	3-D, Sq.Km	531.00	2,222.00	312.00	3,065.00

**Table 15: 2019 Approved Field Development Plans**

#	Company	Field	Anticipated Production Rate (Bopd/MMscf/d)	Expected Reserves (MMSTB/BSCF)	Commencement Date	Remarks/Status
1	AITEO E&P CO	UMUOWA	23	43	64	Approved
2	NIGER DELTA PET. RESOURCES LTD	FORCADOS SOUTH-WEST	23	43	64	Approved
3	MONI PULO LTD	OMOKU-WEST	33	23	44	Approved
4	MONI PULO LTD	SAGHARA	21	90	44	Approved
5	ALLIED ENERGY RESOURCES NIGERIA LTD	OTOVO	46	67	241	Approved

**Table 16: Number of Wells drilled by Terrain**

Year	Land / Swamp	Shallow Offshore	Deep Offshore	Total
2013	42	35	68	145
2019	2	3	6	11

**Table 17: 2019 Wells Drilled by Contract and Class**

Contract	Exploratory	Appraisal(1st & 2nd)	Ordinary Appraisal	Development	Total
SC	0	0	0	0	0
SR	0	1	0	0	1
MF	0	0	0	0	0
JV	0	0	1	0	1
PSC	3	3	1	2	9
Total	3	4	2	2	11

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

Year	Exploratory	Appraisal(1st & 2nd)	Ordinary Appraisal	Development	Total
2013	23	68	19	35	145
2019	3	4	2	2	11

**Table 19: 2019 Wells Completed**

Type of Contract	Total
Service Contract (SC)	0
Sole Risk (SR)	5
Marginal (MF)	0
Joint Venture (JV)	10
Production Sharing Contract (PSC)	14
Total	29

**Table 20: 2019 Approved Non-Associated Gas - NAG Development Plans**

#	Company	Block	FDP	Gas Reserves (BSCF)	Condensate(MMSTB)	Gas Off-Take Rate (MMSCFD)
1	SHELL PETROLEUM DEVELOPMENT CO.	OML95	SOKU DCOO	450.00	0.00	200.00
2	SUNLINK PETROLEUM	OML58	IKONG	219000.00	16.95	435.00

**Table 21: 2019 Approved Associated Gas - AG Development Plans**

#	Company	Block	FDP	AG Reserves, Bscf	Gas Off-Take Rate (MMSCFD)
1	Techno Oil Limited	OML40	BENTU	29.80	
2	NIGERIA AGIP OIL COMPANY	OML61	ATALA	181.86	
3	NIGERIA AGIP OIL COMPANY	OML61	SAKIRI	555.14	
4	AMNI INTERNATIONAL DEVELOPMENT CO.		TORIYE	59.00	
5	MOBIL PRODUCING NIGERIA UNLTD		MALU	73.16	
6	MOBIL PRODUCING NIGERIA UNLTD		FRAGBENE	228.90	
7	CHEVRON NIGERIA LTD.	OML49	BOMADI	309.20	
8	MONI PULO LTD	OPL276/OML114	HERWA	26.48	
9	CHEVRON NIGERIA LTD.	OML95	ONIKU SOUTH	9.34	
10	CHEVRON NIGERIA LTD.	OML95	M'BEDE	59.90	
11	GREEN ENERGY INTERNATIONAL LIMITED	OML11	OFU	16.90	
12	ADDAX EXPLORATION		BENISEDE	17.50	
13	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEPKO)		PEGI	26.94	
14	CHEVRON NIGERIA LTD.	OML90	OBUSOUTH-WEST	7.54	
15	BRITANIA-U		YOMENE	46.00	
16	CHEVRON NIGERIA LTD.	OML11	UKOT	123.23	
17	NIGERIA AGIP OIL COMPANY		UTAI	235.01	
18	NIGERIA AGIP OIL COMPANY	OML61	IDU	589.50	
19	NIGERIAN AGIP OIL COMPANY	OML61	ATALA	329.63	
20	NIGERIA AGIP OIL COMPANY	OML61	AGBADA	155.49	
21	NIGERIA AGIP OIL COMPANY	OML60	ANJO	413.05	
22	NIGERIA AGIP OIL COMPANY	OML61	EKIKO	1286.13	
23	INDEPENDENT ENERGY LIMITED	OML130	AKUBA	1234.00	
24	DUBRI OIL COMPANY	OML100	BOPO	983.00	
25	TOTAL E&P	OML156	OTAKIKPO SOUTH	23.00	
26	FIRST ARIES PETROLEUM LTD.	OML26	LEE	134.00	
27	AITEO E&P CO	OML42	MFAMFA	2360.00	
28	SHELL PETROLEUM DEVELOPMENT CO.	OML28	AZEGBENE	2410.80	
29	NIGERIA AGIP OIL COMPANY	OML141	MBARA	1569.30	
30	SHELL PETROLEUM DEVELOPMENT CO.	OML17	BELLA	852.00	
31	DUBRI OIL COMPANY	OML38	TAPA	50.00	
32	HERITAGE OIL & GAS CO. LTD.		IGUELEBON	28.40	

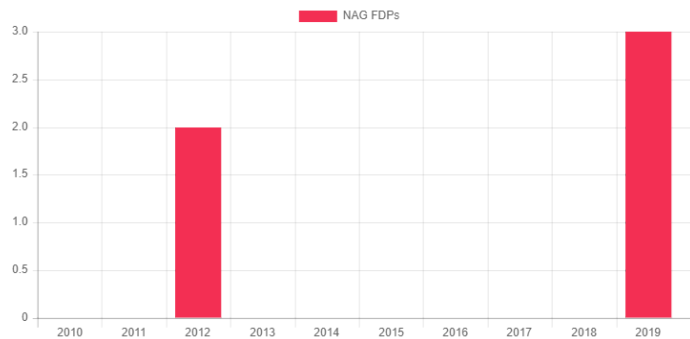


Figure 16 : Approved NAG Field Development Plans

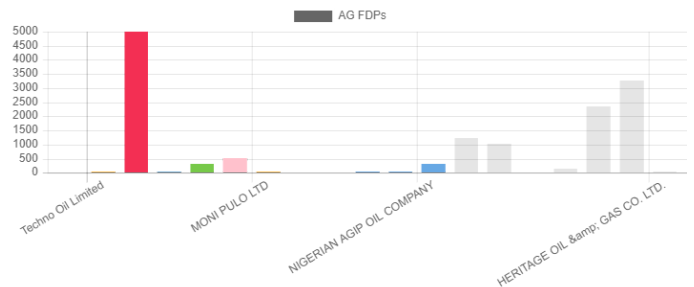


Figure 17 : Approved AG Field Development Plans

**Table 22: 2019 New Drill Gas Appraisal/ Development Wells**

#	Company	Block/Field	Wellname/Status	Terrain	Reserves, Bscf	Off-Take (MMScf/d)
1	MOBIL PRODUCING NIGERIA UNLTD	OML70 /OBU SOUTH-WEST	Okan-90		178.00	30

#	Company	Block/Field	Wellname/Status	Terrain	Reserves, Bscf	Off-Take (MMScf/d)
2	SHELL PETROLEUM DEVELOPMENT CO.	OML11 /ZABAZABA	Anieze-G2		211.39	
3	SHELL PETROLEUM DEVELOPMENT CO.	OML11 /ZABAZABA	Anieze NW-G1		60.28	
4	MOBIL PRODUCING NIGERIA UNLTD	OML67 /EBOOK	Oben IUKA-03 ST		70.50	40
5	SHELL NIG. E&P CO. (SNEPCO)	OML118 /BONGA-NORTHWEST	AN-OS H1D4		695.40	130
6	SHELL NIG. E&P CO. (SNEPCO)	OML118 /BONGA-NORTHWEST	AN-OS H4D1		152.00	70
7	SHELL PETROLEUM DEVELOPMENT CO.	OML46 /ATALA	Isoko South 2ST		48.29	25
8	SHELL PETROLEUM DEVELOPMENT CO.	OML46 /ATALA	Isoko South-4ST2		21.76	20
9	MOBIL PRODUCING NIGERIA UNLTD	OML67 /EKIKO	Obiafu-41ST		489.46	
10	MOBIL PRODUCING NIGERIA UNLTD	OML70 /OBU SOUTH-WEST	Okan-90		178.00	30
11	SHELL PETROLEUM DEVELOPMENT CO.	OML11 /ZABAZABA	Anieze-G2		211.39	
12	SHELL PETROLEUM DEVELOPMENT CO.	OML11 /ZABAZABA	Anieze NW-G1		60.28	
13	MOBIL PRODUCING NIGERIA UNLTD	OML67 /EBOOK	Oben IUKA-03 ST		70.50	40
14	SHELL NIG. E&P CO. (SNEPCO)	OML118 /BONGA-NORTHWEST	AN-OS H1D4		695.40	130
15	SHELL NIG. E&P CO. (SNEPCO)	OML118 /BONGA-NORTHWEST	AN-OS H4D1		152.00	70
16	SHELL PETROLEUM DEVELOPMENT CO.	OML46 /ATALA	Isoko South 2ST		48.29	25
17	SHELL PETROLEUM DEVELOPMENT CO.	OML46 /ATALA	Isoko South-4ST2		21.76	20
18	MOBIL PRODUCING NIGERIA UNLTD	OML67 /EKIKO	Obiafu-41ST		489.46	

**Table 23: 2019 Approved Gas Well Initial Completion**

#	Company	Block/Field	Well/Status	Reserves, Bscf	Off-Take (MMScf/d)	Processing Facility
1	MOBIL PRODUCING NIGERIA UNLTD	OML70 / OBU SOUTH-WEST	Okan-90	178.00	30	N/A
2	SHELL PETROLEUM DEVELOPMENT CO.	OML11 / ZABAZABA	Anieze-G2	211.39		N/A
3	SHELL PETROLEUM DEVELOPMENT CO.	OML11 / ZABAZABA	Anieze NW-G1	60.28		N/A
4	MOBIL PRODUCING NIGERIA UNLTD	OML67 / EBOOK	Oben IUKA-03 ST	70.50	40	N/A
5	SHELL NIG. E&P CO. (SNEPCO)	OML118 / BONGA-NORTHWEST	AN-OS H1D4	695.40	130	N/A
6	SHELL NIG. E&P CO. (SNEPCO)	OML118 / BONGA-NORTHWEST	AN-OS H4D1	152.00	70	N/A
7	SHELL PETROLEUM DEVELOPMENT CO.	OML46 / ATALA	Isoko South 2ST	48.29	25	N/A
8	SHELL PETROLEUM DEVELOPMENT CO.	OML46 / ATALA	Isoko South-4ST2	21.76	20	N/A
9	MOBIL PRODUCING NIGERIA UNLTD	OML67 / EKIKO	Obiafu-41ST	489.46		N/A

**Table 24: 2019 Approved Gas Wells Work-Over Operations**

#	Company	Block	Well Name	Processing Facility
1	SHELL PETROLEUM DEVELOPMENT CO.	OML22	Test Well	Imo River 2 FS Booster compressor station
2	CONSOLIDATED OIL COMPANY LIMITED	OML103	Abiteye-27ST	Agbada AGG Plant
3	SHELL PETROLEUM DEVELOPMENT CO.	OML28	EDA Welll	Alakiri NAG Plant

**Table 25: 2019 Rig Disposition by Terrain from January to December**

Terrain	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Land	10	10	20	0	10	10	10	0	10	20	10	3
Land	10	5	0	0	0	0	0	0	0	0	0	0
Shallow Offshore	20	8	0	0	10	10	10	0	10	6	20	3
Deep Offshore	9	8	0	0	10	10	10	4	3	6	20	3
Swamp	20	10	10	0	10	10	10	0	30	20	10	3
Total	69	41	30	0	40	40	40	4	53	52	60	12

**Table 26: Active Rigs by Terrain**

Year	Land / Swamp	Shallow Offshore	Deep Offshore	Total
2012	3	3	3	9.00
2019	6	3	3	12.00



Table 27: 2019 Fields Summary

#	Company	Contract Type	Producing Field	Well Name	String Name
1	AITEO E&P CO	Sole Risk (SR)	4	2	1
2	NIGER DELTA PET. RESOURCES LTD	Service Contract (SC)	1	1	1
3	MONI PULO LTD	Service Contract (SC)	11	1	1
4	MONI PULO LTD	Sole Risk (SR)	6	1	3
5	ALLIED ENERGY RESOURCES NIGERIA LTD	Sole Risk (SR)	9	2	2

Table 28: 2019 Production Performance

#	Company	Contract	Terrain	Annual Prod (Bbls)	Daily Ave (Bopd)	% Prod
1	CHEVRON NIGERIA LTD.		Swamp / Shallow Offshore / Land	62,202,068.00	170,416.62	8.08
2	CONOIL PRODUCING LTD		Swamp	2,019.00	5.53	0.00
3	CONTINENTAL OIL AND GAS LTD.	Joint Venture (JV)	Swamp / Deep Offshore / Land	25,331,245.00	69,400.67	3.29
4	AGIP ENERGY & NATURAL RESOURCES (AENR)	Service Contract (SC)	Deep Offshore	1,215,201.00	3,329.32	0.16
5	AMNI INTERNATIONAL DEVELOPMENT CO.		Shallow Offshore	6,013,320.00	16,474.85	0.78
6	ATLAS PETROLEUM INTERNATIONAL LTD		Shallow Offshore	2,019.00	5.53	0.00
7	ADDAX EXPLORATION		Shallow Offshore / Land	9,396,172.00	25,742.95	1.22
8	ALLIED ENERGY RESOURCES NIGERIA LTD		Deep Offshore	2,019.00	5.53	0.00
9	MONI PULO LTD		Shallow Offshore	719,424.00	1,971.02	0.09
10	STERLING OIL EXP&ENERGY PROD. CO. LTD (SEEP CO)	Sole Risk (SR)	Land	15,178,681.00	41,585.43	1.97
11	SHELL PETROLEUM DEVELOPMENT CO.	Joint Venture (JV)	Land / Swamp / Shallow Offshore	99,922,788.00	273,761.05	12.97
12	TENOIL PET. & ENERGY SERVICES LTD.CLAYFORD	Joint Venture (JV)	Land	975,258.00	2,671.94	0.13
13	NIGERIAN AGIP OIL COMPANY	Joint Venture (JV)	Land / Deep Offshore / Shallow Offshore	31,937,214.00	87,499.22	4.15
14	SEPLAT PRODUCTION AND DEV. CO.	Joint Venture (JV)	Land / Swamp / Shallow Offshore	1,277,137.00	3,499.01	0.17
15	NNPC.FES		Swamp / Land / Shallow Offshore	28,445,141.00	77,931.90	3.69
16	MOBIL PRODUCING NIGERIA UNLTD		Shallow Offshore / Land	75,664,444.00	207,299.84	9.82
17	NEWCROSS E&P CO		Shallow Offshore / Land	6,078,423.00	16,653.21	0.79
18	EXPRESS PET AND GAS CO LTD	Joint Venture (JV)	Land	47,305.00	129.60	0.01
19	NIGERIAN PET DEV CO. (NPDC)	Joint Venture (JV)	Land / Shallow Offshore	5,257,005.00	14,402.75	0.68
20	YINKA FOLAWIYO PET CO LTD	Joint Venture (JV)	Deep Offshore	892,845.00	2,446.15	0.12
21	NPDC/FIRST HYDROCARBON NIG.		Land	2,669,018.00	7,312.38	0.35
22	NPDC/ SHORELINE NATURAL RESOURCES		Land	19,788,142.00	54,214.07	2.57
23	NPDC/ ELCREST E&P NIG LTD		Land	7,640,083.00	20,931.73	0.99
24	TOTAL E&P	Sole Risk (SR)	Land / Shallow Offshore	51,738,361.00	141,748.92	6.72
25	NPDC/ NECONDE ENERGY LTD	Joint Venture (JV)	Land	6,521,022.00	17,865.81	0.85
26	STAR DEEPWATER	Sole Risk (SR)	Deep Offshore	60,657,964.00	166,186.20	7.88
27	OPEN ACREAGE		Land / Shallow Offshore	69,834,264.00	191,326.75	9.07
28	DUBRI OIL COMPANY	Joint Venture (JV)	Land	75,263.00	206.20	0.01
29	SOUTH ATLANTIC PETROLEUM LIMITED		Deep Offshore	87,318,693.00	239,229.30	11.34
30	ESSO EXPLORATION		Deep Offshore	32,648,662.00	89,448.39	4.24
31	SHELL NIG. E&P CO. (SNEPCO)		Deep Offshore / Land	57,032,318.00	156,252.93	7.41
32	PANOCEAN OIL CORPORATION NIG		Land	815,698.00	2,234.79	0.11
33	EMERALD ENERGY RESOURCES LIMITED		Land / Shallow Offshore	2,869,309.00	7,861.12	0.37
34	NIGER DELTA WESTERN LIMITED	Joint Venture (JV)	Land	2,019.00	5.53	0.00
Total				770,170,544.00	2,110,056.28	100.0%

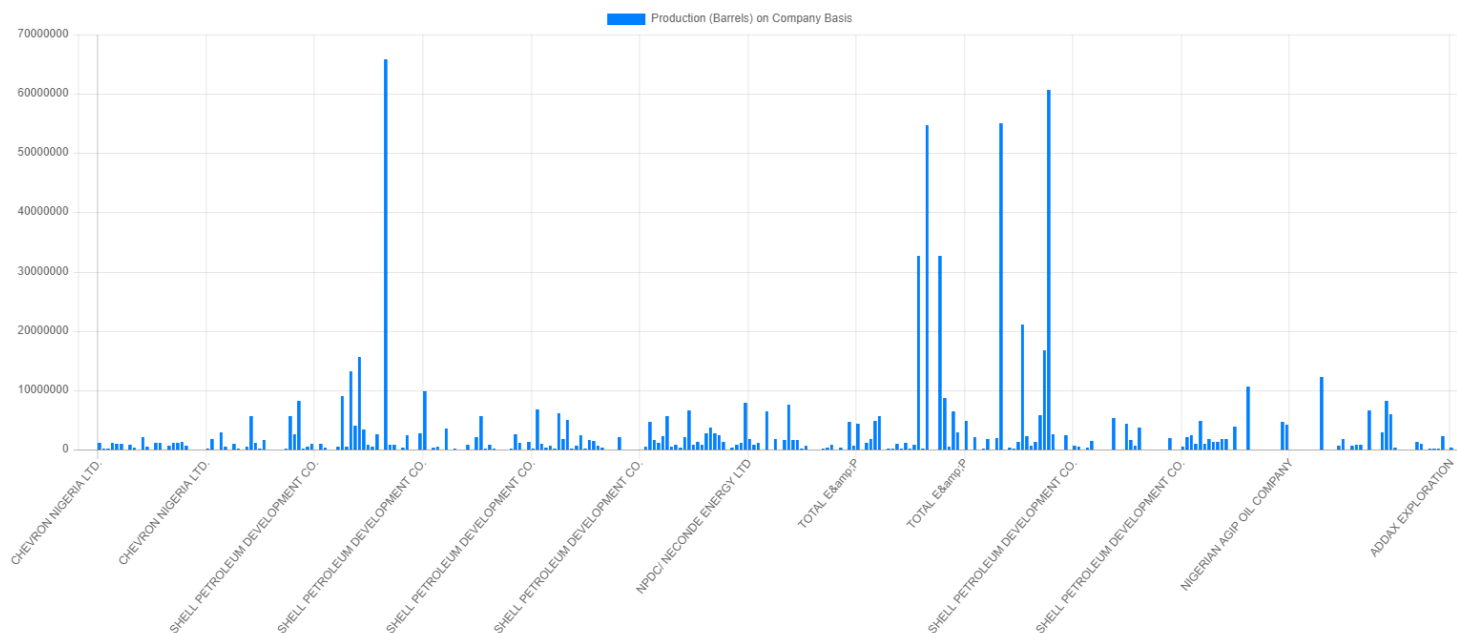


Figure 18 : Oil Production on Company Basis  
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Table 29: 2019 Monthly Production (Provisional)

Month	Production (Bbls)	Average Daily Production (Bopd)
January	68,511,619.00	2,210,052.23
February	63,935,244.00	2,283,401.57
March	72,258,199.00	2,330,909.65
April	68,881,391.00	2,296,046.37
May	68,381,478.00	2,205,854.13
June	72,793,308.00	2,426,443.60
July	74,817,617.00	2,413,471.52
August	73,209,343.00	2,361,591.71
September	68,399,937.00	2,279,997.90
October	71,525,187.00	2,307,264.10
November	66,825,274.00	2,227,509.13
December	70,420,742.00	2,271,636.84
Total Annual Production (Bbls)	839,959,339.00	
Average Annual Daily Production (bopd)		2,110,056

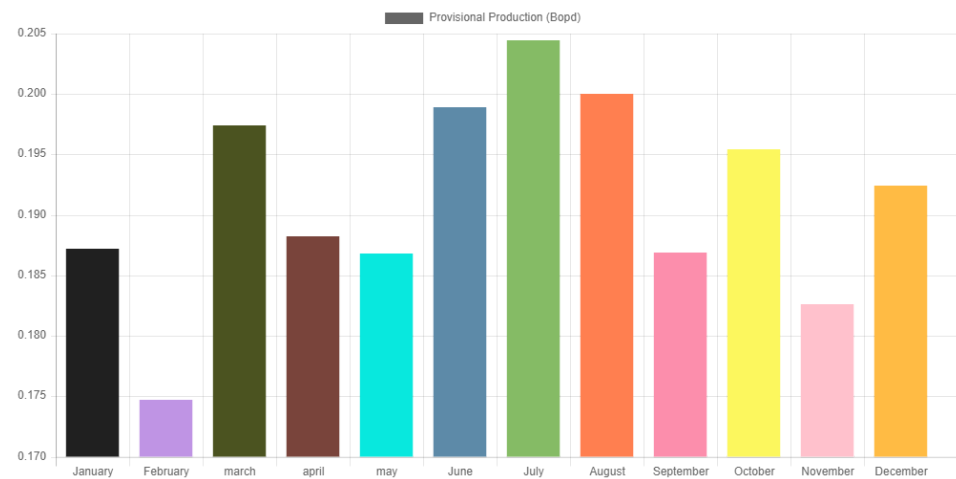


Figure 19 : Provisional Production, BOPD

**Table 30: 2019 Production by Contract**

Contract Type	Production, Bbls	Average Production, Bopd	Production Percentage, %
Joint Venture, JV	107580070.00	294739.90	53 %
Production Sharing Contract, PSC	3125182.00	8562.15	2 %
Sole Risk, SR	88229182.00	241723.79	43 %
Service Contract	0	0	0 %
Marginal Field Operators, MF	4041197.00	11071.77	2 %

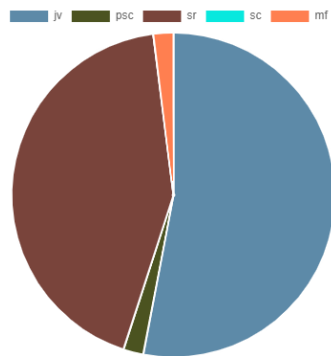


Figure 20 : Percentage Distribution of Production (Bopd)

**Table 31: 2019 Summary of Production Deferments**

Deferments		
Month	Cumulative Production (Bbls)	Daily Production (Bopd)
January	762836	24607.61
February	481651	15537.13
march	134786	4347.94
april	174954	5831.80
may	149311	4816.49
June	558136	18604.54
July	227587	7341.52
August	241832	7801.03
September	147094	4903.14
October	118200	3812.91
November	790261	26342.03
December	696130	22455.81
<b>Total Deferment (BBLs)</b>		<b>146,401.95</b>
<b>Average Daily Deferment (BOPD)</b>		<b>12,200.16</b>

**Table 32: 2019 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	405,121.00	418,472.00	465,070.00	623,207.00	678,684.00	630,743.00	676,941.00	706,036.00	646,979.00	625,240.00	598,486.00	581,943.00	7,056,922.00
Agbami	6,156,009.00	5,829,662.00	6,346,300.00	6,255,325.00	6,271,920.00	6,077,300.00	6,350,181.00	6,241,521.00	5,914,134.00	5,903,294.00	5,380,157.00	4,747,607.00	71,878,531.00
Ajapa	39,461.00	5,865,807.00	6,373,438.00	6,259,029.00	6,306,759.00	6,083,774.00	6,389,946.00	6,241,521.00	5,914,134.00	5,910,675.00	5,398,530.00	4,821,917.00	72,166,121.00
Aje	95,896.00	5,951,292.00	6,466,278.00	6,347,206.00	6,398,494.00	6,166,100.00	6,435,671.00	6,312,719.00	5,996,452.00	5,992,761.00	5,448,938.00	4,834,612.00	73,047,010.00
Akpo	3,311,763.00	8,808,270.00	9,584,355.00	9,351,463.00	9,334,034.00	9,048,383.00	9,474,328.00	9,394,680.00	8,938,400.00	8,662,842.00	8,267,423.00	7,992,893.00	108,865,321.00
Antan	738,624.00	9,486,294.00	10,312,839.00	10,024,234.00	9,996,939.00	9,591,121.00	10,044,436.00	9,950,746.00	9,469,002.00	9,213,090.00	8,802,852.00	8,551,087.00	116,189,514.00
Asaramaturu	0.00	9,486,294.00	10,312,839.00	10,024,234.00	9,996,939.00	9,591,121.00	10,044,436.00	9,950,746.00	9,469,002.00	9,213,090.00	8,802,852.00	8,551,087.00	116,189,514.00
Bonga	5,067,238.00	14,248,028.00	15,414,865.00	15,060,960.00	15,083,303.00	14,416,355.00	15,206,599.00	14,947,461.00	14,566,006.00	14,209,282.00	13,749,545.00	13,383,194.00	176,099,710.00
Bonny	7,318,926.00	21,112,884.00	22,526,868.00	20,651,795.00	21,404,360.00	21,916,232.00	23,133,867.00	22,983,785.00	19,909,773.00	21,875,932.00	19,163,343.00	19,943,130.00	257,755,007.00
Bonny NLNG	0.00	21,112,884.00	22,526,868.00	20,651,795.00	21,404,360.00	21,916,232.00	23,133,867.00	22,983,785.00	19,909,773.00	21,875,932.00	19,163,343.00	19,943,130.00	257,755,007.00
Brass	2,839,740.00	23,644,350.00	24,915,729.00	23,429,080.00	23,975,934.00	24,883,451.00	26,172,680.00	25,939,441.00	22,656,865.00	24,323,184.00	21,280,337.00	22,447,042.00	289,640,871.00
BRT	0.00	23,644,350.00	24,915,729.00	23,429,080.00	23,975,934.00	24,883,451.00	26,172,680.00	25,939,441.00	22,656,865.00	24,323,184.00	21,280,337.00	22,447,042.00	289,640,871.00
Ebok	517,832.00	24,134,951.00	25,474,381.00	23,976,754.00	24,518,608.00	25,383,255.00	26,695,413.00	26,458,030.00	23,135,704.00	24,789,288.00	21,699,664.00	22,897,533.00	295,654,191.00

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

Stream/Blend	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Crude Oil										
Erha	60,729,787.00	53,063,950.00	45,680,658.00	37,657,596.00	36,159,774.00	33,469,916.00	45,757,675.00	45,145,584.00	0.00	35,397,575.00
Escravos	95,476,023.00	90,252,503.00	82,992,947.00	75,172,726.00	70,697,665.00	62,999,068.00	59,599,265.00	61,318,649.00	0.00	58,646,378.00
Forcados	69,232,152.00	82,774,072.00	72,439,141.00	71,000,791.00	67,932,792.00	68,782,929.00	14,160,105.00	57,617,372.00	0.00	78,854,147.00
Ima	0.00	0.00	0.00	0.00	560,856.00	516,972.00	285,237.00	0.00	0.00	181,920.00
Jones Creek Blend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11,573,724.00
Odudu	40,847,405.00	39,554,024.00	36,765,688.00	29,478,224.00	26,197,149.00	25,029,537.00	28,117,769.00	33,473,039.00	0.00	33,346,469.00
Okono	17,544,856.00	17,263,430.00	16,348,665.00	14,904,197.00	12,794,563.00	8,459,169.00	8,350,959.00	7,855,558.00	0.00	5,934,907.00
Okoro	5,885,411.00	5,767,803.00	6,170,120.00	6,601,054.00	6,011,655.00	4,294,703.00	3,474,331.00	3,581,709.00	0.00	6,210,070.00
Okwori	14,387,558.00	12,819,504.00	12,094,784.00	9,532,752.00	8,204,342.00	6,521,371.00	4,682,040.00	3,597,061.00	0.00	0.00
Okwuibome	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oso Condensate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Otakipo Blend	0.00	0.00	0.00	0.00	0.00	0.00	2,899,345.00	1,549,326.00	0.00	0.00
Oyo	3,216,242.00	1,349,224.00	1,009,842.00	812,467.00	421,171.00	1,777,052.00	1,992,927.00	1,959,653.00	0.00	0.00
Pennington	11,129,213.00	10,558,221.00	9,102,862.00	7,357,435.00	5,505,439.00	4,719,541.00	5,432,225.00	6,634,572.00	0.00	0.00
QIT	0.00	0.00	29,409,511.00	39,191,544.00	44,520,502.00	39,387,436.00	37,385,444.00	0.00	0.00	0.00
Qua Iboe	126,157,671.00	128,253,257.00	128,852,443.00	130,674,938.00	134,956,728.00	126,774,069.00	79,205,809.00	82,664,458.00	0.00	0.00
Sea Eagle	29,746,886.00	23,080,837.00	21,075,517.00	15,626,909.00	7,206,421.00	14,013,061.00	10,948,405.00	9,115,405.00	0.00	0.00
Tulja	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13,290,945.00	0.00	0.00
Ughelli Blend	0.00	0.00	0.00	41,668.00	0.00	0.00	0.00	0.00	0.00	0.00
Ukpokiti	492,411.00	386,832.00	927,491.00	756,259.00	565,887.00	334,956.00	229,576.00	2,323,880.00	0.00	0.00
Usan	0.00	1,326,212.00	1,622,834.00	2,985,561.00	4,762,983.00	6,815,676.00	7,820,692.00	35,645,714.00	0.00	0.00
Yoho	33,368,770.00	30,371,559.00	27,685,727.00	25,141,246.00	19,315,490.00	17,345,249.00	15,849,577.00	11,639,687.00	0.00	0.00
Sub Total	746,675,558.00	726,361,243.00	722,977,861.00	658,618,839.00	658,268,070.00	636,377,329.00	536,069,440.00	560,962,513.00	0.00	586,814,760.00
Daily Average	2,045,686.46	1,990,030.80	1,980,761.26	1,804,435.18	1,803,474.16	1,743,499.53	1,468,683.40	1,536,883.60	0.00	1,607,711.67
Condensate										
Field Condensate										
Agbami	87,169,459.00	88,304,428.00	85,041,559.00	84,871,128.00	87,280,118.00	85,339,585.00	83,835,468.00	85,697,436.00	0.00	0.00
Ajapa	0.00	0.00	0.00	0.00	0.00	0.00	135,080.00	444,885.00	0.00	0.00
Akpo	60,210,985.00	56,482,856.00	56,651,708.00	61,102,205.00	55,311,051.00	55,503,303.00	49,847,029.00	45,145,907.00	0.00	0.00
Escravos	1,892,148.00	4,041,513.00	5,088,278.00	4,896,351.00	6,169,358.00	10,080,271.00	3,666,394.00	5,655,185.00	0.00	0.00
Ima	537,469.00	531,515.00	246,582.00	259,429.00	312,053.00	295,976.00	367,864.00	376,748.00	0.00	0.00
Okwori	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,417,277.00
Okwuibome	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13,429,495.00
Oso Condensate	5,200,300.00	4,748,331.00	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	6,963,586.00
Sub Total	155,010,361.00	154,108,643.00	147,028,127.00	151,129,113.00	149,072,580.00	151,219,135.00	137,851,835.00	137,320,161.00	0.00	22,810,358.00
Daily Average	424,685.92	422,215.46	402,816.79	414,052.36	408,418.03	414,299.00	377,676.26	376,219.62	0.00	62,494.13
Plant Condensate										
Bonny NLNG	10,095,699.00	13,194,065.00	13,042,415.00	9,696,678.00	11,037,805.00	10,080,271.00	9,800,933.00	11,107,378.00	0.00	0.00
BRT	3,669,899.00	2,909,182.00	2,735,997.00	3,210,878.00	3,501,352.00	3,237,235.00	3,049,758.00	2,075,512.00	0.00	0.00
Qua Iboe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81,629,269.60
Sea Eagle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6,198,085.00
Sub Total	13,765,598.00	16,103,247.00	15,778,412.00	12,907,556.00	14,539,157.00	13,317,506.00	12,850,691.00	13,182,890.00	0.00	87,827,354.60
Daily Average	37,713.97	44,118.48	43,228.53	35,363.17	39,833.31	36,486.32	35,207.37	36,117.51	0.00	240,622.89
Sub Total - Condensate	168,775,959.00	170,211,890.00	162,806,539.00	164,036,669.00	163,611,737.00	164,536,641.00	150,702,526.00	150,503,051.00	0.00	110,637,712.60
Daily Average	462,399.89	466,333.95	446,045.31	449,415.53	448,251.33	450,785.32	412,883.63	412,337.13	0.00	303,117.02
Crude + Condensate										
Grand Total - Condensate	915,451,517.00	896,573,133.00	885,784,400.00	822,655,508.00	821,879,807.00	800,913,970.00	686,771,966.00	711,465,564.00	0.00	697,452,472.60
Daily Average	2,508,086.35	2,456,364.75	2,426,806.58	2,253,850.71	2,251,725.50	2,194,284.85	1,881,567.03	1,949,220.72	0.00	1,910,828.69

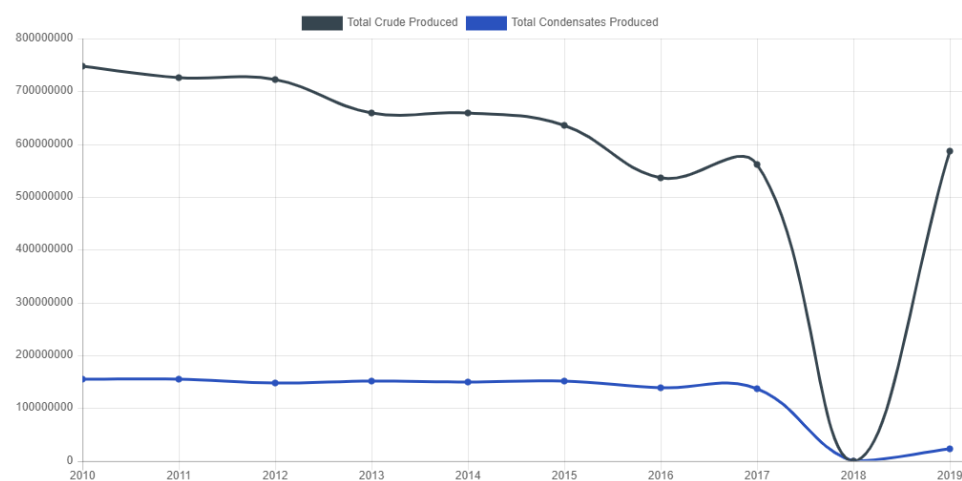


Figure 21 : Stabilized Crude /Condensates Volumes

**Table 34: 2019 Status Of Major Active Field Development / Crude Oil Handling Facilities Projects**

#	Project	Company	Location	Addition (Mbopd)	Development	Completion Year	Status
1	Bonga Southwest (BSW) Aparo	SHELL PETROLEUM DEVELOPMENT CO.	Deep Offshore	255000	Green Field		FEED
2	Agbami Infill Drilling (AIDP)	STAR DEEPWATER	Deep Offshore	250000	Brown field		Detailed Engineering
3	Tapa Production Upgrade	CHEVRON NIGERIA LTD.	Delta State	9000			Detailed Engineering
4	South Offshore Area Produced Water Project	CHEVRON NIGERIA LTD.	Delta State	N/A	Brown Field		Front End Design
5	Dibi Complete Restoration	CHEVRON NIGERIA LTD.	Delta State	60000			Detailed Engineering
6	Antan Well Head Platform	ADDAX DEVELOPMENT	Cross River State	60000			Detailed Engineering
7	FSO unity Cargo Tanks replacement	TOTAL E&P	Deep Offshore	N/A	Brown Field		FEED
8	Wash Tank 3 Replacement Project, Obogwu Flowstation	TOTAL E&P	Rivers State	N/A	Brown Field		Detailed Engineering
9	OML 58 Condensate Spiking	TOTAL E&P	Rivers State	N/A	Brown Field		Approval to Introduce Hydrocarbon
10	Alakiri Flow Station XHP Separator Installation/Commissioning	EROTON E&P CO	Rivers State	9147	Brown Field		Conceptual Design
11	Robertkiri Crude Oil Dehydration Capacity Expansion	BELEMA	Rivers State	N/A	Brown Field		Conceptual Design
12	Ibot Satellite Fields Development Phase 2	MOBIL PRODUCING NIGERIA UNLTD	Offshore	28200	Brown Field		Detailed Engineering
13	Idoho BP Restoration	MOBIL PRODUCING NIGERIA UNLTD	Offshore	19400			Detailed Engineering
14	Usari Alternate Development	MOBIL PRODUCING NIGERIA UNLTD	Offshore	50000			Detailed Engineering
15	Ubit PP Restoration	MOBIL PRODUCING NIGERIA UNLTD	Offshore	N/A			Construction
16	Debottlenecking and Upgrade of Egbema Flow station	PLATFORM PETROLEUM	Delta State	10000	Brown Field		Conceptual Design
17	Otakikpo Field Early Production Facility	GREEN ENERGY INTERNATIONAL LIMITED	Onshore, Rivers State	10000	Green Field		Installation
18	Further Oil Development Project – Phase 1	SEPLAT PRODUCTION AND DEV. CO.	Onshore, Rivers State	23450			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	EROTON E&P CO	Onshore		Brown Field		Conceptual (Modification)
20	OML 99 Ikike Field Development	TOTAL E&P	Offshore	32000	Green Field		Detailed Engineering
21	Anyala and Madu Fields OML 83/85	First E&P/ Dangote	Offshore	50000	Brown Field		Detailed Engineering
22	Sapele further Oil Development Project.	SEPLAT PRODUCTION AND DEV. CO.	Shallow/ Deep	60000	Green Field		Conceptual / FEED
23	100,000bbl Crude Oil Buffer Storage Tank - OML 20 Egbema Fields	NIGERIAN PET DEV CO. (NPDC)			Green Field		Conceptual Design
24	Modifiaction of Oil Water Treatment Facility at Amenam Kpono	TOTAL E&P		N/A	Brown Field		Conceptual Design/ FEED
25	Escravos Crude Oil Tank Repairs and Upgrade Project (1, 2, 8, 10, 4, 6, 7 & 12 )	CHEVRON NIGERIA LTD.		N/A	Brown Field		Construction and Installation
26	Crude Oil Storage Tank 5 Project	TOTAL E&P		N/A	Brown Field		Conceptual Design/FEED
27	Construction of 100KB Crude Oil Buffer Tank in Egbema Field	NIGERIAN PET DEV CO. (NPDC)	OML 20	N/A	Brown Field		Conceptual Design
28	Upgrade of Ebendo Flowstation Facility	ENERGIA LTD.		10000	Brown Field		Conceptual / FEED
29	2Trains x 20,000BPD Otakikpo Flow station Production Facility Project.	GREEN ENERGY INTERNATIONAL LIMITED	OML 11	40000	Brown Field		Conceptual / FEED
30	Tubu Field Development and Langley Upgrade.	AMNI INTERNATIONAL DEVELOPMENT CO.	OML 52	25000			Conceptual Design
31	JV Skim Pile Upgrade Project	MOBIL PRODUCING NIGERIA UNLTD		N/A	Brown Field		Conceptual Design
32	JV Fibre Optics Project	MOBIL PRODUCING NIGERIA UNLTD		N/A	Brown Field		Conceptual Design

#	Project	Company	Location	Addition (Mbopd)	Development	Completion Year	Status
33	Eriemu 11T Surface Facility Equipment in Eriemu Field (OML 30)	NIGERIAN PET DEV CO. (NPDC)	OML 30	4000	Brown Field		Pre-Start Up Safety Review
34	Replacement of Dehydration Tanks at Ogini Flowstation in OML 26	NIGERIAN PET DEV CO. (NPDC)	OML 26	N/A	Brown Field		Detailed Engineering
35	Certification & Commissioning of Ocean Patriot as Accommodation Platform	Dangote Industries Limited			Brown Field		
36	Offshore Platform Planned to be used for re-entry of Ogedeh-1 Well.	BICTA ENERGY & MANAGEMENT SYSTEMS LIMITED			Brown Field		Conceptual Design
37	20,000 barrels Crude Oil Storage Tank	PLATFORM PETROLEUM		N/A	Green Field		Construction and Installation
38	Revamp of Adanga Complex	ADDAX DEVELOPMENT		N/A	Brown Field		conceptual design
39	Gbetiokun Early Production Facility (EPF)	NIGERIAN PET DEV CO. (NPDC)		N/A	Green Field		Design Modification
40	'Preowei Deepwater Development Project	TOTAL E&P		N/A	Green Field / Brown Field		concept Selection
41	Offshore Platform Project in Gulf of Guinea.	Deep Frontline Shippers Ltd & Anantarupa Moorings Ltd Consortium.		N/A	Green Field		Project Suspended due to Legal issues
42	1MM Barrels Onshore Crude Oil Storage Facility.	GREEN ENERGY INTERNATIONAL LIMITED	OML 11	N/A			Detailed Engineering
43	Egwa Early Production Facility (EPF)	NIGERIAN PET DEV CO. (NPDC)	OML 42	30000	Green Field		Conceptual Design

**Table 35: 2019 Gas Production Volumes in MMSCF**

Month	AG	NAG	Total Gas Produced
January	0.00	0.00	0.00
February	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	1,737,856.35	1,136,648.94	2,874,505.29
Total	1,737,856.35	1,136,648.94	2,874,505.29

**Table 36: Gas Production**

Year	AG	NAG	Total
2013	1,786,512,899.00	1,025,377,681.00	2,811,890,580.00
2014	1,880,374,658.00	1,168,171,828.00	3,048,546,486.00
2015	1,717,673,083.00	1,285,505,977.00	3,003,179,060.00
2016	1,517,667,415.00	1,194,135,621.00	2,711,803,036.00
2017	1,701,041,508.00	1,237,008,033.00	2,938,049,541.00
2019	1,737,856,349.84	1,136,648,943.23	2,874,505,293.07



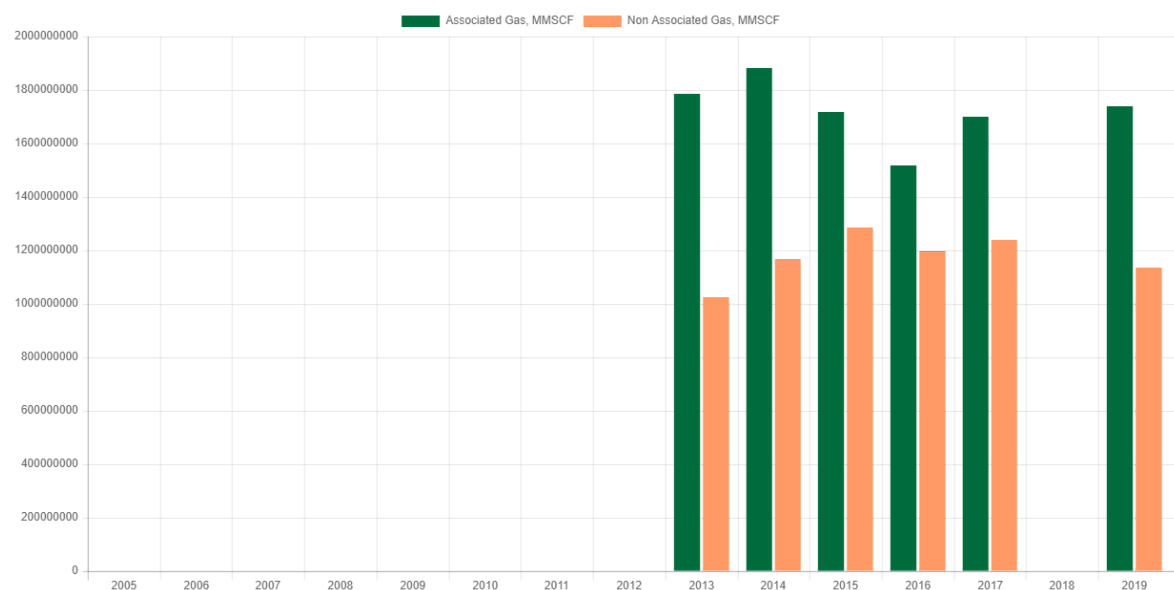


Figure 22 : AG and NAG Production

**Table 37: 2019 Gas Utilization Profile for the year**

Gas Utilization	Volume (MMscf)	Utilization Factor (%)
Fuel Gas	171,872,539.90	6.28
Gas Lift make-up	99,008,774.70	3.62
Gas Re-injection	708,633,155.90	25.91
NGL/LPG Feed Gas	36,859,603.60	1.35
Local Supply (Power)	36,927,365.70	1.35
Local Supply (Others)	412,274,398.00	15.07
Gas Export	1,269,658,983.40	46.42
<b>Total Gas Utilised</b>	<b>1,646,955,692.57</b>	<b>100.00</b>

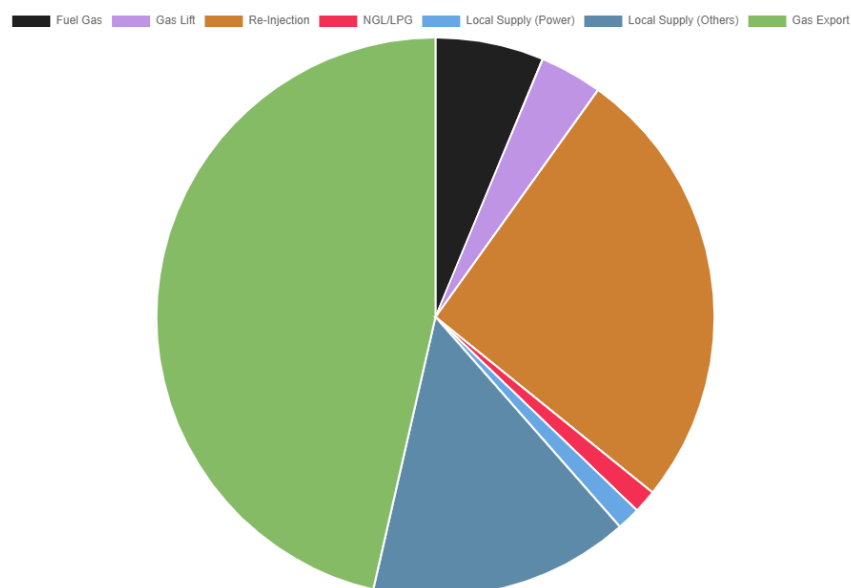


Figure 23 : Gas Utilization Breakdown

**Table 38: 2019 Gas Production and Utilization Summary**

Month	Total Gas Produced	Total Gas Utilised	Total Gas Flared	% Flared
January	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00
march	0.00	0.00	0.00	0.00

Month	Total Gas Produced	Total Gas Utilised	Total Gas Flared	% Flared
april	0.00	0.00	0.00	0.00
may	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00
December	2,874,505,293.07	139,359.00	3,634,065.10	0.13
<b>TOTAL</b>	<b>2,874,505,293.07</b>	<b>139,359.00</b>	<b>3,634,065.10</b>	<b>0.01</b>

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

Year	AG Produced Mscf	Total Gas Flared Mscf	% Flared
2009	0.00	763,248,638.96	0.00
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
2014	1,880,374,658.00	346,383,151.27	18.42
2015	1,717,673,083.00	331,086,672.89	19.28
2016	1,517,667,415.00	289,318,482.74	19.06
2017	1,701,041,508.00	324,223,483.26	19.06
2018	0.00	321,290,343.23	0.00
2019	1,737,856,349.84	307,969,366.66	17.72

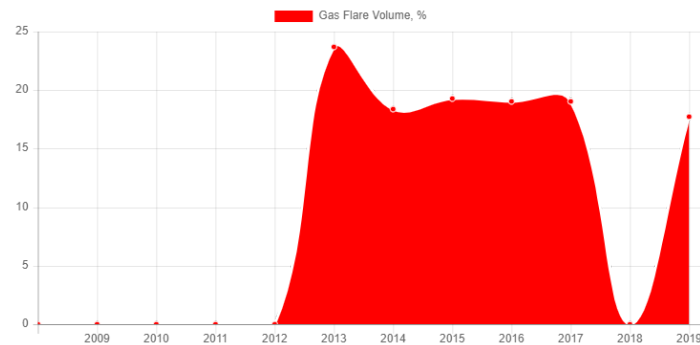


Figure 24 : Flare Volume as a percentage of AG Production

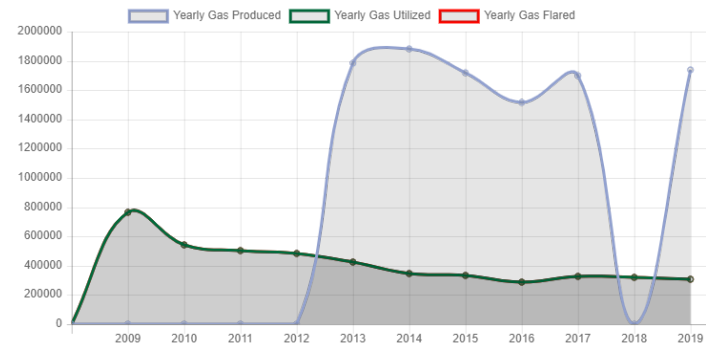


Figure 25 : Historical Gas Profile (Billion Standard Cubic Feet, BSCF)

**Table 40: 2019 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
February	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
april	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
may	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
June	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
July	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
August	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
September	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
October	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
November	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
December	1,737,856,349.84	1,136,648,943.23	2,874,505,293.07	139,359.00	0.00	0.00	0.00	0.00	0.00	0.00	139,359.00	0.00	3,634,065.10	100.00
Total	1,737,856,349.84	1,136,648,943.23	2,874,505,293.07	139,359.00	0.00	0.00	0.00	0.00	0.00	0.00	139,359.00	0.00	3,634,065.10	100.00

Table 41: Summary of Gas Production and Utilization

Gas Production								Sales					
Year	AG	NAG	Total	Fuel Gas	Gas Lift	Re-Injection	NGL-LPG	Domestic Sales	NLNG Export	Gas Util	% Util	Gas Flared	% Flared
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
2014	1,880,374,658.00	1,168,171,828.00	3,048,546,486.00	154,037,918.50	87,221,579.60	808,503,664.60	56,785,228.40	424,738,370.70	1,123,511,430.60	2,654,232,586.77	87.07	346,383,151.27	12.93
2015	1,717,673,083.00	1,285,505,977.00	3,003,179,060.00	152,879,152.20	84,395,058.60	743,028,073.40	59,775,984.90	445,121,438.80	1,160,836,318.30	2,646,068,394.51	88.11	331,086,672.89	11.89
2016	1,517,667,415.00	1,194,135,621.00	2,711,803,036.00	141,604,622.30	65,534,450.10	702,858,336.50	54,386,422.90	382,226,979.50	1,066,744,967.80	2,394,482,168.18	88.30	289,318,482.74	11.70
2017	1,701,041,508.00	1,237,008,033.00	2,938,049,541.00	145,980,633.40	89,398,487.50	707,140,079.30	48,457,686.60	430,414,812.10	1,197,455,971.30	2,588,818,336.12	88.11	324,223,483.26	11.89
2019	1,737,856,349.84	1,136,648,943.23	2,874,505,293.07	171,872,539.90	99,008,774.70	708,633,155.90	36,859,603.60	449,201,763.70	1,269,658,983.40	2,735,234,819.42	95.15	307,969,366.66	4.85

Table 42: 2019 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
1	SHELL PETROLEUM DEVELOPMENT CO	67,672,748.03	602,695,561.67	670,368,309.70	14,976,778.20	8,642,217.90	0.00	0.00	16,394,377.10	28,590,713.50	605,112,926.20	673,717,012.39	100	29,898,091.32
2	SHELL NIG. E&P CO. (SNEPCO)	44,222,039.00	0.00	44,222,039.00	4,297,417.00	0.00	0.00	0.00	0.00	0.00	38,870,606.00	43,168,023.00	98	1,054,016.00
3	CHEVRON NIGERIA LTD.	110,232,072.35	137,690,530.64	247,922,602.99	10,150,233.80	27,375,307.00	0.00	0.00	0.00	75,044,251.10	116,993,782.10	229,563,573.51	93	26,393,527.65
4	STAR DEEPWATER	162,749,114.24	0.00	162,749,114.24	7,796,874.20	0.00	137,702,746.80	0.00	0.00	0.00	0.00	145,499,620.96	89	17,249,493.28
5	MOBIL PRODUCING NIGERIA UNLTD	400,609,268.55	0.00	400,609,268.55	35,922,278.60	31,504,424.50	276,297,766.40	22,452,515.10	0.00	0.00	0.00	366,176,984.48	91	42,097,311.25
6	ESSO EXPLORATION	146,945,881.10	0.00	146,945,881.10	10,261,632.90	9,987,183.70	110,933,387.10	591,458.60	0.00	0.00	0.00	131,773,662.20	90	15,172,218.89
7	NIGERIAN AGIP OIL COMPANY	90,503,037.90	160,324,178.52	250,827,216.42	20,792,579.30	0.00	0.00	11,268,129.00	20,532,988.60	46,685,395.00	174,112,790.00	273,391,881.93	109	15,493,393.07
8	TOTAL E&P	167,625,964.09	99,732,836.29	267,358,800.38	13,937,242.10	0.00	94,184,218.70	2,425,100.90	0.00	691,734.30	182,155,751.10	293,394,047.14	110	8,424,584.62
9	TOTAL UPSTREAM (TUPNI)	224,001,000.00	0.00	224,001,000.00	11,676,100.00	0.00	75,727,200.00	0.00	0.00	0.00	127,076,300.00	214,479,600.00	96	9,521,400.00
10	AGIP ENERGY & NATURAL RESOURCE	1,494,384.00	0.00	1,494,384.00	109,500.00	0.00	0.00	0.00	0.00	0.00	0.00	109,500.00	7	1,384,884.00
11	NIGERIAN AGIP ENERGY (NAE)	15,877,820.00	0.00	15,877,820.00	1,698,980.00	0.00	11,357,300.00	122,400.00	0.00	0.00	0.00	13,178,680.00	83	2,699,140.00
12	ADDAX DEVELOPMENT	19,026,773.39	0.00	19,026,773.39	2,078,513.00	9,005,495.00	1,155,554.00	0.00	0.00	0.00	0.00	12,239,562.00	64	14,472,661.18
13	PANOCEAN OIL CORPORATION NIG	5,260,740.00	0.00	5,260,740.00	336,919.30	0.00	0.00	0.00	0.00	4,824,280.00	0.00	5,161,199.25	98	99,540.75
14	NIGERIAN PET DEV CO. (NPDC)	157,498,943.55	0.00	157,498,943.55	30,062,903.00	7,637,463.90	0.00	0.00	0.00	102,376,202.00	0.00	140,076,568.73	89	29,706,264.70
15	AMNI INTERNATIONAL DEVELOPMENT	7,830,040.00	0.00	7,830,040.00	140,720.00	0.00	1,154,510.00	0.00	0.00	0.00	0.00	1,295,230.00	17	6,534,810.00
16	ATLAS PETROLEUM INTERNATIONAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
17	MONI PULO LTD	283,329.89	0.00	283,329.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	283,329.89
18	NIGER DELTA PET. RESOURCES LTD	2,018,596.00	11,311,467.00	13,330,063.00	181,517.00	0.00	0.00	0.00	0.00	339,515.00	12,615,108.00	13,136,140.00	99	193,923.00
19	CONTINENTAL OIL AND GAS LTD.	10,859,492.30	0.00	10,859,492.30	129,944.00	0.00	0.00	0.00	0.00	0.00	0.00	129,944.00	1	10,729,548.30
20	CONSOLIDATED OIL COMPANY LIMIT	200,751.80	0.00	200,751.80	84,334.70	0.00	0.00	0.00	0.00	0.00	0.00	84,334.70	42	116,417.10
21	DUBRI OIL COMPANY	1,297,168.00	0.00	1,297,168.00	15,833.00	0.00	0.00	0.00	0.00	0.00	0.00	15,833.00	1	1,281,335.00
22	PLATFORM PETROLEUM	10,539,236.52	0.00	10,539,236.52	24,579.40	0.00	0.00	0.00	0.00	855,440.20	0.00	880,019.64	8	9,659,216.88

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													
23	WALTERSMITH PETROMAN OIL LIMIT	195,454.00	10,526.00	205,980.00	2.20	75,208.00	120,472.90	0.00	0.00	0.00	0.00	195,683.13	95	10,296.87													
24	MIDWESTER OIL AND GAS CO. LTD	2,448,290.20	0.00	2,448,290.20	56,149.60	0.00	0.00	0.00	0.00	0.00	0.00	56,149.55	2	2,392,140.65													
25	PILLAR OIL LTD	330,240.00	0.00	330,240.00	49,528.50	0.00	0.00	0.00	0.00	0.00	0.00	49,528.50	15	280,711.50													
26	ENERGIA LTD.	7,335,891.00	0.00	7,335,891.00	0.00	0.00	0.00	0.00	0.00	1,976,255.00	0.00	1,976,255.00	27	5,359,636.00													
27	BRITTANIA-U	240,156.00	0.00	240,156.00	174,948.00	0.00	0.00	0.00	0.00	0.00	0.00	174,948.00	73	65,208.00													
28	SEPLAT PRODUCTION AND DEV. CO.	21,521,722.65	92,728,781.41	114,250,504.06	662,831.50	0.00	0.00	0.00	0.00	106,113,776.10	0.00	106,776,607.42	93	7,473,896.66													
29	ORIENTAL ENERGY RESOURCES	5,551,194.00	0.00	5,551,194.00	1,165,211.80	3,488,245.00	0.00	0.00	0.00	0.00	0.00	4,653,456.80	84	897,737.20													
30	STERLING OIL EXP&ENERGY PROD.	2,161,622.49	0.00	2,161,622.49	1,574,464.30	557,259.70	0.00	0.00	0.00	0.00	0.00	2,131,724.00	99	29,898.49													
31	FRONTIER OIL LTD.	4.40	32,155,061.70	32,155,066.10	131,320.00	0.00	0.00	0.00	0.00	29,922,792.60	2,076,420.00	32,130,532.60	100	24,533.50													
32	NEWCROSS E&P CO	6,598,532.00	0.00	6,598,532.00	117,364.00	0.00	0.00	0.00	0.00	0.00	3,405,873.00	3,523,237.00	53	3,075,295.00													
33	PRIME EXPLORATION	14,644.00	0.00	14,644.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	14,644.00													
34	EROTON E&P CO	13,344,122.51	0.00	13,344,122.51	1,738,682.10	0.00	0.00	0.00	0.00	13,264,528.20	0.00	15,003,210.18	112	13,392,448.34													
35	UNIVERSAL ENERGY	619,570.00	0.00	619,570.00	6,160.00	280.00	0.00	0.00	0.00	74,290.00	0.00	80,730.00	13	538,840.00													
36	AITEO E&P CO	2,495,408.80	0.00	2,495,408.80	255,601.50	0.00	0.00	0.00	0.00	0.00	6,786,247.00	7,041,848.45	282	5,876,905.35													
37	NETWORK E&P NIGERIA	667,468.22	0.00	667,468.22	7,273.10	0.00	0.00	0.00	0.00	0.00	0.00	7,273.07	1	660,195.15													
38	BELEMA	3,773,424.10	0.00	3,773,424.10	139,359.00	0.00	0.00	0.00	0.00	0.00	0.00	139,359.00	4	3,634,065.10													
39	YINKA FOLAWIYO PET CO LTD	3,907,040.00	0.00	3,907,040.00	0.00	735,690.00	0.00	0.00	0.00	0.00	0.00	735,690.00	19	3,171,350.00													
40	GREEN ENERGY INTERNATIONAL L	1,652,670.00	0.00	1,652,670.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	1,652,670.00													
41	EXCEL EXPLORATION & PRODUCTON	7,485.50	0.00	7,485.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	7,485.50													
42	NPDC/ NECONDE ENERGY LTD	15,785,316.90	0.00	15,785,316.90	548,180.50	0.00	0.00	0.00	0.00	1,327,270.00	453,180.00	2,328,630.50	15	13,456,686.40													
43	ENAGEED RESOURCES LIMITED	261,479.00	0.00	261,479.00	339,640.80	0.00	0.00	0.00	0.00	0.00	0.00	339,640.83	130	1,712,301.17													
44	MILLENIUM OIL AND GAS LIMITED	511,300.00	0.00	511,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	511,300.00													
45	STERLING GLOBAL OIL RESORCE LI	208,936.36	0.00	208,936.36	200,637.50	0.00	0.00	0.00	0.00	0.00	0.00	200,637.46	96	8,298.90													
46	CHORUS ENERGY LIMITED	1,389,267.00	0.00	1,389,267.00	30,306.00	0.00	0.00	0.00	0.00	187,955.00	0.00	218,261.00	16	1,171,006.00													
47	SUMMIT OIL INTERNATIONAL	86,710.00	0.00	86,710.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	86,710.00													

**Table 43: 2019 Summary of Crude / Condensate Export by Crude Stream**

Stream	January	February	March	April	May	June	July	August	September	October	November	December	Total
Oil													
Abo	0.00	698,558.00	0.00	695,932.00	700,010.00	0.00	696,950.00	698,765.00	0.00	399,616.00	697,945.00	379,676.00	4,967,452.00
Aje	0.00	0.00	218,934.00	0.00	0.00	0.00	230,914.00	0.00	210,079.00	0.00	162,742.00	0.00	822,669.00
Antan	948,097.00	948,528.00	996,079.00	0.00	1,297,405.00	0.00	949,041.00	996,092.00	948,575.00	0.00	1,541,828.00	0.00	8,625,645.00

Stream	January	February	March	April	May	June	July	August	September	October	November	December	Total
Bonga	6,139,028.00	5,733,874.00	1,091,760.00	2,799,253.00	5,685,899.00	3,795,532.00	6,539,896.00	6,185,542.00	6,117,071.00	5,727,367.00	5,825,849.00	5,730,907.00	61,371,978.00
Bonny	2,838,157.00	3,839,776.00	4,064,026.00	4,741,749.00	4,897,003.00	2,918,545.00	3,429,489.00	4,702,294.00	4,637,666.00	2,464,428.00	5,348,625.00	4,101,609.00	47,983,367.00
Brass	1,903,578.00	2,849,386.00	1,799,366.00	2,405,649.00	3,442,631.00	2,659,525.00	2,940,088.00	2,714,482.00	3,192,545.00	2,368,456.00	2,763,279.00	2,824,570.00	31,863,555.00
Ebok	605,101.00	608,355.00	610,627.00	601,915.00	611,439.00	636,897.00	592,870.00	622,857.00	615,589.00	630,060.00	0.00	637,295.00	6,773,005.00
Ekanga Zaffiro	0.00	0.00	0.00	996,155.00	0.00	0.00	0.00	0.00	947,469.00	0.00	0.00	0.00	1,943,624.00
Erha	3,949,293.00	3,807,247.00	4,846,031.00	3,950,248.00	3,958,918.00	3,995,490.00	4,000,705.00	3,979,990.00	3,852,073.00	3,800,003.00	2,807,931.00	1,901,782.00	44,849,711.00
Escravos	3,795,727.00	3,776,181.00	3,774,646.00	3,536,366.00	4,719,520.00	5,236,275.00	4,714,767.00	5,885,098.00	3,783,044.00	4,735,737.00	3,767,423.00	5,925,068.00	53,649,852.00
Forcados	0.00	0.00	0.00	0.00	2,946,835.00	6,701,070.00	8,290,774.00	7,635,014.00	7,413,499.00	6,382,194.00	7,394,572.00	5,788,269.00	52,552,227.00
Ima	0.00	0.00	0.00	119,721.00	0.00	249,712.00	0.00	230,047.00	239,820.00	219,992.00	0.00	398,952.00	1,458,244.00
Odudu	2,897,735.00	1,901,867.00	2,993,595.00	1,947,453.00	3,846,750.00	2,896,816.00	1,946,021.00	2,994,327.00	2,897,324.00	2,896,908.00	2,896,649.00	2,946,883.00	33,062,328.00
Okono	944,648.00	900,027.00	856,968.00	42,882.00	899,680.00	900,101.00	0.00	900,141.00	900,130.00	900,028.00	0.00	1,193,112.00	8,437,717.00
Okoro	996,906.00	0.00	0.00	999,542.00	0.00	0.00	997,128.00	0.00	0.00	996,593.00	0.00	0.00	3,990,169.00
Okwori	0.00	648,625.00	0.00	672,825.00	0.00	0.00	673,166.00	0.00	673,016.00	0.00	648,791.00	0.00	3,316,423.00
Oyo	0.00	332,164.00	345,949.00	0.00	0.00	351,602.00	0.00	0.00	681,648.00	0.00	0.00	384,897.00	2,096,260.00
Pennington	0.00	964,405.00	0.00	873,446.00	0.00	995,424.00	972,246.00	0.00	1,007,233.00	0.00	1,032,431.00	0.00	5,845,185.00
Qua Iboe	7,754,724.00	4,754,703.00	6,645,179.00	8,551,496.00	6,701,924.00	6,652,606.00	6,649,288.00	5,700,759.00	8,561,093.00	5,699,881.00	6,647,318.00	7,600,447.00	81,919,418.00
Ukpokiti	947,502.00	0.00	947,102.00	948,251.00	995,247.00	0.00	1,695,163.00	199,728.00	947,057.00	946,879.00	449,421.00	1,597,431.00	9,673,781.00
Usan	998,186.00	678,069.00	998,160.00	997,936.00	997,965.00	1,295,699.00	997,997.00	997,869.00	1,995,987.00	997,881.00	952,863.00	1,926,382.00	13,834,994.00
Yoho	609,485.00	0.00	195,586.00	0.00	0.00	0.00	0.00	751,002.00	387,551.00	0.00	0.00	0.00	1,943,624.00
QIT	4,045,099.00	1,995,920.00	3,996,349.00	1,997,153.00	3,998,543.00	2,999,293.00	2,985,825.00	2,997,637.00	1,904,783.00	2,946,207.00	3,047,831.00	2,997,028.00	35,911,668.00
SEEPCO	313,805.00	950,574.00	1,264,638.00	323,849.00	948,303.00	950,212.00	950,064.00	950,301.00	950,136.00	1,223,725.00	1,264,051.00	1,243,743.00	11,333,401.00
Sub-Total	39,687,071.00	35,388,259.00	35,644,995.00	37,201,821.00	46,648,072.00	43,234,799.00	50,252,392.00	49,141,945.00	52,863,388.00	43,335,955.00	47,249,549.00	47,578,051.00	528,226,297.00
Daily-Average	1,280,228.10	1,263,866.39	1,149,838.55	1,240,060.70	1,504,776.52	1,441,159.97	1,621,044.90	1,585,224.03	1,762,112.93	1,397,934.03	1,574,984.97	1,534,775.84	1,447,195.33
Field Condensate													
Agbami	6,551,331.00	7,700,135.00	6,817,295.00	7,794,091.00	6,816,666.00	7,794,736.00	6,821,092.00	7,745,907.00	6,799,982.00	6,791,078.00	6,745,415.00	7,257,136.00	85,634,864.00
Ajapa	0.00	0.00	0.00	0.00	0.00	651,651.00	0.00	299,738.00	0.00	94,382.00	0.00	0.00	1,045,771.00
Akpo	3,995,887.00	4,045,040.00	3,996,958.00	2,996,909.00	5,049,667.00	2,997,490.00	5,003,004.00	2,997,917.00	3,979,542.00	3,045,623.00	2,993,273.00	3,944,352.00	45,045,662.00
Escravos	0.00	225,504.00	483,299.00	418,281.00	466,469.00	493,908.00	55,815.00	0.00	0.00	419,028.00	472,584.00	534,161.00	3,569,049.00
Ima	0.00	0.00	0.00	119,991.00	0.00	0.00	0.00	0.00	0.00	84,927.00	0.00	0.00	204,918.00
Sepplat Blend	269,709.00	243,180.00	550,125.00	539,400.00	0.00	269,686.00	269,700.00	0.00	296,256.00	0.00	0.00	0.00	2,438,056.00
Bonny	827,224.00	566,703.00	279,634.00	826,774.00	830,496.00	818,674.00	836,861.00	1,389,512.00	264,773.00	1,123,975.00	268,666.00	524,261.00	8,557,553.00
Sub-Total	11,644,151.00	12,780,562.00	12,127,311.00	12,695,446.00	13,163,298.00	13,026,145.00	12,986,472.00	12,433,074.00	11,340,553.00	11,559,013.00	10,479,938.00	12,259,910.00	146,495,873.00
Daily-Average	375,617.77	456,448.64	391,203.58	423,181.53	424,622.52	434,204.83	418,918.45	401,066.90	378,018.43	372,871.39	349,331.27	395,480.97	401,358.56
Oil + Condensate													
Total Export	51,331,222.00	48,168,821.00	47,772,306.00	49,897,267.00	59,811,370.00	56,260,944.00	63,238,864.00	61,575,019.00	64,203,941.00	54,894,968.00	57,729,487.00	59,837,961.00	674,722,170.00
Daily-Average	1,655,845.87	1,720,315.04	1,541,042.13	1,663,242.23	1,929,399.03	1,875,364.80	2,039,963.35	1,986,290.94	2,140,131.37	1,770,805.42	1,924,316.23	1,930,256.81	1,848,553.89

**Table 44: 2019 Summary of Crude / Condensate Supply to Local Refineries**

Product	January	February	March	April	May	June	July	August	September	October	November	December	Total
Warri Refinery (WRPC)													
pms	0.00	26,377,000.01	31,350,000.00	0.00	4,879,000.00	0.00	7,965,000.00	13,716,000.00	672,000.00	0.00	0.00	0.00	84,959,000.01
ago	18,013,000.00	35,935,000.00	8,164,000.00	0.00	5,189,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67,301,000.00
lpg	51,835,330.19	52,027,500.00	27,305,943.40	0.00	21,053,490.57	0.00	14,246,320.76	0.00	0.00	0.00	0.00	0.00	166,468,584.92
fuel oil	26,964,000.00	51,959,000.00	24,110,000.00	0.00	7,817,000.00	0.00	639,000.00	390,000.00	0.00	0.00	0.00	0.00	111,879,000.00
Kaduna Refinery (KRPC)													
lpg	4,015,200.00	4,799,550.00	0.00	4,624,200.00	4,728,150.00	14,547,750.00	5,856,900.00	3,766,350.00	7,569,450.00	0.00	0.00	0.00	49,907,550.00
fuel oil	0.00	0.00	0.00	0.00	0.00	372,480.00	0.00	0.00	0.00	0.00	0.00	0.00	372,480.00
Port Harcourt (PHRC)													
Niger Delta Pet Res (NDPR)													
ago	2,165,566.00	1,588,919.00	1,149,319.00	2,230,433.00	2,184,167.00	1,978,438.00	862,029.00	1,303,537.00	763,298.00	0.00	0.00	19,237.00	14,244,943.00

**Table 45: 2019 Summary of Crude / Condensate Export**

Stream/Blend	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Crude Oil										
Abo	11,145,508.00	20,002,189.58	15,944,489.33	15,282,570.42	8,298,092.00	8,184,624.00	6,981,146.00	4,967,452.00	0.00	4,967,452.00
Agbami	0.00	169,276,417.75	163,331,331.75	162,442,052.08	86,171,532.00	85,628,159.00	84,710,980.00	0.00	0.00	0.00
Ajapa	0.00	0.00	0.00	0.00	0.00	0.00	128,874.00	0.00	0.00	0.00

Stream/Blend	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Aje	0.00	0.00	0.00	0.00	0.00	0.00	922,703.00	822,669.00	0.00	822,669.00
Akpo	0.00	109,009,199.58	110,073,938.58	116,508,499.08	51,618,224.00	55,354,492.00	50,639,254.00	0.00	0.00	0.00
Antan	19,108,971.00	27,220,440.58	35,557,547.67	38,212,238.33	18,112,986.00	14,396,706.00	12,373,609.00	8,625,645.00	0.00	8,625,645.00
Asaramaturu	0.00	0.00	0.00	0.00	544,421.00	422,934.00	301,120.00	0.00	0.00	0.00
Bonga	65,026,519.00	98,971,116.00	123,209,330.58	97,477,888.92	58,282,931.00	69,715,081.00	74,973,146.00	61,371,978.00	0.00	61,371,978.00
Bonny	91,633,924.00	164,128,287.50	143,067,896.67	109,218,106.67	62,613,178.92	65,601,732.00	55,981,328.00	47,983,367.00	0.00	47,983,367.00
Brass	47,045,801.00	88,783,664.67	74,626,917.42	59,161,592.83	34,880,104.33	38,946,913.00	33,148,423.00	31,863,555.00	0.00	31,863,555.00
BRT	0.00	0.00	0.00	0.00	0.00	7,422,126.00	0.00	0.00	0.00	0.00
Ebok	0.00	5,046,368.67	21,242,738.67	25,144,067.67	9,772,103.00	10,274,484.00	7,989,189.00	6,773,005.00	0.00	6,773,005.00
Ekanga Zaffiro	4,500,450.00	0.00	0.00	0.00	3,763,224.00	3,710,955.00	3,832,897.00	1,943,624.00	0.00	1,943,624.00
Erha	60,729,787.00	100,608,549.25	88,955,505.33	70,977,428.83	35,959,867.00	33,431,160.00	45,836,394.00	44,849,711.00	0.00	44,849,711.00
Escravos	95,476,023.00	122,682,345.00	116,650,964.92	94,675,199.00	59,259,056.00	59,054,243.00	47,153,315.00	53,649,852.00	0.00	53,649,852.00
Forcados	69,232,152.00	143,437,203.83	133,373,791.50	126,938,069.50	66,442,803.00	69,510,040.00	15,528,254.00	52,552,227.00	0.00	52,552,227.00
Ima	0.00	849,367.00	691,330.17	402,158.83	231,712.00	448,182.00	242,151.00	1,458,244.00	0.00	1,458,244.00
Koko Plant	0.00	244,324,835.08	248,082,260.75	249,910,300.75	123,839,746.75	125,618,831.00	0.00	0.00	0.00	0.00
Odudu	40,847,405.00	74,998,246.67	72,528,861.25	53,821,594.67	26,478,183.00	25,321,991.00	28,414,779.00	33,062,328.00	0.00	33,062,328.00
Okono	17,544,856.00	32,681,570.17	31,874,688.00	28,426,631.50	12,053,749.00	9,296,812.00	7,694,089.00	8,437,717.00	0.00	8,437,717.00
Okoro	5,885,411.00	10,302,800.17	12,186,406.25	12,327,886.92	5,608,008.00	4,840,795.00	2,771,027.00	3,990,169.00	0.00	3,990,169.00
Okwori	14,387,558.00	24,750,428.42	22,555,174.25	17,360,850.42	8,460,061.00	6,859,162.00	4,588,428.00	3,316,423.00	0.00	3,316,423.00
Oso Condensate	0.00	10,320,847.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oyo	3,216,242.00	2,587,605.42	0.00	1,286,506.92	5,455,256.00	1,646,071.00	1,945,602.00	2,096,260.00	0.00	2,096,260.00
Pennington	11,129,213.00	20,635,751.42	16,852,420.08	13,208,095.00	5,834,616.00	4,939,155.00	5,822,451.00	5,845,185.00	0.00	5,845,185.00
QIT	0.00	0.00	55,473,475.75	73,518,850.25	44,518,002.00	39,729,126.00	37,297,111.00	35,911,668.00	0.00	35,911,668.00
Qua Iboe	126,157,671.00	0.00	0.00	0.00	0.00	0.00	79,949,054.00	81,919,418.00	0.00	81,919,418.00
SEEPCO	0.00	58,794,656.58	53,089,878.42	47,859,164.75	18,971,337.00	17,461,456.00	16,177,350.00	11,333,401.00	0.00	11,333,401.00
Seplat Blend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ukpokiti	492,411.00	0.00	0.00	0.00	0.00	13,629,727.00	11,068,954.00	9,673,781.00	0.00	9,673,781.00
Usan	0.00	0.00	0.00	0.00	0.00	0.00	8,626,355.00	0.00	0.00	13,834,994.00
Yoho	33,368,770.00	566,200.58	1,542,600.42	1,882,427.33	546,255.00	0.00	402,846.00	1,943,624.00	0.00	1,943,624.00
Sub Total	1,589,233,271.25	1,529,978,091.42	1,540,911,547.76	1,416,042,180.67	747,715,448.00	771,444,957.00	645,500,829.00	514,391,303.00	0.00	528,226,297.00
Daily Average	4,354,063.76	4,191,720.80	4,221,675.47	3,879,567.62	2,048,535.47	2,113,547.83	1,768,495.42	1,409,291.24	0.00	1,447,195.33
Field Condensate										
Agbami	87,169,459.00	0.00	0.00	0.00	0.00	0.00	0.00	85,634,864.00	0.00	85,634,864.00
Akpo	60,210,985.00	0.00	0.00	0.00	0.00	0.00	0.00	45,045,662.00	0.00	45,045,662.00
Escravos	1,892,148.00	0.00	0.00	0.00	0.00	0.00	0.00	3,569,049.00	0.00	3,569,049.00
Ima	537,469.00	0.00	0.00	0.00	0.00	0.00	0.00	204,918.00	0.00	204,918.00
Oso Condensate	5,200,300.00	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	134,454,493.00	0.00	134,454,493.00
Daily Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	368,368.47	0.00	368,368.47
Plant Condensate										
BRT	3,669,899.00	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	1,589,233,271.25	1,589,233,271.25	1,589,233,271.25	1,589,233,271.25	1,589,233,271.25	1,589,233,271.25	1,589,233,271.25	1,589,233,271.25	1,589,233,271.25	1,589,233,271.25
Daily Average	4,354,063.76	4,354,063.76	4,354,063.76	4,354,063.76	4,354,063.76	4,354,063.76	4,354,063.76	4,354,063.76	4,354,063.76	4,354,063.76

**Table 46: 2019 Crude Export Destination Summary**

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	0.00
Agbami	0.00	0.00	0.00	0.00	0.00	0.00	1,220,000.00
Ajapa	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
Akpo	46,684,816.00	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
Asaramaturu	0.00	0.00	14,000,000.00	0.00	0.00	0.00	0.00
Bonga	0.00	0.00	0.00	1,895,390.00	0.00	0.00	0.00
Bonny	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bonny NLNG	0.00	0.00	17,000,000.00	0.00	0.00	0.00	0.00
Brass	358,023.00	0.00	0.00	0.00	0.00	0.00	0.00

Stream	Africa	Asia and Pacific	Europe	Latin America	Middle East	Non-specified/Other	North America
BRT	0.00	0.00	671,800.00	0.00	0.00	0.00	0.00
Ebok	0.00	0.00	0.00	0.00	946,968.00	0.00	0.00
Erha	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
Forcados	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
Indorama	0.00	0.00	1,060,000.00	0.00	0.00	0.00	0.00
Koko Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Odudu	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
Okoro	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
Oyo	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennington	0.00	0.00	940,000.00	0.00	0.00	0.00	0.00
QIT	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
SEPCO	0.00	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	0.00
Ukpokiti	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
Total	47,042,839.00	0.00	33,671,800.00	1,895,390.00	946,968.00	0.00	1,220,000.00

**Table 47: Crude Export Destination History in Percent**

#	Region	2015	2016	2017	2018	2019
1	Africa	7.2	0.0	5.6	0.0	1.7
2	Asia and Pacific	14.4	0.0	12.4	0.0	0.0
3	Europe	0.0	0.0	0.0	0.0	1.2
4	Latin America	5.1	0.0	1.5	0.0	0.1
5	Middle East	23.6	0.0	16.8	0.0	0.0
6	Non-specified/Other	0.0	0.0	0.0	0.0	0.0
7	North America	2.1	0.0	8.2	0.0	0.0

**Table 48: Average Price of Nigeria's Crude Streams as Quoted by Platts in USD**

Year	Agbami	Bonny	Brass	Forcados	Qua Iboe	Akpo	Bonga	
2011	110.50	111.97	112.02	112.93	112.14	0.00	0.00	0
2012	110.71	112.84	112.82	114.21	113.21	0.00	0.00	0
2013	108.96	110.47	110.23	111.95	110.88	110.45	112.87	0
2014	99.36	100.70	99.84	101.35	100.80	99.37	101.13	0
2015	52.64	54.16	53.14	54.48	54.29	52.69	54.18	0
2016	44.50	45.23	44.84	44.54	45.49	44.48	45.06	0
2017	53.93	54.99	54.99	54.65	55.09	54.29	55.04	0
2019	667.94	669.00	669.00	668.66	669.10	668.30	669.05	0



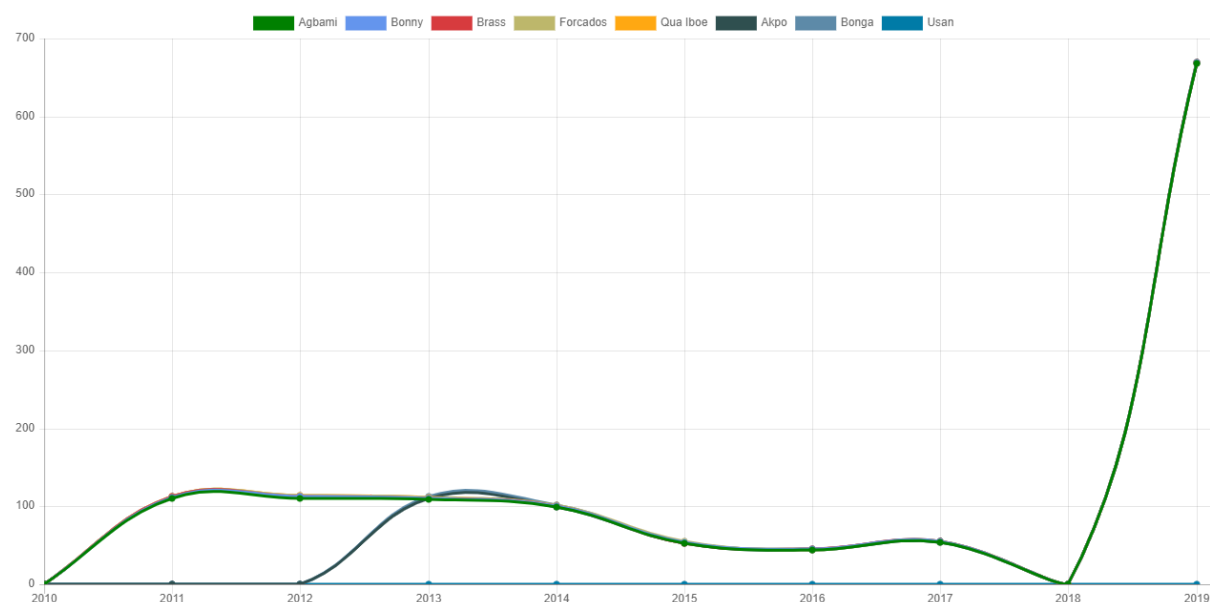


Figure  
Figure 26 : Average Price of Nigeria's Crude Quoted by Platts in USD

Table 49: 2019 Summary of Refineries

Process Unit	KRPC	PHRC (New)	PHRC (Old)	WRPC	NDPR	TOTAL
Configuration	Conversion	Conversion	Conversion	Conversion	Conversion	NA
Feedstock	Escravos, Ughelli blend	Escravos, Ughelli blend	Escravos, Ughelli blend	Escravos, Ughelli blend	Escravos, Ughelli blend	NA
Products	Fuels, Petrochemicals (Polypropylene & Carbon black)	Fuels, Petrochemicals (Polypropylene & Carbon black)	Fuels, Petrochemicals (Polypropylene & Carbon black)	Fuels, Petrochemicals (Polypropylene & Carbon black)	Fuels, Petrochemicals (Polypropylene & Carbon black)	NA
Crude distillation	125000	125000	125000	125000	125000	625,000.00
Condensate splitting	NA	NA	NA	NA	NA	NA
Vacuum distillation	40000	40000	40000	40000	40000	200,000.00
Catalytic hydrotreating (desulphurization)	17000	17000	17000	17000	17000	85,000.00
of which: Naphtha	NA	NA	NA	NA	NA	NA
of which: Gasoline	NA	NA	NA	NA	NA	NA
of which: Gas oil/diesel	NA	NA	NA	NA	NA	NA
of which: Other	17	17	17	17	17	85.00
Fluid catalytic cracking	25	25	25	25	25	125.00
Hydrocracking	NAP	NAP	NAP	NAP	NAP	NA
Coking	NA	NA	NA	NA	NA	NA
Visbreaking	NA	NA	NA	NA	NA	NA
Catalytic reforming	17000	17000	17000	17000	17000	85,000.00
Alkylation	2500	2500	2500	2500	2500	12,500.00
Aromatics / Isomerization	NAP	NAP	NAP	NAP	NAP	NA
Lubes	NAP	NAP	NAP	NAP	NAP	NA
Asphalt	NA	NA	NA	NA	NA	NA
Hydrogen	NA	NA	NA	NA	NA	NA
MTBE	NA	NA	NA	NA	NA	NA
Propylene	NA	NA	NA	NA	NA	NA
LPG	NA	NA	NA	NA	NA	NA
Sulphur	NA	NA	NA	NA	NA	NA
Refinery Intake						
Crude Oil (b/d)						
Q1	0.00	0.00	0.00	2,613,521.96	52,929.00	2,666,450.96
Q2	2,698,446.54	0.00	0.00	1,517,226.35	462,742.14	4,678,415.03
Q3	0.00	0.00	0.00	0.00	39,346.00	39,346.00
Q4	0.00	0.00	0.00	0.00	552.00	552.00
2019	674,611.64	0.00	0.00	4,488,617.85	260,910.01	5,424,139.49
Utilization Rate(%)						
Q1	0.00%	0.00%	0.00%	2,090.82%	5,292.90%	597.86%
Q2	390.05%	0.00%	0.00%	192.99%	7,357.60%	166.79%
Q3	0.00%	0.00%	0.00%	0.00%	3,934.60%	8.82%

Process Unit	KRPC	PHRC (New)	PHRC (Old)	WRPC	NDPR	TOTAL
Q4	0.00%	0.00%	0.00%	0.00%	55.20%	0.12%
2019	390.05	0.00	0.00	2,283.81	16,598.90	773.50

**Table 50: Refinery Performance - Capacity Utilisation, BPSD**

Year		KRPC	PHRC (New)	PHRC (Old)	WRPC	NDPR	Total
Designed Capacity, BPSD		110,000.00	150,000.00	60,000.00	125,000.00	1,000.00	446,000.00
Crude Oil Processed, BPSD	2010	555.85	489.07	0.00	1,348.62	0.00	2,393.54
Crude Oil Processed, BPSD	2011	528.29	805.28	0.00	1,257.26	0.00	2,590.83
Crude Oil Processed, BPSD	2012	810.75	621.87	0.00	883.93	0.00	2,316.55
Crude Oil Processed, BPSD	2013	572.80	443.32	0.00	822.71	0.00	1,838.83
Crude Oil Processed, BPSD	2014	307.43	595.90	0.00	607.63	0.00	1,510.96
Crude Oil Processed, BPSD	2015	83.36	234.46	0.00	210.78	0.00	528.61
Crude Oil Processed, BPSD	2016	261.38	960.89	0.00	374.00	0.00	1,596.27
Crude Oil Processed, BPSD	2017	419.59	1,327.05	0.00	373.54	0.00	2,120.19
Crude Oil Processed, BPSD	2018	446.92	22,654.82	0.00	2,887.10	0.00	25,988.84
Crude Oil Processed, BPSD	2019	1,175.49	0.00	0.00	7,821.26	455.90	9,452.65

**Table 51: Refinery Performance Capacity Utilisation, Percentage**

Year	KRPC	PHRC (New)	PHRC (Old)	WRPC	NDPR	Total
2010	0.51%	0.44%	0.00%	1.23%	0.00%	0.00%
2011	0.48%	0.73%	0.00%	1.14%	0.00%	0.00%
2012	0.74%	0.57%	0.00%	0.80%	0.00%	0.00%
2013	0.52%	0.40%	0.00%	0.75%	0.00%	0.00%
2014	0.28%	0.54%	0.00%	0.55%	0.00%	0.00%
2015	0.08%	0.21%	0.00%	0.19%	0.00%	0.00%
2016	0.24%	0.87%	0.00%	0.34%	0.00%	0.00%
2017	0.38%	1.21%	0.00%	0.34%	0.00%	0.00%
2018	0.41%	20.60%	0.00%	2.62%	0.00%	0.01%
2019	1.07%	0.00%	0.00%	7.11%	0.41%	0.00%

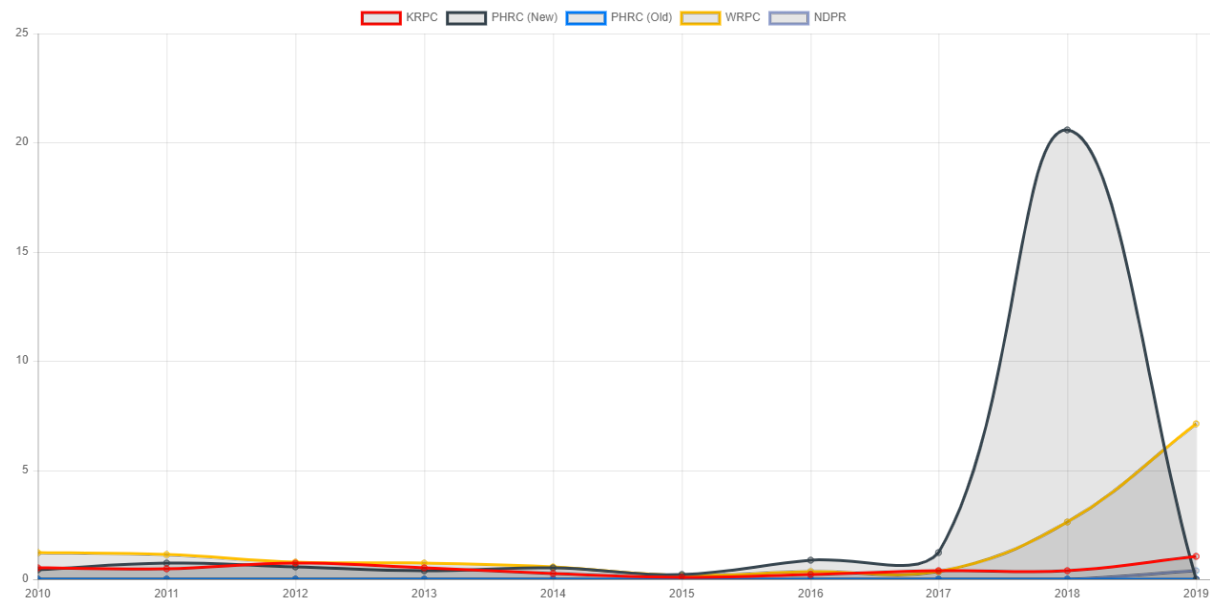


Figure 27 : Local Refinery Capacity (Capacity Utilization), Percentage

**Table 52: 2019 Status of Licensed Refinery Projects**

#	company	Project Type	License	Capacity (BSPD)	Location	Planned Commission Date
1	Starex Petroleum Refinery Ltd 100,000 BSPD Refinery	Conversion Plant	ATC	100,000.00	Starex Petroleum Refinery Ltd	
2	Aiteo Energy Resources Limited 100,000 BSPD Refinery	Hydro-skimming Plant	LTE	100,000.00	Aiteo Energy Resources Limited	
3	Capital Oil & Gas Industries Limited 100,000 BSPD Refinery	Hydro-skimming Plant	LTE	100,000.00	Capital Oil & Gas Industries Limited	
4	Chyzoob Oil & Gas Limited 10,000 BSPD Refinery	Topping Plant	LTE	10,000.00	Chyzoob Oil & Gas Limited	
5	Cross Country Oil & Gas Limited 20,000 BSPD Refinery	Hydro-skimming Plant	LTE	20,000.00	Cross Country Oil & Gas Limited	
6	Epic Refinery & Petrochemical Industries Limited 107,000 BSPD Refinery	Conversion Plant	LTE	107,000.00	Epic Refinery & Petrochemical Industries Limited	
7	Fresh Energy Limited 10,000 BSPD Refinery	Topping Plant	LTE	10,000.00	Fresh Energy Limited	
8	Green Energy International Limited 5,000 BSPD Refinery	Topping Plant	LTE	5,000.00	Green Energy International Limited	
9	Grifon Energy Limited 10,000 BSPD Refinery	Topping Plant	LTE	10,000.00	Grifon Energy Limited	
10	Masters Energy Oil & Gas Limited 30,000 BSPD Refinery	Hydro-skimming Plant	LTE	30,000.00	Masters Energy Oil & Gas Limited	
11	Sifax Oil & Gas Company Limited 120,000 BSPD Refinery	Hydro-skimming Plant	LTE	120,000.00	Sifax Oil & Gas Company Limited	
12	Hi Rev Oil Limited 50,000 BSPD Refinery	Hydro-skimming Plant	ATC	50,000.00	Hi Rev Oil Limited	
13	Kainji Resources Limited 24,000 BSPD Refinery	Hydro-skimming Plant	LTE	24,000.00	Kainji Resources Limited	
14	All Grace Energy Limited 5,000 BSPD Refinery	Topping Plant	LTE	5,000.00	All Grace Energy Limited	
15	Associated Worldwide Company Limited 20,000 BSPD Refinery	Hydro-skimming Plant	LTE	20,000.00	Associated Worldwide Company Limited	
16	Energia Limited 20,000 BSPD Refinery	Hydro-skimming Plant	LTE	20,000.00	Energia Limited	
17	Dee Jones 6,000 BSPD Refinery	Topping Plant	ATC	6,000.00	Dee Jones	
18	Shepha Petroleum & Petrochemicals Company Limited 30,000 BSPD Refinery	Hydro-skimming Plant	LTE	30,000.00	Shepha Petroleum & Petrochemicals Company Limited	
19	Don Mac Ltd. 10,000 BSPD Refinery	Hydro-skimming Plant	LTE	10,000.00	Don Mac Ltd.	
20	Southfield Petrochemical & Refinery Ltd. 20,000 BSPD Refinery	Hydro-skimming Plant	LTE	20,000.00	Southfield Petrochemical & Refinery Ltd.	
21	Mondonat Nigeria Ltd. 20,000 BSPD Refinery	Hydro-skimming Plant	LTE	20,000.00	Mondonat Nigeria Ltd.	
22	Waltersmith Refining & Petrochemical Company Limited 5,000 BSPD Refinery	Topping Plant	ATC	5,000.00	Waltersmith Refining & Petrochemical Company Limited	
23	Platinum Hydrocarbon Resources Ltd. 10,000 BSPD Refinery	Hydro-skimming Plant	LTE	10,000.00	Platinum Hydrocarbon Resources Ltd.	
24	Bua Refinery & Petrochemicals Ltd 150,000 BSPD Refinery	Conversion Plant	LTE	150,000.00	Bua Refinery & Petrochemicals Ltd	
25	OPAC Refineries 7,000 BSPD Refinery	Topping Plant	ATR	7,000.00	OPAC Refineries	
26	RG Shinjin Petrochemicals Limited 10,000 BSPD Refinery	Hydro-skimming Plant	ATC	10,000.00	RG Shinjin Petrochemicals Limited	
27	Dangote Oil Refinery Company 500,000 BSPD Refinery	Conversion Plant	ATC	500,000.00	Dangote Oil Refinery Company	
28	Eghudu Refinery Limited 24,000 BSPD Refinery	Hydro-skimming Plant	LTE	24,000.00	Eghudu Refinery Limited	
29	Ibafon Oil Limited 10,000 BSPD Refinery	Hydro-skimming Plant	LTE	10,000.00	Ibafon Oil Limited	
30	Azikel Petroleum Limited 12,000 BSPD Refinery	Hydro-skimming Plant	ATC	12,000.00	Azikel Petroleum Limited	
31	Jil-Amber Consortium 100,000 BSPD Refinery	Conversion Plant	ATR	100,000.00	Jil-Amber Consortium	
32	American Exploration Company Nigeria Limited 21,000 BSPD Refinery	Hydro-skimming Plant	LTE	21,000.00	American Exploration Company Nigeria Limited	
33	Ikwe-Onna Refinery Ltd 5,000 BSPD Refinery	Topping Plant	ATC	5,000.00	Ikwe-Onna Refinery Ltd	
34	Eko Petrochem & Refining Company Limited 20,000 BSPD Refinery	Hydro-skimming Plant	ATC	20,000.00	Eko Petrochem & Refining Company Limited	
35	Niger Delta Petroleum Resources (Train 2) 5,000 BSPD Refinery	Topping Plant	ATC	5,000.00	Niger Delta Petroleum Resources	
36	Niger Delta Petroleum Resources (Train 3) 5,000 BSPD Refinery	Hydro-skimming Plant	ATC	5,000.00	Niger Delta Petroleum Resources	
37	Petrolex Oil & Gas Limited 250,000 BSPD Refinery	Conversion Plant	ATC	20,000.00	Petrolex Oil & Gas Limited	
38	Edo petrochemical refinery limited 6,000 BSPD Refinery	Hydro-skimming Plant	ATC	6,000.00	Edo petrochemical refinery limited	
39	Lowrie Refinery Limited 5,000 BSPD Refinery	Topping plant	LTE	5,000.00	Lowrie Refinery Limited	
40	Conodit Refinery Nigeria Limited 20,000 BSPD Refinery	Hydro-skimming Plant	ATC	20,000.00	Conodit Refinery Nigeria Limited	
41	Excel Exploration & Production 5,000 BSPD Refinery	Topping Plant	LTE	5,000.00	Excel Exploration & Production 5,000 BSPD Refinery	
42	Duport Midstream 10,000 BSPD Refinery	Hydro-skimming plant	ATC	10,000.00	Duport Midstream	
43	Clairgold Oil & Gas Engineering Limited 20,000 BSPD Refinery	Hydro-skimming Plant	ATC	20,000.00	Clairgold Oil & Gas Engineering Limited	
44	Ogini Refinery Limited 5,000 BSPD Refinery	Topping Plant	LTE	5,000.00	Ogini Refinery Limited	
45	Etopo Energy Plc 30,000 BSPD Refinery	Hydro-skimming Plant	ATC	30,000.00	Etopo Energy Plc.	
46	NPDC/ND WESTERN OML 34 JV 10,000 BSPD Refinery	Topping Plant	LTE	10,000.00	NPDC/ND WESTERN OML 34 JV	
47	Gasoline Associate International Limited	Conversion Plant	ATC	100,000.00	Gasoline Associate International Limited	
48	Alexis Refinery Limited 10,000 BSPD Refinery	Topping Plant	LTE	10,000.00	Alexis Refinery Limited	
49	Frao Oil Nigeria Limited 12000 BSPD Refinery	Hydro-skimming Plant	ATC	12,000.00	Frao Oil Nigeria Limited	
50	Gazingstock Petroleum Company Limited 5,000 BSPD Refinery	Topping Plant	ATC	5,000.00	Gazingstock Petroleum Company Limited	
51	Kingdom Global Trading Petroleum & Gas Nig. Ltd. 12,000 BSPD Refinery	Hydro-skimming Plant	LTE	12,000.00	Kingdom Global Trading Petroleum & Gas Nig. Ltd.	
52	Resource Petroleum & Petrochemicals International Incorporated 100,000 BSPD Refinery	Conversion Plant	ATC	100,000.00	Resource Petroleum & Petrochemicals International Incorporated	
53	Amakpe International Refinery Inc. 12,000 BSPD Refinery	Hydro-skimming Plant	ATC	12,000.00	Amakpe International Refinery Inc.	

**Table 53: Domestic Gas Supply Obligation for E&P Companies, MMSCF/day**

#	Company / Gas Producers	2020	2021	2022	2023	2024
1	SHELL PETROLEUM DEVELOPMENT CO.	510.00	570.00	630.00	630.00	
2	CHEVRON NIGERIA LTD.	500.00	530.00	560.00	560.00	
3	MOBIL PRODUCING NIGERIA UNLTD	290.00	310.00	340.00	340.00	
4	NIGERIA AGIP OIL COMPANY	340.00	370.00	400.00	400.00	
5	TOTAL E&P	220.00	250.00	280.00	280.00	
6	ADDAX DEVELOPMENT	40.00	60.00	60.00	60.00	
7						
8	NIGERIAN PET DEV CO. (NPDC)	380.00	420.00	460.00	460.00	
9	AITEO E&P CO	25.00	27.00	28.00	30.00	

#	Company / Gas Producers	2020	2021	2022	2023	2024
10	SEPLAT PRODUCTION AND DEV. CO.	130.00	230.00	230.00	230.00	
11	EROTON E&P CO	42.00	44.00	47.00	47.00	
12	AMNI INTERNATIONAL DEVELOPMENT CO.	33.00	35.00	37.00	39.00	
13	PLATFORM PETROLEUM	23.00	24.00	26.00	27.00	
14	ENERGIA LTD.	23.00	24.00	26.00	27.00	
15	Equinor	18.00	19.00	20.00	21.00	
16	MONI PULO LTD	11.00	11.00	12.00	13.00	
17	NEWCROSS E&P CO	10.00	11.00	12.00	12.00	
18	PANOCEAN OIL CORPORATION NIG	10.00	14.00	18.00	20.00	
19	ATLAS PETROLEUM INTERNATIONAL LTD	10.00	10.00	11.00	11.00	
20	NIGER DELTA PET. RESOURCES LTD	9.00	9.00	10.00	10.00	
21	ORIENTAL ENERGY RESOURCES	8.00	8.00	9.00	9.00	
22	CONTINENTAL OIL AND GAS LTD.	8.00	8.00	9.00	9.00	
23	EXPRESS PET AND GAS CO LTD	8.00	8.00	8.00	9.00	
24	MIDWESTER OIL AND GAS CO. LTD	6.00	7.00	7.00	8.00	
25	UNIVERSAL ENERGY	6.00	6.00	7.00	7.00	
26	DUBRI OIL COMPANY	6.00	6.00	6.00	7.00	
27	ALLIED ENERGY RESOURCES NIGERIA LTD	5.00	6.00	6.00	6.00	
28	PILLAR OIL LTD	4.00	4.00	4.00	4.00	
29	NETWORK E&P NIGERIA	2.00	2.00	3.00	3.00	
30	CONSOLIDATED OIL COMPANY LIMITED	2.00	2.00	2.00	2.00	
31	PRIME EXPLORATION	1.00	2.00	2.00	2.00	
32	WALTERSMITH PETROMAN OIL LIMITED	1.00	1.00	2.00	2.00	
33	BRITANIA-U	1.00	1.00	1.00	1.00	
34	CONCOCOPHILIPS NIGERIA LIMITED	7.00	7.00	7.00	8.00	
35	GEC PETROLEUM DEVELOPMENT COMPANY LTD (GLOBAL ENERGY)	6.00	6.00	7.00	7.00	
36	STATOIL NIGERIA LIMITED	65.00	69.00	73.00	77.00	
37	WAEP/ Dangote	25.00	27.00	28.00	30.00	
38	SUNLINK PETROLEUM	20.00	21.00	22.00	23.00	
39	YINKA FOLAWIYO PET CO LTD	13.00	14.00	14.00	15.00	
40	PEAK PETROLEUM INDUSTRIES NIGERIA LIMITED	6.00	6.00	6.00	7.00	
41						
42	MILLENIUM OIL AND GAS LIMITED	2.00	2.00	2.00	2.00	
43	ENAGEED RESOURCES LIMITED	2.00	2.00	2.00	2.00	
44	BAYELSA OIL COMPANY LTD	1.00	2.00	2.00	2.00	
45	SUMMIT OIL INTERNATIONAL	1.00	1.00	1.00	1.00	
46	Dansaki	1.00	1.00	1.00	1.00	
47	EMERALD ENERGY RESOURCES LIMITED	1.00	1.00	1.00	1.00	
48	GUARANTEE PETROLEUM LIMITED (OPERATOR)	0.00	1.00	1.00	1.00	
49	GREEN ENERGY INTERNATIONAL LIMITED	0.00	0.00	0.00	1.00	
50	SOGENAL LIMITED	0.00	0.00	0.00	0.00	
51	Texaco Outershelf	0.00	0.00	0.00	0.00	
52	SAHARA ENERGY E&P	0.00	0.00	0.00	0.00	
53	EXCEL EXPLORATION & PRODUCTION LIMITED	0.00	0.00	0.00	0.00	
54	BICTA ENERGY & MANAGEMENT SYSTEMS LIMITED	0.00	0.00	0.00	0.00	
55	First E&P/ Dangote	0.00	0.00	0.00	0.00	
56	DEL SIGMA	0.00	0.00	0.00	0.00	
57	MOVIDO E&P LIMITED	0.00	0.00	0.00	0.00	
58	GOLAND PETROLEUM DEV. CO. LIMITED	0.00	0.00	0.00	0.00	
59	CAVENDISH PETROLEUM NIGERIA LIMITED	0.00	0.00	0.00	0.00	
60	CHORUS ENERGY LIMITED	0.00	0.00	0.00	0.00	
61	EURAFRIC ENERGY LIMITED	0.00	0.00	0.00	0.00	
62	INDEPENDENT ENERGY LIMITED	0.00	0.00	0.00	0.00	
63	AFRICOIL & MARKETING CO. LTD.	0.00	0.00	0.00	0.00	
64	ALL GRACE ENERGY LIMITED	0.00	0.00	0.00	0.00	
65	BELEMA	0.00	0.00	0.00	0.00	
66	DAJO OIL LIMITED	0.00	0.00	0.00	0.00	
67	OANDO PLC	0.00	0.00	0.00	0.00	
68	STERLING GLOBAL OIL RESORCE LIMITED	0.00	0.00	0.00	0.00	
69	TRANSNATIONAL CORPORATION	0.00	0.00	0.00	0.00	
Total Gas		3366.00	3764.00	4055.00	4079.00	0
DSO						

Table 54: 2019 DGSO Allocation vs Supply Performance

#	Company	Supply Oblig (MMscf/d)	Actual Supply (MMscf/d)	% Performance
1	SHELL PETROLEUM DEVELOPMENT CO.	630.00	103.69	16.46
2	CHEVRON NIGERIA LTD.	560.00	245.90	43.91
3	MOBIL PRODUCING NIGERIA UNLTD	340.00	0.00	0.00
4	NIGERIA AGIP OIL COMPANY	400.00	0.00	0.00
5	TOTAL E&P	280.00	11.30	4.04
6	ADDAX DEVELOPMENT	60.00	0.00	0.00
7		610.00	0.00	0.00
8	NIGERIAN PET DEV CO. (NPDC)	460.00	306.70	66.67
9	AITEO E&P CO	30.00	0.00	0.00
10	SEPLAT PRODUCTION AND DEV. CO.	230.00	284.85	123.85
11	EROTON E&P CO	47.00	23.34	49.66
12	AMNI INTERNATIONAL DEVELOPMENT CO.	39.00	0.00	0.00
13	PLATFORM PETROLEUM	27.00	24.00	88.89
14	ENERGIA LTD.	27.00	5.14	19.04
15	Equinor	21.00	0.00	0.00
16	MONI PULO LTD	13.00	0.00	0.00
17	NEWCROSS E&P CO	12.00	0.00	0.00
18	PANOCEAN OIL CORPORATION NIG	20.00	11.24	56.21
19	ATLAS PETROLEUM INTERNATIONAL LTD	11.00	0.00	0.00
20	NIGER DELTA PET. RESOURCES LTD	10.00	1.04	10.36
21	ORIENTAL ENERGY RESOURCES	9.00	0.00	0.00
22	CONTINENTAL OIL AND GAS LTD.	9.00	0.00	0.00
23	EXPRESS PET AND GAS CO LTD	9.00	0.00	0.00
24	MIDWESTER OIL AND GAS CO. LTD	8.00	0.00	0.00
25	UNIVERSAL ENERGY	7.00	0.00	0.00
26	DUBRI OIL COMPANY	7.00	0.00	0.00
27	ALLIED ENERGY RESOURCES NIGERIA LTD	6.00	0.00	0.00
28	PILLAR OIL LTD	4.00	0.00	0.00
29	NETWORK E&P NIGERIA	3.00	0.00	0.00
30	CONSOLIDATED OIL COMPANY LIMITED	2.00	0.00	0.00
31	PRIME EXPLORATION	2.00	0.00	0.00
32	WALTERSMITH PETROMAN OIL LIMITED	2.00	0.00	0.00
33	BRITTANIA-U	1.00	0.00	0.00
34	CONCOCOPHILIPS NIGERIA LIMITED	8.00	0.00	0.00
35	GEC PETROLEUM DEVELOPMENT COMPANY LTD (GLOBAL ENERGY)	7.00	0.00	0.00
36	STATOIL NIGERIA LIMITED	77.00	0.00	0.00
37	WAEP/ Dangote	30.00	0.00	0.00
38	SUNLINK PETROLEUM	23.00	0.00	0.00
39	YINKA FOLAWIYO PET CO LTD	15.00	0.00	0.00
40	PEAK PETROLEUM INDUSTRIES NIGERIA LIMITED	7.00	0.00	0.00
41		5.00	0.00	0.00
42	MILLENIUM OIL AND GAS LIMITED	2.00	0.00	0.00
43	ENAGEED RESOURCES LIMITED	2.00	0.00	0.00
44	BAYELSA OIL COMPANY LTD	2.00	0.00	0.00
45	SUMMIT OIL INTERNATIONAL	1.00	0.00	0.00
46	Dansaki	1.00	0.00	0.00
47	EMERALD ENERGY RESOURCES LIMITED	1.00	0.00	0.00
48	GUARANTEE PETROLEUM LIMITED (OPERATOR)	1.00	0.00	0.00
49	GREEN ENERGY INTERNATIONAL LIMITED	1.00	0.00	0.00
50	SOGENAL LIMITED	0.00	0.00	0.00
51	Texaco Outershelf	0.00	0.00	0.00
52	SAHARA ENERGY E&P	0.00	0.00	0.00
53	EXCEL EXPLORATION & PRODUCTON LIMITED	0.00	0.00	0.00
54	BICTA ENERGY & MANAGEMENT SYSTEMS LIMITED	0.00	0.00	0.00
55	First E&P/ Dangote	0.00	0.00	0.00
56	DEL SIGMA	0.00	0.00	0.00
57	MOVIDO E&P LIMITED	0.04	0.00	0.00
58	GOLAND PETROLEUM DEV. CO. LIMITED	0.04	0.00	0.00
59	CAVENDISH PETROLEUM NIGERIA LIMITED	0.03	0.00	0.00

#	Company	Supply Oblig (MMscf/d)	Actual Supply (MMscf/d)	% Performance
60	CHORUS ENERGY LIMITED	0.00	0.00	0.00
61	EURAFRIC ENERGY LIMITED	0.00	0.00	0.00
62	INDEPENDENT ENERGY LIMITED	0.00	0.00	0.00
63	AFRICOIL & MARKETING CO. LTD.	0.00	0.00	0.00
64	ALL GRACE ENERGY LIMITED	0.00	0.00	0.00
65	BELEMA	0.00	0.00	0.00
66	DAJO OIL LIMITED	0.00	0.00	0.00
67	OANDO PLC	0.00	0.00	0.00
68	STERLING GLOBAL OIL RESORCE LIMITED	0.00	0.00	0.00
69	TRANSNATIONAL CORPORATION	0.00	0.00	0.00

**Table 55: Summary of Domestic Gas Supply Obligation Performance in MMSCF/Day**

Year	Perf	SHELL PETROLEUM	NIGERIAN AGIP O	MOBIL PRODUCING	TOTAL E&P	NIGERIAN PET DE	ADDAX DEVELOPME	PAÑOCEAN OIL CO	SEPLAT PRODUCTI	MONI PULO LTD	NIGER DELTA PET	PLATFORM PETROL	FRONTIER OIL LT	UNIVERSAL ENERG	AMNI INTERNATIO	CONSOLIDATED OI	CONTINENTAL OIL	BRITANNIA-U	ENERGIA LTD.	EROTON E&P CO	NEWCROSS E&P CO	AITED E&P CO	DUBRI OIL COMPA	CHEVRON NIGERIA	Total
2010	Obligation	1,100.0	328.0	517.0	270.0	120.0	140.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	455.0	2,995.00
2010	Supply	530.0	97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.0	795.00
2010	% Perf	48.2%	29.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.9%	36.9%
2011	Obligation	1,364.00	415.00	640.00	327.00	120.00	140.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	564.00	6,630.00
2011	Supply	553.00	101.00	0.00	0.00	0.00	0.00	44.40	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	0.00	0.00	268.00	1,761.40
2011	% Perf	40.5%	24.3%	0.0%	0.0%	0.0%	0.0%	68.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.5%	47.5%
2012	Obligation	1,753.00	544.00	823.00	410.00	120.00	144.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	725.00	11,214.00
2012	Supply	538.00	120.00	0.00	0.00	65.00	0.00	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	358.00	2,878.40
2012	% Perf	30.7%	22.1%	0.0%	0.0%	54.2%	0.0%	55.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	49.4%	49.4%
2013	Obligation	1,948.00	608.00	915.00	452.00	120.00	160.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	805.00	16,287.00
2013	Supply	156.69	87.29	0.00	0.00	321.00	0.00	17.39	130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	318.28	3,909.05
2013	% Perf	8.0%	14.4%	0.0%	0.0%	267.5%	0.0%	26.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.5%	39.5%
2014	Obligation	550.00	300.00	400.00	250.00	700.00	0.00	20.00	150.00	11.00	5.00	20.00	7.50	5.00	8.00	0.00	5.00	1.00	0.00	0.00	0.00	0.00	3.00	500.00	19,222.50
2014	Supply	209.40	95.00	0.00	0.00	344.00	0.00	12.86	125.00	0.00	0.00	0.00	19.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	494.00	5,208.32
2014	% Perf	38.1%	31.7%	0.0%	0.0%	49.1%	0.0%	64.3%	83.3%	0.0%	0.0%	0.0%	253.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	98.8%	98.8%
2015	Obligation	750.00	350.00	400.00	280.00	800.00	0.00	20.00	210.00	13.00	7.00	23.00	9.00	7.00	8.00	0.00	5.00	1.00	0.00	0.00	0.00	0.00	40.00	500.00	22,645.50
2015	Supply	128.35	101.93	0.00	0.00	450.00	0.00	28.58	172.50	0.00	0.00	0.00	81.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	436.00	6,607.17
2015	% Perf	17.1%	29.1%	0.0%	0.0%	56.3%	0.0%	142.9%	82.1%	0.0%	0.0%	0.0%	905.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	87.2%	87.2%
2016	Obligation	400.00	300.00	250.00	180.00	300.00	0.00	20.00	130.00	10.00	7.00	20.00	15.00	5.00	10.00	0.00	6.00	0.70	0.00	0.00	0.00	0.00	4.00	470.00	24,773.20
2016	Supply	73.86	149.37	0.00	0.00	280.07	0.00	5.13	203.40	0.00	0.00	0.00	70.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	197.86	7,587.49
2016	% Perf	18.5%	49.8%	0.0%	0.0%	93.4%	0.0%	25.7%	156.5%	0.0%	0.0%	0.0%	470.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	42.1%	42.1%
2017	Obligation	390.00	280.00	230.00	160.00	300.00	0.00	8.00	120.00	8.00	6.00	18.00	13.00	4.00	8.00	0.00	6.00	0.50	18.00	32.00	8.00	25.00	3.50	440.00	26,851.20
2017	Supply	78.84	164.17	0.00	15.01	162.28	0.00	13.58	251.34	0.00	4.74	20.52	77.22	0.00	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00	438.44	8,815.22
2017	% Perf	20.2%	58.6%	0.0%	9.4%	54.1%	0.0%	169.8%	209.5%	0.0%	79.0%	114.0%	594.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.8%	0.0%	0.0%	0.0%	0.0%	99.6%	99.6%
2018	Obligation	390.00	280.00	230.00	160.00	300.00	0.00	8.00	130.00	8.00	6.00	18.00	13.00	4.00	8.00	0.00	6.00	0.50	18.00	32.00	8.00	25.00	3.50	220.00	28,719.20
2018	Supply	102.48	178.45	0.00	8.14	319.07	0.00	14.74	319.07	0.00	0.90	21.89	60.38	0.00	0.00	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00	249.53	10,094.81
2018	% Perf	26.3%	63.7%	0.0%	5.1%	106.4%	0.0%	184.3%	245.4%	0.0%	15.0%	121.6%	464.5%	0.0%	0.0%	0.0%	0.0%	0.0%	27.4%	0.0%	0.0%	0.0%	0.0%	113.4%	113.4%
2019	Obligation	630.00	0.00	340.00	280.00	460.00	60.00	20.00	230.00	13.00	10.00	27.00	0.00	7.00	39.00	2.00	9.00	1.00	27.00	47.00	12.00	30.00	7.00	560.00	31,530.20
2019	Supply	103.69	182.89	0.00	11.30	306.70	0.00	11.24	284.85	0.00	1.04	24.00	76.38	0.00	0.00	0.00	0.00	0.00	5.14	23.34	0.00	0.00	0.00	245.90	11,371.28
2019	% Perf	16.5%	0.0%	0.0%	4.0%	66.7%	0.0%	56.2%	123.8%	0.0%	10.4%	88.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.0%	49.7%	0.0%	0.0%	0.0%	43.9%	43.9%

**Table 56: Approved Gas Supply Structure for the Textile Industry**

Sector	2018	2019
Upstream EPP (\$/Mcf)	0.00	
Midstream (\$/Mcf)	0.80	
Downstream (\$/Mcf)	1.65	
Total (\$/Mcf)	0	0

**Table 57: 2019 Summary of Major Gas Supply Facilities**

#	Company	Facility	Facility Type	Location	Design Capacity Mmscf/D	Design Life	Date of Commissioning
1	ADDAX DEVELOPME	Izombe Flare Down Gas Compression Plant	Compression Plant		16.78		
2	MOBIL PRODUCING	Bonny River Terminal I and II	Fractionation Plant		65,000 bpd		2008
3	MOBIL PRODUCING	OSO - RX (Offshore)	Fractionation Plant		600		2006
4	MOBIL PRODUCING	BRT LPG Fractionating Plant	Fractionation Plant		50bbpd		1998
5	MOBIL PRODUCING	EAP - GX (Offshore)	Fractionation Plant		950		2008
6	NIGERIAN AGIP O	Kwale Gas Compression Station	Compressor Station		375		
7	NIGERIAN AGIP O	Kwale Gas Plant	AG Plant		375		1985

#	Company	Facility	Facility Type	Location	Design Capacity Mmscf/D	Design Life	Date of Commissioning
8	NIGERIAN AGIP O	Obiafu / Obricom Gas Plant	AG Plant		1000		1994
9	CHEVRON NIGERIA	Escravos Gas Plant	Fractionation Plant		680	20	1997
10	CHEVRON NIGERIA	Meren Gas Gathering Compression Station	Gas Gathering and Compression		120		
11	CHEVRON NIGERIA	Olero Creek Compression Station	Gas Gathering and Compression		52		
12	CHEVRON NIGERIA	Okan GGCP	Gas Gathering and Compression		140		
13	CHEVRON NIGERIA	Escravos Gas To Liquid Plant	GTL Plant		340	25	2014
14	CHEVRON NIGERIA	Sonam NAG Well Platform	NAG Plant				
15	CHEVRON NIGERIA	Okan NAG Well Platform	NAG Plant				
16	CHEVRON NIGERIA	LPG FSO	Floating Production Storage (FPS)		13000m3/d		
17	CHEVRON NIGERIA	Meji GGCP	Gas Gathering and Compression		70		
18	CHEVRON NIGERIA	Dibi Compression Station	Gas Gathering and Compression		52		
19	CHEVRON NIGERIA	Abiteye Gas Compression Plant	Gas Gathering and Compression		29		
20	SEPLAT PRODUCTI	Oben Gas Plant	AG/NAG Plant		465	25	2010
21	SEPLAT PRODUCTI	Sapele Gas plant	AG/NAG Plant		120	25	2010
22	SEPLAT PRODUCTI	Jisike AG Plant	Compressor Station				
23	EROTON E&P CO	Cawthorne Channel AGG Plant	AGG Plant		150		2015
24	EROTON E&P CO	Alakiri NAG Plant	AG/NAG Plant		120		2015
25	EROTON E&P CO	Krakama FS Booster compressor station	AGG Plant		5		
26	NEWCROSS E&P CO	Awoba AGG Plant	AGG Plant		50		2014
27	NEWCROSS E&P CO	Ekulama 1 FS Booster compressor station	Compressor Station		12		
28	NEWCROSS E&P CO	Ekulama 2 FS Booster compressor station	Compressor Station		12		
29	AITEO E&P CO	Nembe Creek 3 FS Booster compressor station	Compressor Station		5		
30	AITEO E&P CO	Santa Barbara FS Booster Compressor Station	Compressor Station		8		
31	AITEO E&P CO	Nembe Creek 2 FS Booster compressor station	Compressor Station		10		
32	AITEO E&P CO	Odeama Creek FS Booster Compressor Station	Compressor Station		5		
33	AITEO E&P CO	Nembe Creek 1 FS Booster compressor station	Compressor Station		10		
34	AITEO E&P CO	Nembe Creek 4 FS Booster compressor station	Compressor Station		5		
35	SHELL PETROLEUM	Imo River 2 FS Booster compressor station	Compressor Station				
36	SHELL PETROLEUM	Ogbotobo AGG	AGG Plant		10	25	2019
37	SHELL PETROLEUM	Opukushi AGG	AGG Plant		30	25	2019
38	SHELL PETROLEUM	Benisede AGG	AGG Plant		20	25	2019
39	SHELL PETROLEUM	Tunu AGG	AGG Plant		160	25	2019
40	SHELL PETROLEUM	Gbaran Central Processing Facility	NAG Plant		1200	25	2010
41	SHELL PETROLEUM	Soku LNG Gas Supply Plant	AG/NAG Plant		1100	25	1999
42	SHELL PETROLEUM	Okoloma NAG Plant	NAG Plant		240	25	2008
43	SHELL PETROLEUM	Nkali FS Booster compressor station	Compressor Station				
44	SHELL PETROLEUM	Soku FS Booster compressor station	Compressor Station		107.5		
45	SHELL PETROLEUM	Batan FS Booster compressor station	Compressor Station		5		
46	SHELL PETROLEUM	Oguta Gas Injection Plant	Injection Plant				2004
47	SHELL PETROLEUM	Agbada 1 FS Booster compressor station	Compressor Station		15.5/12		
48	SHELL PETROLEUM	Imo River 3 FS Booster compressor station	Compressor Station				
49	SHELL PETROLEUM	Agbada AGG Plant	AGG Plant		65	25	2004
50	SHELL PETROLEUM	Belema AGG Plant	AGG Plant		55	25	2001
51	SHELL PETROLEUM	Bonny NAG Plant	NAG Plant		450	25	2002
52	SHELL PETROLEUM	Imo River AGG Plant	AGG Plant		68	25	2003
53	SHELL PETROLEUM	Obigbo North AGG Plant	AGG Plant		50	25	2001
54	SHELL PETROLEUM	Obigbo North NAG Plant	NAG Plant		90	25	2001
55	SHELL PETROLEUM	Otumara CPF	NAG Plant		30	25	2019
56	TOTAL E&P	Obite AG Plant	AG Plant		334.1	25	1999
57	TOTAL E&P	Amenam kpono AG Plant	AG Plant		441.5	25	2006
58	NPDC/ NECONDE E	Batan FS Booster compressor station	Compressor Station		10		
59	NPDC/ NECONDE E	Jones Creek NGC Compression Station	Compressor Station		20		
60	NPDC/ NECONDE E	EGWA 2 FS Booster compressor station	Compressor Station		10		
61	NPDC/ NECONDE E	EGWA 1 FS Booster compressor station	Compressor Station		10		
62	ENERGIA LTD.	Nedo Gas Plant	AG Plant		25	25	2011
63	NIGER DELTA PET	Ogbele Gas Processing Plant	Gas Processing Facility		100		2012
64	Equinor	Uquo Gas Processing Facility	Gas Processing Facility		200		2013
65	HERITAGE OIL &	Afiesere Gas Lift Compressor Station	Compressor Station		21		
66	HERITAGE OIL &	Afiesere NGC compressor station	Compressor Station		8		
67	Dangote Industr	Ogharefe Gas Plant	AG/NAG Plant		130	25	
68	Dangote Industr	Utorogu NAG Plant	Gas Processing Facility		150		2017
69	Dangote Industr	Utorogu NAG Plant	Gas Processing Facility		360		2012
70	Dangote Industr	Ughelli East	Gas Processing Facility		150		2012



#	Company	Facility	Facility Type	Location	Design Capacity Mmscf/D	Design Life	Date of Commissioning
71	Dangote Industr	Odidi AGG Plant	Gas Processing Facility		80		2011
72	Dangote Industr	Oredo to Pan Ocean Oil Company	Gas Processing Facility		100		2019
73	Dangote Industr	Oredo Integrated Gas Handling Facility	Gas Processing Facility		100		2010
74	Dangote Industr	Egbaoma Gas Processing Plant	AG Plant		60		2008
75	Greenville Liqu	Greenville Processing Plant Train 4	Gas Plant		80		
76	Greenville Liqu	Greenville Processing Plant Train 3	Gas Plant		40		2019
77	Greenville Liqu	Greenville Processing Plant Train 5	Gas Plant		80		
78	Indorama Eleme	Indorama Eleme Fertilizer Company Limited	Fertilizer Plant		1.4MM MTPA		2016
79	Indorama Eleme	Indorama Eleme Petrochemical Limited	Petrochemical Plant		366,984.55 MTPA		2006
80	Nigeria LNG Lim	Nigeria LNG	Gas Processing Facility		3410.894	20	1999
81	PNG Gas Limited	Egbaoma Gas Processing Plant	Gas Processing Plant		30	25	2018

**Table 58: 2019 Status of Major Midstream Gas Projects**

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

**Table 59: 2019 Major Petrochemical Plants**

#	Location	Ownership	Processing Plant Type	Capacity MTPA	Feedstock	product
1	Kaduna	Federal Govt	Linear Alkyl Benzene	120,000.00	Raw Kerosine	Kero Solvent
2	Port Harcourt	River State Govt	Carbon Black (CB)	16,000.00	Reformate	Cracked - C5
3	Bayelsa	Niger Delta Petroleum Resources (NDPR)	Polyethylene (PE)	7,000.00	Ughelli Blend	Heavy 2
4	Eleme	Indorama	Linear Alkyl Benzene	19,000.00	Decant Oil	Condensate
5	Warri	Federal Govt	Polypropylene (PP)	12,000.00	Natural Gas Liquid (NGL)	LPG

**Table 60: 2019 Major Petrochemical Plants Projects**

#	Plant Name	Plant Type	Capacity by Unit	Output By Unit	Status	Start Year	Estimated Completion
1	IEFCL Train 1 Urea Fertiliser Complex	1.4 million MTPA urea fertiliser plant	84.78	2.45 Million TPA Urea 1 million TPA methanol	0	No info	
2	DFL 2.5mil TPA Urea Fertiliser Plant	2.5MTA Urea Fertilizer Plant	210	1.2 million MTPA methanol	0	No info	1/22/2021
3	IEFCL Train 2 Project	1.4 million MTPA urea fertiliser plant	84.78	3,000 MTPD methanol	0	No info	
4	Notore Train 1 Fertiliser Plant regularisation	Fertiliser Plant	To be determined				
5	"Natural Gas to Poly-olefin" Complex project, IPP	1 mil. MTPA Polymer Petrochemical Plant	No info				
6	Index Thermal Ammonia & Urea (Fertiliser) Production Plant Project	Fertiliser Plant	No info				
7	Brass Fertilizer Plant Project	Methanol and Urea Fertilizer Plant	No info				
8	Uraga methanol plant project	Methanol plant	No info				
9	QUANTUM METHANOL	Methanol Plant	No info				

**Table 61: 2019 Existing Blending Plants, their Locations and Total Capacities**

Market Category	Company	Location	Storage Capacity Litres
Subtotal Major Marketers			0
Subtotal Independent Marketers			0
Grand Total			0

**Table 62: 2019 Licences / Approvals / Permits Granted**

#	Facility Type	Licences / Approvals / Permit Issued
1	Oil \$ Condensate	43
2	Refineries	52
3	Fertilizers	5
4	Gas	0
5	Pipelines - Oil	6

#	Facility Type	Licences / Approvals / Permit issued
6	Pipelines - Condensate	1
7	Pipelines - Gas	8
8	Pipelines - Water Injector	1
9	Technology Adaptation	0
10	Metering Fabrication	9
11	Metering UPGRADE	3
12	Metering COMMISSIONED	1
13	Metering Under Construction	1
14	Metering commissioning	3
15	Metering CONCEPT	5
16	Metering CONSTRUCTION	2
17	Metering DED	3

**Table 63: 2019 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	0.00	0.00	0.00	0.00	0.00	0.00	0
	ago	18,013,000.00	0.00	0.00	2,165,566.00	0.00	20,178,566.00	23,487,850,824
	dpk	0.00	0.00	0.00	0.00	0.00	0.00	0
	lpg	51,835,330.19	4,015,200.00	0.00	0.00	0.00	55,850,530.19	97,983,555,810
	fuel oil	26,964,000.00	0.00	0.00	0.00	0.00	26,964,000.00	28,312,200,000
February	pms	26,377,000.01	0.00	0.00	0.00	0.00	26,377,000.01	35,371,557,013
	ago	35,935,000.00	0.00	0.00	1,588,919.00	0.00	37,523,919.00	43,677,841,716
	dpk	0.00	0.00	0.00	0.00	0.00	0.00	0
	lpg	52,027,500.00	4,799,550.00	0.00	0.00	0.00	56,827,050.00	99,696,751,422
	fuel oil	51,959,000.00	0.00	0.00	0.00	0.00	51,959,000.00	54,556,950,000
March	pms	31,350,000.00	0.00	0.00	0.00	0.00	31,350,000	42,040,350,000
	ago	8,164,000.00	0.00	0.00	1,149,319.00	0.00	9,313,319	10,840,703,316
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	27,305,943.40	0.00	0.00	0.00	0.00	27,305,943	47,905,246,736
	fuel oil	24,110,000.00	0.00	0.00	0.00	0.00	24,110,000	25,315,500,000
April	pms	0.00	0.00	0.00	0.00	0.00	0	0
	ago	0.00	0.00	0.00	2,230,433.00	0.00	2,230,433	2,596,224,012
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	0.00	4,624,200.00	0.00	0.00	0.00	4,624,200	8,112,645,614
	fuel oil	0.00	0.00	0.00	0.00	0.00	0	0
May	pms	4,879,000.00	0.00	0.00	0.00	0.00	4,879,000	6,542,739,000
	ago	5,189,000.00	0.00	0.00	2,184,167.00	0.00	7,373,167	8,582,366,388
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	21,053,490.57	4,728,150.00	0.00	0.00	0.00	25,781,641	45,231,026,618
	fuel oil	7,817,000.00	0.00	0.00	0.00	0.00	7,817,000	8,207,850,000
June	pms	0.00	0.00	0.00	0.00	0.00	0	0
	ago	0.00	0.00	0.00	1,978,438.00	0.00	1,978,438	2,302,901,832
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	0.00	14,547,750.00	0.00	0.00	0.00	14,547,750	25,522,412,575
	fuel oil	0.00	372,480.00	0.00	0.00	0.00	372,480	391,104,000
July	pms	7,965,000.00	0.00	0.00	0.00	0.00	7,965,000	10,681,065,000
	ago	0.00	0.00	0.00	862,029.00	0.00	862,029	1,003,401,756
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	14,246,320.76	5,856,900.00	0.00	0.00	0.00	20,103,221	35,268,869,366
	fuel oil	639,000.00	0.00	0.00	0.00	0.00	639,000	670,950,000
August	pms	13,716,000.00	0.00	0.00	0.00	0.00	13,716,000	18,393,156,000
	ago	0.00	0.00	0.00	1,303,537.00	0.00	1,303,537	1,517,317,068
	dpk	0.00	0.00	0.00	0.00	0.00	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
	lpg	0.00	3,766,350.00	0.00	0.00	0.00	3,766,350	6,607,643,010
	fuel oil	390,000.00	0.00	0.00	0.00	0.00	390,000	409,500,000
September	pms	672,000.00	0.00	0.00	0.00	0.00	672,000	901,152,000
	ago	0.00	0.00	0.00	763,298.00	0.00	763,298	888,478,872
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	0.00	7,569,450.00	0.00	0.00	0.00	7,569,450	13,279,759,816
	fuel oil	0.00	0.00	0.00	0.00	0.00	0	0
October	pms	0.00	0.00	0.00	0.00	0.00	0	0
	ago	0.00	0.00	0.00	0.00	0.00	0	0
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	0.00	0.00	0.00	0.00	0.00	0	0
	fuel oil	0.00	0.00	0.00	0.00	0.00	0	0
November	pms	0.00	0.00	0.00	0.00	0.00	0	0
	ago	0.00	0.00	0.00	0.00	0.00	0	0
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	0.00	0.00	0.00	0.00	0.00	0	0
	fuel oil	0.00	0.00	0.00	0.00	0.00	0	0
December	pms	0.00	0.00	0.00	0.00	0.00	0	0
	ago	0.00	0.00	0.00	19,237.00	0.00	19,237	22,391,868
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	0.00	0.00	0.00	0.00	0.00	0	0
	fuel oil	0.00	0.00	0.00	0.00	0.00	0	0
Total	pms	113,930,019,004.26	0.00	0.00	0.00	0.00	113,930,019,004	152,780,155,484,713
	ago	78,338,364,001.53	0.00	0.00	16,581,113,652.00	0.00	94,919,477,654	110,486,271,988,709
	dpk	0.00	0.00	0.00	0.00	0.00	0	0
	lpg	292,050,654,215.18	87,557,256,736.95	0.00	0.00	0.00	379,607,910,952	665,979,943,287,396
	fuel oil	117,472,949,995.30	391,104,000.00	0.00	0.00	0.00	117,864,053,995	123,757,256,695,065

**Table 64: 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
2010	pms	861,425,277,300.00	320,159,418,570.00	358,956,698,193.00	0.00	0.00	1,540,541,394,063.00	2,065,866,009,438,483
2010	ago	901,392,520,800.00	351,445,297,800.00	260,229,292,176.00	0.00	0.00	1,513,067,110,776.00	1,761,210,116,943,264
2010	lpg	147,827,799,601.30	0.00	18,145,294,549.20	0.00	0.00	165,973,094,150.50	291,181,370,673,602
2010	fuel oil	668,779,860,000.00	408,263,908,500.00	271,851,745,200.00	0.00	0.00	1,348,895,513,700.00	1,416,340,289,385,000
2011	pms	902,690,931,600.00	549,657,367,380.00	708,377,993,280.00	0.00	0.00	2,160,726,292,260.00	2,897,533,957,920,660
2011	ago	863,457,295,200.00	304,513,411,440.00	480,596,231,040.00	0.00	0.00	1,648,566,937,680.00	1,918,931,915,459,520
2011	lpg	62,611,687,265.40	0.00	465,263,962.80	0.00	0.00	63,076,951,228.20	110,661,509,388,291
2011	fuel oil	644,577,150,000.00	317,239,839,000.00	512,177,127,000.00	0.00	0.00	1,473,994,116,000.00	1,547,693,821,800,000
2012	pms	593,815,049,100.00	556,476,285,330.00	446,147,012,250.00	0.00	0.00	1,596,438,346,680.00	2,140,823,822,897,880
2012	ago	569,216,137,200.00	399,823,023,480.00	394,027,548,960.00	0.00	0.00	1,363,066,709,640.00	1,586,609,650,020,960
2012	lpg	63,642,741,680.70	0.00	0.00	0.00	0.00	63,642,741,680.70	111,654,125,934,462
2012	fuel oil	435,493,695,000.00	353,469,039,000.00	354,031,786,500.00	0.00	0.00	1,142,994,520,500.00	1,200,144,246,525,000
2013	pms	361,284,978,600.00	540,748,487,520.00	428,183,995,410.00	0.00	0.00	1,330,217,461,530.00	1,783,821,615,911,730
2013	ago	506,710,850,400.00	328,275,039,720.00	184,614,241,200.00	0.00	0.00	1,019,600,131,320.00	1,186,814,552,856,480
2013	lpg	161,088,699,735.60	0.00	0.00	0.00	0.00	161,088,699,735.60	282,612,242,840,440
2013	fuel oil	421,518,510,000.00	221,813,844,000.00	253,725,496,500.00	0.00	0.00	897,057,850,500.00	941,910,743,025,000
2014	pms	537,463,681,200.00	250,592,231,493.00	117,086,330,700.00	0.00	0.00	905,142,243,393.00	1,213,795,748,390,013
2014	ago	383,521,122,000.00	187,448,502,048.00	817,933,371,600.00	0.00	0.00	1,388,902,995,648.00	1,616,683,086,934,272
2014	lpg	54,630,880,960.14	63,219,319,895.55	0.00	0.00	0.00	117,850,200,855.69	206,755,096,029,013
2014	fuel oil	430,558,780,806.45	207,974,602,500.00	244,766,235,000.00	0.00	0.00	883,299,618,306.45	927,464,599,221,773
2015	pms	152,419,401,000.00	73,124,730,000.00	281,214,405,000.00	0.00	0.00	506,758,536,000.00	679,563,196,776,000
2015	ago	125,835,384,000.00	32,593,164,000.00	162,837,780,000.00	0.00	0.00	321,266,328,000.00	373,954,005,792,000
2015	lpg	6,178,958,058.00	294,737,352.00	0.00	0.00	0.00	6,473,695,410.00	11,357,380,016,655
2015	fuel oil	146,743,800,000.00	0.00	102,691,050,000.00	0.00	0.00	249,434,850,000.00	261,906,592,500,000
2016	pms	425,549,118,150.00	236,170,676,304.00	454,039,623,306.00	0.00	0.00	1,115,759,417,760.00	1,496,233,379,216,160

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
2016	ago	223,101,552,000.00	145,942,413,120.00	611,032,904,712.00	0.00	0.00	980,076,869,832.00	1,140,809,476,484,448
2016	lpg	12,263,898,409.49	0.00	7,147,307,101.66	0.00	0.00	19,411,205,511.15	34,054,805,425,501
2016	fuel oil	161,197,680,000.00	0.00	296,937,438,000.00	0.00	0.00	458,135,118,000.00	481,041,873,900,000
2017	pms	176,762,894,069.88	343,070,654,337.00	752,936,658,138.00	0.00	0.00	1,272,770,206,544.88	1,706,784,846,976,684
2017	ago	294,296,526,593.28	234,226,291,104.00	773,077,914,576.00	0.00	0.00	1,301,600,732,273.28	1,515,063,252,366,098
2017	fuel oil	124,674,353,370.00	66,442,761,000.00	620,550,924,000.00	0.00	0.00	811,668,038,370.00	852,251,440,288,500
2018	pms	230,142,875,940.00	24,127,202,268.00	256,263,136,776.00	0.00	0.00	510,533,214,984.00	684,625,041,293,544
2018	ago	449,256,997,680.00	20,390,350,212.00	398,371,218,660.00	0.00	0.00	868,018,566,552.00	1,010,373,611,466,528
2018	lpg	476,767,491,473.00	134,956,549,263.90	273,569,683,801.05	0.00	0.00	885,293,724,537.95	1,553,149,572,098,410
2018	fuel oil	164,650,395,000.00	15,287,764,800.00	169,257,211,200.00	0.00	0.00	349,195,371,000.00	366,655,139,550,000
2019	pms	113,930,019,004.26	0.00	0.00	0.00	0.00	113,930,019,004.26	152,780,155,484,713
2019	ago	78,338,364,001.53	0.00	0.00	16,581,113,652.00	0.00	94,919,477,653.53	110,486,271,988,709
2019	lpg	292,050,654,215.18	87,557,256,736.95	0.00	0.00	0.00	379,607,910,952.13	665,979,943,287,396
2019	fuel oil	117,472,949,995.30	391,104,000.00	0.00	0.00	0.00	117,864,053,995.30	123,757,256,695,065

**Table 65: 2019 Petroleum Products Volumes as per Import Permits Issued in Metric Tonnes**

Months	pms	ago	atk	fuel oil	base oil	bitumen	hhk
January	695,000.00	852,592.00	0.00	55,000.00	0.00	17,000.00	25,000.00
Febuary	215,000.00	577,000.00	0.00	55,000.00	0.00	15,000.00	30,000.00
march	90,000.00	817,000.00	0.00	60,000.00	0.00	460.00	130,000.00
april	150,000.00	660,000.00	0.00	40,000.00	0.00	40,000.00	0.00
may	317,500.00	830,000.00	0.00	20,000.00	0.00	50,000.00	141,800.00
June	95,000.00	570,500.00	0.00	50,000.00	0.00	5,000.00	25,000.00
July	350,000.00	827,000.00	0.00	5,000.00	10,000.00	86,500.00	10,000.00
August	165,000.00	820,000.00	0.00	20,000.00	0.00	45,200.00	95,000.00
September	30,000.00	185,000.00	0.00	29,000.00	10,000.00	9,000.00	150,000.00
October	465,000.00	15,775,000.00	0.00	50,000.00	0.00	60,000.00	16,500.00
November	0.00	852,500.00	0.00	120,000.00	0.00	30,700.00	75,000.00
December	40,000.00	525,000.00	0.00	20,000.00	5,000.00	41,500.00	13,200.00
<b>Total</b>	<b>2,612,500.00</b>	<b>23,291,592.00</b>	<b>0.00</b>	<b>524,000.00</b>	<b>25,000.00</b>	<b>400,360.00</b>	<b>711,500.00</b>

**Table 66: Petroleum Products Volumes as per Import Permits Issued in Metric Tonnes**

Years	pms	ago	atk	fuel oil	base oil	bitumen	hhk
2015	11,168,300.00	1,610,000.00	0.00	4,194,500.00	2,460,800.00	1,780,680.00	994,830.00
2016	13,722,500.00	19,616,000.00	0.00	3,613,000.00	1,763,000.00	1,556,450.00	665,250.00
2017	14,568,000.00	15,218,000.00	0.00	3,785,500.00	855,000.00	1,267,310.00	829,600.00
2018	7,743,000.00	9,392,100.00	0.00	2,819,500.00	475,000.00	1,448,860.00	1,113,300.00
2019	2,612,500.00	23,291,592.00	0.00	524,000.00	25,000.00	400,360.00	711,500.00

**Table 67: 2019 Approved Product Import By Import Permits**

Products	MAJORS (MT)			DAPPMA (MT)			TRADERS (MT)			Total (MT)	
	2018	2019	% Diff	2018	2019	% Diff	2018	2019	% Diff	2018	2019
pms	0.00	0.00	0	0.00	0.00	0	7,743,000.00	2,612,500.00	-66	7,743,000.00	2,612,500.00
ago	9,392,100.00	23,291,592.00	148	0.00	0.00	0	1.00	0.00	-100	9,392,101.00	23,291,592.00
dpk	0.00	0.00	0	0.00	0.00	0	1.00	0.00	-100	1.00	0.00
atk	0.00	0.00	0	0.00	0.00	0	1.00	0.00	-100	1.00	0.00
fuel oil	0.00	0.00	0	0.00	0.00	0	1.00	0.00	-100	1.00	0.00
base oil	0.00	0.00	0	0.00	0.00	0	1.00	0.00	-100	1.00	0.00
bitumen	0.00	0.00	0	0.00	0.00	0	1.00	0.00	-100	1.00	0.00
hhk	0.00	0.00	0	0.00	0.00	0	1.00	0.00	-100	1.00	0.00
<b>Total</b>	<b>9,392,100.00</b>	<b>23,291,592.00</b>	<b>1,036</b>	<b>0.00</b>	<b>0.00</b>	<b>0</b>	<b>7,743,007.00</b>	<b>2,612,500.00</b>	<b>-766</b>	<b>17,135,107.00</b>	<b>25,904,092.00</b>

**Table 68: 2019 Summary of Petroleum Products Importation by Market Segment Litres**

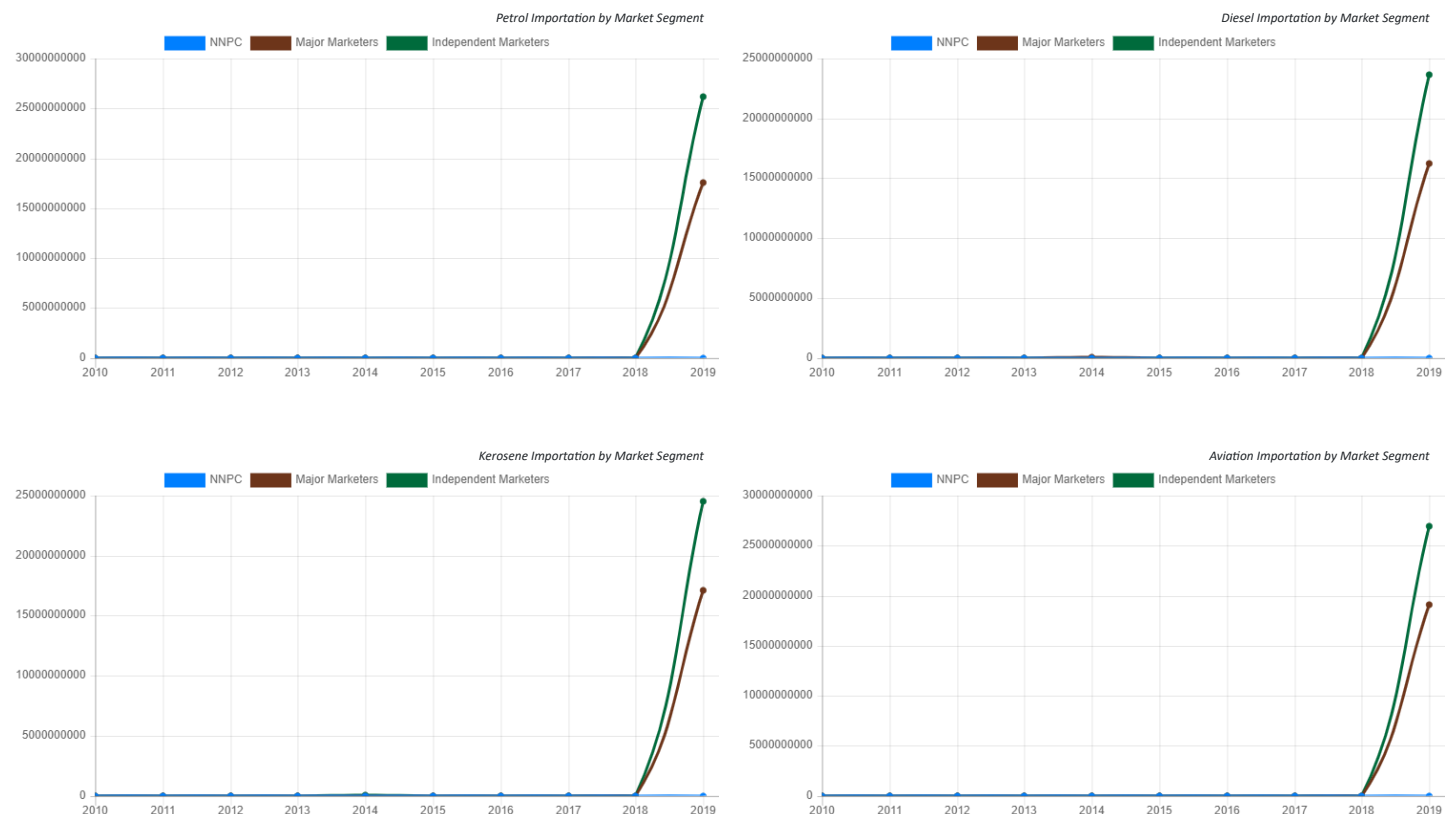
Months	pms	ago	dpk	atk	lpg	fuel oil	base oil	bitumen
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Months	pms	ago	dpk	atk	NNPC, Litres	lpg	fuel oil	base oil	bitumen
January	0.00	0.00	0.00	0.00	NNPC, Litres	0.00	0.00	0.00	0.00
Febuary	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
march	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
april	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
may	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
Major Marketers, Litres									
January	2,136,963,960.00	1,856,067,840.00	1,857,231,840.00	1,966,961,920.00	2,802,741,690.84	1,678,488,000.00	1,706,730,520.00	1,539,737,439.55	
Febuary	5,278,841,136.00	5,037,718,668.00	5,493,355,992.00	6,296,529,008.00	9,653,104,419.14	6,188,386,050.00	6,706,246,514.00	6,422,867,504.73	
march	2,565,182,808.00	2,447,761,632.00	2,668,921,632.00	3,058,918,016.00	4,689,285,305.43	3,006,032,400.00	3,257,431,496.00	3,119,655,661.69	
april	2,200,715,100.00	2,117,432,400.00	2,324,624,400.00	2,679,723,200.00	4,128,252,755.90	2,657,655,000.00	2,890,609,700.00	2,777,387,890.32	
may	929,731,392.00	818,655,168.00	830,295,168.00	891,120,384.00	1,286,514,506.37	780,477,600.00	803,783,904.00	734,305,533.35	
June	355,263,084.00	291,144,336.00	273,917,136.00	271,685,568.00	360,919,922.64	200,470,200.00	187,924,308.00	155,193,558.94	
July	436,811,976.00	381,484,704.00	383,812,704.00	408,698,752.00	585,502,767.30	352,522,800.00	360,364,312.00	326,825,760.21	
August	366,425,568.00	294,664,272.00	271,267,872.00	262,351,936.00	338,330,409.87	181,385,400.00	162,875,416.00	127,511,069.96	
September	1,292,938,560.00	1,133,922,240.00	1,145,562,240.00	1,224,805,120.00	1,761,687,258.24	1,064,868,000.00	1,092,778,720.00	994,861,092.67	
October	626,032,440.00	549,133,296.00	554,864,832.00	593,345,984.00	853,573,406.50	516,033,000.00	529,641,728.00	482,257,894.95	
November	133,542,144.00	110,095,776.00	104,275,776.00	104,207,488.00	139,621,294.18	78,313,200.00	74,246,128.00	62,129,756.33	
December	1,266,971,436.00	1,157,942,544.00	1,216,142,544.00	1,348,788,672.00	2,008,417,509.64	1,254,535,800.00	1,328,197,332.00	1,245,592,716.16	
Total	17,589,419,604.00	16,196,022,876.00	17,124,272,136.00	19,107,136,048.00	28,607,951,246.06	17,959,167,450.00	19,100,830,078.00	17,988,325,878.88	
Independent Marketers, Litres									
January	2,147,691,960.00	1,865,379,840.00	1,866,543,840.00	1,976,817,920.00	2,816,776,802.84	1,686,888,000.00	1,715,266,520.00	1,547,433,433.15	
Febuary	9,478,220,184.00	8,682,817,260.00	9,138,454,584.00	10,154,571,504.00	15,147,022,695.53	9,476,490,450.00	10,047,586,890.00	9,435,394,935.51	
march	4,603,502,808.00	4,217,041,632.00	4,438,201,632.00	4,931,558,016.00	7,355,956,585.43	4,602,032,400.00	4,879,271,496.00	4,581,894,445.69	
april	4,110,299,100.00	3,774,968,400.00	3,982,160,400.00	4,434,091,200.00	6,626,502,691.90	4,152,855,000.00	4,410,017,700.00	4,147,274,751.12	
may	1,037,011,392.00	911,775,168.00	923,415,168.00	989,680,384.00	1,426,865,626.37	864,477,600.00	889,143,904.00	811,265,469.35	
June	196,488,684.00	153,326,736.00	136,099,536.00	125,816,768.00	153,200,265.04	76,150,200.00	61,591,508.00	41,292,853.66	
July	458,267,976.00	400,108,704.00	402,436,704.00	428,410,752.00	613,572,991.30	369,322,800.00	377,436,312.00	342,217,747.41	
August	150,792,768.00	107,493,072.00	84,096,672.00	64,246,336.00	56,224,658.67	12,545,400.00	-8,698,184.00	-27,178,401.40	
September	1,400,218,560.00	1,227,042,240.00	1,238,682,240.00	1,323,365,120.00	1,902,038,378.24	1,148,868,000.00	1,178,138,720.00	1,071,821,028.67	
October	678,857,112.00	594,985,584.00	600,717,120.00	641,876,928.00	922,682,297.99	557,394,600.00	571,672,992.00	520,152,967.44	
November	79,902,144.00	63,535,776.00	57,715,776.00	54,927,488.00	69,445,734.18	36,313,200.00	31,566,128.00	23,649,788.33	
December	1,803,371,436.00	1,623,542,544.00	1,681,742,544.00	1,841,588,672.00	2,710,173,109.64	1,674,535,800.00	1,754,997,332.00	1,630,392,396.16	
Total	26,144,624,124.00	23,622,016,956.00	24,550,266,216.00	26,966,951,088.00	39,800,461,837.14	24,657,873,450.00	25,907,991,318.00	24,125,611,415.10	
Total, Litres									
January	5,476,507,325.28	5,114,067,756.00	5,571,695,520.00	5,900,885,760.00	8,408,225,072.52	5,035,464,000.00	5,120,191,560.00	4,619,212,318.66	
Febuary	15,948,912,725.28	15,113,156,004.00	16,480,067,976.00	18,889,587,024.00	28,959,313,257.42	18,565,158,150.00	20,118,739,542.00	19,268,602,514.20	
march	7,507,808,424.00	7,343,284,896.00	8,006,764,896.00	9,176,754,048.00	14,067,855,916.30	9,018,097,200.00	9,772,294,488.00	9,358,966,985.07	
april	7,227,051,300.00	6,352,297,200.00	6,973,873,200.00	8,039,169,600.00	12,384,758,267.70	7,972,965,000.00	8,671,829,100.00	8,332,163,670.96	
may	2,923,294,176.00	2,455,965,504.00	2,490,885,504.00	2,673,361,152.00	3,859,543,519.10	2,341,432,800.00	2,411,351,712.00	2,202,916,600.05	
June	1,173,337,452.00	873,433,008.00	821,751,408.00	815,056,704.00	1,082,759,767.91	601,410,600.00	563,772,924.00	465,580,676.82	
July	900,089,928.00	1,144,454,112.00	1,151,438,112.00	1,226,096,256.00	1,756,508,301.91	1,057,568,400.00	1,081,092,936.00	980,477,280.63	
August	683,432,604.00	883,992,816.00	813,803,616.00	787,055,808.00	1,014,991,229.62	544,156,200.00	488,626,248.00	382,533,209.88	
September	3,744,715,680.00	3,401,766,720.00	3,436,686,720.00	3,674,415,360.00	5,285,061,774.72	3,194,604,000.00	3,278,336,160.00	2,984,583,278.02	
October	1,856,539,404.00	1,647,399,888.00	1,664,594,496.00	1,780,037,952.00	2,560,720,219.51	1,548,099,000.00	1,588,925,184.00	1,446,773,684.86	
November	501,201,432.00	330,287,328.00	312,827,328.00	312,622,464.00	418,863,882.53	234,939,600.00	222,738,384.00	186,389,269.00	
December	3,841,144,308.00	3,473,827,632.00	3,648,427,632.00	4,046,366,016.00	6,025,252,528.93	3,763,607,400.00	3,984,591,996.00	3,736,778,148.49	
Total	51,784,034,758.56	48,133,932,864.00	51,372,816,408.00	57,321,408,144.00	85,823,853,738.17	53,877,502,350.00	57,302,490,234.00	53,964,977,636.64	
Average Daily Import, Litres									
January	176,661,526.62	164,969,927.61	179,732,113.55	190,351,153.55	271,233,066.86	162,434,322.58	165,167,469.68	149,006,848.99	
Febuary	514,481,055.65	487,521,161.42	531,615,096.00	609,341,516.90	934,171,395.40	598,876,069.35	648,991,598.13	621,567,823.04	
march	242,187,368.52	236,880,157.94	258,282,738.58	296,024,324.13	453,801,803.75	290,906,361.29	315,235,306.06	301,902,160.81	
april	233,130,687.10	204,912,812.90	224,963,651.61	259,328,051.61	399,508,331.22	257,192,419.35	279,736,422.58	268,779,473.26	
may	94,299,812.13	79,224,693.68	80,351,145.29	86,237,456.52	124,501,403.84	75,530,090.32	77,785,539.10	71,061,825.81	
June	37,849,595.23	28,175,258.32	26,508,109.94	26,292,151.74	34,927,734.45	19,400,341.94	18,186,223.35	15,018,731.51	
July	29,035,158.97	36,917,874.58	37,143,164.90	39,551,492.13	56,661,558.13	34,115,109.68	34,873,965.68	31,628,299.38	
August	22,046,213.03	28,515,897.29	26,251,729.55	25,388,897.03	32,741,652.57	17,553,425.81	15,762,137.03	12,339,780.96	
September	120,797,280.00	109,734,410.32	110,860,861.94	118,529,527.74	170,485,863.70	103,051,741.94	105,752,779.35	96,276,879.94	
October	59,888,367.87	53,141,931.87	53,696,596.65	57,420,579.10	82,603,878.05	49,938,677.42	51,255,651.10	46,670,118.87	

Months	pms	ago	dpk	atk	lpg	fuel oil	base oil	bitumen
NNPC, Litres								
November	16,167,788.13	10,654,429.94	10,091,204.13	10,084,595.61	13,511,738.15	7,578,696.77	7,185,109.16	6,012,557.06
December	123,907,880.90	112,058,955.87	117,691,213.94	130,527,936.00	194,362,984.80	121,406,690.32	128,535,225.68	120,541,230.60
<b>Total</b>	<b>141,874,067.83</b>	<b>131,873,788.67</b>	<b>140,747,442.21</b>	<b>157,044,953.82</b>	<b>235,133,845.86</b>	<b>147,609,595.48</b>	<b>156,993,123.93</b>	<b>147,849,253.80</b>

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

Market Segment	Product	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
NNPC	pms	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	ago	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	dpk	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	atk	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	lpg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	fuel oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	base oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	bitumen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Major Marketers	pms	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17,589,419,604.00	17,589,419,604.0
	ago	0.00	0.00	0.00	0.00	2,431,238.00	0.00	0.00	0.00	0.00	16,196,022,876.00	16,198,454,114.0
	dpk	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17,124,272,136.00	17,124,272,136.0
	atk	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19,107,136,048.00	19,107,136,048.0
	lpg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28,607,951,246.06	28,607,951,246.1
	fuel oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17,959,167,450.00	17,959,167,450.0
	base oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19,100,830,078.00	19,100,830,078.0
	bitumen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17,988,325,878.88	17,988,325,878.9
Independent	pms	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26,144,624,124.00	26,144,624,124.0
	ago	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23,622,016,956.00	23,622,016,956.0
	dpk	0.00	0.00	0.00	0.00	155,920.00	0.00	0.00	0.00	0.00	24,550,266,216.00	24,550,422,136.0
	atk	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26,966,951,088.00	26,966,951,088.0
	lpg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39,800,461,837.14	39,800,461,837.1
	fuel oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24,657,873,450.00	24,657,873,450.0
	base oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25,907,991,318.00	25,907,991,318.0
	bitumen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24,125,611,415.10	24,125,611,415.1



**Figure 29 : Product Importation by Market Segment**

Table 70: Petroleum Products Import Summary, Litres

Year	pms	ago	dpk	atk	lpg	fuel oil	base oil	bitumen
2014	1,815,976.17	2,431,238.00	155,920.00	0.00	0.00	0.00	0.00	0.00
2019	37,148,545,869.13	39,780,760,230.26	42,457,567,256.22	44,759,049,332.31	47,060,531,408.39	49,362,013,484.47	51,663,495,560.56	53,964,977,636.64

Table 71: 2019 Product Import: Number of Product Vessels

Field Office	PMS Import Vessels	DPK Import Vessels	AGO Import Vessels	ATK Import Vessels
Calabar	101	11	25	0
Eket	6	0	0	0
Lagos	449	24	212	63
Port-Harcourt	83	2	39	2
Umuahia	0	0	370	0
Warri	246	7	70	1
Total	885	44	716	66

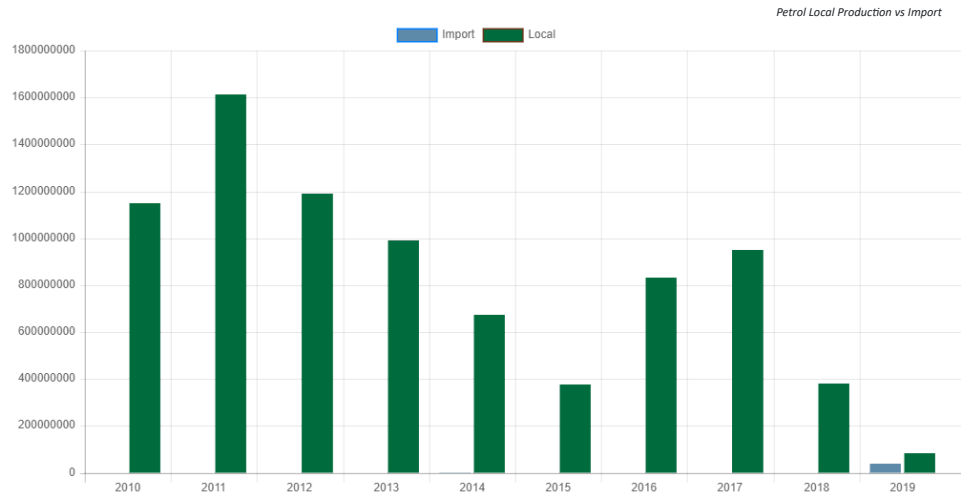
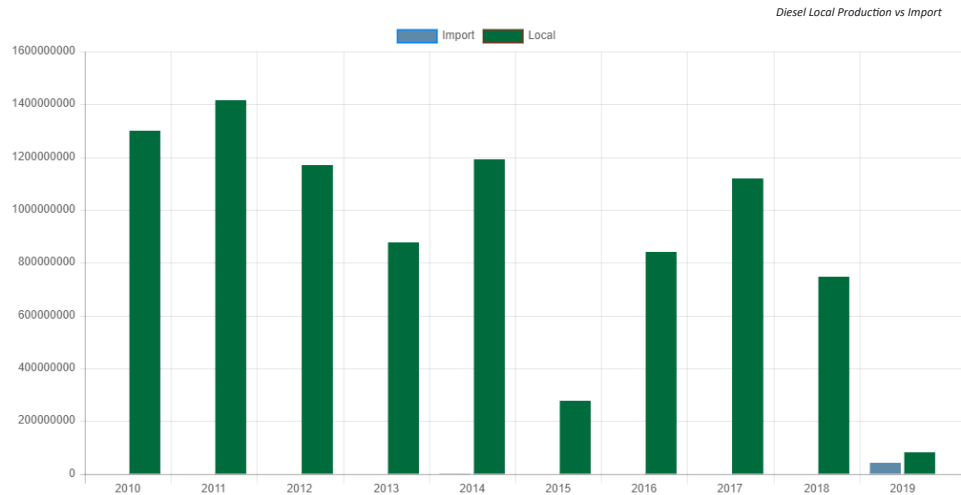
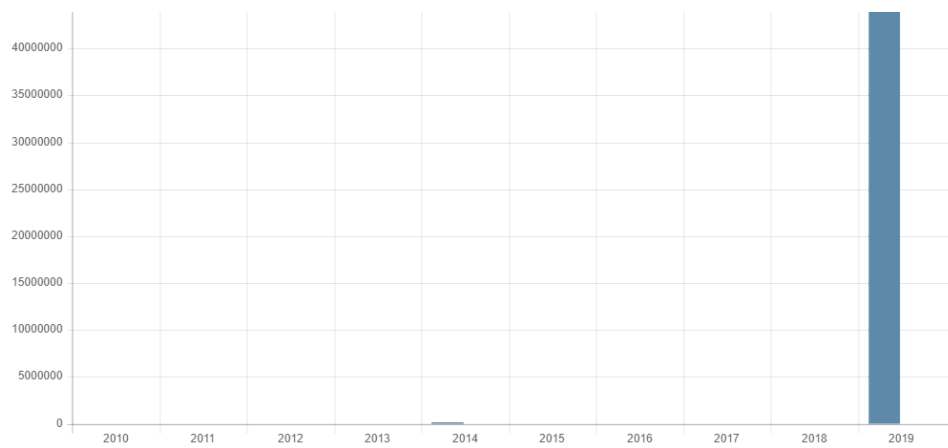


Figure 30 : Product Local Production vs Import





**Table 72: 2019 Retail outlets Summary - Filling Stations count**

State	Independent	Major	NNPC - Franchise & Mega	Grand Total
Abia	168.00	168.00	168.00	504.00
Adamawa	96.00	96.00	96.00	288.00
Akwa-Ibom	162.00	162.00	162.00	486.00
Anambra	552.00	552.00	552.00	1,656.00
Bauchi	78.00	78.00	78.00	234.00
Bayelsa	30.00	30.00	30.00	90.00
Benue	90.00	90.00	90.00	270.00
Borno	348.00	348.00	348.00	1,044.00
Cross River	78.00	78.00	78.00	234.00
Delta	396.00	396.00	396.00	1,188.00
Ebonyi	60.00	60.00	60.00	180.00
Edo	114.00	114.00	114.00	342.00
Ekiti	258.00	258.00	258.00	774.00
Enugu	276.00	276.00	276.00	828.00
Abuja	456.00	456.00	456.00	1,368.00
Gombe	318.00	318.00	318.00	954.00
Imo	324.00	324.00	324.00	972.00
Jigawa	162.00	162.00	162.00	486.00
Kaduna	168.00	168.00	168.00	504.00
Kano	120.00	120.00	120.00	360.00
Katsina	168.00	168.00	168.00	504.00
Kebbi	48.00	48.00	48.00	144.00
Kogi	30.00	30.00	30.00	90.00
Kwara	72.00	72.00	72.00	216.00
Lagos	642.00	642.00	642.00	1,926.00
Nasarawa	90.00	90.00	90.00	270.00
Niger	42.00	42.00	42.00	126.00
Ogun	798.00	798.00	798.00	2,394.00
Ondo	810.00	810.00	810.00	2,430.00
Osun	402.00	402.00	402.00	1,206.00
Oyo	24.00	24.00	24.00	72.00
Plateau	78.00	78.00	78.00	234.00
Rivers	90.00	90.00	90.00	270.00
Sokoto	84.00	84.00	84.00	252.00
Taraba	270.00	270.00	270.00	810.00
Yobe	420.00	420.00	420.00	1,260.00
Zamfara	236.00	96.00	96.00	428.00
<b>Total</b>	<b>8,558.00</b>	<b>8,418.00</b>	<b>8,418.00</b>	<b>25,394.00</b>

**Table 73: 2019 Petroleum Product Marketers total capacities**

Marketers	PMS	DPK	AGO
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Marketers	PMS	DPK	AGO
Independent Marketers	106,095,228.00	105,906,407.00	105,813,182.00
Major Marketers	105,705,140.00	105,247,994.00	105,175,124.00
NNPC	104,563,230.00	105,543,984.00	105,394,475.00
NNPC - Franchise	0.00	0.00	0.00
NNPC - Mega	0.00	0.00	0.00
<b>Total</b>	<b>316,363,598.00</b>	<b>316,698,385.00</b>	<b>316,382,781.00</b>

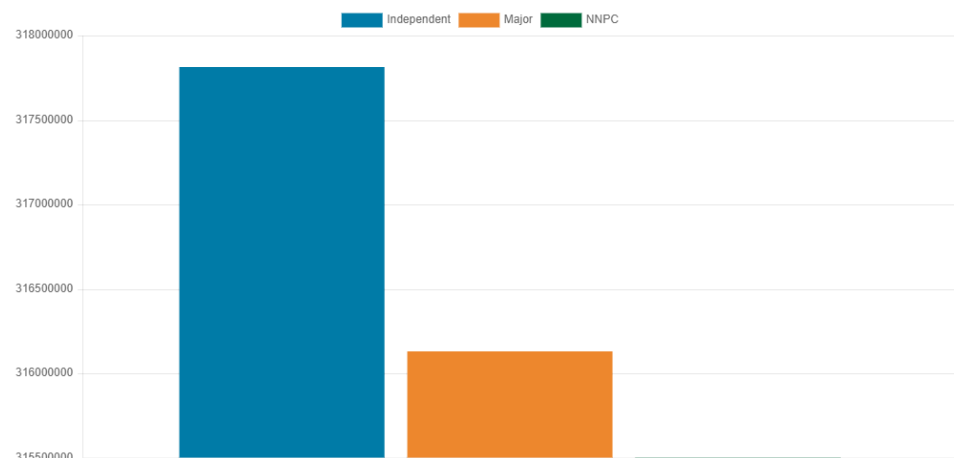


Figure 32 : Petroleum Product Marketers Total Capacities

**Table 74: 2019 Storage capacities of retail outlets by State and Market Segment**

State	Independent			MAJOR			NNPC - Mega			NNPC - Franchise		
	PMS	DPK	AGO	PMS	DPK	AGO	PMS	DPK	AGO	PMS	DPK	AGO
Abia	2,516,942	2,522,167	2,527,392	2,501,267	2,501,267	2,511,717	0	0	0	0	0	0
Abuja	3,231,217	3,234,592	3,237,967	3,221,092	3,221,092	3,227,842	0	0	0	0	0	0
Adamawa	2,625,025	2,629,350	2,578,314	2,612,050	2,612,050	2,620,700	0	0	0	0	0	0
Akwa-Ibom	2,608,372	2,257,687	2,261,981	2,595,490	2,595,490	2,604,078	0	0	0	0	0	0
Anambra	2,989,954	2,994,129	2,998,304	2,279,157	2,279,157	2,287,745	0	0	0	0	0	0
Bauchi	3,027,529	3,031,704	3,035,879	3,015,004	3,015,004	3,023,354	0	0	0	0	0	0
Bayelsa	2,294,647	2,298,732	2,302,817	3,052,579	3,052,579	2,290,562	0	0	0	0	0	0
Benue	2,331,412	2,335,497	2,339,582	2,319,157	2,319,157	2,327,327	0	0	0	0	0	0
Borno	2,368,177	2,372,262	2,376,347	2,355,922	2,355,922	2,364,092	0	0	0	0	0	0
Cross River	2,414,909	2,418,434	2,421,959	2,404,334	2,404,334	2,411,384	0	0	0	0	0	0
Delta	2,446,634	2,450,159	2,453,684	2,436,059	2,436,059	2,443,109	0	0	0	0	0	0
Ebonyi	2,478,359	2,481,884	2,485,409	2,467,784	2,467,784	2,474,834	0	0	0	0	0	0
Edo	2,475,797	2,479,882	2,483,967	2,449,139	2,449,139	2,471,712	0	0	0	0	0	0
Ekiti	2,512,562	2,440,380	2,443,851	2,500,307	2,500,307	2,508,477	0	0	0	0	0	0
Enugu	2,468,148	2,471,619	2,475,090	2,457,735	2,457,735	2,464,677	0	0	0	0	0	0
Gombe	3,261,592	3,264,967	3,268,342	3,251,467	3,251,467	3,258,217	0	0	0	0	0	0
Imo	2,682,062	2,686,147	2,690,232	2,669,807	2,669,807	2,677,977	0	0	0	0	0	0
Jigawa	2,718,827	2,722,912	2,726,997	2,706,572	2,706,572	2,714,742	0	0	0	0	0	0
Kaduna	2,755,592	2,759,677	2,763,762	2,743,337	2,743,337	2,751,507	0	0	0	0	0	0
Kano	2,792,357	2,796,442	2,800,527	2,780,102	2,780,102	2,788,272	0	0	0	0	0	0
Katsina	2,829,122	2,833,207	2,837,292	2,816,867	2,816,867	2,825,037	0	0	0	0	0	0
Kebbi	2,865,887	2,869,972	2,874,057	2,853,632	2,853,632	2,861,802	0	0	0	0	0	0
Kogi	2,902,652	2,906,737	2,910,822	2,890,397	2,890,397	2,898,567	0	0	0	0	0	0
Kwara	2,939,417	2,943,502	2,947,587	2,927,162	2,927,162	2,935,332	0	0	0	0	0	0
Lagos	2,976,182	2,980,267	2,984,352	2,963,927	2,963,927	2,972,097	0	0	0	0	0	0
Nasarawa	3,012,947	3,017,032	3,021,117	3,000,692	3,000,692	3,008,862	0	0	0	0	0	0
Niger	3,049,712	3,053,797	3,057,882	3,037,457	3,037,457	3,045,627	0	0	0	0	0	0
Ogun	3,086,477	3,090,562	3,094,647	3,074,222	3,074,222	3,082,392	0	0	0	0	0	0
Ondo	3,123,242	3,127,327	3,131,412	3,110,987	3,110,987	3,119,157	0	0	0	0	0	0
Osun	3,160,007	3,164,092	3,168,177	3,147,752	3,147,752	3,155,922	0	0	0	0	0	0
Oyo	3,196,772	3,200,857	3,204,942	3,184,517	3,184,517	3,192,687	0	0	0	0	0	0
Plateau	3,233,537	3,237,622	3,241,707	3,221,282	3,221,282	3,229,452	0	0	0	0	0	0
Rivers	3,270,302	3,274,387	3,278,472	3,258,047	3,258,047	3,266,217	0	0	0	0	0	0
Sokoto	3,307,067	3,311,152	3,315,237	3,294,812	3,294,812	3,302,982	0	0	0	0	0	0
Taraba	3,343,832	3,347,917	3,352,002	3,331,577	3,331,577	3,339,747	0	0	0	0	0	0
Yobe	3,380,597	3,384,682	3,388,767	3,368,342	3,368,342	3,376,512	0	0	0	0	0	0

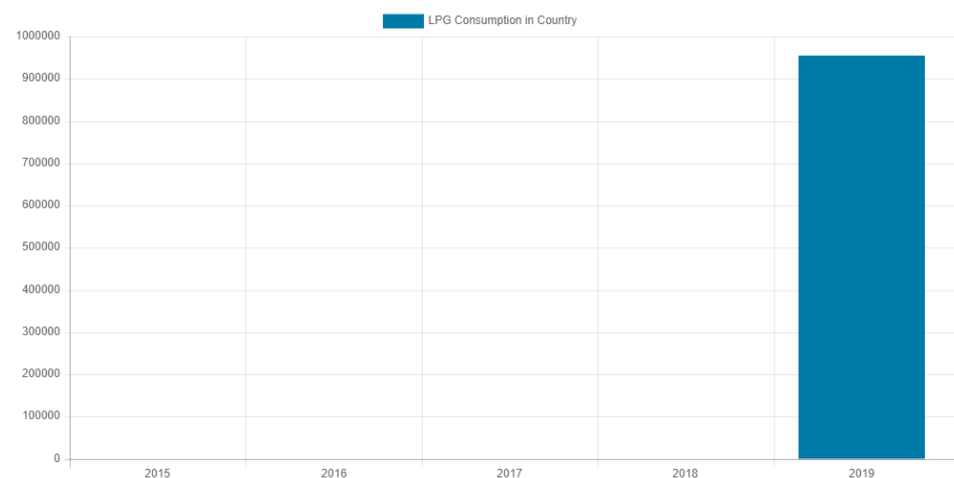
Independent				MAJOR			NNPC - Mega			NNPC - Franchise		
State	PMS	DPK	AGO	PMS	DPK	AGO	PMS	DPK	AGO	PMS	DPK	AGO
Zamfara	3,417,362	3,421,447	3,425,532	3,405,107	3,405,107	3,413,277	0	0	0	0	0	0
Total	106,095,228	105,813,182	105,906,407	105,705,140	105,175,124	105,247,994	0	0	0	0	0	0

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

Year	Market Segment	PMS	ago	DPK
2017	Major Marketers	123 - 127	145 - 156	200 - 210
2017	Independent Marketers	123 - 127	145 - 156	200 - 210
2019	NNPC	123 - 145	210 - 220	230 - 232
2019	Major Marketers	113 - 135	200 - 205	220 - 230
2019	Independent Marketers	103 - 125	190 - 190	210 - 228

**Table 76: 2019 LPG importation by Zone**

Months	Calabar	Lagos	Port Harcourt	Warri
January	0.000	35,133.310	5,000.000	12,603.000
February	0.000	51,802.720	0.000	14,400.000
march	0.000	29,000.000	0.000	13,200.000
april	0.000	69,832.110	6,000.000	22,400.000
may	0.000	69,461.260	4,000.000	24,600.000
June	0.000	30,000.000	6,000.000	11,700.000
July	0.000	91,222.000	12,000.000	15,540.000
August	4,100.000	51,630.000	7,000.000	25,650.000
September	0.000	80,346.410	5,000.000	25,733.450
October	0.000	55,800.000	5,000.000	30,088.280
November	0.000	37,565.000	5,000.000	23,717.310
December	4,500.000	46,831.550	5,000.000	18,500.000
<b>TOTAL</b>	<b>8,600.000</b>	<b>648,625.360</b>	<b>60,002.000</b>	<b>238,135.040</b>



**Figure 33 : LPG Consumption in 2019**

**Table 77: 2019 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	4	4	0	0	4	0	0	0
February	4	3	1	3	1	2	1	3
March	3	2	1	1	2	0	1	3
April	2	1	1	1	1	0	1	1
May	8	6	2	3	5	3	0	8
June	5	4	1	4	1	3	1	4

Month	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
July	3	1	2	2	1	0	2	2
August	1	1	0	0	1	0	0	0
September	2	0	2	0	2	0	0	0
October	2	1	1	1	1	1	0	2
November	15	11	4	5	10	1	4	7
December	4	2	2	0	4	0	0	0
Total	53	36	17	20	33	10	10	30

**Table 78: 2019 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	3	3	0	0	3	0	0	0
February	4	3	1	3	1	2	1	3
March	2	1	1	1	1	0	1	3
April	2	1	1	1	1	0	1	1
May	6	5	1	2	4	2	0	4
June	4	3	1	3	1	2	1	3
July	2	0	2	2	0	0	2	2
August	1	1	0	0	1	0	0	0
September	2	0	2	0	2	0	0	0
October	1	1	0	1	0	1	0	2
November	12	8	4	5	7	1	4	7
December	3	1	2	0	3	0	0	0
Total	42	27	15	18	24	8	10	25

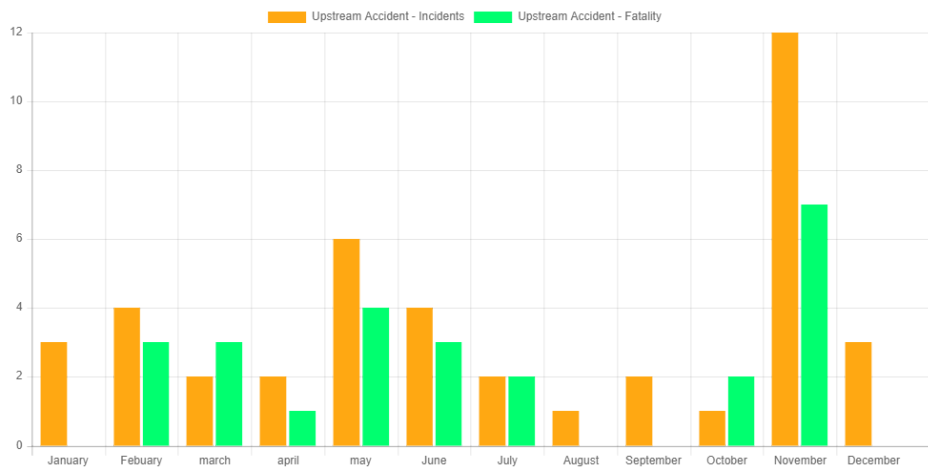


Figure  
Figure 34 : Accident Report - Upstream

**Table 79: 2019 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	1	1	0	0	1	0	0	0
February	0	0	0	0	0	0	0	0
March	1	1	0	0	1	0	0	0
April	0	0	0	0	0	0	0	0
May	2	1	1	1	1	1	0	4
June	1	1	0	1	0	1	0	1
July	1	1	0	0	1	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	1	0	1	0	1	0	0	0
November	3	3	0	0	3	0	0	0

Month	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
December	1	1	0	0	1	0	0	0
Total	11	9	2	2	9	2	0	5

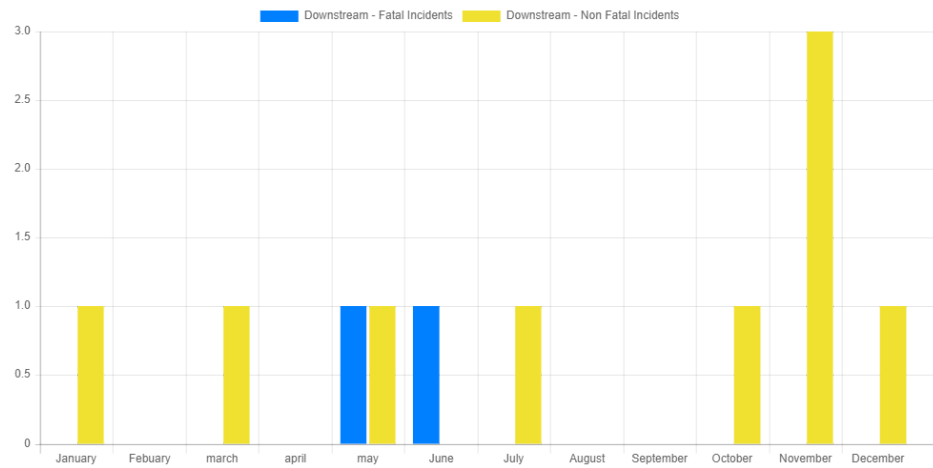


Figure  
Figure 35 : Accident Report - Downstream

Table 80: Accident Report – Upstream

Year	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
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
2014	32	9	23	12	20	0	13	13
2015	41	18	23	17	24	3	14	18
2016	33	9	24	15	18	2	13	24
2017	39	17	22	19	20	3	16	21
2018	55	34	21	25	30	13	12	77
2019	42	27	15	18	24	8	10	25

Table 81: Accident Report – Downstream

Year	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
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
2014	7	6	1	2	5	1	7	8
2015	9	6	3	4	5	3	1	7
2016	17	15	2	6	11	6	0	14
2017	21	20	1	12	9	12	0	49
2018	34	16	18	14	20	3	11	19
2019	11	9	2	2	9	2	0	5

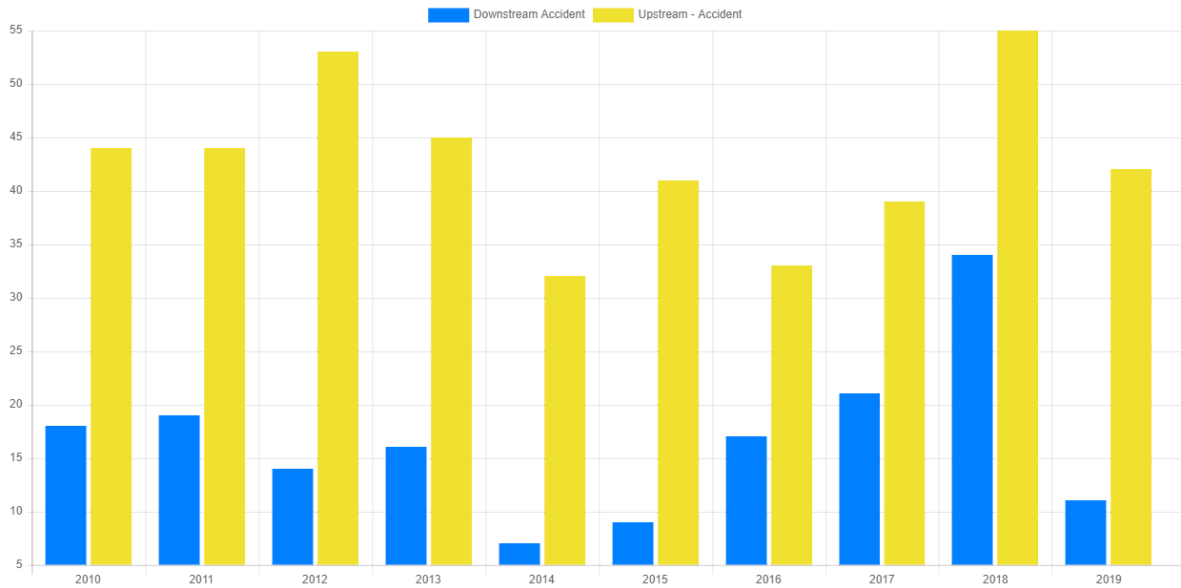


Figure 36 : Downstream versus Upstream Incidents

Table 82: Accident Report – Industry-wide

Year	Incidents	Work Related	Non Work Related	Fatal Incident	Non Fatal Incident	Work Related Fatal Incident	Non Work Related Fatal Incident	Fatality
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
2014	39	15	24	14	25	1	20	21
2015	50	24	26	21	29	6	15	25
2016	50	24	26	21	29	8	13	38
2017	60	37	23	31	29	15	16	70
2018	89	50	39	39	50	16	23	96
2019	53	36	17	20	33	10	10	30

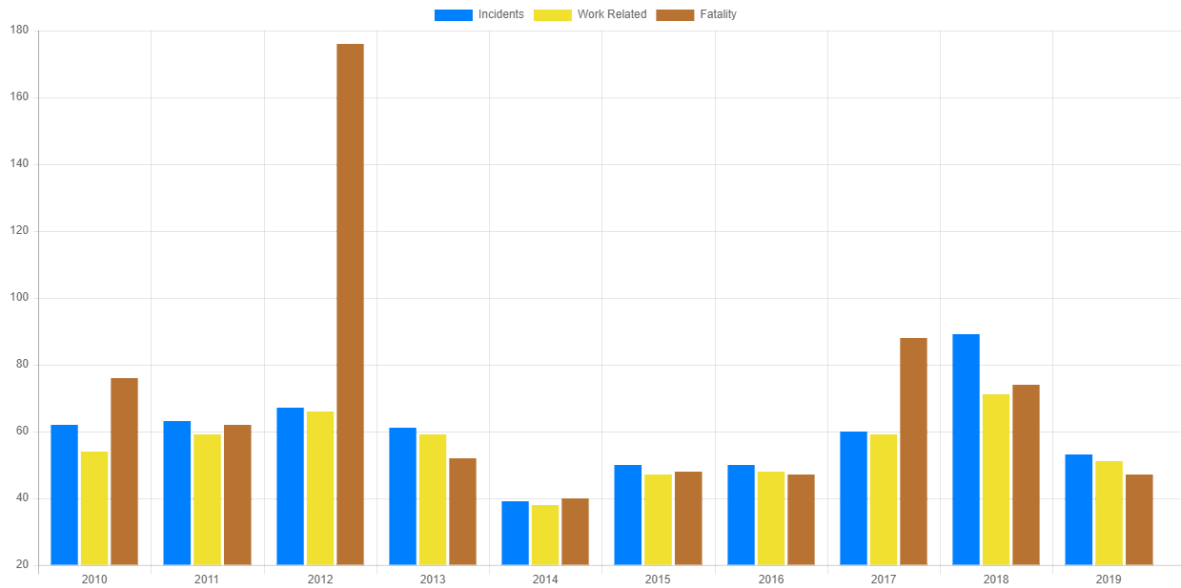
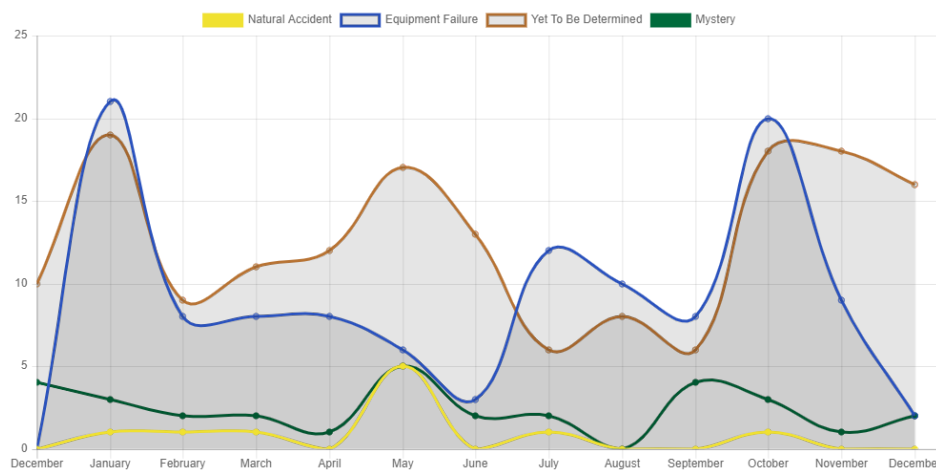


Figure 37 : Accident Report – Industry-wide

Table 83: 2019 Spill Incidence Report

Month	Natural Accident	Corrosion	Equipment Failure	Sabotage	Human Error	YTBD	Mystery	Total Spill	Volume Spill
December	0	2	0	3	0	10	4	20	85.20
January	1	5	21	53	1	19	3	103	711.79
February	1	4	8	50	0	9	2	74	1,578.86
March	1	0	8	55	0	11	2	77	159.14
April	0	1	8	22	1	12	1	45	427.60
May	5	4	6	39	0	17	5	76	5,224.36
June	0	2	3	36	0	13	2	56	27.25
July	1	3	12	31	1	6	2	56	324.56
August	0	5	10	39	1	8	0	63	515.42
September	0	4	8	41	0	6	4	63	191.68
October	1	5	20	35	0	18	3	82	139.05
November	0	2	9	51	1	18	1	82	332.47
December	0	1	2	15	1	16	2	40	25.61
<b>Total</b>	<b>10.00</b>	<b>38.00</b>	<b>115.00</b>	<b>470.00</b>	<b>6.00</b>	<b>163.00</b>	<b>31.00</b>	<b>837.00</b>	<b>9,743.00</b>



**Table 84: Spill Incidence Summary**

Year	Number of Spills	Quantity Spilled (Brl)
2010	307.00	17,658.10
2011	672.00	66,906.84
2012	840.00	17,526.37
2013	525.00	4,066.20
2014	1,087.00	10,302.16
2015	753.00	32,737.27
2016	425.00	1,618.98
2017	1,581.00	14,774.31
2018	409.00	9,011.85
2019	837.00	9,743.00

**Table 85: 2019 Report on Produced Water Volumes Generated**

#	Company	Facility	Terrain	Concession	Volume/Day (Bbl)
1	MOBIL PRODUCING NIGERIA UNLTD		OML298	Land	4,399.00
2	CONOIL PRODUCING LTD		OML301	Continental Shelf	110,517.00
3	MOBIL PRODUCING NIGERIA UNLTD		OML304	Continental Shelf	87,320.00
4	AMNI INTERNATIONAL DEVELOPMENT CO.	Afiesere Gas Lift Compressor Station	OML307	Continental Shelf	70,686.00
5	MIDWESTER OIL AND GAS CO. LTD		OML310	Continental Shelf	14,966.00
6	NETWORK E&P NIGERIA	Afiesere Gas Lift Compressor Station	OML313	Land	110,000.00
7	FRONTIER OIL LTD.		OML316	Land	150,410.00

#	Company	Facility	Terrain	Concession	Volume/Day (Bbl)
8	ATLAS PETROLEUM INTERNATIONAL LTD		OML319	Land	22,000.00
9	ENERGIA LTD.		OML322	Swamp	3,292.00
10	CONOIL PRODUCING LTD		OML325	Swamp	15,000.00
11	MOBIL PRODUCING NIGERIA UNLTD		OML328	Swamp	4,399.00

**Table 86: 2019 Drilling Waste Volumes**

Month	Sum Of WBMC (Mt)	Sum Of OBMC (Mt)	Sum Of Spent WBM (Mt)	Sum Of Spent OBM (Mt)
January	2,662.70	1,792.40	1,878.60	1,454.00
February	6,808.00	5,660.40	5,273.50	2,663.40
March	1,806.00	2,123.00	1,229.47	1,293.44
April	6,360.60	2,812.00	5,127.50	1,804.50
May	4,357.50	4,993.30	6,866.70	7,385.00
June	7,268.00	8,503.00	7,237.00	4,220.70
July	14,773.72	9,246.55	6,569.80	6,226.56
August	1,989.10	4,339.20	380.50	550.70
September	3,288.40	2,801.76	4,248.80	1,397.09
October	5,906.10	4,076.80	2,835.90	1,586.62
November	7,700.12	2,984.26	6,307.58	5,177.40
December	4,825.31	2,793.65	2,224.00	1,438.00
<b>Grand Total</b>	<b>67,745.55</b>	<b>52,126.32</b>	<b>50,179.35</b>	<b>35,197.41</b>

**Table 87: 2019 Accredited Waste Managers**

#	Company	Type of Facility	Location Area	Operational Status
1	Specialty Drilling Fluids Ltd	TDU : 1 unit	RIVERS	OPERATIONAL
2	Specialty Drilling Fluids Ltd	WBM : 1 unit	RIVERS	OPERATIONAL
3	Specialty Drilling Fluids Ltd	Hazardous Waste Transportation : Waste Transportation	RIVERS	OPERATIONAL
4	Nubian Nigeria Ltd	TDU : LTDU (Rotomil Low Temperature)	RIVERS	OPERATIONAL
5	Nubian Nigeria Ltd	WBM Handling : WBM Handling - Onsite	RIVERS	OPERATIONAL
6	Del Waste Management Company Limited (DEL)	TDU : 3 HTDUs, 2 LTDUs	RIVERS	OPERATIONAL
7	Del Waste Management Company Limited (DEL)	INCINERATOR : High Temp Hazardous Waste Incinerator	RIVERS	OPERATIONAL
8	Del Waste Management Company Limited (DEL)	WBM Handling : Using HT Incinerator	RIVERS	OPERATIONAL
9	Del Waste Management Company Limited (DEL)	Hazardous Waste Transportation : Waste Transportation	RIVERS	OPERATIONAL
10	Del Waste Management Company Limited (DEL)	Tank/Vessel Cleaning unit : TCU-OS0701 & SC 15 TWGL	RIVERS	OPERATIONAL
11	ITS Drilling Services Nigeria Limited	INCINERATOR : 2 Trash Incinerators CA1000 & RD700 (Models)	ABIA	OPERATIONAL
12	ITS Drilling Services Nigeria Limited	Secondary Waste Management : Secondary Waste Management	ABIA	OPERATIONAL
13	ITS Drilling Services Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation	ABIA	OPERATIONAL
14	Paschal Technical Services Ltd	INCINERATOR : 1 Macroburn V500C Incinerator	RIVERS	OPERATIONAL
15	Paschal Technical Services Ltd	Tank Cleaning : Gamajet-8	RIVERS	OPERATIONAL
16	Paschal Technical Services Ltd	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore	RIVERS	OPERATIONAL
17	Golden Years Ltd	INCINERATOR : 2x 1000kg/hr Incinerators	RIVERS	OPERATIONAL
18	Golden Years Ltd	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
19	Golden Years Ltd	Secondary Waste Management : Secondary Waste Management	RIVERS	OPERATIONAL
20	Allman Global	INCINERATOR : 1 x 1000KG/HR Incinerator	RIVERS	OPERATIONAL
21	Allman Global	WBM : Mobile Water based Treatment Plant	RIVERS	OPERATIONAL
22	Allman Global	Hazardous Waste Transportation : Hopper Barges	RIVERS	OPERATIONAL
23	The Initiates	TDU : 1 Indirect Fire Soil Remediation, WBM and Associated cuttings treatment Unit	RIVERS	OPERATIONAL
24	The Initiates	Secondary Waste Management : Secondary Waste Management	RIVERS	OPERATIONAL
25	The Initiates	Tank Cleaning : Super Macs	RIVERS	OPERATIONAL
26	The Initiates	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
27	The Initiates	INCINERATOR : 1 AANL Kg/hr Rotary Kiln Incinerator	RIVERS	OPERATIONAL
28	The Initiates	Secondary Waste Management : Secondary Waste Management	RIVERS	OPERATIONAL
29	The Initiates	WBM Handling : WBM Handling	RIVERS	OPERATIONAL
30	Nautilus Engineering and Construction Company (NECC)	TDU : 1 TDU	RIVERS	OPERATIONAL
31	Seric Implants	TDU : 1 Unit Bethlehem Thermal D System	RIVERS	OPERATIONAL
32	Boskel Engineering Services	INCINERATOR : High Temp. Rotary Kiln Incinerator, 1 High Temp. Liquid incinerator.	RIVERS	OPERATIONAL
33	Boskel Engineering Services	TDU : 1 unit	RIVERS	OPERATIONAL
34	Halden Nigeria Limited	INCINERATOR : 1-unit Dual Chamber PL-1200 Incinerator	RIVERS	OPERATIONAL
35	Halden Nigeria Limited	WBM Handling : WBM Handling: Offsite	RIVERS	OPERATIONAL
36	Halden Nigeria Limited	TDU : 1x Vulcan IDR	RIVERS	OPERATIONAL
37	Frigate Investment Ltd	TDU : 2 units LTDU	RIVERS	OPERATIONAL

#	Company	Type of Facility	Location Area	Operational Status
38	Frigate Investment Ltd	WBM Handling : WBM Handling: Offsite	RIVERS	OPERATIONAL
39	Frigate Investment Ltd	Hazardous Waste Transportation : 4 Coral Barges	RIVERS	OPERATIONAL
40	Frigate Investment Ltd	Waste Water Treatment : 50kl/hr SSS0000	RIVERS	OPERATIONAL
41	Frigate Investment Ltd	Secondary Waste Management : Secondary Waste Management	RIVERS	OPERATIONAL
42	Frigate Investment Ltd	Tank Cleaning : Gamajet Technology	RIVERS	OPERATIONAL
43	FIBOW	INCINERATOR : 1-unit High Temp Horizontal Flow Multi-Chambered Incinerator	RIVERS	OPERATIONAL
44	EPCC Ltd	INCINERATOR : 1-unit Sludge Incinerator	RIVERS	OPERATIONAL
45	Titan Projects Nigeria Limited	TDU : 2 units	RIVERS	OPERATIONAL
46	Titan Projects Nigeria Limited	WBM Handling : WBM Handling	RIVERS	OPERATIONAL
47	Titan Projects Nigeria Limited	Secondary Waste/Solidification : Secondary Waste/Solidification	RIVERS	OPERATIONAL
48	Titan Projects Nigeria Limited	Hazardous Waste Transportation : 3 Coral Barges	RIVERS	OPERATIONAL
49	Comprehensive Remediation Technologies (CRT)	TDU : 1x GTS LTDU unit	RIVERS	OPERATIONAL
50	Comprehensive Remediation Technologies (CRT)	INCINERATOR : 1-unit G-30 Therm-Tec Incinerator	RIVERS	OPERATIONAL
51	Comprehensive Remediation Technologies (CRT)	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning	RIVERS	OPERATIONAL
52	Comprehensive Remediation Technologies (CRT)	Hazardous Waste Transportation : Hazardous Waste Transportation	RIVERS	OPERATIONAL
53	Mosab Marine and Engineering Services Limited	TDU : 1unit Vulcan TDU	RIVERS	OPERATIONAL
54	Mosab Marine and Engineering Services Limited	WBM Handling : WBM Handling: Onsite	RIVERS	OPERATIONAL
55	Mosab Marine and Engineering Services Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning	RIVERS	OPERATIONAL
56	Amotol Global Services Limited	INCINERATOR : 1 unit – Model 4505	BAYELSA	OPERATIONAL
57	Amotol Global Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	BAYELSA	OPERATIONAL
58	Amotol Global Services Limited	WBM Handling : WBM Handling	BAYELSA	OPERATIONAL
59	Franco Intl Energy Services	TDU : 1 unit	BAYELSA	OPERATIONAL
60	Prime Sources Ltd	INCINERATOR : 1 unit	RIVERS	OPERATIONAL
61	Petro-Scan Ltd	TDU : 1 unit	RIVERS	OPERATIONAL
62	Fidella Oil and Gas Services Ltd	TDU : 1-unit Vulcan Model 14818 TDU	RIVERS	OPERATIONAL
63	Fidella Oil and Gas Services Ltd	WBM Waste Water Treatment : WBM Waste Water Treatment	RIVERS	OPERATIONAL
64	Fidella Oil and Gas Services Ltd	INCINERATOR : 1 unit (AANL-1000KG/HR DTS)	RIVERS	OPERATIONAL
65	Fidella Oil and Gas Services Ltd	Tank/Vessel Cleaning unit : Gobyjet	RIVERS	OPERATIONAL
66	Olutee Engineering Services	INCINERATOR : 1 Gencorp Beverly Type Waste Incinerator (for general waste)	DELTA	OPERATIONAL
67	Olutee Engineering Services	INCINERATOR : 1 Howden Pyrolytic Gasification System (medical incinerator)	DELTA	OPERATIONAL
68	Olutee Engineering Services	INCINERATOR : 1 Municipal Waste (Trash) incinerator	DELTA	OPERATIONAL
69	Mawe Services Limited	TDU : 1 unit	DELTA	NOT OPERATIONAL
70	Titan Projects Nigeria Limited	TDU : 2 units	DELTA	OPERATIONAL
71	Titan Projects Nigeria Limited	Hazardous Waste Transportation : Coral Barges	DELTA	OPERATIONAL
72	Ebenco Global Resources Limited	INCINERATOR : 1 unit	DELTA	OPERATIONAL
73	Vmart Company Limited	LTDU : 1 unit	DELTA	OPERATIONAL
74	Vmart Company Limited	INCINERATOR : Incinerator	DELTA	OPERATIONAL
75	Vmart Company Limited	Sewage Treatment Plant : Sewage Treatment Plant	DELTA	OPERATIONAL
76	Silver Star Environmental Nigeria Limited	TDU : : 4 units	DELTA	OPERATIONAL
77	Silver Star Environmental Nigeria Limited	WBM Handling : WBM Handling	DELTA	OPERATIONAL
78	Silver Star Environmental Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	DELTA	OPERATIONAL
79	ITS Drilling Services Nigeria Limited	TDU : TDU: 1 unit	ABIA	OPERATIONAL
80	ITS Drilling Services Nigeria Limited	Secondary Waste Management : Secondary Waste Management	ABIA	OPERATIONAL
81	ITS Drilling Services Nigeria Limited	WBM Handling : WBM Handling	ABIA	OPERATIONAL
82	ITS Drilling Services Nigeria Limited	INCINERATOR : CA-1000 Domestic Trash Incinerator	ABIA	OPERATIONAL
83	ICREN Services Limited	INCINERATOR : 1 unit	RIVERS	OPERATIONAL
84	JAPPCO Nigeria Limited	WBM Handling : On-site treatment unit	RIVERS	OPERATIONAL
85	Stelmas Integrated Services Limited	Waste Recycling : Waste Recycling	RIVERS	OPERATIONAL
86	Blueworks Technologies	WBM Handling : On-site treatment unit	RIVERS	OPERATIONAL
87	Ejovi Dredging & Marine Services Limited	WBM Handling : WBM Handling	RIVERS	OPERATIONAL
88	Salasar Enterprises Limited	Pyrolysis plant : Pyrolysis plant	OGUN	OPERATIONAL
89	Technoserve Africa Limited	WBM Handling : WBM Handling	RIVERS	OPERATIONAL
90	Dubi Nigeria Company Limited	WBM Handling : WBM Handling	RIVERS	OPERATIONAL
91	Montego Upstream Services Limited	TDU : TDU	DELTA	OPERATIONAL
92	Montego Upstream Services Limited	WBM Handling : WBM Handling	DELTA	OPERATIONAL
93	Montego Upstream Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore	DELTA	OPERATIONAL
94	Dakotelin Nigeria Limited	WBM Handling : WBM Handling: On-site	RIVERS	OPERATIONAL
95	Dakotelin Nigeria Limited	Bulk Cuttings Evacuation/Transfer : Bulk Cuttings Evacuation/Transfer	RIVERS	OPERATIONAL
96	Currenters Nigeria Limited	Waste Recycling Plant : Waste Recycling Plant	RIVERS	OPERATIONAL
97	Currenters Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation – Onshore	RIVERS	OPERATIONAL
98	Currenters Nigeria Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning Unit	RIVERS	OPERATIONAL
99	JB Synergy Limited	Hazardous Waste Transportation : 1 Coral Barge	RIVERS	OPERATIONAL
100	Consolidated Integrated Field Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	LAGOS	OPERATIONAL
101	Prompt Technology Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
102	Elvimex Nigeria Limited	Waste Recycling : Waste Recycling	RIVERS	OPERATIONAL
103	Elvimex Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
104	Emtobi Multi Services Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
105	Phronesis Oil and Gas Tek Limited	WBM Handling : WBM Handling: Onsite	RIVERS	OPERATIONAL
106	Wilton Services Nig. Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Offshore	RIVERS	OPERATIONAL



#	Company	Type of Facility	Location Area	Operational Status
107	Wilton Services Nig. Limited	WBM Handling : WBM Handling - Onsite	RIVERS	OPERATIONAL
108	Oilfield Management Services Limited	TDU : 1 Unit (Model WJ 9)	RIVERS	OPERATIONAL
109	Oilfield Management Services Limited	WBM Handling : WBM Handling - Onsite	RIVERS	OPERATIONAL
110	TMCH Group Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
111	TMCH Group Limited	Tank/Vessel Cleaning unit : Gamajet VIII	RIVERS	OPERATIONAL
112	TYJ Trinity oilfield Services	Zero Discharge Drilling Waste Streams Fixation : Zero Discharge Drilling Waste Streams Fixation	DELTA	OPERATIONAL
113	Newbirth Environmental Project Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
114	Elywin Wealth Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	AKWA IBOM	OPERATIONAL
115	Integrated Waste Solutions Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
116	Greenbelt Tropical Environs Limited	TDU : 1-unit LTDU	DELTA	OPERATIONAL
117	Greenbelt Tropical Environs Limited	Hazardous Waste Transportation : Coral Barges	DELTA	OPERATIONAL
118	Greenbelt Tropical Environs Limited	Secondary Waste Management : Secondary Waste Management	DELTA	OPERATIONAL
119	Roadlamp Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
120	Philcom Integrated Limited	Hazardous Waste Transportation : Hazardous Waste Transportation: Onshore	RIVERS	OPERATIONAL
121	FILCO Drilling & Completion Services Limited	Offshore Drill Cuttings Evacuation : Offshore Drill Cuttings Evacuation	RIVERS	OPERATIONAL
122	Coson Oil and Gas Projects Limited	WBM Handling : WBM Handling: On-site	RIVERS	OPERATIONAL
123	Anam Resources Limited	Waste Recycling : Waste Recycling	RIVERS	OPERATIONAL
124	B2 Oil & Gas Project Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore	DELTA	OPERATIONAL
125	CKS Environmental Services Nigeria Limited	WBM Handling : WBM Handling: Onsite	RIVERS	OPERATIONAL
126	Milat Nigeria Limited	Tank Cleaning : Milat-Sepor Equipment	RIVERS	OPERATIONAL
127	OMG Rubicon Synergy Limited	Wood Waste Recycling : Frost ST6 Woodchipper	RIVERS	OPERATIONAL
128	Synergy Environmental Experts Global Limited	Tank Cleaning : Gamajet (Alfa Laval GJ-Series)	RIVERS	OPERATIONAL
129	Patoski International Services Limited	Tank Cleaning : Gamajet	RIVERS	OPERATIONAL
130	Lafarge Africa Plc	Secondary Waste Management : Secondary Waste Management	OGUN	OPERATIONAL
131	Mabisel Trading & Construction Company Limited	Tank/Vessel Cleaning unit : Gobyjet	RIVERS	OPERATIONAL
132	Monarch Environmental Services Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning	LAGOS	OPERATIONAL
133	Mascodi Global Integrated Services Limited	Waste Recycling : Waste Recycling (Paraffin wax)	DELTA	OPERATIONAL
134	Tima Global Resources Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore	RIVERS	OPERATIONAL
135	ISEEU Multi-Concept Limited	Tank/Vessel Cleaning unit : Scanjet SC-45-TW	RIVERS	OPERATIONAL
136	NCS Tank Cleaning Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning	LAGOS	OPERATIONAL
137	Remix Industrial Support Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore	RIVERS	OPERATIONAL
138	Global Process and Pipeline Limited	Tank/Vessel Cleaning unit : Stoneage Torus 130	RIVERS	OPERATIONAL
139	Environ Consult & Remedial Services Limited	Tank/Vessel Cleaning unit : NES 320 Mover/ Gamajet	RIVERS	OPERATIONAL
140	KTV Group Nigeria	Tank/Vessel Cleaning unit : Blabo Tech	LAGOS	OPERATIONAL
141	Judora Integrated Services Nigeria Limited	Hazardous Waste Transportation : Hazardous Waste Transportation - Onshore	RIVERS	OPERATIONAL
142	CE-Stalong Resources Limited	Tank/Vessel Cleaning unit : Alfa Laval GJ-8	RIVERS	OPERATIONAL
143	Zitadel Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning unit	RIVERS	OPERATIONAL
144	M-I Nigeria Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning unit	RIVERS	OPERATIONAL
145	International Environmental Consultant	TDU : 1 unit	IMO	OPERATIONAL
146	KGDN Technologies Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning unit	RIVERS	OPERATIONAL
147	Iwo-se International Services Limited	Tank/Vessel Cleaning unit : Tank/Vessel Cleaning unit	RIVERS	OPERATIONAL
148	Honeybrooks Industrial & Environmental Services Limited	Tank/Vessel Cleaning unit : BR Mixer	LAGOS	OPERATIONAL
149	African Circle Pollution Management Limited	Tank Cleaning : Gamajet	LAGOS	OPERATIONAL
150	African Circle Pollution Management Limited	Liquid Waste Separator : Liquid Waste Separator	LAGOS	OPERATIONAL
151	African Circle Pollution Management Limited	INCINERATOR : 1 unit Tectrol Incinerator	LAGOS	OPERATIONAL
152	EnvironSafe Logistics Limited	Hazardous Waste Management : Hazardous Waste Management - Onshore	RIVERS	OPERATIONAL
153	Seegnal Nigeria Limited	Tank/Vessel Cleaning unit : Gamajet	ABUJA	OPERATIONAL
154	Asbury International Limited	Tank/Vessel Cleaning unit : Alfa Laval GJ-10 & GJ-8)	RIVERS	OPERATIONAL
155	Eka-Ata Onne Nigeria Limited	INCINERATOR : AANL-1000kg/hr	RIVERS	OPERATIONAL
156	Resdepn International Limited	Tank/Vessel Cleaning unit : Hurricane QC250 Vacuum Unit	RIVERS	OPERATIONAL

**Table 88: 2019 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	22
6	Secondary Waste Management	8
7	Tank Cleaning	7
8	Waste Water Treatment	1
9	Secondary Waste/Solidification	1
10	Tank/Vessel Cleaning	0
11	LTDU	1
12	Sewage Treatment Plant	1
13	Waste Recycling	4

#	Type of Facility	Operational Permit
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: 2019 Oil Spill Contingency Plan Activation Exercises**

#	Location	Terrain	Nos Of Companies For Oscp/Fi	Actual Nos Of Companies Audited
1	DEPOT	Land	34	30
2	DEPOT	Land	132	122
3	DEPOT	Deep Offshore	19	17
4	DEPOT	Land	11	10
5	REFINERY	Land	123	321
6	DEPOT	Land	39	26
7	UPSTREAM FACILITY	Land	22	33
8	UPSTREAM FACILITY	Land	123	121
9	REFINERY	Land	33	29
10	REFINERY	Deep Offshore	90	91

**Table 90: 2019 Number Of Petitions Received**

#	Petitioner	Petitionee	Category	Action Taken	Status
1	Petitioner1	Petitionee1	CSR	Investigation	Litigation
2	Petitioner13	Petitionee13	CSR	Investigation	Litigation
3	Petitioner12	Petitionee12	CSR	Non-Compliance-Notice	Pending
4	Petitioner9	Petitionee9	CSR	Investigation	Litigation
5	Petitioner10	Petitionee10	Pollution	Mediation	Litigation
6	Petitioner14	Petitionee14	Pollution	Non-Compliance-Notice	Amicable Settlement
7	Petitioner17	Petitionee17	Pollution	Investigation	Litigation
8	Petitioner6	Petitionee6	Pollution	Non-Compliance-Notice	Amicable Settlement
9	Petitioner5	Petitionee5	Pollution	Investigation	Litigation
10	Petitioner18	Petitionee18	Pollution	Investigation	Litigation
11	Petitioner2	Petitionee2	Pollution	Non-Compliance-Notice	Amicable Settlement
12	Petitioner15	Petitionee15	Compensation	Mediation	Pending
13	Petitioner19	Petitionee19	Compensation	Mediation	Pending
14	Petitioner16	Petitionee16	Compensation	Mediation	Pending
15	Petitioner11	Petitionee11	Compensation	Mediation	Pending
16	Petitioner7	Petitionee7	Compensation	Mediation	Pending
17	Petitioner3	Petitionee3	Compensation	Mediation	Pending
18	Petitioner8	Petitionee8	Others	Non-Compliance-Notice	Pending
19	Petitioner4	Petitionee4	Others	Investigation	Pending
20	Petitioner20	Petitionee20	Others	Investigation	Pending

**Table 91: 2019 Request For Approvals – Chemicals**

[illegible]

### Table 92: 2019 Summary of Accredited Laboratories

#	Laboratory Service	Lagos Zone	Port Harcourt Zone	Warri Zone	Total
1	ENVIRONMENTAL QUALITY MONITORING	9	1	1	11
2	Environmental Quality Monitoring & Biodegradability	1	0	0	1
3	Environmental Quality Monitoring & Biomonitoring	2	0	0	2
4	ENVIRONMENTAL QUALITY MONITORING & Toxicity Testing	6	0	0	6
5	Geological (Geotechnical) Services	1	0	0	1
6	Geological Services (Biostratigraphy)	1	0	0	1
7	Geological Studies	1	0	0	1
8	Geotechnical Services	3	0	0	3
9	Material Safety Investigation	1	0	0	1
10	Petroleum Quality Monitoring	12	0	0	12
11	Toxicity Testing	3	0	0	3
12	Toxicity Testing & Biodegradability	1	0	0	1
13	Toxicity Testing & Biodegradability Testing	1	0	0	1
Total		42	1	1	44

**Table 93: 2019 Monthly Summary of Radiation Safety Permit**

#	Well Type	January	February	March	April	May	June	July	August	September	October	November	December
1	Development	0	0	28	0	0	0	0	0	0	0	0	0
2	Exploratory	0	0	1	0	0	0	0	0	0	0	0	0
3	Production	0	0	8	0	0	0	0	0	0	0	0	0
4	Appraisal	0	0	3	0	0	0	0	0	0	0	0	0

**Table 94: 2019 Effluent Waste Discharge**

#	Company	Well Name	Spent WBM	Spent OBM	WBM Cuttings Generated	OBM Cuttings Generated	Waste Managers
1	SHELL NIG. E&P CO. (SNEPCO)	B690W5	716	159	801.3	844.4	DAKOTELIN
2	TOTAL UPSTREAM (TUPNI)	EGINA	1260	415	501	637	FILCO, NUBIAN, MONTEGO
3	SEPLAT PRODUCTION AND DEV. CO.	OVHOR DNFT-01	613	546	801	381	FRIGATE UPSTREAM
4	SEPLAT PRODUCTION AND DEV. CO.	OVHOR DLFW-04	409	545	801	384	FRIGATE UPSTREAM
5	SEPLAT PRODUCTION AND DEV. CO.	OBEN IUKA-03	613	546	586	496	FRIGATE
6	SHELL PETROLEUM DEVELOPMENT CO.	EAZZC50W068	286.2	211	267	136	TITAN PROJECTS
7	SHELL PETROLEUM DEVELOPMENT CO.	EAZD70W078	266	382	227	601	TITAN PROJECTS
8	NIGERIAN PET DEV CO. (NPDC)	UGHELLI-Y2	1605	654	1254	954	WILTON SERVICES
9	AMNI INTERNATIONAL DEVELOPMENT CO.	TUBU B04A-1	620		1800	1600	NUBIAN
10	CONTINENTAL OIL AND GAS LTD.	OBODO WELL-30	470	470	920	1650	THE INITIATES
11	CONOIL PRODUCING LTD	MBOUTIDEM -5X WELL	270	485	677	1350	SERIC IMPIANTI
12	NIGER DELTA PET. RESOURCES LTD	OMERELU2-A	500.22	265	400.22	165	BLUE WORKS TECHNOLOGIES
13	Dangote Industries Limited	OGHAREKI C WELL	706.14	59.21	43.61	188.51	FRIGATE
14	First E&P/ Dangote	MA84C_P	203.55	368.8	240	354	FRIGATE UPSTREAM
15	First E&P/ Dangote	ANY-11_ST1	203.55	368.8	240	354	FRIGATE UPSTREAM

**Table 95: 2019 Applications For Environmental Restoration Services**

#	Service	Approval Status	Approval (New)	Approval (Renewal)	Total
1	Soil Remediation	Under Processing	17	14	31
2	Soil Remediation	Approved	21	5	26
3	Soil Remediation	Approved	17	14	31
4	Oil Spill Containment / Cleanup	Disapproved	4	11	15
Total			59	44	103

**Table 96: 2019 Environmental Studies**[illegible]

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
February	0	2	4	5	4	0	1	0	14	1	31
March	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0
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
Total											

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

Year	PERSONNEL REGISTERED	PERSONNEL CAPTURED	PERMITS ISSUED
2013	5962	3610	727
2014	11543	9541	11637
2015	10369	9388	10160
2016	4681	4569	5029
2017	6361	5537	5246
2018	9884	8915	9072
2019	11884	6915	10072

**Table 98: 2019 Approved Safety And Medical Emergency Training Centres**

#	Company	Facility Location Address	Approved Courses
12	Tolmann Allied Services Company Limited	Plot 7b Trans Amadi Industrial Layout, Mothercat Junction (Opp. Anadrill), Port Harcourt	Basic Firefighting; Breathing Apparatus Course; Basic First Aid; Helicopter Landing Officer; Advanced First Aid; Helideck Team Member; Basic Offshore Safety Induction and Emergency Training; Emergency Response Course; Helicopter Underwater Escape Training; Confined Space Entry; Further Offshore Emergency Training; Swing Rope Transfer
13	Charkins Maritime Safety Training Center	KM 4, East West Road, Ozuoba, Port Harcourt	Basic Firefighting; Advanced Firefighting; Basic First Aid; Advanced first Aid; Basic Offshore Safety Induction and Emergency Training; Further Offshore Emergency Training; Compressed Air Emergency Breathing System; Well Control and Intervention; Helicopter Underwater Escape Training; Travel Safely by Boat; Minimum Industry Safety Training; Helicopter Team Member; Work at Height; Authorized Gas Tester; H2SAwareness/Confined Space Entry Rescue; Rigging & Banksman Slinging; Rig Safety Officer Training 1,2,3
14	Opeans Nigeria Limited	32 Jenny & Jessy Road, Off Peter Odili Road, Port Harcourt, Rivers State	Tropical Helicopter Underwater Escape Training; Breathing Apparatus Course; Tropical Basic Offshore Safety Induction and Emergency Training; Confined Space Entry; Basic Firefighting; Swing Rope/Basket Transfer; Basic First Aid; Advanced First Aid; Lifeguard/Offshore Rescue and Survival Techniques
15	Opeans Nigeria Limited	34 Opete Road, Off Okokutu Junction, Warri, Delta State	Helicopter Underwater Escape Training
16	Safety Center International Limited	Opposite Port Harcourt Int'l Airport Hotel, Port Harcourt, Rivers State	Basic Firefighting; Basic First Aid; Advanced Firefighting; Breathing Apparatus Course; Confined Space Entry; Health & Safety in Welding
17	JC International Limited	Plot 5 JC Street, Off Peter Odili Road, Port Harcourt, Rivers State	Rope Access; Lifting Operations Course; Drilling & Well Intervention; Confined Space Entry
18	Falck Prime Atlantic Limited	9 Younis Bashorun Street, Victoria Island Lagos	Basic Firefighting; Travel Safely by Boat; Advanced Firefighting; Travel Safely by Boat Further Training; Basic First Aid; Helicopter Landing Officer; Advanced First Aid; Helideck Assistant/Team Member; Helicopter Underwater Escape Training; Emergency Response Courses; Basic Offshore Safety Induction and Emergency Training; Rigging & Slinging; Further Offshore Emergency Training; Working at Heights; Confined Space Course (Entry/Exit & Search/Rescue); Breathing Apparatus Course
19	Blisston Nigeria Limited	Block B, Plot 7, Eleko Beach Road, Lekki, Lagos State	Basic Firefighting; Tropical Further Offshore Emergency Training; Advanced Firefighting; Helicopter Landing Officer; Helicopter Underwater Escape; Training Emergency Response Courses; Tropical Basic Offshore Safety Induction and Emergency Training; Swing Rope Transfer
20	Lym Consults	Km 10 Sapele-Warri Express Road, Otomewo Community,Near Warri,Delta State	Basic Offshore Safety Induction and Emergency Training; Basic Firefighting; Basic First Aid; Helicopter Underwater Escape Training (HUET); Survival at Sea (SAS)
21	EMERGENCY RESPONSE SERVICES LIMITED	Off 394, Ikwere Road, Rumuokwuta, Port Harcourt, Rivers State	Basic Life Support (BLS), Advanced Cardiovascular Life Support (ACLS), Pediatric Advanced Life Support (PALS), Basic Emergency Response Training (Medical), Rig Medic
22	KAYGRILL SERVICES NIGERIA LIMITED	Elemo East West Road, Behind GVC Filing station, Okaken, Aieto Elemo,Port Harcourt, Rivers State	Advanced Fire Safety Training, Confined Space Entry Training, Emergency Response & Rescue Training.

**Table 99: Revenue Performance Summary**

Year	Oil Royalty ₦	Gas Royalty ₦	Gas Flare Penalty ₦	Concession Rentals ₦	MOR ₦	Signatre Bonus ₦	Total Revenue ₦
2010	694,352,412,710.14	0.00	2,388,572,351.20	728,308,923.82	951,380,744.23	1,234,560.00	698,421,909,289.39
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

Year	Oil Royalty ₦	Gas Royalty ₦	Gas Flare Penalty ₦	Concession Rentals ₦	MOR ₦	Signature Bonus ₦	Total Revenue ₦
2013	960,540,365,106.84	23,235,123,088.28	3,120,786,665.13	178,630,934.47	3,981,983,109.64	0.00	991,056,888,904.36
2014	986,343,364,217.80	21,110,923,948.24	2,930,215,304.51	413,496,723.26	5,983,027,290.84	0.00	1,016,781,027,484.65
2015	545,061,446,369.23	22,292,228,906.41	2,590,365,296.82	201,275,922.56	17,489,298,348.58	0.00	587,634,614,843.60
2016	437,356,879,889.83	16,298,590,492.52	2,333,879,050.11	342,495,121.25	6,408,509,381.58	0.00	462,740,353,935.29
2017	704,431,333,766.93	33,173,790,789.60	2,779,377,359.95	356,894,436.55	6,357,674,731.33	0.00	747,099,071,084.36
2018	9,234,123,340.00	2,356,524,350.00	4,563,431,190.00	6,432,323,122.00	5,632,222,210.00	2,123,456,660.00	30,342,080,872.00
2019	9,238,623,340.00	2,351,224,350.00	4,568,931,190.00	6,436,733,122.00	5,632,502,210.00	2,123,410,660.00	30,351,424,872.00
Total	6,465,438,597,034.57	157,674,504,070.58	32,608,059,474.48	15,923,196,130.87	55,883,992,124.75	4,248,101,880.00	6,731,776,450,715.25

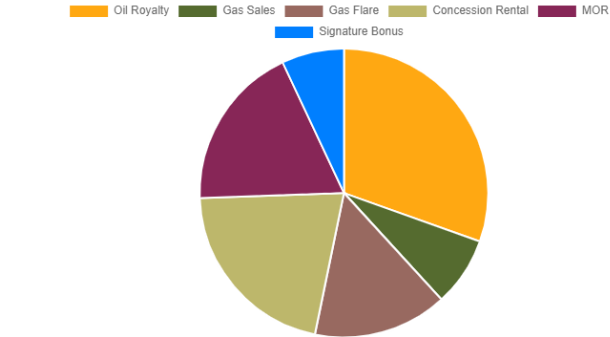


Figure 40 : Revenue Performance Summary Yearly

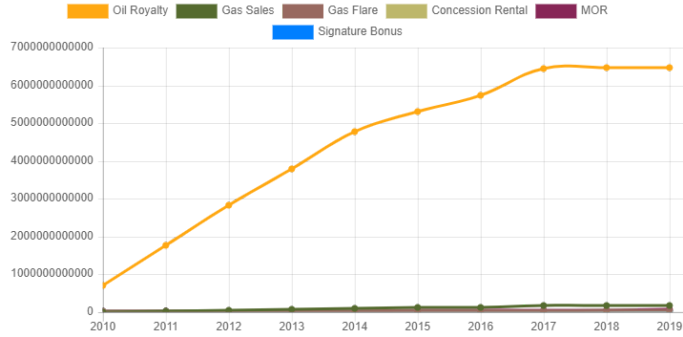


Figure 41 : Revenue Performance

5.0 GLOSSARY ITEMS

## 5.0 GLOSSARY ITEMS

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

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