Department of Petroleum Resources

2015 OIL & GAS ANNUAL REPORT

Table of Contents

1.0 REMARKS FROM DIRECTOR OF PETROLEUM RESOURCES

Mr. Mordecai D. Ladan
Director of Petroleum Resources

The sliding oil prices have continued to pose significant challenges to nation-states like Nigeria whose economy almost depends entirely on the proceeds from oil and gas activities. The global dip started when oil prices fell from US$112 to US$62 in 2014 and found a new bottom in January 2016 when OPEC basket price plummeted to US$26.50. Even though it has subsequently inched to about US$40 in the first half of 2016 that is just 33% of the 2014 price.

Falling prices have significantly eroded the accruable revenues and widened budget deficits in most of the conventional producing countries across the world. The impacts are especially severe on Nigeria that depends on oil and gas proceeds for more than 90% of its annual budget. These have further thrown up some salient challenges to the Nigerian industry and accentuated the need for more cost-efficient system. Specifically, it realities call for comprehensive strategy to revamp the aging infrastructure to minimize the perennial technical losses. There is also a compelling need for a fully developed downstream sector to locally add value to upstream activities.

Right strategies would enable Nigeria effectively compete for needed foreign investments capital to tackling most of the challenges. New capital injection is vital to re-exploring the traditional terrain in the Niger Delta which has stayed largely unexplored since the 1960s. Re-exploration of the Niger Delta brown fields with new technology would enable the industry realize the full potentials of the area. New investments also be vital to exploring and developing green fields, especially those awarded in the 2005 to 2007 Bid Rounds. The re-exploration of the brown fields and development of green fields hold the keys to attaining the 40 billion barrels reserve and the 4 million bopd production targets of government.

Gas monetization also offers credible options in the current economic challenges, especially in the diversification of the local oil and gas industry. The prospects are bright for a vibrant domestic gas market now with the opportunities offered by the local electricity sector. The rising demand for natural gas in the West African sub-region, domestic gas-to-fertilizer and regional gas-to-power prospects further offer opportunities in medium and long terms to building a virile gas market in Nigeria. Government is therefore working hard to harness the opportunities by instituting a process that would serve stakeholders more efficiently and give fair returns on investments under an open access regime.

The contributions of local refineries to the products market had remained low in the period covered by this Report. The four public refineries in Nigeria performed abysmally below the 445,000 barrels nameplate capacity, the 1,000 barrel topping plant under private operation however recorded a more impressive performance. The local refineries only produced 4.85 % of their combined installed capacity during the periods. The dismal refining figures are attributable to the low pump prices due to the price-capping policy of the subsidy regime. That situation is expected to improve with the recent new pricing mechanism that now offers a higher profit margin to the refineries and marketers. In addition, the ongoing Modular Refinery initiative is attracting attract more investors that would harness stranded oil assets to aggregately boost local refining capacity.

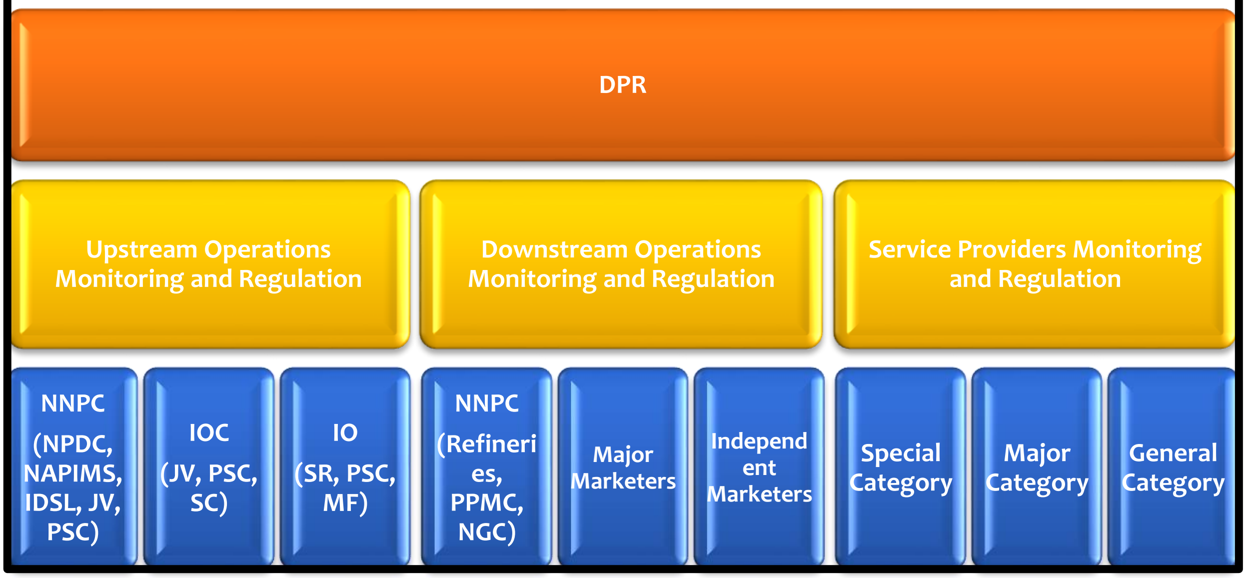
The new realities require thinking out of the box in order to maximize values in a lean price environment. Timely collation of data and accurate interpretation of data are required for government to formulate the needed policies and to enable investors make informed decisions. Dissemination of relevant data to the general public is also important for accountability and ensure transparency.

DPR had reintroduced the Annual Statistical Bulletin (ASB) in 2013 to report on the Nigerian oil and gas activity data, and it soon followed up with the 2014 Edition. The title has been changed to Oil & Gas Industry Annual Report starting with this edition to properly convey the purpose of the publication. The edition provides data on the Nigerian oil and gas industry activities from 2010-2015 and we hope it meets the expectations of our stakeholders.

M. D. B. Ladan

2.0 REGULATORY STRUCTURE OF THE NIGERIAN OIL AND GAS INDUSTRY

FIG. 1: The Nigerian Oil and Gas Industry – Institutional Regulatory Structure



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

3.0 EVOLUTION OF THE NIGERIAN OIL AND GAS SECTOR

Upstream Petroleum activities in Nigeria date back to 1908 when a German company, the Nigerian Bitumen Corporation (NBC), explored for oil in the South Western area. The company was apparently spurred by the seepages of oil in the so-called Tar Sand deposits around Agbabu present day Ondo State.

The early exploration for oil was punctuated by the outbreak of World War I in 1914. However, in 1937 Shell-D'Arcy, a consortium of Shell and Royal Dutch Company, resumed exploration activities in South Eastern Nigeria; in Owerri area, in the northern frame of the Niger Delta. But the renewed efforts were again halted in 1939 with the outbreak of World War II. Shell resumed exploration in partnership with British Petroleum (BP) after the War concentrating its renewed exploration efforts on onshore western Niger Delta, where it eventually made the first commercial discovery at Oloibiri, in present-day Bayelsa State, in 1956. Oil production had progressively risen from the 5,100 bopd at the first export on February 17, 1958 to the around 2.2 million bopd present day production figures. Nigeria joined the OPEC in 1971. ?it is currently the biggest oil producer in the African continent and the sixth biggest producer in Organisation of Petroleum Exporting Countries (OPEC)

Before 1956 the statutory E&P requirements consisted in the Mineral Oils Act of 1914 and a major provision in that law restricted exploration and production activities in Nigeria to only "... British subjects or a British company registered in Great Britain or in a British colony". The statute further provided for compensation on disturbance of surface rights in the course of oil operations. The Oil Pipelines Act, 1956 was enacted many years later, following the discovery at Oloibiri to regulate transportation of produced oil by pipelines. The Petroleum Profits Tax (PPT) Ordinance 1959 was later enacted to govern Royalties, incentives, taxes and assessable profits.

Regulation activities in the Nigerian oil and gas industry have metamorphosed significantly since independence from Great Britain in 1960. The Mineral Oils (Amendment) Act, 1962 abrogated hitherto exclusive rights of British-registered companies to the industry and opened it up for non-British actors. The Mineral Oils (Safety) Regulations, 1963 prescribed the first set of statutory requirements for standardizing E&P operational safety practices and the Oil Pipelines (Amendment) Act (1965) provided the legal regimes on crude oil pipelines.

Over the years, growing E&P activities in Nigeria further necessitated a broader statutory framework for regulation, informing the enactment of the Petroleum Act, 1969 with gave comprehensive provisions on exploration, production and transportation. The Petroleum Act, 1969 vested ownership of petroleum resources on the Federal Government of Nigeria, and still remains the primary legislation on petroleum activities in the country.

The following are some extant regulations pursuant to the Act:

- Petroleum (Drilling and Production) Regulations, 1969
- Petroleum Refining Regulation, 1974
- Associated Gas Re-injection Act, 1979 & 1985
- The Nigerian LNG Fiscal Incentives, Guarantees and Assurances
- Associated Gas Framework Agreement (AGFA) 1991 & 1992
- Petroleum (Amendment) Act, 1996
- Companies Income Tax Act Amendment (Section 39) 2007
- National Domestic Gas Supply and Pricing Regulations 2008
- Marginal Fields Operation Regulation 2005

A new Bill, the Petroleum Industry Bill (PIB) has been under consideration at the National Assembly.

4.0 STATISTICAL DATA

4.1 UPSTREAM

4.1.1 Concessions

Table 1: Status of Oil Prospecting Licenses (OPLs)

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Year Of Award / Grant / Conversion / Renewal	Area (Sq.Km)	Geological Location / Terrain
1	AFREN GLOBAL ENERGY RESOURCES LIMITED	OPL 907	AGER 41%, BUSTON ENERGY 25%, ALLENNE E&P 14%, KAZTEC 5%,VP ENERGY 3%, DE ATAL 2%, BEPTA 10%	PSC	2005	2498	Anambra Basin
2		OPL 917	AGER 42%, VP ENERGY 18%, PETROLOG 17%, DE ATAL 10% GOLAND 13%,	PSC	2005	1710	
3	AFRICOIL & MARKENTING	OPL 204	AFRICOIL-100%	SR	10.08.1993	1670	Niger Delta (Onshore)
4	ALFRED JAMES NIGERIA LIMITED	OPL 302	ALFRED-100%	SR	1991	1639	Benin Basin
5	ALMAGAMATED OIL COMPANY LIMITED	OPL 425	ALMAGAMATED OIL-100%	SR	08.01.1992	522	Onshore
6	ASHBERT OIL & GAS LIMITED / NIGERIA PETROLEUM DEVELOPMENT COMPANY LIMITED (NPDC) / TRAINCOSY ENERGY	OPL 325	ASHBERT-80%, NPDC-20%	PSC	2005	1265	Deep offshore
7	BG EXPLORATION NIGERIA LIMITED	OPL 286	BG 66%, SAHARA 24%, EQUINOX 10%	PSC	2006	804	Deep offshore
8	BOC JNHP COSORTIUM	OPL 240	BAYELSA OIL COMP? & TIANJIN ENERGY RESOURCES?	PSC	2007	48	Continental shelf
9	CLEANWATERS CONSORTIUM	OPL 289	CLEANWATERS 90%, SEVEN WATERS 10%	PSC	2006	386	Continental shelf
10	CNODC	OPL 471	CNODC 90%, SEVEN WAVES 10%	PSC	2006	1370	Continental shelf
11	CONOIL PRODUCING LIMITED	OPL 257	CONOIL AND GAS-50%, TUPNI-40%, TIGER HEAD -10%	PSC	2005	426	Niger Delta (Deep Onshore)
12		OPL 290	CONOIL 100%	PSC	2007	531	Continental shelf
13	CONTINENTAL OIL & GAS COMPANY LIMITED	OPL 2007	CONTINENTAL OIL & GAS-100%	PSC	2007	428	Niger Delta Onshore

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Year Of Award / Grant / Conversion / Renewal	Area (Sq.Km)	Geological Location / Terrain
14	CROWNWELL PETROLEUM LIMITED	OPL 305	CROWNWELL-60%, PLATINIUM NATURAL RES,-40%	SR	8.1993	1558	Benin Basin
15		OPL 306	CROWNWELL-60%, PLATINIUM NATURAL RES,-40%	SR	8.1993	1889	Benin Basin
16	DAJO OIL LIMITED	OPL 332	PSA: DAJO-10%,SNEPCo-40%	PSC	30.03.2004	1789	Deep offshore
17	DSV	OPL 251	DSV-100%	PSC	16.12.2012	940	Niger Delta
18	TOTAL EXPLORATION & PRODUCTION NIGERIA LIMITED	OPL 221	TEPNG 60%, Chevron 40%	PSC	19.11.2003	2286	Niger Delta
19		OPL 223	TEPNG 18%, Esso 27%, Nexen 18%, NPDC 10%	PSC	19.05.2005	920	Deep offshore
20	EXPRESS PETROLEUM & GAS COMPANY LIMITED	OPL 227	EXPRESS-39%, ADDAX-40%, PPL-15%, NIGER DELTA E&P-6%	SR	2000	974	Continental shelf
21	ESSAR EXPLORATION	OPL 226	ESSAR 100%	PSC	18.05.2007	1257	Continental shelf
22	FIRST ARIES PETROLEUM LIMITED	OPL 235	FIRST ARIES(OP) 60% MAJESTIC INT. 40%	SR	10.08.1993	1480	Niger Delta
23	GAS TRANSMISSION & POWER LIMITED	OPL 905	GTPL-1005	PSC	23.04.2007	2600	Inland Basin (Anambra)
24	GLOBAL ENERGY	OPL 2009	GPDC 51%, NAE 49%, EMO 40%	PSC	18.05.2007	171	Continental shelf
25		OPL 2010	GPDC 100%	PSC	18.05.2007	179	Continental shelf
26	GRASSO / SIGMUND	OPL 2012	SIGMUND-94% GRASSO & CONSORITIUM-6%	PSC	2012	849	Continental shelf
27	HERITAGE OIL AND GAS	OPL 247	CNDWE 48.6%, Total 36%,Heritage 10%, Sasol 5.4%	PSC	.3.1999	1165	Deep offshore
28	HI REV E&P LIMITED	OPL 2002	HI-REV-100%		2015		Niger Delta
29	INC NATURAL RESOURCES	OPL 252	INC-100%	PSC	2006	814	Deep offshore
30		OPL 292	INC-100%	PSC	2006	1195	Deep offshore
31	JAHCON INTERNATIONAL LIMITED	OPL 2001	JAHCON-100%	PSC	2015		Niger Delta
32	KNOC NIGERIA	OPL 321	KNOC 60%, EQUATOR 30%, TULIP 10%	PSC	10.03.2006	1166	Deep offshore
33		OPL 323	NNPC 50%, KNOC 60%, EQUATOR 30% NJ EXPL 10%	PSC	10.03.2006	993	Deep offshore
34	MONI PULO LIMITED	OPL 234	MONIPULO-100%	PSC	18.05.2007	1214	Onshore

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Year Of Award / Grant / Conversion / Renewal	Area (Sq.Km)	Geological Location / Terrain
35		OPL 239	MONIPULO-100%	PSC	18.05.2007	65	Continental shelf
36		OPL 231	MONIPULO-100%	PSC	2007	244	Onshore
37	NEWCROSS PETROLEUM LIMITED	OPL 276	NEW CROSS-60% ALBRIGHT WAVES PET.DEV-40%	PSC	16.02.2006	472	Niger Delta
38		OPL 283	NEWCROSS PET-90%, RAYFLOSH PET.-10%	PSC	16.02.2006	990	Niger Delta
39	NEW NIGERIA DEVELOPMENT COMPANY LIMITED	OPL 733	NNDC -100%	PSC	2005	2611	Chad Basin
40		OPL 809	NNDC -100%	PSC	2005	2581	Benue Trough
41		OPL 810	NNDC -100%	PSC	2005	2584	Benue Trough
42		OPL 722	NNDC -100%	PSC	2005	2540	Chad Basin
43	NIGERIA AGIP EXPLORATION	OPL 244	NAE 60% , Svenska 30%, NPDC 10%	PSC	2000	1700	Deep offshore
44	NIGERIA AGIP OIL COMPANY LIMITED	OPL 282	NAOC 90%, Alliance 10%(OANDO-4%,ARC OIL AND GAS-6%)	PSC	2005	695	Niger Delta
45	STARCREST	OPL 291	APENL 72.5%,STARCREST 27.5%	PSC	2006	1287	Deep offshore
46	NNPC / FES	OPL 702	NNPC/FES-100%	SR	.06.1967	2574	Chad Basin
47		OPL 703	NNPC/FES-100%	SR	.06.1967	2772	Chad Basin
48		OPL 705	NNPC/FES-100%	SR	.06.1967	2547	Chad Basin
49		OPL 707	NNPC/FES-100%	SR	.06.1967	2582	Chad Basin
50	NIGERIA PETROLEUM DEVELOPMENT COMPANY (NPDC)	OPL 242	NPDC-50% , STARCREST-35%, CROSS RIVER-10%, OBEKPA-5%	PSC	07.03.2011	1789	Deep offshore
51	NIG-DEL UNITED LIMITED	OPL 233	NIG.DEL 100%(NIDGEL-60,EQUITY,ENERGY RES-20,SACOIL-20)	PSC	2006	126	Niger Delta
52	NOREAST PETROLEUM NIGERIA	OPL 215	NOREAST-60%, TOTAL E & P-40%	SR	21.10.1991	2586	Deep offshore
53	NORTHSOUTH	OPL 326	NORTHSOUTH PET-100%	SR	13.05.1999	1652	Deep offshore
54	OANDO PLC	OPL 236	OANDO-95%, RFO VENTURES-5%	PSC	2005	1652	Onshore
55		OPL 278	OANDO-100%(OANDO-60% CAMAC-15%,ALLIED -15%,.FIRST AXIS-10%	PSC	2005	92	Niger Delta
56	OILWORLD LIMITED	OPL 241	OILWORLD-20%, OWENA OIL AND GAS TD.-80%	PSC	2007	1257	Niger Delta
57	OIL & INDUSTRY SERVICE LIMITED	OPL 2003	OILSL-100%		2015		Niger Delta

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Year Of Award / Grant / Conversion / Renewal	Area (Sq.Km)	Geological Location / Terrain
58	ONGC - MITTAL	OPL 279-N	OMEL 45-5%, TUPNI 14.5%, EMO 40%	PSC	2006	1103	Deep offshore
59		OPL 297		PSC		1290	Deep offshore
60	OPTIMUM PETROLEUM DEVELOPMENT LIMITED	OPL 310	OPTIMUM-60%, AFREN OIL AND GAS INVESTMENT LTD-40%(AFREN-22.86%, MAYFAIR ASSETS AND TRUST LTD 17.14%)	SR		1935	Benin Basin
61	OREINT PETROLEUM REFINERY LIMITED	OPL 915	ORIENT PETROLEUM-100%	SR	31.01.2005	1195	Anambra Basin
62		OPL 916	ORIENT PETROLEUM-100%	SR	31.01.2005	963	Anambra Basin
63	ORANTO PETROLEUM LIMITED	OPL 320	ORANTO 32%, PIONEER 51%, ORANDI 17%	PSC	1999	1789	Deep offshore
64		OPL 293	ORANTO -1005	PSC	2007	1023	Deep offshore
65	SAHARA ENERGY E&P	OPL 284	SAHARA 45% BG 45%, LOTUS 10%	PSC	17.07.2006	1131	Deep offshore
66		OPL 228	SAHARA ENERGY FIELD-100%	PSC	11.05.2007	1915	Onshore
67	NAE/SHELL NIGERIA ULTRA DEEP LIMITED	OPL 245	PSA: SNEPCO 50%, NAE 50%	SR	22.12.2003	1958	Ultra Deep Offshore
68	SUMMIT OIL INTERNATIONAL	OPL 206		SR	1990	2020	Anambra Basin
69	STERLING GLOBAL	OPL 2005	STERLING-100%	PSC	2007	662	Onshore
70		OPL 2006	STERLING-100%	PSC	2007	662	Onshore
71		OPL 2004 (Former OML 16)	STERLING-100%	JVC	01.01.1962	103	Niger Delta
72	TENOIL / CLAYFORD	OPL 2008	TENOIL-100%	PSC	2007	41	Continental shelf
73	TRANSNATIONAL CORPORATION	OPL 281	TRANSCORP-100%	PSC	2006	122	Continental shelf
74	YORKSHIRE ENERGY WORLD LIMITED	OPL 258	YORKSHIRE-100%		2007	234	Deep offshore
75		OPL 295	YORKSHIRE-100%		2007	1218	Deep offshore
76	ZEBBRA ENERGY LIMITED	OPL248	NNPC-50%, CONOCO-28.8%, ESSO-11.2% ZEBRA-10%	PSC	1999	2448	Deep offshore

Table 2: Status of Oil Mining Leases (OMLs)

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Area (Sq.Km)	Geological Loction / Terrain	Date Of Grant
1	NNPC / AITEO EASTERN E&P COMPANY LIMITED (AITEO)	OML 29	AITEO-45%, NNPC-55%	JVC	983	Niger Delta (Onshore)	01.07.1989
2	ALLIED ENERGY RESOURCES NIGERIA LIMITED	OML 120	ALLIED-97.5%, CAMAC-2.5%(ERIN ENERGY-100%)	SR	910	Niger Delta (Deep Offshore)	27.02.2001
3	ALLIED ENERGY RESOURCES NIGERIA LIMITED	OML 121	ALLIED-97.5%, CAMAC-2.5%(ERIN ENERGY-100%)	SR	885	Niger Delta (Deep Offshore)	27.02.2001
4	AMNI INTERNATIONAL PETROLEUM LIMITED	OML 112	AMNI-60%,ELF-40%	SR	438	Niger Delta (Continental Shelf)	12.02.1998
5	AMNI INTERNATIONAL PETROLEUM LIMITED	OML 117	AMNI-60%,ELF-40%	SR	51	Niger Delta (Continental Shelf)	06.08.1999
6	NNPC/AMNI INTERNATIONAL PETROLEUM DEVELOPMENT COMPANY LIMITED	OML 52	AMNI OML 52-40% NNPC-60%	JVC	247	Niger Delta (Onshore)	14.06.199
7	ATLAS PEROLEUM NIGERIA LIMITED	OML 109	ATLAS-70%, SUMMIT OIL-30%	SR	772	Niger Delta (Continental Shelf)	25.05.1996
8	NNPC / BELEMAOIL PRODUCING LIMITED	OML 55	BELEMAOIL-40% NNPC-60%	JVC	849	Niger Delta (Onshore)	14.06.1997
9	CAVENDISH PETROLEUM NIGERIA LIMITED	OML 110	CAVENDISH-100%(CAVENDISH-100%, NIKOIL-40%?)	SR	966	Niger Delta (Continental Shelf)	07.08.1996
10	NNPC / CHEVRON NIGERIA LIMITED	OML 49	NNPC-60%, CNL-40%	JVC	1701	Niger Delta (Onshore)	14.06.1997
11	NNPC / CHEVRON NIGERIA LIMITED	OML 51	NNPC-60%, CNL-40%	JVC	145	Niger Delta (Onshore)	14.06.1997
12	NNPC / CHEVRON NIGERIA LIMITED	OML 89	NNPC-60%, CNL-40%	JVC	364	Niger Delta (Onshore)	18.08.2014
13	NNPC / CHEVRON NIGERIA LIMITED	OML 91	NNPC-60%, CNL-40%	JVC	157	Niger Delta (Continental Shelf)	18.08.2014
14	NNPC / CHEVRON NIGERIA LIMITED	OML 86	NNPC-60%, CNL-40%	JVC	385	Niger Delta (Continental Shelf)	18.08.2014
15	NNPC / CHEVRON NIGERIA LIMITED	OML 88	NNPC-60%, CNL-40%	JVC	773	Niger Delta (Continental Shelf)	18.08.2014
16	NNPC / CHEVRON NIGERIA LIMITED	OML 90	NNPC-60%, CNL-40%	JVC	653	Niger Delta (Continental Shelf)	18.08.2014
17	NNPC / CHEVRON NIGERIA LIMITED	OML 95	NNPC-60%, CNL-40%	JVC	1217	Niger Delta (Continental Shelf)	18.08.2014
18	CHEVRON NIGERIA LIMITED	OML 132	CHEVRON-100%	PSC	804	Niger Delta (Deep Offshore)	20.12.2005

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Area (Sq.Km)	Geological Loction / Terrain	Date Of Grant
19	OANDO PLC	OML 131	OANDO-52.5%,EXXON MOBIL-47.5%	PSC	1210	Niger Delta (Deep Offshore)	24.04.2005
20	CONOIL PRODUCING LIMITED	OML 103	CONOIL -100%	SR	914	Niger Delta (Onshore)	02.06.1993
21		OML 136	CONOIL-60%,TOTAL-40%	SR	1295	Niger Delta (Continental Shelf)	27.07.2006
22	CONTINENTAL OIL & GAS COMPANY LIMITED (CONOG)	OML 59	CONOIL -100%	SR	836	Niger Delta (Onshore)	06.06.1998
23		OML 150	CONOIL -100%	PSC	428	Niger Delta (Onshore)	10.03.2016
24	DUBRI OIL COMPANY (NIGERIA) LIMITED	OML 96	DUBRI -100%	SR	221	Niger Delta (Onshore)	02.05.2013
25	TOTAL EXPLORATION & PRODUCTION NIGERIA LIMITED	OML 138	SINOPEC-20%,EXXON-30%,CNL-30%,NEXEN-20%	PSC	656	Niger Delta (Deep Offshore)	17.05.2007
26		OML 139	TOTAL-100%	PSC	656	Niger Delta (Deep Offshore)	17.05.2007
27	NNPC / TOTAL EXPLORATION& PRODUCTION NIGERIA LIMITED	OML99	NNPC-60%, TOTAL-40%	JVC	171	Niger Delta (Continental Shelf)	02.05.2013
28		OML 100	NNPC-60%, TOTAL-40%	JVC	179	Niger Delta (Continental Shelf)	02.05.2013
29		OML 102	NNPC-60%, TOTAL-40%	JVC	196	Niger Delta (continental Shelf)	02.05.2013
30		OML58	NNPC-60%, TOTAL-40%	JVC	518	Niger Delta (Continental Shelf)	14.06.2097
31	EMERALD ENERGY RES LIMITED	OML 141	EMERALD-53.9%, AMNI INTNL-44.1%, SUPERNOVA ENERGY(BLUEWATER GROUP)-2%	SR	1295	Niger Delta (Onshore)	08.11.2007
32	ENGAGED RESOURCES LIMITED	OML 148	ENAGEED 100%	PSC	870	Niger Delta (Onshore)	15.05.2015
33	NNPC / EROTON E&P COMPANY (EROTON)	OML 18	EROTON-45%, NNPC-55%	JVC	1035	Niger Delta (Onshore)	01.07.2089
34	ESSO E&P LIMITED	OML 133	EXXON -56.25%, SNEPCO-43.75%	PSC	1100	Niger Delta (Deep Offshore)	08.02.2006
35		OML 145	ESSO 20%, Svenska 20%, Phillips 20%, Chevron 20%, NPDC 15%, Sasol 5%	PSC	1293	Niger Delta (Deep Offshore)	30.05.2014
36	EXPRESS PETROLEUM & GAS COMPANY LIMITED	OML 108	EXPRESS-57.5%, SHEBBAH-40%, CAMAC-2.5%	SR	759	Niger Delta (Continental Shelf)	01.11.1995

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Area (Sq.Km)	Geological Loction / Terrain	Date Of Grant
37	NNPC / FIRST E&P	OML 83	FIRST E&P/DANGOTE-45%, NNPC-55%	JVC	109	Niger Delta (Continental Shelf)	18.08.2014
38		OML 85	FIRST E&P/DANGOTE-45%, NNPC-55%	JVC	515	Niger Delta (Continental Shelf)	18.08.2014
39	NNPC / WEST AFRICAN E&P COMPANY LIMITED (WAEP)	OML 71	WAEP/DANGOTE-45%, NNPC-55%	JVC	730	Niger Delta (Continental Shelf)	18.12.2014
40		OML 72	WAEP/DANGOTE-45%, NNPC-55%	JVC	1129	Niger Delta (Continental Shelf)	18.12.2014
41	GEC PETROLEUM DEVELOPMENT COMPANY LIMITED (GLOBAL ENERGY)	OML 149	NAOC - 48%, Global Energy 42%, BLJ Energy Ltd - 10%	PSC	941	Niger Delta (Onshore)	05.02.2015
42		OML 151	GPDC 51%, NAE 49%, EMO 40%	PSC	171	Niger Delta (Continental Shelf)	10.03.2016
43	FAMFA / STAR DEEP WATER PETROLEUM LIMITED	OML 127	NNPC-50%, CNL-32%, FAMFA-10% PETROBRAS-8%	SR	1281	Niger Delta (Deep Offshore)	25.11.2004
44	MOBIL PRODUCING NIGERIA UNLIMITED	OML 104	NNPC-60%, MPN-40%	JVC	675	Niger Delta (Continental Shelf)	14.01.1998
45		OML 67	NNPC-60%, MPN-40%	JVC	119	Niger Delta (Continental Shelf)	11.03.2011
46		OML 68	NNPC-60%, MPN-40%	JVC	119	Niger Delta (Continental Shelf)	11.03.2011
47		OML 70	NNPC-60%, MPN-40%	JVC	1250	Niger Delta (Continental Shelf)	11.03.2011
48	MONI PULO LIMITED	OML 114	MONIPULO-60%, CAMAC-40%	SR	464	Niger Delta (Continental Shelf)	03.01.1999
49	NNPC / NEWCROSS E&P	OML 24	NEWCROSS E&P-45%, NNPC-55%	JVC	162	Niger Delta (Onshore)	01.07.2009
50	NIGERIA AGIP EXPLORATION (NAE)	OML 134	ENI-85%, OANDO-15%	PSC	1131	Niger Delta (Deep Offshore)	21.05.2006
51		OML 125	ENI-85%, OANDO-15%	PSC	1219	Niger Delta (Deep Offshore)	02.01.2003
52	NNPC / NIGERIA AGIP OIL COMPANY LIMITED	OML 60	NNPC-60%, NAOC-20%,OANDO-20%	JVC	358	Niger Delta (Onshore)	14.06.1997
53		OML 61	NNPC-60%, NAOC-20%,OANDO-20%	JVC	1500	Niger Delta (Onshore)	14.06.1997
54		OML 62	NNPC-60%, NAOC-20%,OANDO-20%	JVC	1211	Niger Delta (Onshore)	14.06.1997
55		OML 63	NNPC-60%, NAOC-20%,OANDO-20%	JVC	2246	Niger Delta (Onshore)	14.06.1997

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Area (Sq.Km)	Geological Loction / Terrain	Date Of Grant
56	NNPC / AGIP ENERGY AND NATURAL RESOURCES (AENR)	OML 116	ENI-100%	SC	360	Niger Delta (Continental Shelf)	06.08.1979
57	NNPC / ADDAX PETROLEUM (ADDAX)	OML 126	ADDAX-100%	PSC	705	Niger Delta (Continental Shelf)	25.11.2004
58		OML 137	ADDAX-100%	PSC	849	Niger Delta (Continental Shelf)	23.04.2007
59		OML 123	ADDAX-100%	PSC	401	Niger Delta (Continental Shelf)	14.08.2002
60		OML 124	ADDAX-100%	PSC	300	Niger Delta (Onshore)	14.08.2002
61	NPDC / ELCREST E&P NIGERIA LIMITED	OML 40	NPDC-55%,ELCREST-45%	JVC	498	Niger Delta (Onshore)	01.07.1989
62	NPDC / NECONDE ENERGY LIMITED	OML 42	NECONDE-45%, NPDC-55%	JVC	814	Niger Delta (Onshore)	01.07.1989
63	NNPC / FIRST HYDROCARBON NIGERIA LIMITED	OML 26	FIRST HYDROCARBON-45%, NPDC-55%	JVC	165	Niger Delta (Onshore)	01.07.1989
64	NNPC / ND WESTERN LIMITED	OML 34*	NPDC-55%, ND WESTERN-45%	JVC	950	Niger Delta (Onshore)	01.07.1989
65	NIGERIA PETROLEUM DEVELOPMENT COMPANY (NPDC)	OML 119	NPDC-100%	SR	715	Niger Delta (Continental Shelf)	31.10.2000
66		OML 111	NPDC-100%	SR	461	Niger Delta (Onshore)	1996
67		OML 64	NPDC-100%	SR	278	Niger Delta (Onshore)	.09.1989
68		OML 65	NPDC-100%	SR	1019	Niger Delta (Onshore)	.09.1989
69		OML 66	NPDC-100%	SR	204	Niger Delta (Onshore)	07.09.1989
70	NNPC / SHORELINE NATURAL RESOURCES LIMITED	OML 30	NPDC-55%, SHORELINE NAT RESOURCES-45%	JVC	1097	Niger Delta (Onshore)	01.07.89
71	OIL & GAS NIGERIA LIMITED	OML 140	PSA Partner:Oil&Gas 10%, Star Ultra Deep 40%; PSC Partner: NNPC 50%	SR	1220	Niger Delta (Deep Offshore)	18.07.07
72	ORIENTAL ENERGY RESOURCES LIMITED	OML 115	ORIENTAL-60%, AFREN-40%	SR	310	Niger Delta (Continental Shelf)	20.5.1999
73	NNPC / PAN OCEAN OIL CORPORATION	OML 98	NNPC-60%, PANOCEAN-40%	JVC	523	Niger Delta (Onshore)	.06.1976
74	PAN OCEAN / ANIOMA	OML 147	PANOCEAN 100%	PSC	544	Niger Delta (Onshore)	23.10.2014
75	PEAK PETROLEUM INDUSTRIES NIGERIA LIMITED	OML 122	PEAK-(95 OIL/88 GAS), OANDO(5 OIL/12 GAS)	SR	1295	Niger Delta (Continental Shelf)	1.05.2001
76	NPDC / SEPLAT	OML 4	SEPLAT-45%, NPDC-55%	JVC	267	Niger Delta (Onshore)	01.07.1989

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Area (Sq.Km)	Geological Loction / Terrain	Date Of Grant
77		OML 38	SEPLAT-45%, NPDC-55%	JVC	2152	Niger Delta (Onshore)	01.07.1989
78		OML 41	SEPLAT-45%, NPDC-55%	JVC	291	Niger Delta (Onshore)	01.07.1989
79		OML 53	SEPLAT-45%, NPDC-55%	JVC	1562	Niger Delta (Onshore)	14.06.1997
80	NNPC / SHELL PETROLEUM DEVELOPMENT COMPANY (SPDC)	OML 11	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	3097	Niger Delta (Onshore)	01.07.1989
81		OML 17	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	1301	Niger Delta (Onshore)	01.07.1989
82		OML 20	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	405	Niger Delta (Onshore)	01.07.1949
83		OML 21	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	372	Niger Delta (Onshore)	01.07.1989 00
84		OML 22	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	722	Niger Delta (onshore)	01.07.1989. 30.06.2019
85		OML 23	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	483	Niger Delta (Onshore)	01.07.1989
86		OML 25	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	429	Niger Delta (Onshore)	01.07.1989
87		OML 27	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	165	Niger Delta (Onshore)	01.07.1989
88		OML 28	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	936	Niger Delta (Onshore)	01.07.1989
89		OML 31	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	1097	Niger Delta (Onshore)	01.07.1989
90		OML 32	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	565	Niger Delta (Onshore)	01.07.1989
91		OML 33	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	336	Niger Delta (Onshore)	01.07.1989
92		OML 35	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	1144	Niger Delta (Onshore)	01.07.1989
93		OML 36	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	338	Niger Delta (Onshore)	01.07.1989
94		OML 43	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	767	Niger Delta (Onshore)	01.07.1989
95		OML 45	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	76	Niger Delta (Onshore)	01.07.1989
96		OML 46	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	1080	Niger Delta (Onshore)	01.07.1989
97		OML 74	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	1324	Niger Delta (Continental Shelf)	18.12.2014
98		OML 77	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	970	Niger Delta (Continental Shelf)	18.12.2014
99		OML 79	NNPC-55%, SPDC-30%, ELF-10%,AGIP-5%	JVC	970	Niger Delta (Continental Shelf)	18.12.2014
100	SHELL NIGERIA EXPLORATION &	OML 118	SNEPCO-55%, EXXON-20%,ENI-12.5%, ELF-12.5%	PSC	1167	Niger Delta (Deep Offshore)	28.11.2005

S/N	Name Of Company	Concession Held	Equity Distribution (Stakeholders)	Contract Type	Area (Sq.Km)	Geological Loction / Terrain	Date Of Grant
101	PRODUCTION COMPANY LIMITED	OML 135	SNEPCO-55%, EXXON-20%,ENI-12.5%, ELF-12.5%	PSC	926	Niger Delta (Deep Offshore)	03.07.2006
102	SOUTH ATLANTIC PETROLEUM LIMITED	OML 130	CNOOC-45%, SOUTH ATL.-15%, PETROBRAS-16%, TOTAL-24%	SR	1295	Niger Delta (Deep Offshore)	25.04.2005
103	STATOIL (NIGERIA) LIMITED	OML 128	STATOIL-53.85%, CNL-46.15%	PSC	1198	Niger Delta (Deep Offshore)	28.12.2004
104		OML 129	STATOIL-53.85%, CNL-46.15%	PSC	1023		28.12.2004
105	SUMMIT OIL INTERNATIONAL	OML 142	SUMMIT-30%, SUNTERA-70%	SR	1295	Anambra Basin (Onshore)	12.06.2009
106	SUNLINK PETROLEUM LIMITED	OML 144	SUNLINK-60%,SHELL-40%	SR	96	Niger Delta (Continental Shelf)	02.05.2013
107	STERLING OIL EXPLORATION & ENERGY PRODUCTION COMPANY LIMITED (SEEPCO)	OML 146	STERLING GLOBAL 51%, DOMON 24%, KUNOCH 15%, PRIMETIME 10%	PSC	29	Niger Delta (Onshore)	25.10.2014
108		OML 143	STERLING GLOBAL 80%,ALLENE 20%	PSC	369	Niger Delta (Onshore)	29.12.2010
109	YINKA FOLAWIYO PETROLEUM COMPANY LIMITED	OML 113	YINKA PET-100%(CNL-18, VITOL-12.83, PANORO ENERGY-6.502,JACKA RES-2.667)	SR	1670	Benin Basin (Continental shelf)	01.06.1998

* SPDC has divested its interest in OML 34 to ND Western and listing the block under the concessions of SPDC in the 2014 edition of this document was an error. Appropriate amendments have been made to the on-line version of the 2014 publication.

FIG. 2: Distribution of Nigerian Concessions by Lease Contract Type

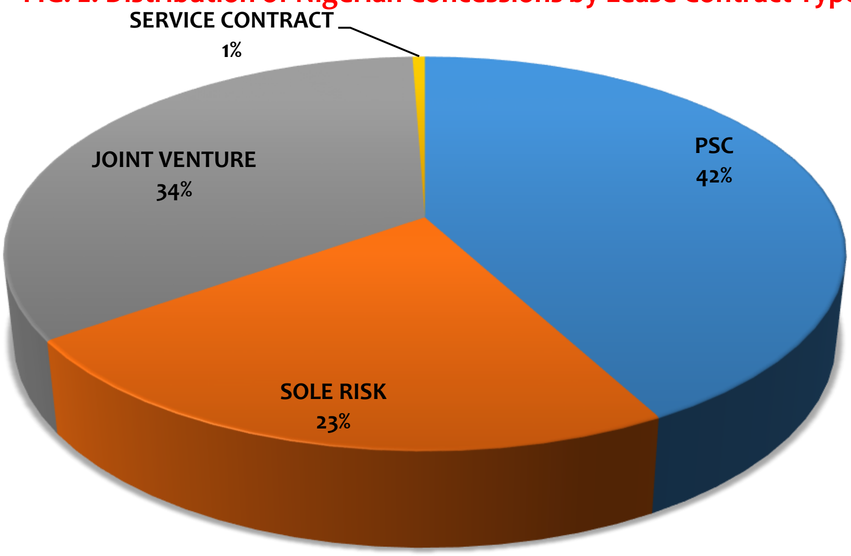


Table 3: Allocated and Open Blocks

S/N	Basin / Terrain	Allocated	Open	Total No. Of Blocks
1	Niger Delta & Benin (Deep Offshore)	40	54	94
2	Niger Delta (Continental Shelf)	55	6	57
3	Niger Delta (Onshore)	71	5	72
4	Anambra (Inland) Basin	7	12	19
5	Benin (Inland) Basin	3	6	9
6	Chad (Inland) Basin	7	39	46
7	Benue (Inland) Basin	2	41	43
8	Sokoto (Inland) Basin	0	28	28
9	Bida (Inland) Basin	0	17	17
Total		185	208	393

4.1.2 Speculative Data

Table 4: Multi-Client Data Projects

S/No	Company	Effective Date of Agreement	Area of Survey / Block	Type of Survey	Quantum of Survey, Km/Km²	Start Date of Survey	End Date of Survey
1	Mabon Limited / TGSI	18th Jan, 1991 / Brokerage Agreements	AR2	2D Seismic & Geochemistry	24,400.00km Regional/Infill	Jan, 1991	Aug, 1992
2	Mabon Limited / TGSI	24th Aug, 1993 / Brokerage Agreements	AR3 Shelf Survey	2D Seismic & Interpretation Biostrat	6,990.40km Seismic / 6,990.40 Interp / Biostrat	Sep, 1993	May, 1994
3	Mabon Limited / TGSI	24th Aug, 1993 / Brokerage Agreements	NDRDC	Niger Delta Regional Data Compilation / Well loging	7,600.3km / 216 wells	Compilation started in 1994	Compilation lasted till 1996
4	Mabon Limited / TGSI	24th Aug, 1993 / Brokerage Agreements	AR3 (ABCD)	2D Seismic & Gravity Mag.	6,373.3km Seismic / 20,260 Sq. km Grav. Mag.	1993	1994
5	Mabon Limited / TGSI	24th Aug, 1993 / Brokerage Agreements	AR3 Infill / AR3F	2D Seismic	10,899.50km Seismic	1996	1997
6	Mabon Limited / TGSI	29th Jan, 1999 / Brokerage Agreements	Phase AR6 Very Deep Off-shore	2D Seismic Very Deep Off-shore	7,012.70km Seismic	Feb, 1999	Partially completed in 2005
7	Mabon / GXT	7th Jun, 2005	Nigeria Span I	2D Seismic Regional Survey	4,844.0km Seismic Data	Aug, 2005	2nd Jan, 2006
8	Mabon / GXT	Not Yet Signed	Nigeria Span II	2D Seismic Regional Survey	7,350km Seismic Data	2011	Nov, 2011
9	CGG Veritas	Aug, 1998	Nigeria , PhI 2D, Gravity, Repro	2D	2501km	Jun, 1999	Oct, 2000
10	CGG Veritas	Aug, 1998	Nigeria 2D, Ph II	2D	2000km	Jan, 2000	Oct, 2000
11	CGG Veritas	Jan, 2000	Nigeria 3D, OPL 324	3D	3056km²	Mar, 2001	Apr, 2002
12	CGG Veritas	Aug, 2000	Nigeria Ph I + II, UTMOST + AVO	3D	N/A km2	N/A	Mar, 2003
13	CGG Veritas	Jan, 2000	Nigeria 3D, OPL 322	3D	1953km²	Dec, 2001	Sep, 2002
14	CGG Veritas	Jan, 2000	Nigeria 3D, OPL 317/318	3D	2699km²	Jan, 2003	Oct, 2003
15	CGG Veritas	Jan, 2000	Nigeria 3D, OPL 251	3D	1600km²	Dec, 2004	Dec, 2005
16	PGS	7th Jan, 1999	OPL 214/213	3D	2814km²	16th Feb, 1999	6th Apr, 2003
17	PGS	7th Jan, 1999	OPL 244	3D	1700km²	16th Feb, 1999	26th Feb, 2002
18	PGS	7th Jan, 1999	OPL 245	3D	2247km²	9th Nov, 2001	26th Feb, 2002
19	PGS	7th Jan, 1999	OPL 248	3D	1940km²	31st Jan, 1999	25th May, 1999
20	PGS	7th Jan, 1999	OPL 249	3D	1954km²	31st Jan, 1999	17th Sep, 1999
21	PGS	7th Jan, 1999	OPL 250	3D	1265km²	31st Jan, 2000	17th Sep, 1999
22	PGS	7th Jan, 1999	OPL 256	3D	2655km²	25th Dec, 2000	18th Aug, 2003
23	PGS	7th Jan, 1999	OPL 257	3D	538km²	25th Dec, 2001	18th Aug, 2003
24	PGS	7th Jan, 1999	OPL 314	3D	1252km²	10th Jun, 2004	20th Aug, 2004

S/No	Company	Effective Date of Agreement	Area of Survey / Block	Type of Survey	Quantum of Survey, Km/Km²	Start Date of Survey	End Date of Survey
25		7th Jan, 1999	OPL 315		1718km²	21st Aug, 2003	30th Jan, 2004
26		4th June, 2009	Offshore Niger Delta	MC3D	2,845 km²	20th Jan, 2010	June 201Agreement still running (Data Acquired and processed in three blocks - POLs 312, 313, 314). No sales to date.
27		2008	Offshore Niger Delta	3D Mega Survey	N/A	Mar, 2009	ongoing
28	Sonar / Ikon Science	17th Sep, 2009	Onshore & Offshore Niger Delta	Geo-pressure survey	N/A	Phase I commenced in 2009	Phase III ongoing
29	TDI-Brooks	Aug, 2005	Offshore Niger Delta	Surface Geochemical Exploration and Heat Flow Study	N/A	May, 2005	Jun-05
30	Terra Energy (Now Acorn Geophysical)	25th May, 2005	Offshore Niger Delta	CSEM Imaging	OPL 351, 323, 321, 325, 327 & 257	2005	2005
32	Polarcus/ Ashbert Limited	29th Dec, 2010	OPLs 251, 318, 325, 328, 334, 340, 327, 330, 331.	2D/3D Block prospectivity Enhancement	NIL	N/A	N/A
33	Polarcus/ Ashbert Limited	5th Apr, 2011	VERNG-99, VERNG-02, VERNG-03, VERNG-04	3D Siesmic	9,308km²	N/A	N/A
34	Bulwark Services Ltd./ Ion Geophysical	December 2013	Offshore Niger Delta	3D Ocean Bottom Cable Acquisition	NIL	N/A	N/A
35	WesternGeco Seismic Services Ltd	January 2014	Offshore Niger Delta	2D Seismic Data Acquisition and Processing	NIL	NIL	NIL
36	Bilview Energy Services	July 2010	Offshore Niger Delta	Interpretative Niger Delta Facie Atlas	NIL	NIL	NIL
37	Bilview Energy Services	August 2011	Offshore Niger Delta	Wells Log Scanning, Digitizing and Marketing	NIL	NIL	NIL

4.1.3 Marginal Fields

Table 5: List of Marginal Fields

S/N	Company Name	Field Name	Location (OML)
1	Niger Delta Petroleum Resources Ltd	Ogbele / Omerelu	54
2	Prime Exploration & Product. (Operator)	Asaramaroru	11
3	Suffolk Petroleum Limited		
4	Oriental Energy	Okwok	67
5		Ebok	67
6	Universal Energy	Stubb Creek	13 / 14
7	Eurafric Energy Limited	Dawes Island	54
8	Pillar Oil Limited	Umuseti/Igbuku	56
9	Bayelsa Oil Company Ltd	Atala	46
10	Movido E&P	Ekeh	88
11	Bicta Energy	Ogedeh	90
12	Guarantee Petroleum (Operator)	Ororo	95
13	Owena Oil & Gas		
14	Platform Petroleum Ltd	Egbaoma (Ex Asuokpu/Umutu)	38
15	Chorus Energy	Amoji /Matsogo / Igbolo	56
16	Sogenal Limited	Akepo	90
17	Millenium Oil and Gas	Oza	11
18	Brittania U-Nig	Ajapa	90
19	Network E&P	Qua Ibo	13
20	Waltersmith Petroman (Operator)	Ibigwe	16
21	Morris Petroleum		
22	Midwestern Oil and Gas	Umusadege	56
23	Suntrust Oil Company		
24	Independent Energy Ltd	Ofa	30
25	Del Sigma	KE	55
26	Associated Oil and Gas (Operator)	Tom Shot Bank	14
27	Dansaki Petroleum Ulimited		
28	Frontier Oil Ltd	Uquo	13
29	Energia Limited (Operator)	Ebendo/Obodeti (Ex Obodugwa /Obodeti)	56
30	Oando Production and Development Ltd		
31	Goland Petroleum Dev.Co Limited	Oriri	88
32	Excel Exploration & Producton	Eremor	46
33	Sahara Energy (Operator)	Tsekelewu	40
34	African Oil & Gas Company Limited		
35	Green Energy International Limited	Otakikpo	11
36	All Grace Energy	Ubima	17

FIG. 3: Marginal Fields Map, 2002 - 2004

4.1.4 Reserves

Table 6: Oil and Gas Reserves

	Oil Reserves, MMbbls	Natural Gas Reserves (TCF)		
		Associated Gas, AG	Non Associated Gas, NAG	Total Gas
2010	36,532.97	92.945	89.872	182.817
2011	36,247.41	92.904	90.530	183.434
2012	37,139.10	89.729	92.529	182.258
2013	37,070.83	89.652	92.298	181.950
2014	37,448	90.094	97.904	187.998
2015	37,062.06	97.208	94.857	192.065

* All Reserves above are as at 1st January, 2016.

4.1.5 Exploration

Table 7: Seismic Data Acquisition

		Land	Offshore	Deep Offshore	Total
2010	3-D, Sq.KM	1,300.94	841.28	2,672.79	4,815.01
	2-D, KM	-	-	-	-
2011	3-D, Sq.KM	638.27	1,127.59	-	1,765.86
	2-D, KM	-	278.43	-	278.43
2012	3-D, Sq.KM	1,913.00	568.24	1,742.29	4,223.53
	2-D, KM	-	-	-	-
2013	3-D, Sq.KM	1,588.08	1,690.24	961.81	4,240.13
	2-D, KM	-	-	-	-
2014	3-D, Sq.KM	804.35	2,833.03	572	4,209.38
2015	3-D, Sq.KM	675.7987	775.497	455.505	1,906.80

4.1.6 Rig Activities

Table 8: Rig Disposition Report

	Onshore	Shallow Offshore	Deep Offshore	Total
2010	17	8	5	30
2011	12	14	6	32
2012	18	15	7	40
2013	26	13	7	46
2014	45	10	11	66
2015	43	18	8	69

Table 9: Rig Disposition Report as at December 2015

Types of rigs	Land Rig	Swamp Rig	Shallow Offshore	Deep Offshore	Total
Active	13	2	1	8	24
Stacked	24	6	6	0	36
Standby**	6	0	3	0	9
Total	43	8	10	8	69

** This includes rigs awaiting activity and those moving from one location to another

Table 10: Rig Disposition by Terrain from January to December 2015

Terrain	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Land	17	11	17	11	8	9	10	12	15	15	13	13
Swamp	1	2	3	1	1	1	3	3	3	3	2	2
Shallow Offshore	4	5	5	5	3	4	3	2	3	3	1	1
Deep Offshore	8	10	8	8	8	9	9	8	8	8	8	8
Total	30	28	33	25	20	23	25	25	29	29	24	24

4.1.7 Well Activities

Table 11: Number of Wells drilled by Terrain

	Onshore	Offshore	Deep Offshore	Total
2010	30	62	15	107
2011	44	64	12	120
2012	74	65	15	154
2013	59	61	30	150
2014	49	50	43	142
2015	41	27	45	113

Table 12: Number of Wells drilled by Class

	Exploratory	Appraisal (1ST & 2ND)	Ordinary Appraisal	Development	Total
2010	4	4	9	90	107
2011	4	3	7	106	120
2012	2	8	15	129	154
2013	3	9	26	112	150
2014	4	8	10	120	142
2015	4	4	5	100	113

Table 13: Wells Drilled by Contract and Class in 2015

	Exploratory	Appraisal (1ST & 2ND)	Ordinary Appraisal	Development	Total
JVC	0	0	1	10	11
PSC	2	1	2	60	65
SR	1	2	1	15	19
MF	1	1	1	15	18
Total	4	4	5	100	113

4.1.8 Production

Table 14: 2015 Monthly Terminal Streams Production Figures

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Abo	614,607	533,171	512,406	404,908	719,530	674,019	681,713	853,330	819,493	795,370	721,852	731,727	8,062,126
Agbami	7,144,353	6,420,196	7,059,853	6,913,132	7,182,127	7,010,270	7,220,212	7,351,291	7,176,247	7,453,924	7,159,575	7,248,405	85,339,585
Akpo	5,080,329	4,417,100	4,204,025	4,704,728	4,848,432	4,675,119	4,764,715	4,729,315	4,253,742	4,726,798	4,501,893	4,597,107	55,503,303
Antan	1,400,718	1,247,335	1,288,425	1,247,327	1,039,193	997,020	1,216,076	1,436,023	1,427,182	1,409,679	1,311,546	1,347,684	15,368,208
Asaramatoru	40,337	37,741	43,966	39,806	42,370	57,614	44,772	70,404	68,459	31,793		39,710	516,972
Bonga	6,391,747	5,493,690	6,142,674	5,517,239	5,691,424	5,269,729	6,353,325	5,956,433	5,304,177	6,254,647	5,749,466	5,906,047	70,030,598
Bonny	6,287,809	6,330,025	5,615,846	4,856,299	4,476,684	4,660,278	5,701,315	5,052,996	6,551,386	8,182,884	6,230,034	4,654,286	68,599,842
Brass	3,650,982	2,947,324	3,391,682	3,247,710	3,665,514	3,419,329	2,877,025	3,426,067	3,533,134	3,292,507	3,095,632	2,573,975	39,120,881
Ebok	960,133	839,956	961,686	869,721	916,634	822,918	804,561	864,398	829,068	822,013	748,724	814,803	10,254,615
Ecravos	5,200,048	5,011,592	5,413,598	5,252,946	5,478,889	5,294,952	5,145,602	5,313,505	5,184,211	5,333,831	5,075,183	5,294,711	62,999,068
Ekanga	344,007	299,320	318,401	295,920	331,390	295,920	305,784	331,390	271,140	305,784	308,130	293,167	3,700,353
Erha	3,016,250	2,701,584	2,890,022	2,567,702	2,720,632	2,753,501	2,854,006	1,331,295	2,647,480	3,041,095	3,062,448	3,883,901	33,469,916
Forcados	5,131,586	6,102,530	7,154,894	2,535,749	4,365,012	4,358,434	6,406,050	6,466,241	6,612,535	6,321,882	6,732,568	6,565,175	68,752,656
Ima	25,247	21,205	24,265	25,192	27,169	25,912	28,653	25,164	25,187	23,981	22,349	21,652	295,976
Odudu	2,108,030	1,870,542	2,030,851	2,078,839	2,160,774	1,539,792	1,970,176	2,222,089	1,981,215	2,176,026	2,367,188	2,524,015	25,029,537
Okono	900,295	816,828	763,244	566,351	600,398	706,166	685,212	672,283	584,639	669,719	639,448	854,586	8,459,169
Okoro	496,170	444,871	415,619	410,517	296,301	321,272	354,385	334,323	313,667	319,060	308,759	279,759	4,294,703
Okwori	641,585	524,887	564,220	535,730	581,604	566,584	559,532	543,473	491,187	535,381	489,661	487,527	6,521,371
Oyo	5	5	7	5	181,841	269,043	405,092	375,549	282,944	92,344	92,762	77,455	1,777,052
Pennington	421,304	351,050	499,193	407,058	409,110	375,751	356,575	326,944	311,480	433,099	409,023	418,954	4,719,541
QIT	11,208,662	9,317,925	8,857,956	11,178,510	11,323,601	9,651,412	11,876,092	11,132,243	10,937,035	10,856,286	10,135,683	10,298,664	126,774,069
Sea Eagle	1,411,555	1,038,843	1,377,880	1,259,574	1,262,265	1,244,006	1,172,146	1,272,347	1,232,565	1,192,603	1,022,842	526,435	14,013,061
SEEPCO	457,106	332,057	410,992	530,822	480,381	549,791	532,223	559,049	606,627	688,547	775,972	892,109	6,815,676
Ukpokiti	48,657	35,817	27,075	25,472	24,762	21,828	22,450	22,327	19,878	20,279	34,586	38,058	341,189
Usan	3,320,280	3,225,001	3,551,966	3,307,958	3,632,692	2,979,973	3,571,052	3,513,478	3,456,027	2,738,176	3,108,740	2,982,093	39,387,436
Yoho	1,673,554	1,431,469	1,075,167	1,546,080	1,600,485	1,171,487	1,443,375	1,606,926	1,401,359	1,500,957	1,432,325	1,462,065	17,345,249
Grand Total	67,975,356	61,792,064	64,595,913	60,325,295	64,059,214	59,712,120	67,352,119	65,788,883	66,322,064	69,218,665	65,536,389	64,814,070	777,492,152

All volumes are in barrel

Table 15: Summary of Crude Volumes – Terminal Receipts.

Stream	2010	2011	2012	2013	2014	2015
Bonny	92,219,866	98,033,224	85,516,915	64,667,075	77,754,786	68,599,842
Brass	45,917,620	45,771,536	38,431,094	31,339,249	36,494,930	39,120,881
Odudu	40,976,556	39,354,196	36,765,688	29,478,224	26,197,317	25,029,537
QIT	134,913,318	132,436,168	128,852,443	130,762,200	134,956,728	126,774,069
Ima	486,712	531,261	246,582	259,429	312,053	295,976
Antan	19,033,162	14,506,639	18,664,426	19,800,170	17,722,618	15,368,208
Okono	17,704,675	17,383,748	16,348,665	14,904,197	12,794,563	8,459,169
Yoho	32,845,220	30,324,058	27,685,727	25,141,246	19,315,490	17,345,249
Okwori	14,528,987	12,841,416	12,094,784	9,532,752	8,204,342	6,521,371
Okoro	5,917,922	5,767,803	6,170,120	6,601,054	6,011,655	
Ebok	N/A	2,655,667	11,143,721	12,881,551	10,159,963##	10,254,615
Abo	11,000,680	10,381,433	8,489,519	8,022,897	8,010,447	8,062,126
Oyo	2,137,871	1,350,839	1,009,845	812,467	421,171	1,777,052
Escravos	95,768,747	90,240,005	82,992,947	75,172,726	70,697,665	62,999,068
Forcados	67,569,603	74,039,471	72,439,137	71,000,791	67,932,791	68,752,656
Pennington	10,468,651	10,545,422	9,102,862	7,357,435	5,505,439	4,719,541
Sea Eagle	29,524,473	23,082,127	21,075,517	15,626,909	7,199,842	14,013,061
Ukpokiti	464,078	276,419	842,252	684,048	565,887	341,189
Tulja	N/A	1,326,212	1,555,612	3,204,478	4,762,983	6,815,676
Bonga	65,023,519	52,336,416	64,067,957	50,904,162	58,238,730	70,030,598
Agbami	87,169,398	88,304,428	85,041,559	84,871,128	87,280,118	85,339,585
Erha	60,722,082	53,045,402	45,680,658	37,657,596	36,159,774	33,469,916
Akpo	58,444,734	55,628,907	56,650,647	60,851,269	55,311,051	55,503,303
Usan	-	-	29,409,511	39,191,504	44,520,502	39,387,436
Asaramatoru	-	-	-	-	560,856	516,972
Ekanga (Zaffiro)	-	-	-	-	4,073,185	3,700,353
Rapele	-	-	-	-	20,431,405	
Addax Cluster	-	-	-	-	2,217,176	
Platform Cluster	-	-	-	-	4,661,090	
Midwestern	-	-	-	-	341,557	
Grand Total	892,837,874	860,162,797	860,278,188	800,724,557	828,816,114	777,492,152

All volumes are in barrels.
*Crude and Condensate comingled at QIT (2012 & 2013).
**Ebok commenced operations in 2011.
***Tulja commenced operations in 2011
****Usan commenced operations in 2012
Ebok's 2014 data has been updated as a result of recent reconciliations carried out. Hence the total crude production for the year 2014 has changed from 828,961,186 (as per OGIAR 2014) to 828,816,114.

4.1.9 Nigerian Crude / Condensate Export

Table 16: Summary of Crude / Condensate Export by Crude Stream 2015

Streams	January	February	March	April	May	June	July	August	September	October	November	December	Total
Abo	698,666	-	708,308	734,131	700,410	699,432	699,651	692,582	697,989	450,591	1,168,852	934,012	8,184,624
Agbami	8,128,831	6,485,313	6,821,833	6,820,279	7,522,441	6,120,059	7,790,714	6,810,463	7,792,139	6,774,061	7,792,480	6,769,546	85,628,159
Antan	949,085	1,277,679	948,215	1,942,353	993,499	946,553	947,311	1,344,855	946,760	2,224,126	927,631	948,639	14,396,706
Akpo	4,988,256	5,037,963	4,092,221	4,143,549	4,996,837	5,069,480	4,896,530	4,989,239	3,093,466	5,050,580	4,997,785	3,998,586	55,354,492
Asaramatoru	-	-	-	-	189,022	-	-	-	233,912	-	-	-	422,934
Bonga	6,623,842	5,728,766	5,872,133	5,480,280	4,936,465	5,960,780	6,139,341	6,242,324	4,656,840	6,640,692	5,741,950	5,691,668	69,715,081
Bonny	6,588,949	7,222,019	4,892,148	6,140,155	3,671,290	4,675,356	1,814,198	4,923,907	6,302,587	7,881,789	6,822,814	4,666,520	65,601,732
Brass	3,121,903	3,924,341	3,423,656	3,156,161	2,999,560	3,731,239	2,298,137	4,488,787	3,271,393	3,155,781	3,100,649	2,275,306	38,946,913
Ebok	1,225,606	589,890	1,094,699	673,044	1,187,837	624,189	1,215,346	612,308	587,712	1,223,122	611,883	628,848	10,274,484
Ecravos	4,656,004	5,037,099	5,867,184	4,999,191	4,742,283	5,579,736	4,201,181	3,779,875	4,752,990	4,740,172	4,733,069	5,965,459	59,054,243
Ekanga	-	950,211	-	905,103	-	-	-	951,042	-	904,599	-	-	3,710,955
Erha	2,947,433	2,899,650	2,941,689	2,991,678	2,893,443	1,997,932	2,992,513	997,971	2,884,963	2,941,370	3,000,660	3,941,858	33,431,160
Forcados	5,405,010	5,780,366	6,439,950	3,597,945	3,804,038	4,786,213	6,587,000	5,999,385	6,612,176	6,230,790	6,471,111	7,796,056	69,510,040
Ima	147,354	-	-	-	-	-	200,635	-	-	-	100,193	-	448,182
Odudu	1,949,048	2,942,951	1,974,153	949,692	2,948,304	949,397	1,999,409	1,998,067	2,945,363	1,886,823	1,932,134	2,846,650	25,321,991
Okono	899,901	899,843	899,719	649,600	249,421	899,937	1,199,568	-	899,875	899,752	899,518	899,678	9,296,812
Okoro	947,384	-	949,065	-	997,535	-	-	949,514	-	-	-	997,297	4,840,795
Okwori	647,962	648,032	647,923	648,172	647,622	648,245	-	672,680	648,318	648,565	621,083	380,560	6,859,162
Oyo	-	-	-	-	-	-	311,572	-	337,172	845,278	-	152,049	1,646,071
Pennington	964,723	-	-	1,015,586	-	990,529	-	-	984,086	-	-	984,231	4,939,155
QIT	11,350,234	9,538,073	9,318,752	11,218,133	10,925,322	9,502,688	11,805,029	11,102,073	9,641,383	10,601,516	11,318,039	9,297,589	125,618,831
Sea Eagle	1,345,688	948,378	1,847,798	995,337	948,273	1,896,767	949,634	948,176	947,864	1,896,409	905,403	-	13,629,727
SEEPCO	-	1,028,338	-	-	1,412,385	-	349,948	1,364,876	-	1,308,188	-	1,958,391	7,422,126
Usan	3,098,064	4,003,019	2,999,244	3,998,493	3,044,698	3,643,135	3,145,586	2,907,448	3,948,732	2,999,799	2,994,538	2,946,370	39,729,126
Yoho	1,947,469	950,619	950,474	1,900,751	1,900,873	948,775	1,900,551	950,883	1,898,451	947,798	1,308,057	1,856,755	17,461,456
Grand Total	68,631,412	65,892,550	62,689,164	62,959,633	61,711,558	59,670,442	61,443,854	62,726,455	64,084,171	70,251,801	65,447,849	65,936,068	771,444,957

All volumes are in barrels

Table 17: Summary of Crude / Condensate Export

	2010	2011	2012	2013	2014	2015
Abo	11,122,508	10,435,925	8,318,864	7,973,515	8,298,092	8,184,624
Agbami	86,914,891	88,318,131	85,216,347	84,752,375	86,171,532	85,628,159
Akpo	60,310,968	56,874,365	57,429,881	60,787,043	51,618,224	55,354,492
Antan	19,161,225	14,201,969	18,551,764	19,936,820	18,112,986	14,396,706
Asaramatoru					544,421	422,934
Bonga	65,062,445	51,637,104	64,283,129	50,858,029	58,282,931	69,715,081
Bonny	84,732,535	85,632,150	74,644,120	56,983,360	67,745,358	65,601,732
Brass	46,807,579	46,321,912	38,935,783	30,866,918	36,400,244	38,946,913
Ebok		2,632,888	11,083,168	13,118,644	9,772,103	10,274,484
Ekanga Zaffiro					3,763,224	3,710,955
Erha	61,312,426	52,491,417	46,411,568	37,031,702	35,959,867	33,431,160
Escravos	67,842,754	64,008,180	60,861,373	49,395,756	59,259,056	59,054,243
Forcados	66,334,530	74,836,802	69,586,326	66,228,558	66,442,803	69,510,040
Ima	587,031	443,148	360,694	209,822	231,712	448,182
Odudu	40,678,097	39,129,520	37,841,145	28,080,832	26,478,183	25,321,991
Okono	18,051,652	17,051,254	16,630,272	14,831,286	12,053,749	9,296,812
Okoro	5,948,727	5,375,374	6,358,125	6,431,941	5,608,008	4,840,795
Okwori	14,455,280	12,913,267	11,767,917	9,057,835	8,460,061	6,859,162
Oso Condensate	4,604,786	5,384,790			-	
Oyo	3,612,118	1,350,055	1,015,747	671,221	5,455,256	1,646,071
Pennington	10,845,935	10,766,479	8,792,567	6,891,180	5,834,616	4,939,155
QIT Crude	127,265,111	127,473,827	129,434,223	130,387,983	134,322,114	125,618,831
Sea Eagle	29,852,439	22,449,218	20,830,329	16,175,525	7,028,594	13,629,727
Tulja		587,591	2,132,939	2,957,822	4,202,870	7,422,126
Ukpokiti	326,047	295,409	804,835	982,136	546,255	
Usan			28,942,683	38,357,661	44,518,002	39,729,126
Yoho	33,188,540	30,675,473	27,699,067	24,969,999	18,971,337	17,461,456
Grand Total	859,017,624	821,286,248	827,932,866	757,937,963	776,081,598	771,444,957

All volumes are in barrels

*Crude and Condensate comingled at QIT (2012 & 2013).

**Ebok commenced operations in 2011.

***Tulja commenced operations in 2011

****Usan commenced operations in 2012

Table 18: Crude Export by Destination, 2015

Continent	Volume of Export, Bbls
Africa	105,925,518
Asia	210,771,444
Europe	345,546,407
North America	30,682,554
South America	74,044,389

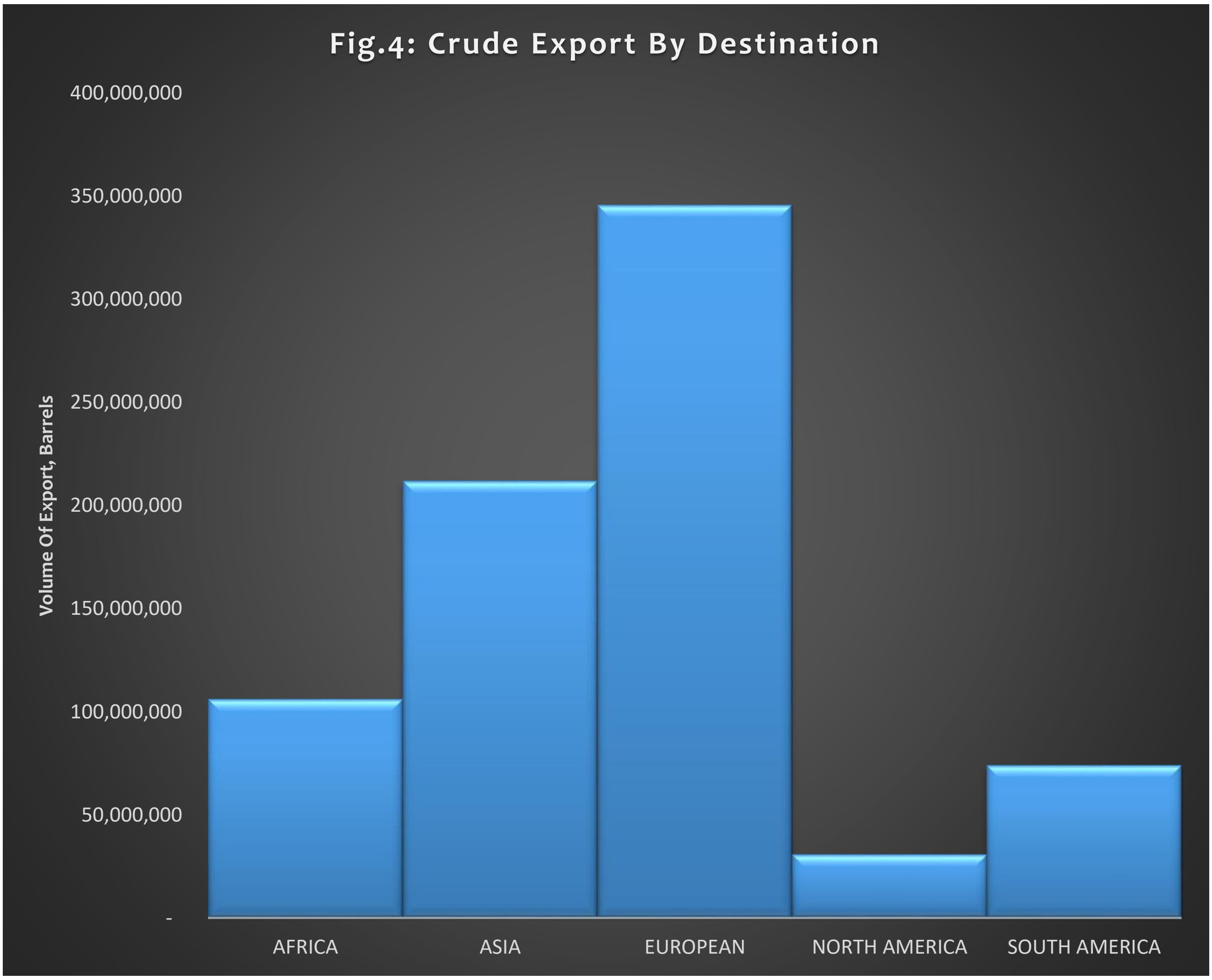
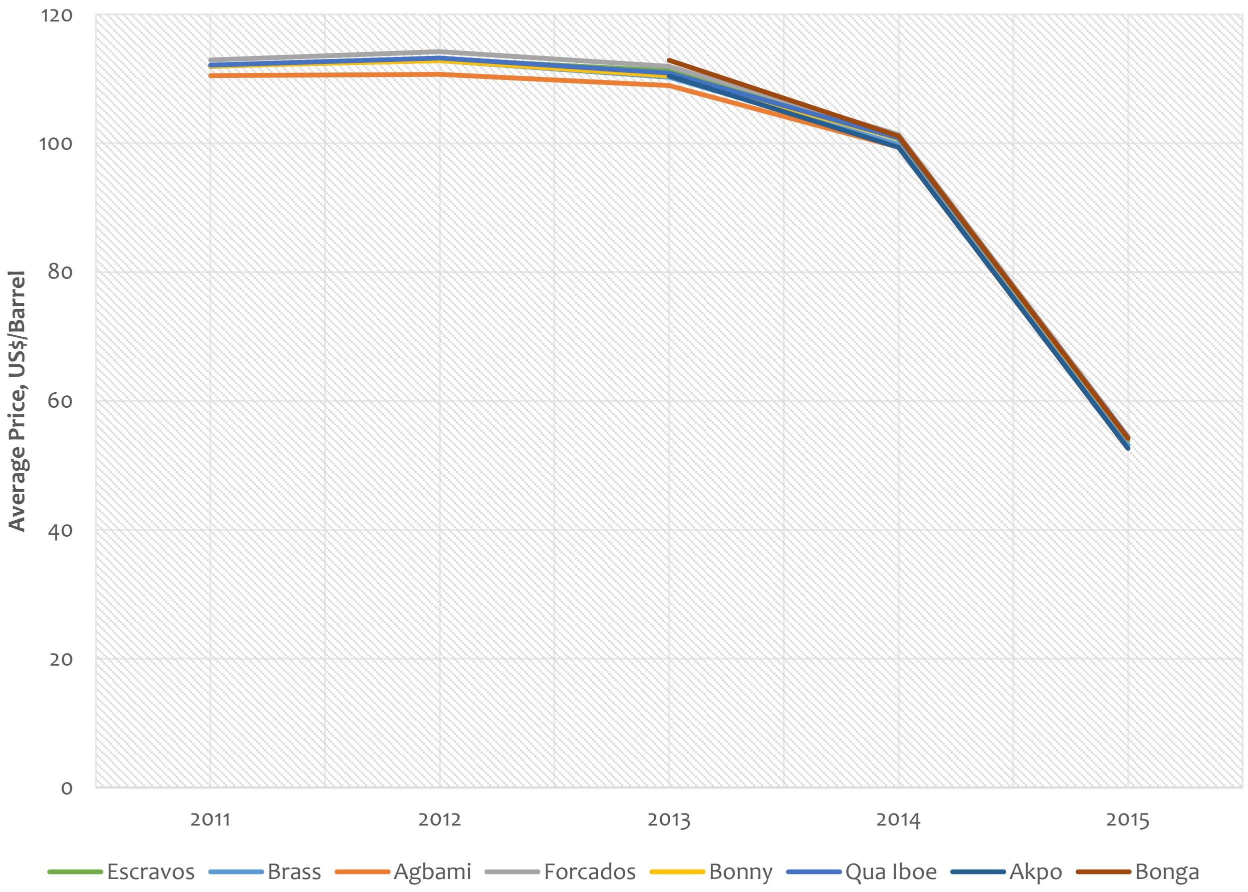


Table 19: Average Price of Nigeria's Crude Streams as Quoted by Platts# (USD/Barrel)

	Escravos	Brass	Agbami	Forcados	Bonny	Qua Iboe	Akpo	Bonga
2011	111.9434	112.0184	110.498	112.9252	111.9684	112.1366	*	*
2012	113.1028	112.8231	110.7121	114.2121	112.8378	113.2087	*	*
2013	111.2222	110.2312	108.9569	111.9453	110.4733	110.8774	110.449	112.8663
2014	100.658	99.83658	99.35966	101.349	100.7018	100.8022	99.3726	101.133
2015	53.86294	53.14151	52.64131	54.48071	54.15933	54.28623	52.6848	54.18079

Source: Platts
* Price assessment not available

Fig. 5: Average Price of Nigeria's Crude Streams as Quoted by Platts



4.2 DOWNSTREAM

4.2.1 Refinery Activities

Table 20: Refinery Plants in Nigeria

	Refinery	Ownership	Configuration	Feedstock	Products
1	Old PHRC, Rivers State	NNPC	Hydroskimming	Bonny light	Fuels
2	New PHRC, Rivers State	NNPC	Conversion	Bonny light	Fuels
3	WRPC, Delta State	NNPC	Conversion	i. Escravos ii. Ughelli blend.	a. Fuels b. Petrochemicals (Polypropylene & Carbon black)
4	KRPC, Kaduna State	NNPC	Conversion	i. Escravos ii. Ughelli blend iii. Basra iv. Urals	a. Fuels b. Petrochemicals c. Base Oil
5	NDPR, Rivers State	NDPR	Topping	Ogbelle	Diesel

Table 21: Refinery Capacity Utilization

		KRPC	WRPC	New PHRC	Old* PHRC	NDPR**	Total	Capacity Utilization, %
Designed Capacity, BPSD		110,000.00	125,000.00	150,000.00	60,000.00	1,000.00	446,000.00	
Crude Oil Processed, BPSD	2010	21,986.72	53,345.20	19,345.38	-	-	94,677.30	21.23%
	2011	20896.79	49,731.41	31,853.02	-	222.03	102,703.25	23.03%
	2012	31,981.86	34,868.71	24,530.97	-	557.45	91,938.99	20.61%
	2013	32,452.43	20,925.04	44,937.47	-	185.18	98,500.12	22.09%
	2014	12,160.39	24,049.59	23,557.15	-	503.71	60,270.84	13.51%
	2015	3,297.36	8,337.64	9,274.21	-	714.66	21,623.87	re4.85%

* The Old Port Harcourt Refinery (Old PHRC) was down during the period being reported.
** NDPR commenced AGO production in May 2011.

Table 22: PMS Production by Refineries

	PMS Production, Metric Tonnes				
	KRPC	New PHRC	WRPC	Total	Total, Litres
2010	178,036.37	199,611.02	479,027.07	856,674.46	1,148,800,451.54
2011	305,657.11	393,919.52	501,974.35	1,201,550.98	1,611,279,865.13
2012	309,449.02	226,217.10	330,212.60	865,878.72	1,161,143,364.20
2013	399,536.00	258,326.82	357,720.45	1,015,583.27	1,361,897,160.51
2014	139,350.99	65,110.14	298,876.36	503,337.49	674,975,574.49
2015	40,663.68	156,379.57	84,758.39	281,801.64	377,896,000.22

Table 23: 2015 PMS Production Summary

	PMS 2015 Refinery Production In MT				Total, Litres
	KRPC	New PHRC	WRPC	Total	
January	0.00	0.00	24,263.98	24,263.98	32,538,000.02
February	0.00	0.00	23,877.70	23,877.70	32,020,000.02
March	0.00	11,258.02	0.00	11,258.02	15,097,000.01
April	0.00	612.23	0.00	612.23	821,000.00
May	0.00	0.00	0.00	0.00	0.00
June	6,446.68	0.00	0.00	6,446.68	8,645,000.01
July	0.00	20,307.23	9,343.77	29,651.01	39,762,000.02
August	3,765.85	59,750.19	27,272.93	90,788.96	121,748,000.07
September	16,853.84	36,845.64	0.00	53,699.48	72,011,000.04
October	6,375.09	16,038.03	0.00	22,413.12	30,056,000.02
November	0.00	0.00	0.00	0.00	0.00
December	7,222.22	11,568.23	0.00	18,790.45	25,198,000.01
Total	40,663.68	156,379.57	84,758.39	281,801.64	377,896,000.22

* Old PHRC was not operational during the period under review.

Table 24: AGO Production by Refineries

	AGO Production, Metric Tonnes					
	KRPC	New PHRC	**NDPR	WRPC	Total	Total, Litres
2010	259,389.13	191,363.89	-	665,285.40	1,116,038.42	1,299,068,721.38
2011	224,750.40	354,710.79	4,325.82	637,286.77	1,221,073.78	1,421,329,877.73
2012	295,094.99	290,817.56	13,299.31	420,117.96	1,019,329.82	1,186,499,913.09
2013	308,460.00	175,646.88	4,579.31	542,428.49	1,031,114.68	1,200,217,487.14
2014	137,831.00	573,017.61	13,479.89	283,063.14	1,007,391.64	1,172,603,874.45
2015	24,055.84	120,184.71	19,167.42	92,874.57	256,282.54	298,312,876.99

* NDPR commenced AGO production in May 2011.
**Volumes for NDPR were erroneously reported in barrels in the previous edition.

Table 25: 2015 AGO Production Summary

	AGO 2015 Refinery Production in MT					Total, Litres
	KRPC	New PHRC	NDPR	WRPC	Total	
January	2,614.26	0.00	1,441.93	42,024.05	46,080.25	53,637,406.54
February	0.00	0.00	944.16	0.00	944.16	1,099,002.24
March	0.00	0.00	1,453.81	0.00	1,453.81	1,692,234.84
April	0.00	0.00	2,077.79	0.00	2,077.79	2,418,547.56
May	0.00	0.00	2,214.39	0.00	2,214.39	2,577,549.96
June	4,628.87	0.00	1,654.47	0.00	6,283.34	7,313,803.08
July	0.00	37,555.84	1,714.85	27,499.14	66,769.83	77,720,085.43
August	8,342.78	72,825.60	1,090.05	23,351.37	105,609.81	122,929,818.25
September	4,293.81	0.00	1,598.88	0.00	5,892.69	6,859,096.32
October	0.00	0.00	1,456.82	0.00	1,456.82	1,695,738.48
November	1,280.07	0.00	1,521.84	0.00	2,801.91	3,261,421.76
December	2,896.05	9,803.26	1,998.43	0.00	14,697.74	17,108,172.53
Total	24,055.84	120,184.71	19,167.42	92,874.57	256,282.54	298,312,876.99

Table 26: DPK Production by Refineries

	DPK Production, Metric Tonnes				
	KRPC	New PHRC	WRPC	Total	Total, Litres
2010	120,740.93	148,250.59	403,943.34	672,934.86	829,055,748.07
2011	119,243.93	237,189.30	385,651.46	742,084.69	914,248,338.68
2012	162,269.01	158,058.35	276,130.76	596,458.12	734,836,404.33
2013	200,361.99	138,622.59	381,348.00	720,332.58	887,449,739.15
2014	89,083.95	182,192.37	196,719.64	467,995.96	576,571,023.10
2015	20,603.90	68,732.95	74,272.73	163,609.58	201,567,000.13

Table 27: 2015 DPK Production Summary

	PMS 2015 Refinery Production in MT				Total, LItres
	KRPC	New PHRC	WRPC	Total	
January	750.00	0.00	30,305.19	31,055.19	38,260,000.03
February	0.00	0.00	0.00	0.00	0.00
March	0.00	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00	0.00
June	8,068.18	0.00	0.00	8,068.18	9,940,000.01
July	0.00	20,935.88	20,764.61	41,700.49	51,375,000.03
August	3,227.27	41,573.86	23,202.92	68,004.06	83,781,000.06
September	3,064.12	0.00	0.00	3,064.12	3,775,000.00
October	0.00	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00	0.00
December	5,494.32	6,223.21	0.00	11,717.53	14,436,000.01
Total	20,603.90	68,732.95	74,272.73	163,609.58	201,567,000.13

4.2.1.1 Growing Capacity In Domestic Refining

Demand for refined products and the middle distillates have risen in the last decade. However, most refineries still grapple with the challenges of rising costs. The increasingly stringent environmental regulations are also posing additional challenges for some operators.

The Nigerian refineries are plagued with peculiar domestic challenges. Most of the refineries were established back in the 1970s and now produce at sub-optimal levels partly due to the increasingly aging plants. Incessant disruption of crude oil and product pipelines have posed further challenges to operations.

There is strong local demand for refined petroleum products in the periods covered by this Report. There is also a yawning gap between domestic demand and output from the domestic refineries, clearly instructing the need for proactive policies to bridge the gaps.

Nigeria National Petroleum Corporation (NNPC) owns and operates all the four (4) domestic refineries with a total nameplate of 445,000 bpsd. Niger Delta Petroleum Resources (NDPR) Limited, Marginal Field operator on OML-54 also established a 1,000 bpsd diesel stripping/topping plant in 2011, raising the total domestic nameplate capacity to 446,000 bpsd.

The private effort by NDPR is a veritable benchmark on efficient management of fringe assets in Nigeria. It is a pointer to the potentials of emerging policy on modular refineries as a solution for the current domestic refining gap.

Now falling oil prices have further raised the impetus for diversification to assure comparative advantage for the Nigerian oil and gas industry. The continued low domestic refining capacity especially poses a peculiar policy challenge, in view of expanding local market for petroleum products. Growing the domestic refining capacity would reduce the dependence on foreign products, boost local content, generate new jobs and develop requisite competencies in the ancillary sectors. It would also free the foreign exchange market from undue demand pressures of petroleum products imports.

Nigeria aims to achieve 50% domestic refining capacity by 2020 through a combine policy of deregulation and rehabilitation of aging plants. Ultimately, deregulation is expected to end government dominance and attract private investments to the sector. In line with this aspiration, DPR has already granted 25 Licenses to Establish (LTE) and 5 Approval to Construct (ATC) refineries in Nigeria to qualified companies. One of the 25 LTE holders, Dangote Oil Refinery Company (DORC) has progressed the refinery development project to the equipment fabrication stage. The DORC project is due to be commissioned in 2018 and would add 500,000 BPSD to the domestic refining capacity.

The modular refinery model is now emerging as a credible solution to the dismal share of domestic refineries. The model is gaining credence due to its comparatively lower establishment and running costs. Compared to bigger refinery projects, the modular solution appeals more to the marginal upstream producers desiring maximization of assets value through local refining of produced oil. So far, DPR has issued 22 LTE and 3 ATC, respectively for modular Refineries projects. The projects have cumulative potentials to boost the domestic refinery capacity by more than 671,000BPSD on completion.

The indications are that the trajectory of domestic refinery in Nigeria would rise in the medium and long term as the ongoing projects mature and new private investors come into the sector. The future of the domestic refinery sector would be greatly improved through policy consistency, secured crude oil supplies and improved infrastructure.

Government is committed to tackling all the associated challenges facing the effective development of the domestic refinery sub-sector by promoting the business-friendly environment that is capable of driving the growth that will ensure the emergence of Nigeria as a refining hub in Africa.

Table 28: Disposition of Licensed Refining Companies in Nigeria

S/N	Ownership	Plant Site	Capacity (Bpsd)	License / Approval Granted	Current Status	Cumulative Capacity Additions (Bpsd)		
						Short Term	Medium Term	Long Term
1	Amakpe International Refinery Inc.	Eket, Akwa Ibom State	12,000	ATC (*revalidated Dec. 2007*)	Fabricated process units were inspected certified fit but were not shipped to Nigeria.	-	12,000	12,000
2	Resource Petroleum & Petrochemicals International Incorporated	Ibeno, Akwa Ibom State	100,000	ATC (*revalidated in 2015*)	Signed contract with Foster Wheeler France and Axens for FEED.	-	-	100,000
3	Hi Rev Oil Limited	Utapate, Akwa Ibom State	50,000	Approval to Construct (ATC)	Detailed Engineering approval granted	-	10,000	50,000
4	Azikel Petroleum Limited	Obunagha, Bayelsa State	12,000	Approval to Construct (ATC)	Detailed Engineering approval granted	-	12,000	12,000
5	Dangote Oil Refinery Company	Lekki Free Trade Zone, Lagos	500,000	License to establish (LTE)	FEED approval granted	-	500,000	500,000
6	Omega-Butler Refineries (Nig.) Limited	Ikpokiri, Rivers State.	20,000	License to establish (LTE)	Project yet to commence	-	-	-
7	Kainji Resources Limited	Oguta, Imo State	24,000	License to establish (LTE)	Request for ATC being processed	-	12,000	24,000
8	Masters Energy Oil & Gas Limited	Rumoulumeni, Rivers State	30,000	License to establish (LTE)	Project yet to commence	-	-	30,000
9	Cross Country Oil & Gas Limited	Obile, Imo State	20,000	License to establish (LTE)	Project yet to commence	-	-	20,000
10	Waltersmith Refining & Petrochemical Company Limited	Ibigwe, Imo State	5,000	License to establish (LTE)	Project yet to commence	-	5,000	5,000
11	Grifon Energy Limited	Ipoke, Ondo State	10,000	License to establish (LTE)	Preliminary activities ongoing	2,000	10,000	10,000
12	Sifax Oil & Gas Company Limited	Snake Island, Lagos	120,000	License to establish (LTE)	Project yet to commence	-	-	30,000

S/N	Ownership	Plant Site	Capacity (Bpsd)	License / Approval Granted	Current Status	Cumulative Capacity Additions (Bpsd)		
						Short Term	Medium Term	Long Term
13	Capital Oil & Gas Industries Limited	Snake Island, Lagos	100,000	License to establish (LTE)	Project yet to commence	-	-	100,000
14	Aiteo Energy Resources Limited	Ajagbodudu, Delta State	100,000	License to establish (LTE)	Project yet to commence	-	-	100,000
15	RG Shinjin Petrochemicals Limited	Koko, Delta State	10,000	License to establish (LTE)	Project yet to commence	-	10,000	10,000
16	Epic Refinery & Petrochemical Industries Limited	Oporoma, Bayelsa State	107,000	License to establish (LTE)	Project yet to commence	-	20,000	107,000
17	Frao Oil Nigeria Limited	Uzere, Delta State	12,000	License to establish (LTE)	Project yet to commence	-	-	12,000
18	All Grace Energy Limited	Ubima, Rivers State	5,000	License to establish (LTE)	Project yet to commence	-	-	5,000
19	Green Energy International Limited	Otakikpo, Rivers State	5,000	License to establish (LTE)	Project yet to commence	-	-	5,000
20	Petrolex Oil & Gas Limited	Ibefun Ijebu, Ogun State	100,000	License to establish (LTE)	Project yet to commence	-	-	100,000
21	Clairgold Oil & Gas Engineering Limited	Koko, Delta State	20,000	License to establish (LTE)	Project yet to commence	-	-	20,000
22	Fresh Energy Limited	Igbomotoru, Bayelsa State	10,000	License to establish (LTE)	Project yet to commence	-	-	20,000
23	Chyzob Oil & Gas Limited	Obuzor, Abia State	10,000	License to establish (LTE)	Project yet to commence	-	-	20,000
24	Eko Petrochem & Refining Company Limited	Tomaro Island, Lagos State	20,000	License to Establish (LTE)	Project yet to commence	-	20,000	20,000
25	Associated Worldwide Company Limited	Eket, Akwa Ibom State	20,000	License to Establish (LTE)	Project yet to commence	-	-	20,000
26	Energia Limited	Kwale, Delta State	20,000	License to Establish (LTE)	Project yet to commence	-	-	20,000
Anticipated Capacity Additions						**7,000**	**611,000**	**1,352,000**

4.2.2 Petroleum Product Importation

Table 29: Petroleum Products Volumes as per Import Permits Issued (Metric Tonnes) *

	PMS	AGO	DPK	ATK	LPFO	Base Oil	Chemicals	Bitumen	Additives
2014	10,665,337.00	14,356,908.00	705,000.00	2,623,500.00	1,640,000.00	1,327,400.00	90,000.00	1,105,500.00	120,000.00
2015	10,104,300.00	14,981,597.53	1,312,000.00	3,884,500.00	2,340,800.00	1,602,680.00	-	952,300.00	-

*This excludes importation by NNPC

Table 30: 2015 Petroleum Products Volumes as per Import Permits Issued (Metric Tonnes) *

	PMS	AGO	DPK	ATK	LPFO	Base Oil	Chemicals	Bitumen	Additives
January	1,305,000.00	1,432,500.00	300,000.00	435,000.00	190,000.00	115,000.00		60,000.00	
February	-	-	-	-	-	-		30,000.00	
March	905,000.00	1,552,500.00	15,000.00	300,000.00	790,000.00	130,000.00		190,000.00	
April	1,528,600.00	1,913,000.00	230,000.00	471,500.00	390,000.00	118,500.00		225,000.00	
May	477,600.00	963,950.00	15,000.00	200,000.00	30,000.00	190,180.00		-	
June	500,000.00	1,515,295.53	90,000.00	167,000.00	-	90,900.00		15,000.00	
July	2,055,000.00	2,283,300.00	210,000.00	570,000.00	284,800.00	187,000.00		225,000.00	
August	365,000.00	90,000.00	2,000.00	470,000.00	100,000.00	50,000.00		2,500.00	
September	515,900.00	1,223,902.00	135,000.00	411,000.00	30,000.00	219,100.00		54,800.00	
October	305,000.00	1,235,150.00	90,000.00	120,000.00	54,000.00	131,000.00		30,000.00	
November	1,446,200.00	1,665,000.00	90,000.00	530,000.00	311,000.00	286,000.00		120,000.00	
December	701,000.00	1,107,000.00	135,000.00	210,000.00	161,000.00	85,000.00		-	
Total	10,104,300.00	14,981,597.53	1,312,000.00	3,884,500.00	2,340,800.00	1,602,680.00		952,300.00	

*This excludes importation by NNPC

Table 31: Petroleum Products Import Summary, Metric Tonnes

	PMS	AGO	DPK	LPG	ATK	LPFO	Base Oil	Chemicals	Bitumen
2014	13,505,465.72	3,253,232.85	2,316,190.02	-	344,110.39	153,423.34	205,861.86	-	350,215.47
2015	13,393,574.20	3,776,495.79	1,530,164.48	8,158.52	418,243.20	58,028.41	211,529.12	-	109,601.28

Table 32: 2015 Petroleum Products Import Summary, Metric Tonnes

	PMS	AGO	DPK	LPG	ATK	LPFO	Base Oil	Chemicals	Bitumen
January	1,140,005.75	364,064.24	203,557.74	-	39,061.60	15,568.13	9,723.00	-	11,702.20
February	816,285.09	339,508.52	89,928.71	-	18,350.00	4,097.22	11,093.62	-	26,204.87
March	1,610,544.06	216,560.78	84,783.86	-	34,708.20	7,789.26	6,525.96	-	7,061.13
April	1,246,765.93	230,596.49	172,846.32	-	15,784.00	-	10,708.72	-	19,030.69
May	899,278.88	330,347.34	321,332.95	-	16,929.02	-	16,724.75	-	7,777.64
June	705,601.90	404,839.39	58,799.43	-	9,762.62	7,609.74	12,398.34	-	11,262.02
July	1,109,574.83	522,362.32	24,108.05	-	49,342.65	-	38,868.54	-	5,435.86
August	1,472,141.28	329,945.32	69,434.70	8,158.52	66,715.44	-	21,799.32	-	6,570.23
September	1,032,341.56	262,915.04	138,470.29	-	57,843.53	3,963.03	26,780.87	-	-
October	980,443.85	227,004.61	129,341.20	-	45,112.64	-	23,442.73	-	-
November	969,611.87	293,462.35	128,520.80	-	41,810.32	-	17,755.42	-	5,713.15
December	1,410,979.19	254,889.38	109,040.43	-	22,823.17	19,001.02	15,707.86	-	8,843.49
Total	13,393,574.20	3,776,495.79	1,530,164.48	8,158.52	418,243.20	58,028.41	211,529.12	-	109,601.28

Table 33: PMS Import Summary

	PMS, Metric Tonnes				
	PPMC	Major Marketers	Independent	Total	Total, Litres
2010	6,375,558.77	1,799,245.07	3,727,715.85	11,902,519.69	15,961,278,913.68
2011	5,419,528.90	2,902,728.13	6,956,644.19	15,278,901.22	20,489,006,534.68
2012	5,368,476.91	1,759,150.28	4,222,006.28	11,349,633.47	15,219,858,451.71
2013	4,873,097.95	1,930,515.51	5,587,212.84	12,390,826.30	16,616,098,025.06
2014	4,893,264.66	2,228,000.82	6,384,200.25	13,505,465.73	18,110,829,483.39
2015	5,289,031.18	1,831,560.30	6,396,124.53	13,516,716.01	18,125,916,180.07

Table 34: AGO Import Summary

	AGO, Metric Tonnes				
	PPMC	Major Marketers	Independent	Total	Total, Litres
2010	301,543.91	269,274.93	2,034,469.27	2,605,288.11	3,032,555,361.20
2011	513,474.51	321,129.72	1,220,734.00	2,055,338.23	2,392,413,698.19
2012	29,146.94	363,802.16	1,410,980.58	1,803,929.68	2,099,774,194.75
2013	31,470.15	435,171.93	1,677,268.13	2,143,910.22	2,495,511,551.48
2014	96,777.60	368,267.47	2,788,187.78	3,253,232.85	3,786,763,127.93
2015	13,034.75	230,854.77	3,537,364.10	3,781,253.62	4,401,379,215.36

Table 35: DPK Import Summary

	DPK, Metric Tonnes				
	PPMC	Major Marketers	Independent	Total	Total, Litres
2010	1,275,822.65	34,742.79	201,670.63	1,512,236.07	1,863,074,839.47
2011	1,244,513.78	4,688.54	222,660.78	1,471,863.10	1,813,335,336.74
2012	1,310,101.18	4,998.35	438,210.16	1,753,309.69	2,160,077,558.37
2013	1,341,844.70	14,912.59	779,874.03	2,136,631.32	2,632,329,817.40
2014	1,348,224.50	9,871.29	958,094.23	2,316,190.02	2,853,546,130.61
2015	888,733.01	4,987.36	636,444.11	1,530,164.48	1,885,162,640.60

Table 36: ATK Import Summary

	ATK, Metric Tonnes				
	PPMC	Major Marketers	Independent	Total	Total, Litres
2010	-	332,152.00	122,125.29	454,277.28	559,669,613.89
2011	-	409,190.11	70,150.55	479,340.66	590,547,695.58
2012	-	412,145.93	112,930.98	525,076.91	646,894,844.99
2013	-	342,319.63	70,662.48	412,982.11	508,794,034.24
2014	-	279,138.00	64,972.39	344,110.39	423,944,059.10
2015	-	189,477.17	251,212.03	440,689.20	542,929,099.18

Table 37: LPFO Import Summary

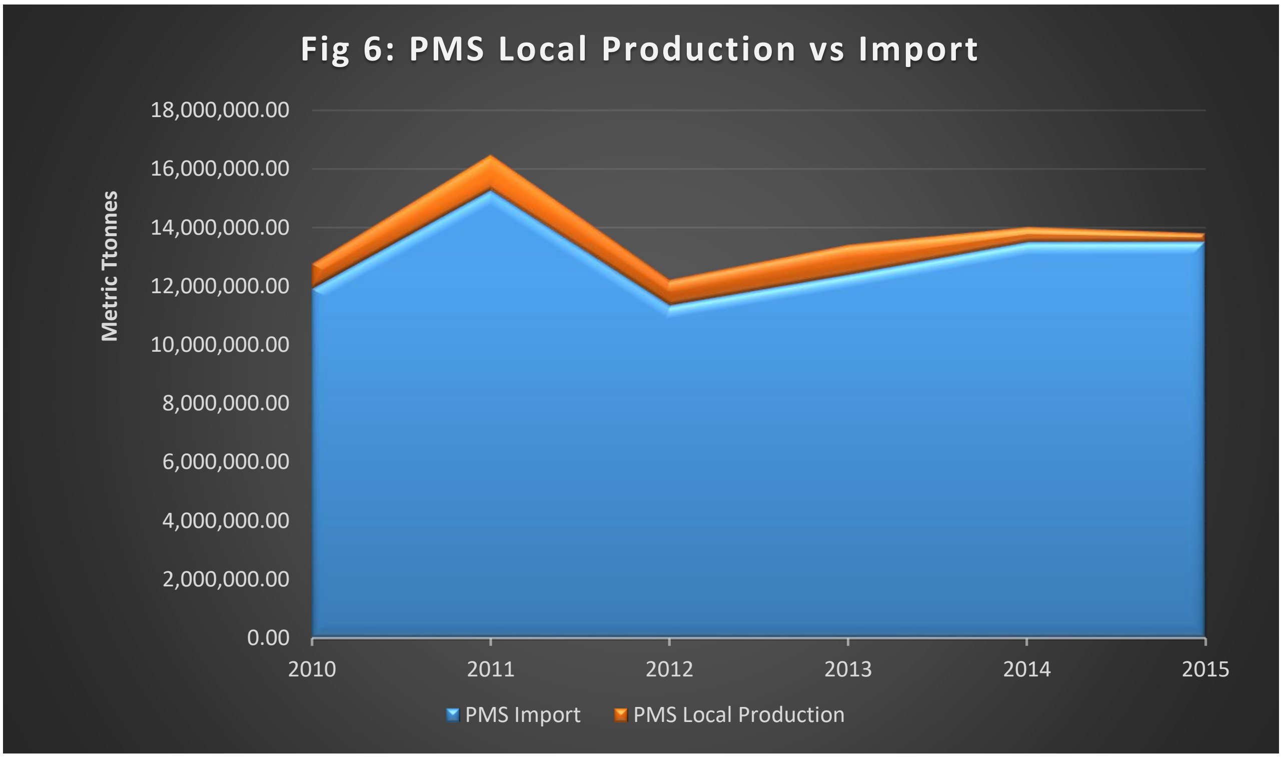
	LPFO, Metric Tonnes				
	PPMC	Major Marketers	Independent	Total	Total, Litres
2010	10,005.86	11,471.05	149,049.79	170,526.70	179,053,036.05
2011	-	37,188.47	66,613.02	103,801.48	108,991,557.15
2012	-	61,365.05	27,067.05	88,432.10	92,853,703.95
2013	-	-	14,953.80	14,953.80	15,701,488.95
2014	-	6,698	146,725.34	153,423.34	161,094,509.10
2015	-	9,609.00	53,931.19	63,540.19	66,717,199.89

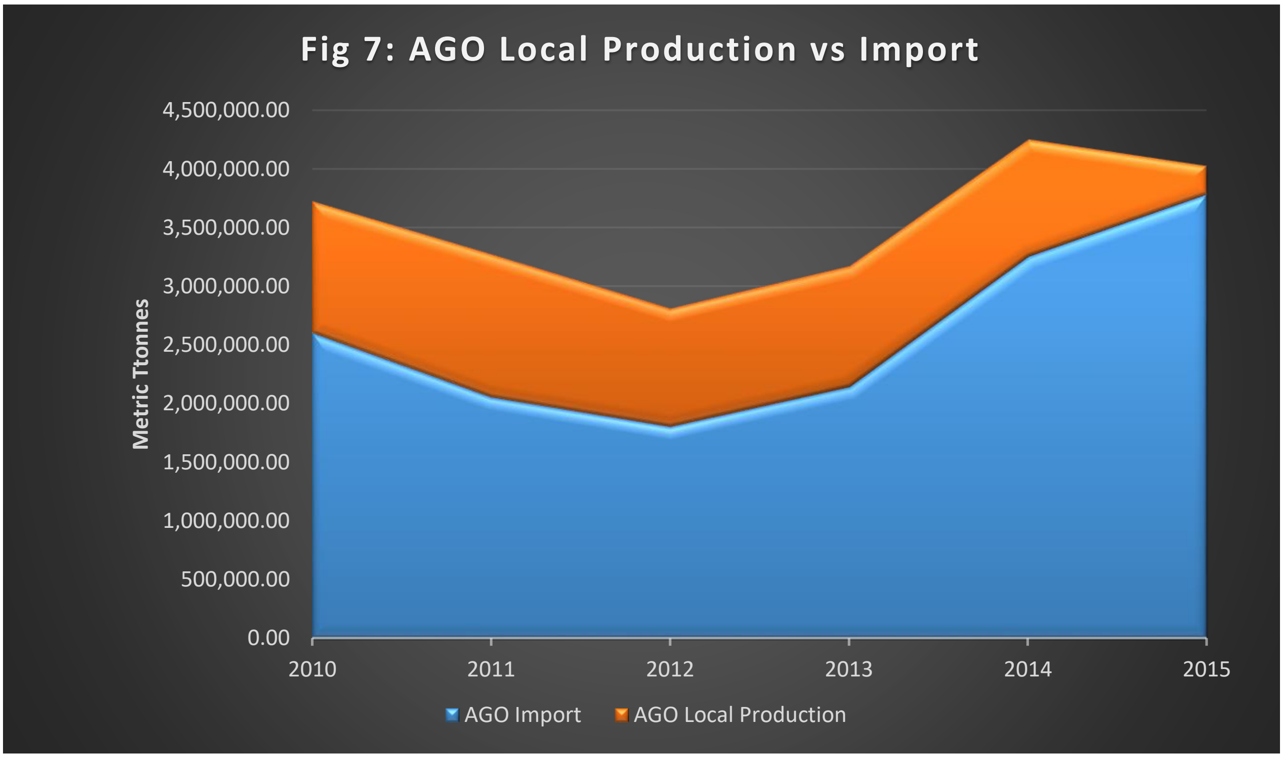
Table 38: Summary of 2015 Petroleum Products Importation, Metric Tonnes

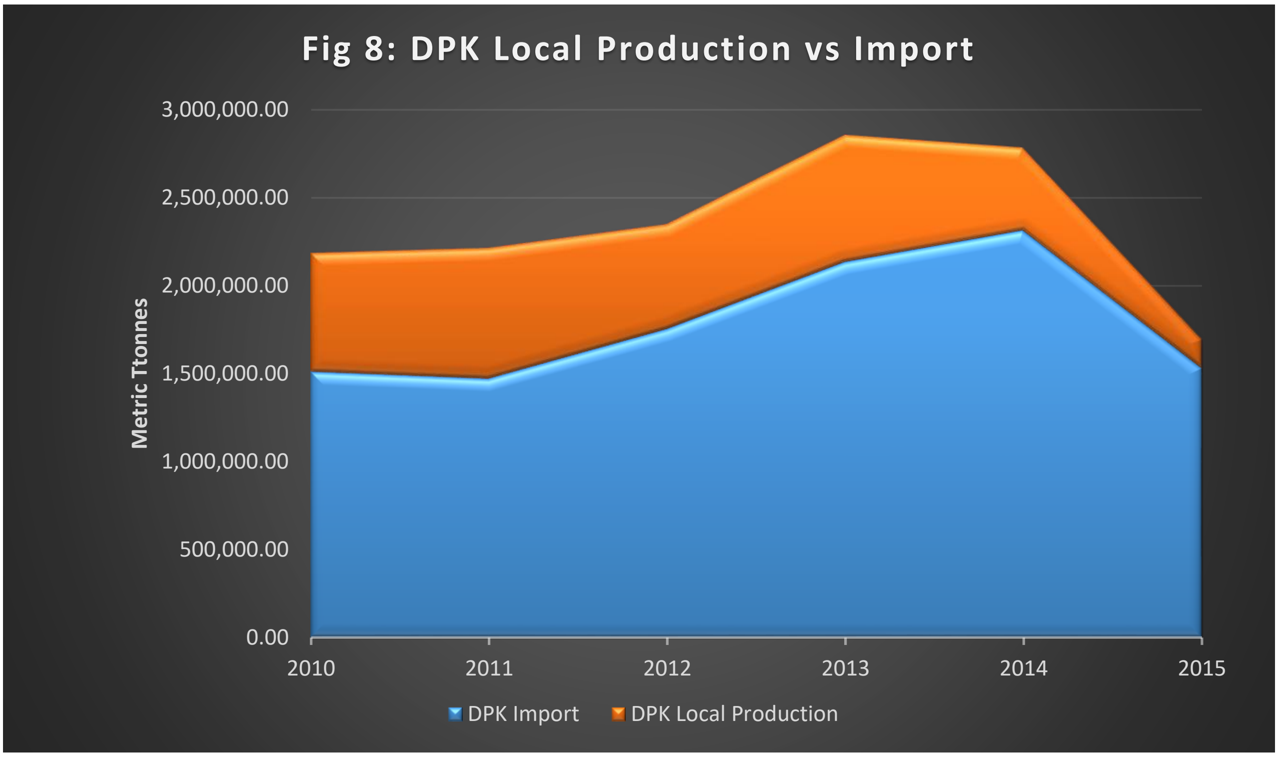
	PPMC			Major Marketers			Independent Marketers		
	PMS	AGO	DPK	PMS	AGO	DPK	PMS	AGO	DPK
January	433,515.93		109,481.64	171,540.60	41,114.01		534,949.22	322,950.24	94,076.10
February	375,322.73		65,078.87	127,899.64	4,757.83		436,204.53	339,508.52	24,849.84
March	588,940.11		64,972.86	91,981.73	19,295.75		929,622.22	197,265.03	19,811.00
April	424,462.73		89,021.88	184,917.00	42,706.85		637,386.20	187,889.63	83,824.44
May	195,626.42		217,121.63	124,023.15	10,907.03		579,629.31	319,440.31	104,211.33
June	167,130.48		4,976.95	89,617.27	14,028.47		448,854.15	390,810.92	53,822.48
July	454,478.19		14,564.34	132,966.06	38,192.13		522,130.59	484,170.19	9,543.71
August	621,436.96		34,708.06	171,676.30	23,538.49		679,028.02	306,406.83	34,726.63
September	285,611.75		88,997.65	230,858.23	10,801.40		515,871.58	252,113.64	49,472.65
October	483,024.73	13,034.75	60,077.26	124,696.64	18,939.80	4,987.36	372,722.49	195,030.06	64,276.58
November	548,959.21		70,280.76	202,006.10			218,646.56	293,462.35	58,240.04
December	710,521.95		69,451.12	179,377.58	6,573.00		521,079.66	248,316.38	39,589.31
Total	5,289,031.18	13,034.75	888,733.01	1,831,560.30	230,854.77	4,987.36	6,396,124.53	3,537,364.10	636,444.11

All volumes are in Metric tonnes

4.2.3 Petroleum Products Importation / Local Production







4.2.4 Petroleum Products Average Pricing

Table 39: Petroleum Products Average Consumer Price Range – 2010 (Naira per Litre)

		PMS	AGO	DPK
2010	**Major**	64-65	100-117	50-70
	Independent Marketers	65-70	100-130	50-85
	NNPC	65	106	50
2011	**Major**	64-65	115-170	50-70
	Independent Marketers	65-70	120-180	100-160
	NNPC	65	110-115	50
2012	**Major**	97	145-170	50
	Independent Marketers	97-120	150-180	110-140
	NNPC	97	145	50
2013	**Major**	97	150-170	135-140
	Independent Marketers	97-130	140-170	135-140
	NNPC	97	160	50
2014	**Major**	97	145-170	50
	Independent Marketers	97-100	150-180	100-150
	NNPC	97	150-175	50
2015	**Major**	86.50-97	150-170	50
	Independent Marketers	86.50-180	130-175	50-150
	NNPC	86.50-97	150-155	50

4.2.5 Retail Outlets

Table 40: Retail Outlets Summary - Filling Stations Count

State	Major Maketers	Independent Maketers	Total
Abia	42	938	980
Adamawa	75	459	534
Akwa-Ibom	27	784	811
Anambra	36	709	745
Bauchi	28	385	413
Bayelsa	7	74	81
Benue	50	635	685
Borno	45	913	958
Cross River	40	550	590
Delta	143	821	964
Ebonyi	8	190	198
Edo	51	465	516
Ekiti	26	210	236
Enugu	32	697	729
FCT	55	303	358
Gombe	24	291	315
Imo	63	867	930
Jigawa	22	298	320
Kaduna	112	1126	1238
Kano	70	1034	1104
Katsina	49	442	491
Kebbi	31	526	557
Kogi	37	385	422
Kwara	69	827	896
Lagos	402	1751	2153
Nasarawa	35	348	383
Niger	74	522	596
Ogun	213	2109	2322
Ondo	29	743	772
Osun	87	1301	1388
Oyo	189	1657	1846
Plateau	52	552	604
Rivers	128	719	847
Sokoto	21	337	358
Taraba	27	336	363
Yobe	25	276	301
Zamfara	27	207	234
Total	2,451	24,787	27,238

FIG. 9: Distribution of Licensed Retail Outlets

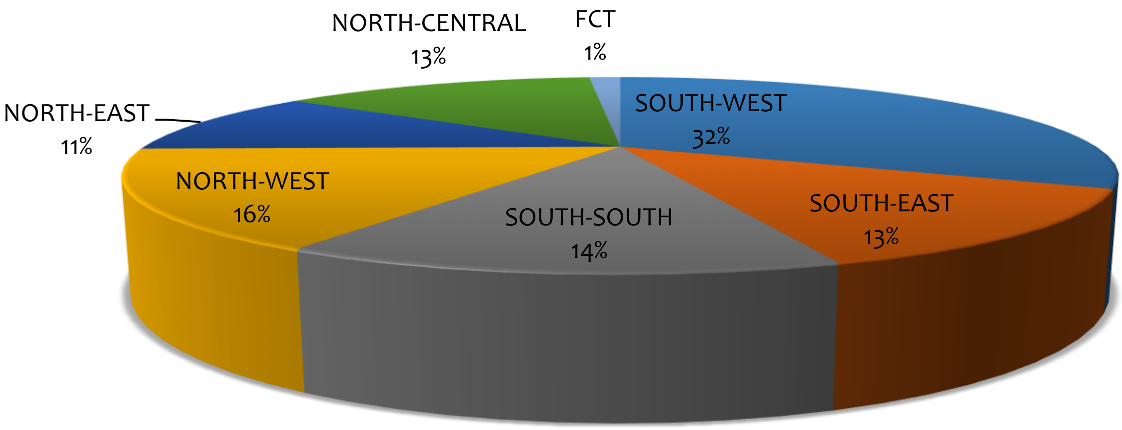


FIG. 10: Summary of Retail Outlet Distribution by Category

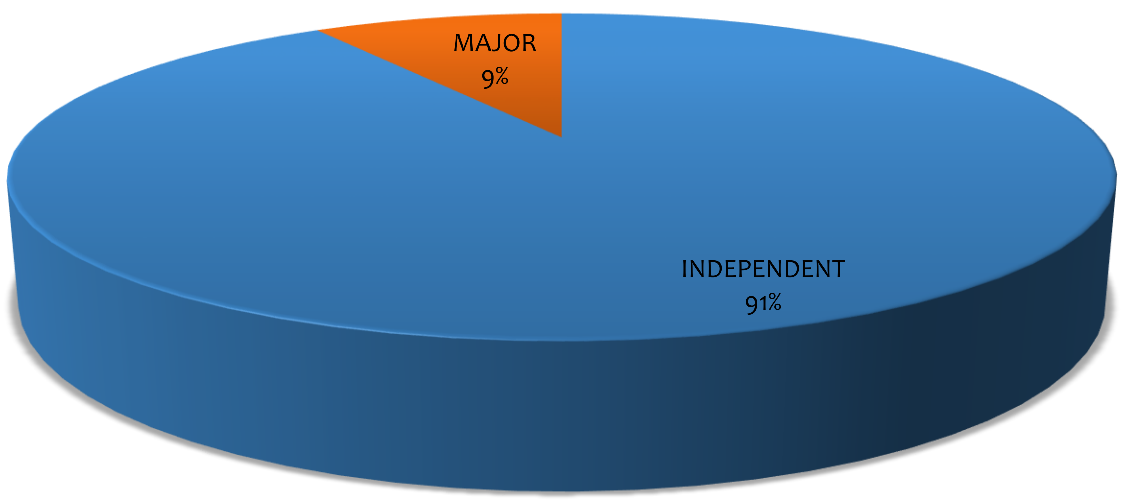
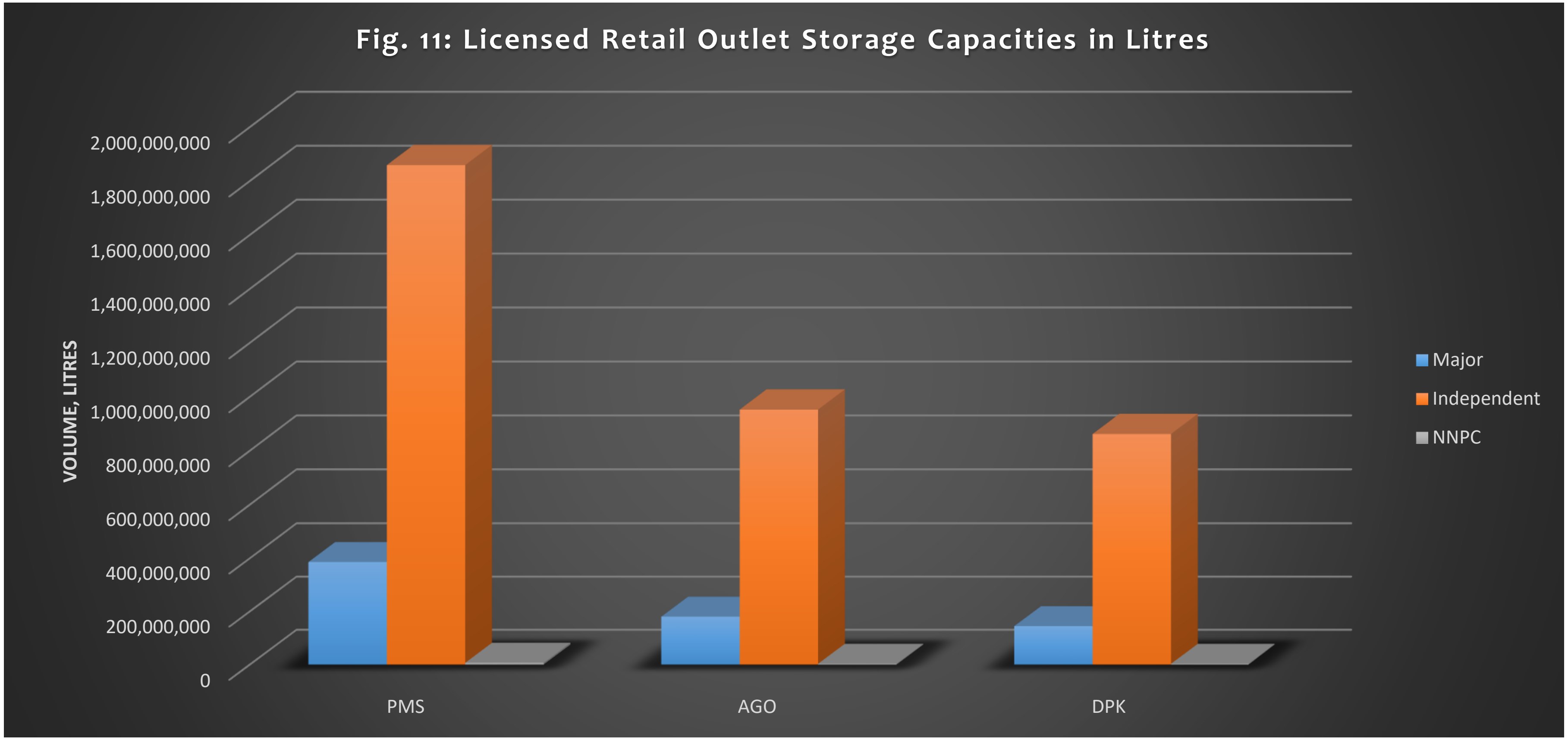


Table 41: Retail Outlets Summary - Storage Capacities of Retail Outlets by States

	States	Majors			Independent			NNPC			TOTAL		
		PMS(ltrs)	AGO (ltrs)	DPK (ltrs)	PMS (ltrs)	AGO (ltrs)	DPK (ltrs)	PMS	AGO	DPK	PMS (ltrs)	AGO (ltrs)	DPK (ltrs)
1	Abia	5,839,060	2,395,780	2,021,420	65,190,259	30,453,646	26,503,875	200,000	100,000	100,000	71,229,319	32,949,426	28,625,295
2	Abuja	16,536,100	5,400,050	4,690,950	29,258,509	11,372,800	9,376,700	200,000	100,000	100,000	45,994,609	16,872,850	14,167,650
3	Adamawa	8,073,500	3,877,300	3,760,700	31,676,800	17,049,200	16,528,700	200,000	100,000	100,000	39,950,300	21,026,500	20,389,400
4	Akwa-Ibom	2,329,260	911,480	831,830	53,346,273	25,808,934	25,061,915	200,000	100,000	100,000	55,875,533	26,820,414	25,993,745
5	Anambra	3,930,660	1,638,080	1,349,520	58,266,800	27,321,170	22,701,480	200,000	100,000	100,000	62,397,460	29,059,250	24,151,000
6	Bauchi	5,266,680	2,219,200	1,968,140	23,643,560	12,056,212	11,141,210	200,000	100,000	100,000	29,110,240	14,375,412	13,209,350
7	Bayelsa	683,000	286,500	573,000	1,026,500	4,194,000	4,216,000	200,000	100,000	100,000	1,909,500	4,580,500	4,889,000
8	Benue	7,097,800	3,367,860	2,901,580	33,128,660	16,936,250	15,202,180	200,000	100,000	100,000	40,426,460	20,404,110	18,203,760
9	Borno	7,185,350	3,334,420	2,618,320	74,106,500	39,957,300	36,344,300	200,000	100,000	100,000	81,491,850	43,391,720	39,062,620
10	Cross River	4,508,160	1,864,480	1,947,980	24,547,100	11,556,370	10,627,410	200,000	100,000	100,000	29,255,260	13,520,850	12,675,390
11	Delta	6,740,600	3,224,940	2,694,980	58,998,220	31,217,500	27,511,020	200,000	100,000	100,000	65,938,820	34,542,440	30,306,000
12	Ebonyi	772,690	635,560	426,860	10,720,158	5,994,140	5,118,850	200,000	100,000	100,000	11,692,848	6,729,700	5,645,710
13	Edo	4,350,415	1,975,960	1,581,200	28,767,965	17,133,500	13,640,580	200,000	100,000	100,000	33,318,380	19,209,460	15,321,780
14	Ekiti	1,972,910	673,240	753,120	9,679,650	5,017,710	4,704,540	200,000	100,000	100,000	11,852,560	5,790,950	5,557,660
15	Enugu	5,262,964	1,971,560	1,660,180	40,026,135	21,345,158	17,612,097	200,000	100,000	100,000	45,489,099	23,416,718	19,372,277
16	Gombe	4,916,900	2,468,920	2,217,260	18,887,400	9,120,600	8,832,890	200,000	100,000	100,000	24,004,300	11,689,520	11,150,150
17	Imo	7,130,630	3,451,840	3,017,260	80,528,693	38,015,085	32,282,780	200,000	100,000	100,000	87,859,323	41,566,925	35,400,040
18	Jigawa	3,314,940	1,877,000	1,574,660	24,292,500	13,715,000	12,771,000	200,000	100,000	100,000	27,807,440	15,692,000	14,445,660
19	Kaduna	19,619,260	7,773,160	7,054,030	78,442,128	44,835,880	41,039,780	200,000	100,000	100,000	98,261,388	52,709,040	48,193,810
20	Kano	23,380,322	9,356,986	10,167,530	109,242,314	50,337,294	43,976,980	200,000	100,000	100,000	132,822,636	59,794,280	54,244,510
21	Kastina	5,117,460	2,235,960	2,020,400	49,080,588	24,064,400	22,395,170	200,000	100,000	100,000	54,398,048	26,400,360	24,515,570
22	Kebbi	6,599,050	3,466,080	3,254,500	50,390,000	25,812,500	25,191,500	200,000	100,000	100,000	57,189,050	29,378,580	28,546,000
23	Kogi	3,402,700	1,709,460	1,692,280	39,293,790	20,331,440	18,662,520	200,000	100,000	100,000	42,896,490	22,140,900	20,454,800
24	Kwara	13,587,459	5,633,570	4,646,156	68,052,760	38,320,680	34,816,132	200,000	100,000	100,000	81,840,219	44,054,250	39,562,288
25	Lagos	98,035,399	34,759,600	30,794,380	145,415,360	66,323,160	57,580,780	200,000	100,000	100,000	243,650,759	101,182,760	88,475,160
26	Nassarawa	5,059,170	2,633,000	2,333,000	33,042,160	16,790,440	15,062,280	200,000	100,000	100,000	38,301,330	19,523,440	17,495,280
27	Niger	8,551,000	3,863,860	3,544,470	44,658,960	24,885,089	22,720,610	200,000	100,000	100,000	53,409,960	28,848,949	26,365,080
28	Ogun	23,802,920	10,774,780	9,228,300	150,428,550	84,314,080	75,838,760	200,000	100,000	100,000	174,431,470	95,188,860	85,167,060
29	Ondo	7,018,650	23,291,840	2,961,260	35,123,510	16,875,350	17,309,450	200,000	100,000	100,000	42,342,160	40,267,190	20,370,710
30	Osun	6,424,260	2,498,800	2,558,280	53,623,220	29,035,780	28,281,140	200,000	100,000	100,000	60,247,480	31,634,580	30,939,420
31	Oyo	18,632,700	7,056,580	6,833,560	101,417,480	54,526,770	50,662,880	200,000	100,000	100,000	120,250,180	61,683,350	57,596,440

	States	Majors			Independent			NNPC			TOTAL		
		PMS(ltrs)	AGO (ltrs)	DPK (ltrs)	PMS (ltrs)	AGO (ltrs)	DPK (ltrs)	PMS	AGO	DPK	PMS (ltrs)	AGO (ltrs)	DPK (ltrs)
32	Plateau	11,040,956	5,213,980	4,009,540	30,620,495	15,794,671	14,189,540	200,000	100,000	100,000	41,861,451	21,108,651	18,299,080
33	Rivers	20,887,730	8,430,796	7,927,392	82,069,609	38,954,866	35,496,328	200,000	100,000	100,000	103,157,339	47,485,662	43,523,720
34	Sokoto	6,032,000	3,248,000	2,929,000	42,683,000	20,436,000	19,236,300	200,000	100,000	100,000	48,915,000	23,784,000	22,265,300
35	Taraba	6,158,814	3,895,112	3,331,400	38,578,900	20,940,500	18,945,100	200,000	100,000	100,000	44,937,714	24,935,612	22,376,500
36	Yobe	4,406,200	2,194,200	2,006,000	24,130,900	14,305,500	13,116,800	200,000	100,000	100,000	28,737,100	16,599,700	15,222,800
37	Zamfara	2,933,910	1,434,000	1,312,510	17,266,000	8,043,000	7,800,810	200,000	100,000	100,000	20,399,910	9,577,000	9,213,320
Total		386,601,579	181,043,934	145,192,948	1,859,651,406	953,191,975	862,500,387	7,400,000	3,700,000	3,700,000	2,253,652,985	1,137,935,909	1,011,393,335



4.2.6 Petrochemicals

Table 42: Petrochemical Plants

S/N	Plant Location	Ownership	Processing Plant & Capacity		Feedstock	Products
			TYPE	MTPA		
1	Warri, Delta State	NNPC	Polypropylene (PP)	35,000	Propylene-rich Feed (PRF)	Polypropylene (PP)
			Carbon Black (CB)	18,000	Decant oil	Carbon Black (CB)
2	Kaduna, Kaduna State	NNPC	Linear Alkyl Benzene (LAB)	30,000	i. Raw kerosene	i. Linear Alkyl Benzene (LAB)
					ii. Reformate	ii. Heavy 2
						iii. Kero solvent
3	Eleme, Rivers State	i. Indorama	Polypropylene (PP)	120,000	i. Propylene-rich Feed (PRF)	i. Polypropylene Homo-polymer (PPHP)
		ii. Federal Govt.			ii. Natural Gas Liquid (NGL)	ii. Polypropylene Co-polymer (PPCP)
		iii.Rivers State Govt.	Polyethylene (PE)	360,000		i. High Density Polyethylene (HDPE)
						ii. Linear Low Density Polyethylene (LLDPE)
			Olefin	440,000		Olefin

4.2.7 Lubricant Blending Plants

Table 43: List of Licensed Base Oil Marketers and Storage Capacities.

S/N	Marketer Category	Name Of Company	Location	Base Oil Storage Capacity (Liters)
1	Majors	Total Nigeria Plc	Apapa, Lagos	9,825,400
2		MRS Oil Nigeria Plc	Apapa, Lagos	11,000,000
3		Conoil Plc	Apapa, Lagos	9,075,130
4		Mobil Oil Nig. Plc	Apapa, Lagos	7,080,000
5		Forte Oil Plc (Forte)	Apapa, Lagos	8,000,000
6		Total Nigeria Plc	Koko, Delta	10,050,000
7		Total Nig Plc	Kudenda, Kaduna South	1,300,000
8		Oando Plc II	Chikun, Kaduna.	7,200,000
9		Oando Plc I	Rido Chikun, Kaduna	8,067,170
		Subtotal		**71,597,700**
10	Independent	Grand Petroleum & Chemicals Ltd.	Amuwo-Odofin, Lagos	10,000,000
11		Bestlub International Nig.Ltd.	Apapa Lagos	360,000
12		Fudia Petrochemical Ltd.	Isolo Lagos	540,000
13		Honeywell Oil & Gas Ltd.	Ilupeju, Lagos	165,000
14		Highlight Oil and Gas Limited	Agbodi Village, Ogun	375,000
15		Eterna Industries Plc.	Sagamu, Ogun	935,000
16		Ascon Oil Company Ltd	Magboro, Ifo, Ogun	335,000
17		Moye Oil & Chemical Limited	Osogbo, Osun	926,179
18		Lubcon Limited	Ilorin west, Kwara	5,000,000
19		Equatorial Pet. Coastal & Process Ltd.	Ilorin, Kwara	2,000,000

S/N	Marketer Category	Name Of Company	Location	Base Oil Storage Capacity (Liters)
20		Zico Pet. Marketing Company	Benin, Edo	226,597
21		Specialty Oil Company Nig Ltd	Onitsha,.Anambra	425,600
22		Dozzy Oil & Gas Ltd	Onitsha, Anambra	3,000,000
23		Ibeto Petrochemicals Industry Limited	Nnewi, Anambra	1,200,000
24		Whiz Products W.A Limited	Isuofia, Anambra	900,000
25		Abbnox Oil Limited	Ogbaru, Anambra	99,000
26		A-Z Petroleum Products Limited	Nnewi, Anambra	2,110,000
27		Jezco Oil Nigeria Ltd	Awka, Anambra	360,000
28		Tonimas Nigeria Limited	Arongwa, Abia	4,427,096
29		Dezern Nigeria Limited	Okigwe, Imo	990,000
30		Onyx Crown Oil Limited	Owerri West, Imo	355,000
31		Ronad Oil and Gas (WA) Ltd	Ideato North, Imo	6,684,000
32		Ammasco International Limited	Bompai Ind. Area, Kano	6,600,000
33		Veee Oil resources Limited	Independence Road, Kano	264,000
34		T.Y Chemicals Limited	Chikun, Kaduna	700,000
		Subtotal		**48,977,472**
Grand Total				**120,575,172**

4.3 GAS

4.3.1 Domestic Gas Supply Obligation (DGSO)

Table 44: Domestic Gas Supply Obligation Performance

Year		SPDC	CNL	Exxon Mobil	NAOC	Total/ EPNL	NPDC	Addax/ NNPC PSC	Pan Ocean	SEPLAT
2008	Obligation	849	351	459	245	217	45	0	65	0
	Supply	355	185	0	176	0	0	0	0	0
	% Perf	41.81	52.71	0	71.84	0	0	N/A	0	N/A
2009	Obligation	1100	455	517	328	270	120	140	65	0
	Supply	379	185	0	188	0	0	0	0	0
	% Perf	34.45	40.66	0	57.32	0	0	0	0	N/A
2010	Obligation	1364	564	640	415	327	120	140	65	0
	Supply	530	168	0	97	0	0	0	0	0
	% Perf.	38.86	29.79	0	23.37	0	0	0	0	N/A
2011	Obligation	1559	644	732	479	368	120	140	65	0
	Supply	553	268	0	101	0	0	0	44.4	0
	% Perf.	35.47	41.61	0	21.09	0	0	0	68.31	N/A
2012	Obligation	1753	725	823	544	410	120	144	65	0
	Supply	538	358	0	120	0	65	0	36	0
	% Perf.	30.69	49.38	0	22.06	0	54.17	0	55.38	N/A
2013	Obligation	1948	805	915	608	452	120	160	65	0
	Supply	156.69	318.28	0	87.29	0	321	0	17.39	130
	% Perf.	8.04	39.54	0	14.36	0	267.5	0	26.75	0
2014	Obligation	550	500	400	300	250	700	0	20	150
	Supply	209.4	494	0	95	0	344	0	12.86	125
	% Perf.	38.07	98.8	0	31.67	0	49.14	N/A	64.3	83.33
2015	Obligation	750	500	400	350	280	800	0	20	210
	Supply	128.35	436	0	101.93	0	450	0	28.58	172.5
	% Perf.	17.11	87.2	0	29.12	0	56.25	N/A	142.9	82.14

Year		Monipulo	Niger Delta	Platform	Frontier	Universal	AMNI	CONOIL	CONOG	Brittania U	Dubri	NNPC PSC	T
2008	Obligation												
	Supply												
	% Perf												3
2009	Obligation												
	Supply												
	% Perf												
2010	Obligation												
	Supply												
	% Perf.												
2011	Obligation												
	Supply												9
	% Perf.												[illegible]
2012	Obligation												
	Supply												
	% Perf.												[illegible]
2013	Obligation												
	Supply												103
	% Perf.												[illegible]
2014	Obligation	11	5	20	7.5	5	8	5	5	1	3	1000	39
	Supply	0	0	0	19.01	0	0	0	0	0	0	0	129
	% Perf.	0	0	0	253.47	0	0	0	0	0	0	0	[illegible]
2015	Obligation	13	7	23	9	7	8	6	5	1	40	1000	
	Supply	0	0	0	81.49	0	0	0	0	0	0	0	139
	% Perf.	0	0	0	905.44	0	0	0	0	0	0	0	

* All values are in MMSCF/D
* DSO was allocated to the NNPC PSC in 2014

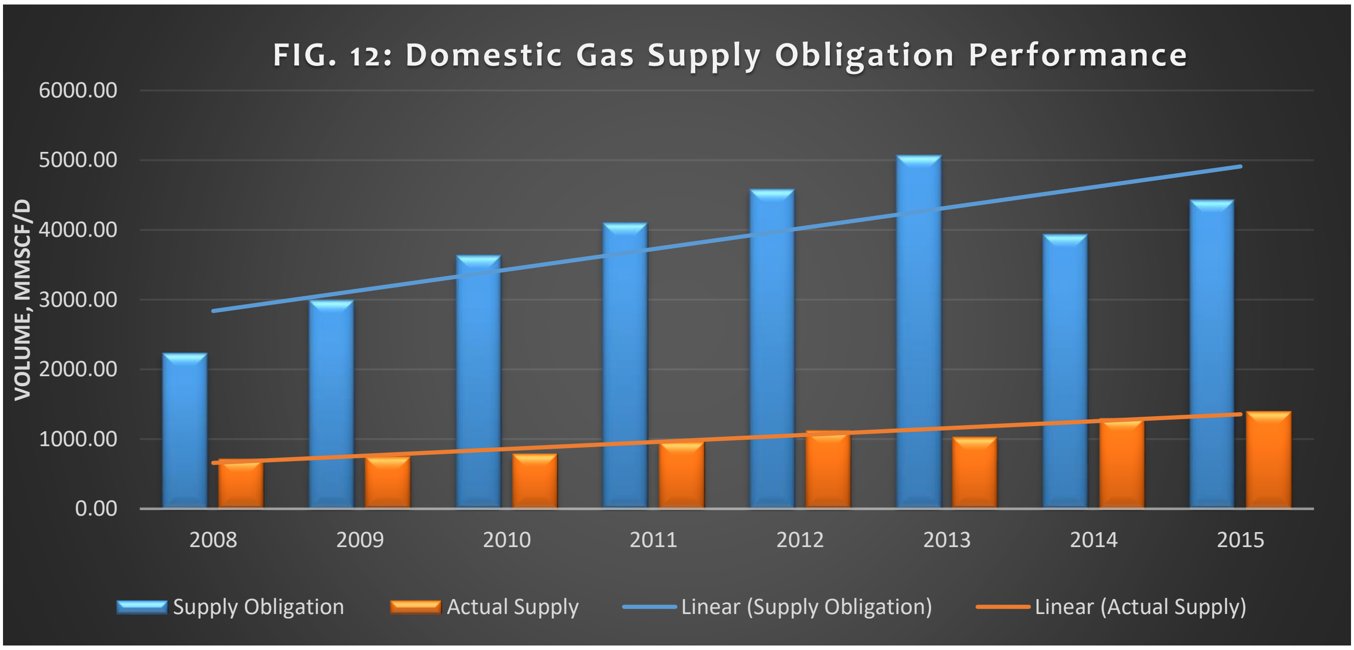


Fig. 12 depicts the combined performance of the Industry in the Domestic Gas supply Obligation administered to Operators for 2008-2015 period in line with the provisions of the Nigerian Domestic Gas Supply and Pricing Regulations (NDGSR), 2005. The plot shows increasing National Obligation from 2,231 in 2008 to 5,073 MMSCFD in 2013 in line with the projected National Gas Demand for the Strategic Power, Industrial and Commercial sectors at the time . The National DSO for the following period (2014-2018) was thereafter re-calibrated by the Department based on several variables and inputs from the Gas Aggregation Company of Nigeria. This is responsible for the reduction of the National DSO to 3.94 BSCFD in 2014; which will progressively increase to 6.38 BSCFD by 2018. On the average, only about 950 MMSCFD was supplied during the review period with an annual performance ranging between only 20 and 35% as shown in Table 44.

The supply short-fall from operators is as a result of a number of issues spanning lack of commitment of Gas Producers, preference of producers for export market, inadequate pipeline infrastructure, slippages in project execution, budget constraints, failure of commercial negotiations, failure of swap deals, and non- readiness of offtake plants, amongst others.

Table 45: Domestic Gas Supply Obligation From 2014-2016 for E&P Companies

Gas producers	2014 DSO@ 3.9 BSCFD	2015 DSO @ 4.4 BSCFD	2016 DSO @ 5.9 BSCFD
Chevron JV	500	500	470
SPDC JV	550	750	400
NAOC JV	300	350	300

Gas producers	2014 DSO@ 3.9 BSCFD	2015 DSO @ 4.4 BSCFD	2016 DSO @ 5.9 BSCFD
Exxon Mobil JV	400	400	250
TEPNL JV	250	280	180
NPDC	700	800	300
Pan Ocean	20	20	20
SEPLAT	150	210	130
Monipulo	11	13	10
Niger Delta	5	7	7
Platform	20	23	20
Frontier	7.5	9	15
Universal	5	7	5
AMNI	8	8	10
Consolidated	5	6	7
Continental	5	5	0
Brittania-U	1	1	0.7
Dubri	3	4	4
NNPC PSC	1000	1000	350
AITEO			25
Eroton			34
Energia			20
Newcross			10
Total	**3940.5**	**4393**	**2567.7**

4.3.2 Gas Production And Utilization

Table 46: Summary of 2015 Gas Production and Utilization

	Gas Production			Fuel Gas	Gas Lift	Re-Injection	(NGL/LPG)	Sales			Total Gas Utilized	% Utilized	Total Gas Flared	% Flared
	AG	NAG	Total					Gas to NIPP	Local (Others)	NLNG (Export)				
January	158,649.00	102,013.00	260,663.00	12,655.00	6,474.00	63,261.00	7,816.00	4,242.00	30,556.00	105,077.00	230,082.00	88.27	30,581.00	11.73
February	143,227.00	78,115.00	221,342.00	11,726.00	7,291.00	52,581.00	6,017.00	4,524.00	26,392.00	80,216.00	188,765.00	85.28	32,577.00	14.72
March	151,758.00	90,451.00	242,209.00	12,153.00	7,503.00	53,037.00	5,780.00	4,672.00	33,043.00	92,763.00	208,950.00	86.27	33,259.00	13.73
April	142,177.00	99,379.00	241,556.00	13,383.00	7,519.00	58,773.00	7,035.00	4,716.00	28,162.00	92,255.00	214,842.00	88.94	26,714.00	11.06
May	147,632.00	111,019.00	258,650.00	13,855.00	8,261.00	66,551.00	7,087.00	4,429.00	27,577.00	105,961.00	233,721.00	90.36	24,929.00	9.64
June	139,405.00	105,074.00	244,479.00	12,594.00	6,728.00	63,070.00	7,642.00	4,495.00	32,469.00	94,090.00	221,089.00	90.43	23,390.00	9.57
July	149,081.00	119,276.00	268,358.00	13,038.00	6,908.00	69,287.00	7,266.00	4,579.00	39,377.00	102,142.00	242,598.00	90.40	25,760.00	9.60
August	143,941.00	109,568.00	253,509.00	12,739.00	6,680.00	64,304.00	7,493.00	2,119.00	39,286.00	94,049.00	226,669.00	89.41	26,840.00	10.59
September	140,366.00	117,124.00	257,490.00	12,569.00	7,050.00	62,777.00	6,607.00	3,577.00	35,188.00	102,113.00	229,881.00	89.28	27,609.00	10.72
October	145,064.00	113,484.00	258,548.00	13,345.00	7,302.00	61,951.00	8,525.00	4,343.00	32,589.00	102,574.00	230,629.00	89.20	27,919.00	10.80
November	137,457.00	114,675.00	252,132.00	12,240.00	6,285.00	63,739.00	6,924.00	3,141.00	36,184.00	100,769.00	229,280.00	90.94	22,852.00	9.06
December	141,793.00	102,451.00	244,244.00	12,502.00	6,395.00	63,698.00	7,720.00	2,291.00	37,309.00	85,826.00	215,741.00	88.33	28,503.00	11.67
Total	1,740,550.00	1,262,629.00	3,003,179.00	152,799.00	84,396.00	743,029.00	85,912.00	47,128.00	398,132.00	1,157,835.00	2,672,247.00	88.98	330,933.00	11.02

All volumes are in MMSCF

Table 47: Summary of Gas Production and Utilization

	Gas Production			Fuel Gas	Gas Lift	Re-Injection	(NGL/LPG)	Sales		Total Gas Utilized	% Utilized	Total Gas Flared	% Flared
	AG	NAG	Total					Domestic Sales	NLNG (Export)				
2001	1,551,912,250	391,683,723	1,943,595,973	80,269,287	26,142,438	336,523,011	52,033,317	141,067,615	306,812,223	942,847,891	48.51	1,000,748,082	51.49
2002	1,340,591,744	410,542,712	1,751,134,456	75,008,164	28,948,137	306,475,680	27,435,764	111,435,703	280,903,198	830,206,646	47.41	920,927,810	52.59
2003	1,387,104,460	516,223,961	1,903,328,421	71,590,002	28,973,434	272,481,721	36,648,692	214,182,219	477,983,042	1,101,859,110	57.89	801,469,311	42.11
2004	1,584,922,039	525,256,005	2,110,178,044	83,627,321	26,611,460	398,179,304	43,181,065	262,897,801	444,033,291	1,258,530,242	59.64	851,647,802	40.36
2005	1,626,444,779	508,893,962	2,135,338,741	88,786,060	43,781,302	402,390,225	57,345,709	234,780,140	502,737,873	1,329,821,309	62.28	805,517,432	37.72
2006	1,542,136,671	747,754,914	2,289,891,585	89,025,509	59,662,180	391,968,180	44,295,798	326,264,627	558,246,752	1,469,463,046	64.17	820,428,539	35.83
2007	1,599,190,078	1,007,675,245	2,606,865,323	99,705,731	49,204,125	485,642,132	31,751,276	279,970,609	843,948,502	1,790,222,375	68.67	816,642,948	31.33

	Gas Production			Fuel Gas	Gas Lift	Re-Injection	(NGL/LPG)	Sales		Total Gas Utilized	% Utilized	Total Gas Flared	% Flared
	AG	NAG	Total					Domestic Sales	NLNG (Export)				
2008	1,593,835,503	986,561,109	2,580,396,612	100,058,117	64,822,893	507,947,176	35,720,163	232,164,155	968,898,071	1,909,610,576	74.00	670,786,036	26.00
2009	1,582,137,295	645,978,947	2,228,116,241	108,676,564	58,655,769	599,618,597	46,874,213	237,287,426	640,635,350	1,691,747,917	75.93	536,368,324	24.07
2010	1,865,159,719	954,522,126	2,819,681,845	133,431,927	65,128,415	751,705,008	46,591,153	285,802,520	992,293,989	2,274,953,012	80.68	544,728,832	19.32
2011	1,839,230,068	1,127,423,119	2,966,653,187	139,425,042	91,970,753	703,579,860	68,391,658	344,481,029	1,114,860,569	2,462,708,911	83.01	503,944,277	16.99
2012	1,872,875,894	1,123,160,177	2,996,036,072	146,168,448	88,839,035	724,648,283	67,756,862	372,044,969	1,131,321,835	2,530,779,433	84.47	465,256,639	15.53
2013	1,786,603,702	1,025,377,681	2,811,981,383	152,134,470	54,264,412	758,079,412	63,286,195	391,435,743	964,809,782	2,384,010,015	84.78	427,971,368	15.22
2014	1,880,374,658	1,168,171,828	3,048,546,486	154,037,918	87,130,036	808,503,665	56,785,229	424,738,371	1,123,511,431	2,654,706,650	87.08	393,839,836	12.92
2015	1,740,550,000	1,262,629,000	3,003,179,000	152,799,000	84,396,000	743,029,000	85,912,000	445,260,000	1,157,835,000	2,672,247,000	88.98	330,933,000	11.02

All volumes are in MSCF

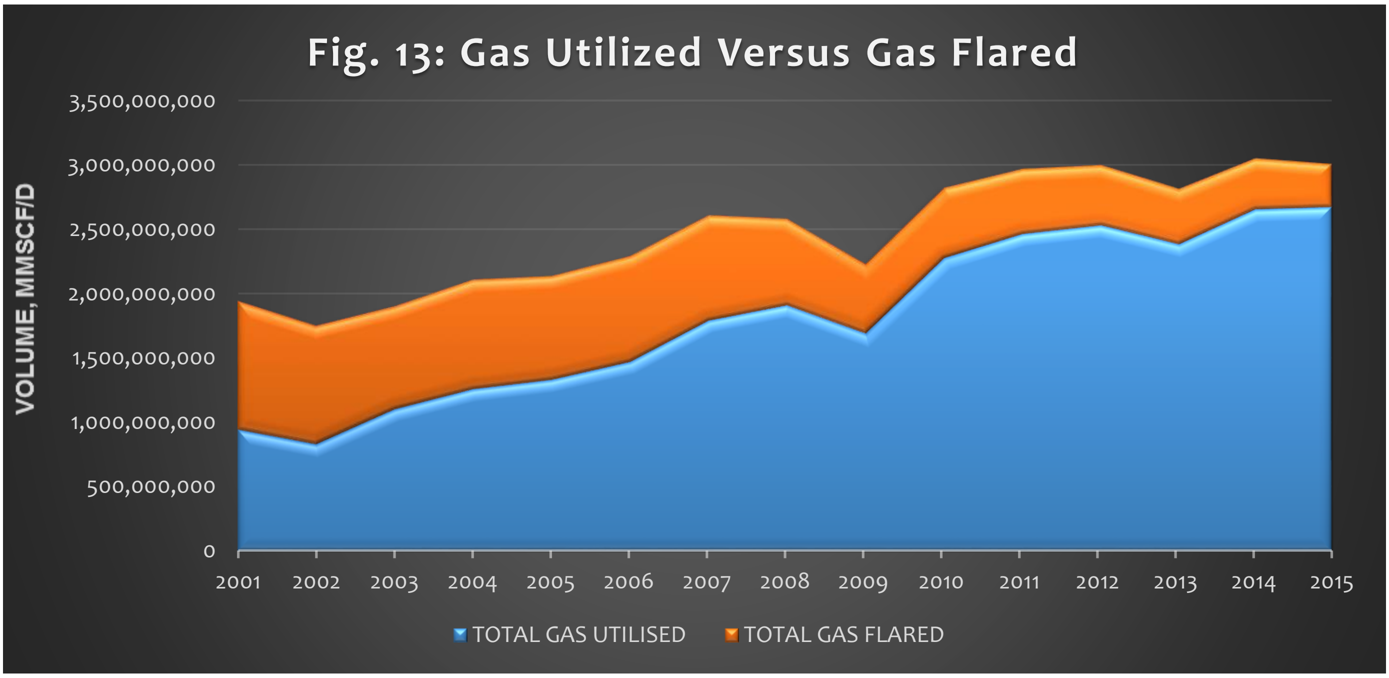


Fig. 13: Gas Utilized Versus Gas Flared
VOLUME, MMSCF/D
3,500,000,000
3,000,000,000
2,500,000,000
2,000,000,000
1,500,000,000
1,000,000,000
500,000,000
0
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
TOTAL GAS UTILISED
TOTAL GAS FLARED

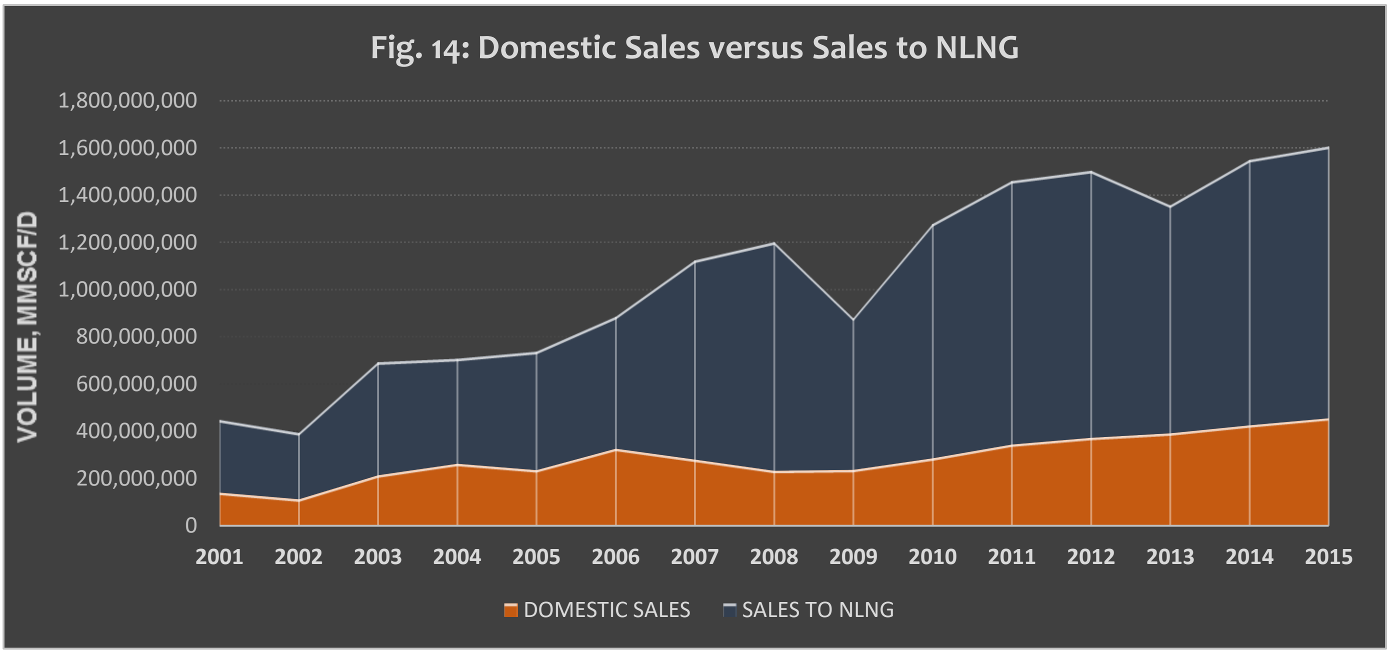


Fig. 14: Domestic Sales versus Sales to NLNG
VOLUME, MMSCF/D
1,800,000,000
1,600,000,000
1,400,000,000
1,200,000,000
1,000,000,000
800,000,000
600,000,000
400,000,000
200,000,000
0
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
DOMESTIC SALES
SALES TO NLNG

4.3.3 Gas Infrastructures

Table 48: Major Gas Facilities

	Operating Company	Facility	Type	Location	Terrain	Date Commissioned / Installed	Designed Capacity (MMSCF/D)	Operating Capacity (MMSCF/D)
1	ADDAX	Izombe Gas Plant	Gas Re-injection plant (Old Plant)	Izombe (OML 124)	Land	1984	16.78 @ 3500 psi	13.52 @ 3500psi
2		Izombe Gas Plant	Gas Flare Down Purpose (New Plant)	Izombe (OML 124)	Land	Dec. 3, 2009	48 @ 3500psi	32 @ 3500psi
3	CHEVRON	EGP 1	Gas Plant	Escravos	Land	May-97	165	120-135
4		Expansion on T1			Land	Apr-99	120	100
5		EGP2			Land	Apr-10	395	375-380
6		Okan GGCP	Gas Gathering and Compression	Okan Field South Offshore Area	Offshore	May-97	265	263\ (240 to EGP: 23 to GL)
7		Meji GGCP	Gas Gathering and Compression	Meji Field South Offshore Area	Offshore		70	65
8		Meren Gas Compression platform	Gas Gathering and Compression	Meren 1 North Offshore Area	Offshore	April 1000	24	21.527
11	EXXONMOBIL	Erha FPSO	Gas Compression	Erha FPSO	Deep Offshore	Mar-06	340	360
12		Erha FPSO	Gas Turbine Generator	Erha FPSO	Deep Offshore	Mar-06	20	20
13		Oso NGL Extraction RX Platform	NGL Extraction	Oso	Offshore	Aug-98	600	
14		EAP RX	NGL Extraction	EAP Field	Offshore	Mar-08	610	
15		Bonny River Terminal I and II	NGL	Bonny	Land	8/1/1998, March 2008	85 KBD NGL	
16	NAOC	Obiafu / Obricom Gas Plant	Gas Treatment Plant	Omoku Rivers State	Land	1994	1200	890
17		Kwale Gas Plant	Gas & Oil Processing Plant	Kwale Delta State	Land	1985	375	252
18	NPDC	Afiesere NGC compressor station	Compressor station	Afiesere	Swamp	-	8	Non Operational
19		Afiesere Gas lift compressor staion	Compressor station	Afiesere	Swamp	1997	21	8
20		EGWA 1 FS Booster compressor station	Compressor station	Egwa	Swamp	2002	10	Non Operational

	Operating Company	Facility	Type	Location	Terrain	Date Commissioned / Installed	Designed Capacity (MMSCF/D)	Operating Capacity (MMSCF/D)
21		EGWA 2 FS Booster compressor station	Compressor station	Egwa	Swamp	2002	10	Down
22		Eriemu NGC compressor station	Compressor station	Eriemu	Land	2002	10	Non Operational
23		Jones creek NGC compressor station	Compressor station	Jones Creek	Swamp	-	18	Non Operational
24		Kokori NGC Compressor station	Compressor station	Kokori	Land	-	8	Non Operational
25		Odidi AGG Plant	AGG Plant	Odidi	Swamp	2001	80	Non Operational
26		Odidi NGC Compressor station	Compressor station	Odidi	Swamp	-	18	Non Operational
27		Olomoro Oleh NGC Compressor Station	Compressor Station	Olomoro-Oleh	Land	-	3.3	Non Operational
28		Oweh NGC Compressor Station	Compressor Station	Oweh	Land	-	5.5	Non Operational
29		Ughelli East NAG Plant	NAG Plant	Ughelli East	Land	1966	150	90
30		Utorogu NAG Plant	NAG Plant	Utorogu	Land	1988	360	360
31		Utorogu NGC Compressor Station	Compressor Station	Utorogu	Land	2004	7	7
32		Uzere West NGC Compressor Station	Compressor Station	Uzere West	Land	-	10	Non Operational
33		Oredo Gas Handling Plant	Processing Plant	Oredo	Land	Q2 2010	100	
34		Egbema West AG Solution Plant	Processing Plant	Egbema West	Land	Q1 2011	6	
35	SEPLAT	Oben NAG Plant	NAG Plant Oben	Oben	Land	1982	90	90
36		Oben NGC Compressor Station	Compressor station	Oben	Land	1982	16	16
37		Sapele NAG Plant	NAG Plant	Sapele	Land	1978	120	120
38		Sapele NGC Compressor Station	Compressor Station	Sapele	Land	2003	24	24
39	SEPRO/TUPNI	Akpo	FPSO	OML 130	Deep Offshore	Mar-09	530	485 - 570
40	SPDC	Agbada AGG Plant	AGG Plant	Agbada	Land	2002	58	58
41		Agbada 1 FS Booster compressor station	Compressor station	Agbada	Land	2002	12	12
42		Alakiri NAG Plant	NAG Plant	Alakiri	Swamp	1987	120	120
43		Awoba AGG Plant	AGG Plant	Awoba	Swamp	2004	50	Non Operational

	Operating Company	Facility	Type	Location	Terrain	Date Commissioned / Installed	Designed Capacity (MMSCF/D)	Operating Capacity (MMSCF/D)
44		Batan FS Booster compressor station	Compressor station	Botan	Swamp	2002	10	Non Operational
45		Belema FS Booster compressor station	Compressor station	Belema	Swamp	2002	12	12
46		Belema AGG Plant	AGG Plant	Belema North	Swamp	2002	55	55
47		Bonny NAG Plant	NAG Plant	Bonny	Swamp	2002	450	450
48		Cawthorne Channel AGG Plant	AGG Plant	Cawthorne Channel	Swamp	2005	150	150
49		Ekulama 1 FS Booster compressor station	Compressor station	Ekulama	Swamp	2001	12	12
50		Ekulama 2 FS Booster compressor station	Compressor station	Ekulama	Swamp	2001	12	12
51		Escravos Beach FS NGC compressor station	NGC compressor station	Escravos	Swamp	-	18	Non Operational
52		Gbaran Central Processing Facility	Integrated Oil and Gas Facilitiy	Gbaran	Land	2010	1200	
53		Imo River 2 FS Booster compressor station	compressor station	Imo River	Land	2002	12	12
54		Imo River 3 FS Booster compressor station	Compressor station	Imo River	Land	2002	12	12
55		Imo River AGG Plant	AGG Plant	Imo River 1	Land	2002	65	65
56		Krakama FS Booster compressor station	AGG Plant	Krakama	Swamp	-	5	Not Commissioned
57		Nembe Creek 1 FS Booster compressor station	Compressor station	Nembe Creek	Swamp	2001	12	4
58		Nembe Creek 2 FS Booster compressor station	Compressor station	Nembe Creek	Swamp	2001	12	4
59		Nembe Creek 3 FS Booster compressor station	Compressor station	Nembe Creek	Swamp	2001	6	4
60		Nembe Creek 4 FS Booster compressor station	Compressor station	Nembe Creek	Swamp	2001	6	4

	Operating Company	Facility	Type	Location	Terrain	Date Commissioned / Installed	Designed Capacity (MMSCF/D)	Operating Capacity (MMSCF/D)
61		Nkali FS Booster compressor station	Compressor station	Nkali	Land	2003	12	12
62		Obigbo North AGG Plant	AGG Plant	Obigbo North	Land	1989	54	54
63		Obigbo North NAG Plant	NAG Plant	Obigbo North	Land	1984	90	45
64		Odeama Creek FS Booster compressor station	Compressor station	Odeama Creek	Swamp	2002	6	Not Commissioned
65		Oguta Gas Injection Plant	Gas Injection Plant	Oguta	Land	Recommissioned 2004	40	13
66		Okoloma NAG Plant	NAG Plant	Okoloma	Swamp	2008	240	240
67		Santa Barbara FS Booster compressor station	Compressor Station	Santa Barbara	Swamp	2001	8	8
68		Soku FS Booster compressor station	Compressor Station	Soku	Swamp	2002	5	5
69		Soku NLNG Gas Supply Plant	AG/NAG Plant	Soku	Swamp	1999	1100	1100
70	TOTAL	Amenam kpono AG Plant	AG Plant	Amenam	Offshore	2006		
71		Obite AG Plant	AG Plant	Obite – Obagi	Land			
72	XENENERGY	Umutu Gas plant	Gas Processing Plant	Umutu	Land	2011	25	25
73	Niger Delta PET.RES.	Ogbele Gas Processing Plant	Gas Processing Plant	Ogbele	Land	Nov-12	100	

4.3.4 Liquefied Natural Gas (LNG) Plants

Table 49: LNG Plants Details

	Operating Company	Facility	Type	Location	Date Commissioned / Installed	Designed Capacity (MMSCF/D)	Operating Capacity (MMSCF/D)
1	NLNG	Train 1	LNG Liquefaction Train	Bonny	Feb. 2000	502.4	318
2		Train 2	LNG Liquefaction Train	Bonny	Aug. 1999	502.4	379
3		Train 3	LNG Liquefaction Train	Bonny	Nov. 2002	502.4	128
4		Train 4	LNG Liquefaction Train	Bonny	Nov. 2005	634.6	313
5		Train 5	LNG Liquefaction Train	Bonny	Feb. 2006	634.6	403
6		Train 6	LNG Liquefaction Train	Bonny	Dec. 2007	634.6	231

4.3.5 Major Gas Projects

Table 50: Gas Processing Plant Projects

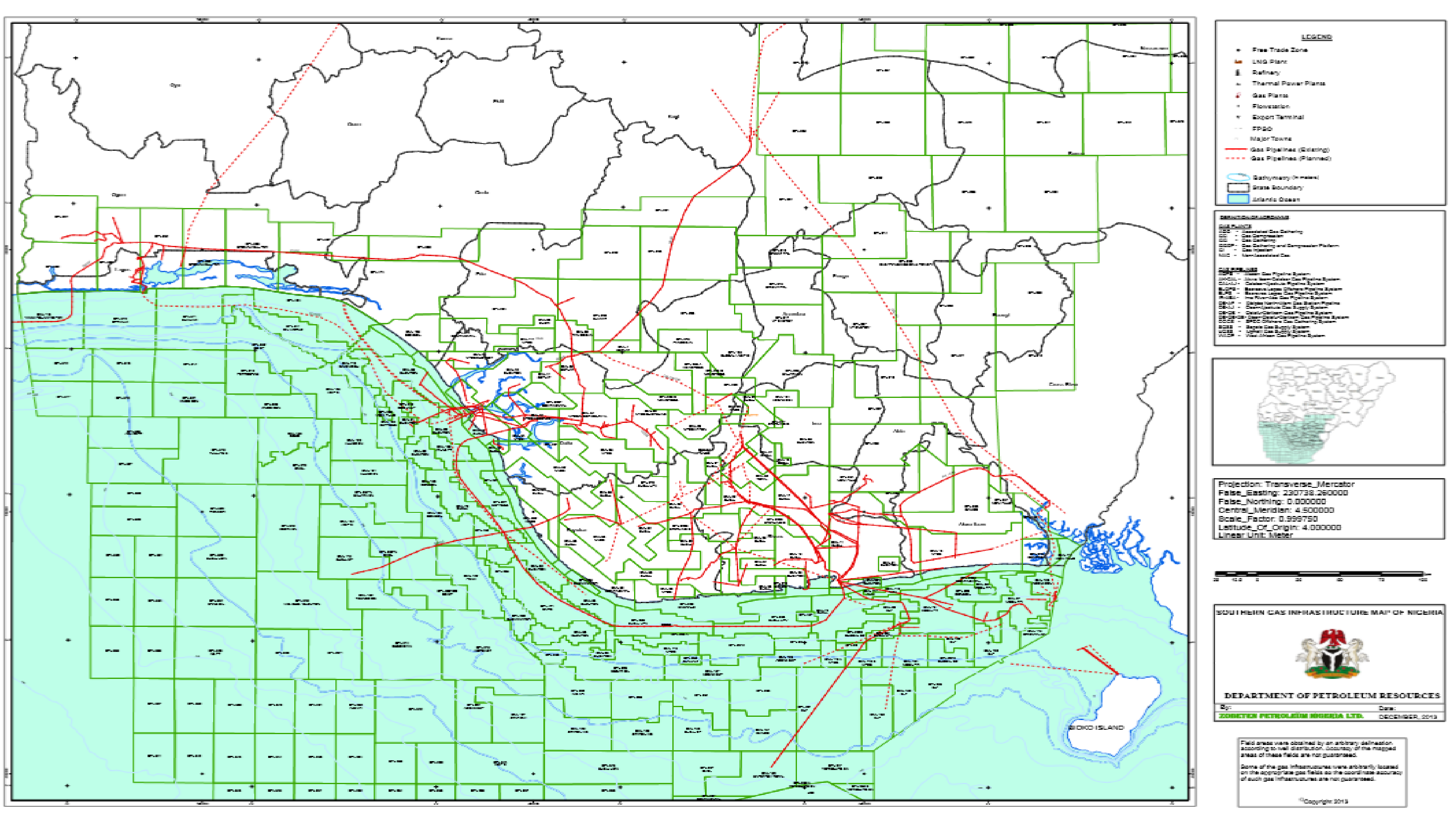
S/No.	Project Title	Company Name	Project Objective(s)	Design Capacity	Location
1	Egbgema West NAG Project	NDPC	Construction of NAG processing facility to deliver NAG to Niger Delta Holding Company	50mmscfd	Egbema field, Rivers State
2	Egbgema West AG Solutions Project		Gather and compress 8mmscfd LP & HP gas from existing flow station, treat to sales gas spec and deliver to EIPP pipeline	8mmscfd	Egbema field, Rivers State
3	Gas Processing Plant Project	PNG Gas	Process associated gas from Asuokpo/Umutu/Egaboma flow station	30mmscfd	Umutu, Egbaoma Rivers State
4	Gas Processing & Gathering Plant Project	Giga Gas	Process and transport produced gas from the SPDC offshore gas gathering to the ELPS	140mmscfd	Forcados, Delta State
5	Liquefied Natural Gas Plant	Greenville	Two trains of liquefaction units, storage and distribution terminal	80mmscfd	Rivers State
6	Urea Fertilizer Plant	Dangote	Process 210mmscfd of natural gas to Urea fertilizer	2.5 MTPA Urea	Lekki Free Trade zone
7	Oben AG Compressor Project	SEPLAT	Gather and compress 30 MMSCFD gas from existing flow station, treat and deliver to the Oben Gas Plant for further processing	30mmscfd	Oben
8	Oben AG Compressor Expansion		Gather and compress additional 20 MMSCFD gas from existing flow station, treat and deliver to the Oben Gas Plant for further processing	20mmscfd	Oben
9	Oben Export Sale Gas Pipeline and Metering Sysytem Project		Proceurement and Installation of 20" Export Sale Gas Pipeline and its Metering Assembly from Oben Gas Plant to NGC Pipeline	Additional Evacuation Capacity from Oben to ELPS	Oben
10	Urea Fertilizer Plant	Indorama	2300mtpd Ammonia plant; 4000 mtpd urea and granulation plant	1.4m mtpa Urea fertilizer	Eleme, PHC
11	Methanol Plant	Quantum	Methanol plant	3000 mtpd	Ibeno, AKS
12	Kwale Flare Down Project	NAOC	Flares-out initiative in Kwale Field	10 mmscfd	Kwale
13	Oshi Flare Down Project		Flares-out initiative in Oshi Field	10-15 mmscfd	Oshi
14	Northern Option Pipeline Project	TOTAL	24"X52Km pipeline takes gas from OUR pipeline tie-in at Rumuji to Imo River and then tie in to NGCnode for onward transmission to Alaoji Power Plant		Owaza & Rumuji
15	OML 58 Upgrade Project		Increase the capacity of Obite Gas Plant from 350 to 530mmscfd to supply the eastern gas market	180mmscfd (Additional capacity)	
16	Obite-Ubeta-Rumuji (OUR) Pipeline Project		Obite-Ubeta-Rumuji pipeline- 42"X45Km pipeline takes gas from Obite gas plant to Rumuji tie-in to the Northern Option Pipeline (NOPL)		
17	Forcados Yokri Integrated Project	SPDC	Complete 2006 abandoned works: AGG; CPF and hook up of 12 wells already drilled		Forkados Yokri

S/No.	Project Title	Company Name	Project Objective(s)	Design Capacity	Location
			Complete New Scope: NAG well of 45 mmscfd and export (45mmscfd+30mmscfd AG) to DOMGAS; Replace Estuary Clusters/Bulklines Enable further development of 233MMboe viz Forcados West, Forcados Water Injection and Further Oil Dev. FYIP + FD projects to infill production 80 - 95 Mboe for the next 10 yrs	45mmscfd + 30mmscfd, 80 - 95mbpd, 233mmboe	
18	Adibawa AGS project	SPDC	Gas Flare Out		Adibawa
19	Afam F5Project	SPDC	Additional gas supply to Afam Power Plant	40mmscfd / 4mbod	Afam
20	Agbada NAG Project	SPDC	Additional gas supply to the Eastern DOMGAS network	80mmscfd	Agbada
21	Alakiri NAG Project	SPDC / EROTON	Drill 2 new wells, hookup and increase compression capacity for additional gas supply for export	120mmscfd	Alakiri
22	Southern Swamp Associated Gas Gathering Project	SPDC	Provide ca. 100MMscfd to DOMGAS market Eliminate routine flaring of AG thus protecting Oil Production Enable growth/Additional reserves	100mmscfd	Tunu
23	Gbaran Infill Project	SPDC	Develop 1.3Tscf of NAG and 13MMbbls of condensate from the Gbaran, Koroama and Epu fields to susteain production to the Gbaran CPF for sales to NLNG T1-6	Ullage filler for Gbaran CPF	Gbaran, Koroama, Epu
24	Kolo Creek to Soku (2B)	SPDC	Develop 1.5Tscf of NAG and 52mmstb of condensate from the Kolo Creek F1 and the F2 reservoir to sustain gas supplies to the Soku gas plant and meet SPDC JV gas supply commitments to NLNG Trains 1 to 6.	Ullage filler for Soku Gas Plant	Soku
25	Soku NAG Compression Project	SPDC	Produce 1Tscf of Gas and 13mmstb of condensate at the rate of 200mmscf/d, locked in Soku due to declining reser voir pressure.	200mmscfd (Compression capacity)	Soku
26	Asa North - Ohaji South (ANOS) Project	SPDC	SPDC is the operator of the unitized asset and the project relies on the completion of the OB3 pipeline.	250mmscfd	Ohaji
27	Gbaran 3A Enwhe	SPDC	Support SPDC's gas supply obligation of 2Bscfd to NLNG; and also grow oil production	Ullage filler for Gbaran CPF	Gbaran area
28	Gbaraan 3A Abasere	SPDC	Support SPDC's gas supply obligation of 2bscfd to NLNG; and also grow oil production.	Ullage filler for Gbaran CPF	Gbaran area
29	Otumara AGS Project	SPDC	Gather flared AG in Otumara & Saghara fields for supply into the DOMGAS system; eliminate flares & protect NFA oil production.	30mmscfd	Otumara
30	Escravos Gas Project Phase 3B Stage 2 - Meren GGCP, Pipelines & PPMods	Chevron Nig. Ltd	Support Chevron's gas supply obligation to the DomGas, WAGP and EGTLof NLNG; and also grow oil production.	120mmscfd	Meren (Offshore)

S/No.	Project Title	Company Name	Project Objective(s)	Design Capacity	Location
31	Sonam Field Development Sonam NWP / Sonam Field Development Pipelines	Chevron Nig. Ltd	Support Chevron's gas supply obligation to the DomGas, WAGP and EGTLof NLNG; and also grow oil production.	300mmscfd	Sonam (Offshore)
32	Makaraba Gas Project	Chevron Nig. Ltd	Support Chevron's gas supply obligation to the DomGas, WAGP and EGTLof NLNG; and also grow oil production.	100mmscfd	Makaraba
33	Abiteye NAG Development Project	Chevron Nig. Ltd	Modifications to Abiteye flow station (Ugrdrade & debottlenecking of the gas conditioning systems).		Abiteye
34	Okan NAG Development Project - Stage 2	Chevron Nig. Ltd	Exploit identified NAG reserves in the Okan area and deliver the reservoir's well fluids (natural gas & condensate) to the existing Escravos Gas Plant	300mmscfd (Ullage filler for EGP)	EGP
		Greenville LNG	Liquefied Natural Gas - 2 trains of 0.25 MTPA LGN liquefaction units, storage and distribution terminal	80 (2 x 40) mmscfd	Rumuji, Emuoha, Rivers state

4.3.6 Gas Pipelines

Fig 15: Gas Pipeline Map



4.4 HEALTH, SAFETY AND ENVIRONMENT

4.4.1 Accident Report

Table 51: Accident Report – Industry-wide (2010-2015)

Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
2010	50	24	26	21	29	6	15	25
2011	53	29	24	19	34	6	13	19
2012	49	27	22	27	22	12	15	35
2013	57	29	28	18	39	7	11	30
2014	40	15	25	15	25	1	14	22
2015	49	24	25	32	17	14	18	86

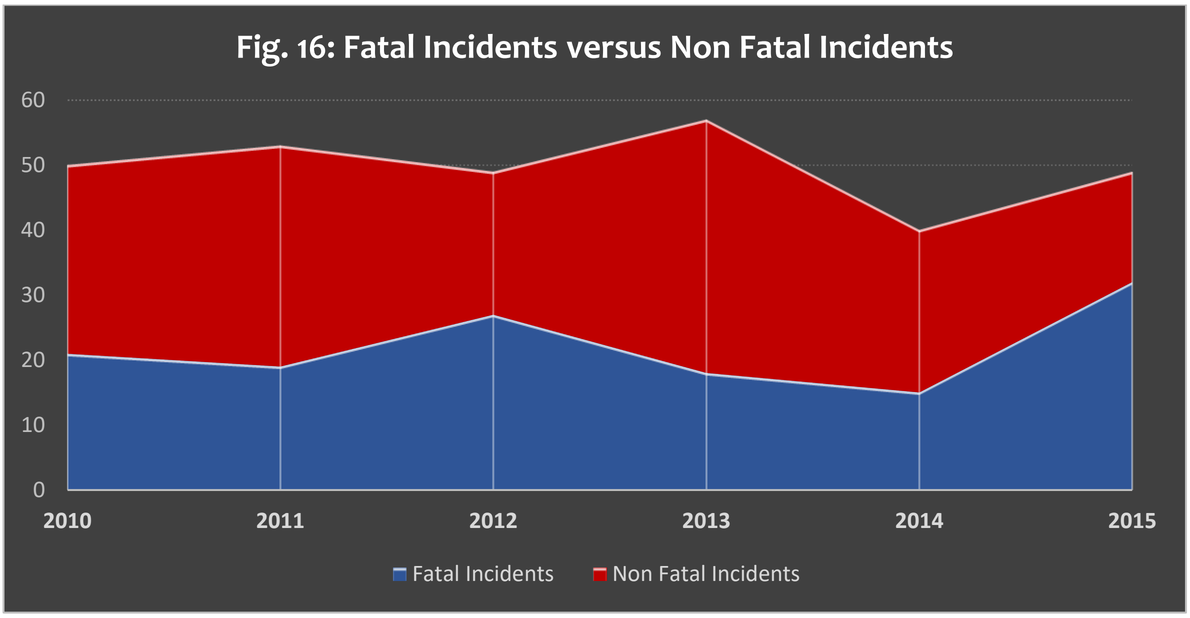


Table 52: Accident Report – Upstream (2010-2015)

Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
2010	41	18	23	17	24	3	14	18
2011	44	21	23	17	27	5	12	17
2012	48	26	22	26	22	11	15	34
2013	45	17	28	16	29	5	11	28
2014	32	8	24	13	19	0	13	14
2015	35	11	24	23	12	6	17	50

Table 53: Accident Report – Downstream (2010-2015)

Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
2010	9	6	3	4	5	3	1	7
2011	9	8	1	2	7	1	1	2

Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
2012	1	1	0	1	0	1	0	1
2013	12	12	0	2	10	2	0	2
2014	8	7	1	2	6	1	1	8
2015	14	13	1	9	5	8	1	36

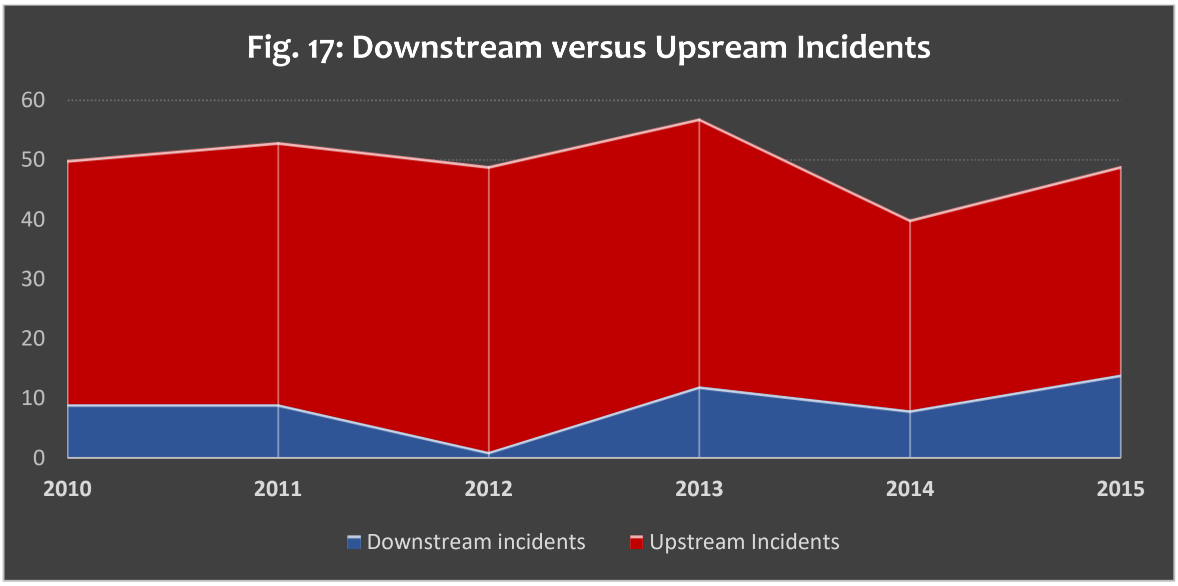


Table 54: 2015 Accident Report – Industry-wide

Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
January	3	2	1	1	2	0	1	1
February	4	2	2	4	0	2	2	8
March	1	1	0	0	1	0	0	0
April	4	2	2	3	1	1	2	6
May	4	3	1	2	2	1	1	5
June	4	4	0	2	2	2	0	4
July	4	2	2	4	0	2	2	23
August	4	1	3	3	1	1	2	8
September	5	3	2	4	1	3	1	9
October	6	0	6	5	1	0	5	5
November	5	2	3	2	3	1	1	5
December	5	2	3	2	3	1	1	12
Total	49	24	25	32	17	14	18	86

Table 55: 2010- 2015 Accident Report – Upstream

Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
2010								
January	2	1	1	2	0	1	1	2
February	5	3	2	1	4	0	1	1
March	3	1	2	0	3	0	0	0
April	5	1	4	2	3	0	2	2
May	4	2	2	2	2	0	2	2
June	3	2	1	1	2	0	1	1
July	6	4	2	3	3	1	2	4
August	4	2	2	0	4	0	0	0
September	3	0	3	2	1	0	2	2
October	2	2	0	1	1	1	0	1
November	3	0	3	2	1	0	2	2
December	1	0	1	1	0	0	1	1
Total	41	18	23	17	24	3	14	18
2011								
Incident Date	**Incidents**	**Work Related**	**Non Work Related**	**Fatal Incidents**	**Non Fatal Incidents**	**Work Related Fatal Incidents**	**Non Work Related Fatal Incidents**	**Fatality**
January	6	3	3	0	6	0	0	0
February	3	1	2	1	2	0	1	1
March	7	5	2	2	5	1	1	2
April	2	2	0	1	1	1	0	1
May	4	1	3	3	1	0	3	3
June	6	0	6	4	2	0	4	4
July	2	1	1	1	1	0	1	1
August	2	1	1	0	2	0	0	0
September	4	1	3	1	3	0	1	1
October	2	1	1	1	1	1	0	1
November	3	2	1	2	1	1	1	2
December	3	3	0	1	2	1	0	1
Total	44	21	23	17	27	5	12	17
2012								
Incident Date	**Incidents**	**Work Related**	**Non Work Related**	**Fatal Incidents**	**Non Fatal Incidents**	**Work Related Fatal Incidents**	**Non Work Related Fatal Incidents**	**Fatality**
January	7	6	1	5	2	4	1	6
February	5	3	2	1	4	0	1	1
March	5	2	3	2	3	0	2	4
April	3	1	2	1	2	0	1	1
May	4	2	2	2	2	1	1	2
June	2	2	0	1	1	1	0	3
July	3	2	1	3	0	2	1	3

August	3	2	1	1	2	1	0	1
September	4	1	3	2	2	0	2	5
October	6	2	4	4	2	0	4	4
November	4	1	3	2	2	0	2	2
December	2	2	0	2	0	2	0	2
Total	48	26	22	26	22	11	15	34
2013								
Incident Date	**Incidents**	**Work Related**	**Non Work Related**	**Fatal Incidents**	**Non Fatal Incidents**	**Work Related Fatal Incidents**	**Non Work Related Fatal Incidents**	**Fatality**
January	4	1	3	2	2	0	2	2
February	3	1	2	2	1	0	2	4
March	1	0	1	1	0	0	1	1
April	2	0	2	1	1	0	1	1
May	4	3	1	1	3	1	0	11
June	5	1	4	1	4	0	1	1
July	2	2	0	1	1	1	0	1
August	3	1	2	0	3	0	0	0
September	3	1	2	1	2	1	0	1
October	9	4	5	3	6	2	1	3
November	4	1	3	1	3	0	1	1
December	5	2	3	2	3	0	2	2
Total	45	17	28	16	29	5	11	28
2014								
Incident Date	**Incidents**	**Work Related**	**Non Work Related**	**Fatal Incidents**	**Non Fatal Incidents**	**Work Related Fatal Incidents**	**Non Work Related Fatal Incidents**	**Fatality**
January	5	0	5	0	5	0	0	0
February	0	0	0	0	0	0	0	0
March	5	2	3	3	2	0	3	3
April	3	0	3	1	2	0	1	1
May	1	1	0	0	1	0	0	0
June	5	0	5	2	3	0	2	2
July	0	0	0	0	0	0	0	0
August	4	0	4	4	0	0	4	4
September	4	2	2	2	2	0	2	3
October	0	0	0	0	0	0	0	0
November	5	3	2	1	4	0	1	1
December	0	0	0	0	0	0	0	0
Total	32	8	24	13	19	0	13	14
2015								
Incident Date	**Incidents**	**Work Related**	**Non Work Related**	**Fatal Incidents**	**Non Fatal Incidents**	**Work Related Fatal Incidents**	**Non Work Related Fatal Incidents**	**Fatality**
January	2	1	1	1	1	0	1	1

February	2	0	2	2	0	0	2	2
March	0	0	0	0	0	0	0	0
April	4	2	2	3	1	1	2	6
May	3	2	1	1	2	0	1	3
June	1	1	0	1	0	1	0	2
July	2	1	1	2	0	1	1	15
August	4	1	3	3	1	1	2	8
September	3	1	2	2	1	1	1	2
October	6	0	6	5	1	0	5	5
November	4	1	3	2	2	1	1	5
December	4	1	3	1	3	0	1	1
Total	35	11	24	23	12	6	17	50

Table 56: 2010- 2015 Accident Report – Downstream

2010								
Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
January	2	1	1	2	0	1	1	2
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	1	1	0	0	1	0	0	0
June	0	0	0	0	0	0	0	0
July	2	1	1	1	1	1	0	4
August	1	1	0	1	0	1	0	1
September	1	1	0	0	1	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	1	0	1	0	1	0	0	0
Total	9	6	3	4	5	3	1	7
2011								
Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
January	2	2	0	0	2	0	0	0
February	2	2	0	0	2	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	2	2	0	1	1	1	0	1
September	1	1	0	0	1	0	0	0
October	1	0	1	1	0	0	1	1

November	1	1	0	0	1	0	0	0
December	0	0	0	0	0	0	0	0
Total	9	8	1	2	7	1	1	2
2012								
Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
January	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	1	1	0	1	0	1	0	1
Total	1	1	0	1	0	1	0	1
2013								
Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
January	1	1	0	0	1	0	0	0
February	0	0	0	0	0	0	0	0
March	2	2	0	0	2	0	0	0
April	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
June	1	1	0	1	0	1	0	1
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	3	3	0	0	3	0	0	0
November	1	1	0	0	1	0	0	0
December	4	4	0	1	3	1	0	1
Total	12	12	0	2	10	2	0	2
2014								
Incident Date	Incidents	Work Related	Non Work Related	Fatal Incidents	Non Fatal Incidents	Work Related Fatal Incidents	Non Work Related Fatal Incidents	Fatality
January	0	0	0	0	0	0	0	0
February	1	1	0	0	1	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0

May	2	2	0	1	1	1	0	1
June	1	1	0	0	1	0	0	0
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	2	2	0	0	2	0	0	0
November	1	0	1	1	0	0	1	7
December	0	0	0	0	0	0	0	0
Total	8	7	1	2	6	1	1	8
				2015				
Incident Date	**Incidents**	**Work Related**	**Non Work Related**	**Fatal Incidents**	**Non Fatal Incidents**	**Work Related Fatal Incidents**	**Non Work Related Fatal Incidents**	**Fatality**
January	1	1	0	0	1	0	0	0
February	2	2	0	2	0	2	0	6
March	1	1	0	0	1	0	0	0
April	0	0	0	0	0	0	0	0
May	1	1	0	1	0	1	0	2
June	3	3	0	1	2	1	0	2
July	2	1	1	2	0	1	1	8
August	0	0	0	0	0	0	0	0
September	2	2	0	2	0	2	0	7
October	0	0	0	0	0	0	0	0
November	1	1	0	0	1	0	0	0
December	1	1	0	1	0	1	0	11
Total	14	13	1	9	5	8	1	36

**Work related incidents in this context, refer to incidents that occur in the course of direct work; slips, trips and falls that occur whilst working are common examples.

**Non work related incidents include road traffic accidents (conveying workers) and natural causes.

[1] Petroleum tanker road accidents are not included in the reports.

4.4.2 Spill Incidence Report

Table 57: Spill Incidence Summary

	Number Of Spills	Quantity Spilled (Barrels)
2010	537	17,658.10
2011	673	66,906.84
2012	844	17,526.37
2013	522	4,066.20
2014	1087	10,302.16
2015	753	32,756.8681

Table 58: 2015 Spill Incidence Report

Month	Summary of Spill Incidents							Total number of Spills	Volume spilled(BBLs)
	Natural Accident[1]	Corrosion[2]	Equipment Failure[3]	Sabotage[4]	Human Error[5]	YTBD[6]	Mystery[6]		
January	1	3	12	31	1	6	2	56	324.5624
February	0	5	10	39	1	8	0	63	515.4247
March	0	4	8	41	0	6	4	63	191.6814
April	1	5	20	35	0	18	3	82	139.0537
May	0	2	9	51	1	18	1	82	332.467
June	3	2	12	61	3	12	1	94	19445.92
July	0	2	7	32	1	7	5	54	3256.276
August	0	2	3	16	0	14	3	38	1338.548
September	0	3	8	33	0	1	3	48	598.1353
October	2	4	10	34	0	4	2	56	130.6736
November	2	3	2	58	4	5	2	76	1013.325
December	1	2	4	24	0	9	1	41	5451.201
Total	10	37	105	455	11	102	27	753	32756.8681

[1] Spills caused by natural disasters/events such as flooding, extreme weather conditions etc.

[2] Spills caused by corrosion of pipelines, vessels, tanks and other crude oil handling installations.

[3] Spills caused by preventable failure of oil and gas installations/equipment

[4] Spills caused by third party intervention. This also includes cases of vandalism and crude oil theft that may not have resulted to hydrocarbon release to the environment.

[5] Spills caused by operational errors involving a human interface.

[6] This means "Yet-to-be-determined". The cause(s) of the spill(s) were not reported in the submitted oil spill reporting forms. Usually indicative that the Form B was not submitted, or the Joint Investigation Visit (JIV) was either not carried out or was inconclusive. Often, the quantity spilled for this category of spills may also not have been reported.

[7] Spills identified or reported by operators who assert that the spill did not originate from their facilities. The origin of the spill is thus said to be inconclusive. Usually the operator is expected to take reasonable steps to respond to the spill in addition to the reporting of same.

4.5 REVENUE PERFORMANCE

Table 59: 2010 – 2015 Revenue Performance Summary

	Oil Royalty	Gas Royalty	Gas Flared Penalty	Concession Rentals	Miscellaneous Oil Revenue	Total Revenue
	₦	₦	₦	₦	₦	₦
2010	694,352,412,710.14	0.00	2,388,572,351.20	728,308,923.82	951,380,744.23	698,420,674,729.39
2011	1,066,836,980,909.87	14,613,812,392.68	3,482,627,975.15	388,502,293.27	2,077,222,926.87	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	1,079,949,932,931.76
2013	960,540,365,106.84	23,235,123,088.28	3,120,786,665.13	178,630,934.47	3,981,983,109.64	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	1,016,781,027,484.650
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	587,634,614,843.60
Total	5,305,177,636,697.81	103,494,374,088.46	18,362,440,684.42	2,354,750,329.07	31,853,083,591.84	5,461,242,285,391.60

5. Glossary of Terms

AG - Associated Gas

AGO – Automative Gas Oil

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

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 – Premium 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

TCF – Trillion Cubic Feet

WRPC - Warri Refining & Petrochemical Company