



**Department of Petroleum Resources**

## **2014 OIL & GAS INDUSTRY ANNUAL REPORT**

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## **1.0 REMARKS OF DIRECTOR OF PETROLEUM RESOURCES**

The global crude oil market has remained volatile for traditional net supplier nations like Nigeria. The world now seems awash with oil, and the situation is worsened by the sluggish growth in Asia and Western Europe. The growing shale activities in the United States; formerly a major destination for Nigerian crude oil and gas, has also deeply impacted the market.

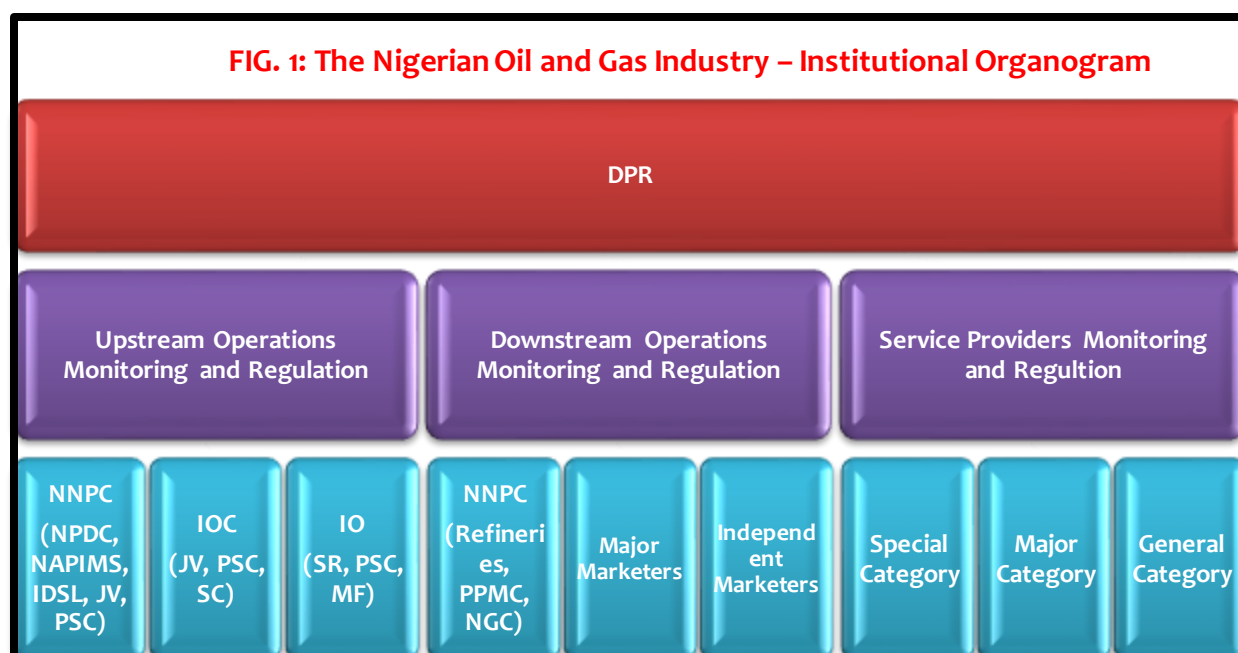
A short while ago, it appeared the bullish market would continue to hold sway, especially against the backdrop of declining conventional oil reserves. There were suggestions that oil prices were heading up to the \$US200 mark. Now with hindsight, it is remarkable the world had placed scant attention on the game-changing prospects of shale activities. Understandably, the debates on dwindling reserves and probable end of oil have now taken a back seat as the market grapples with injection of new oil especially from shale plays forcing new price lows on the market. The growing shale activities especially in the United States are also fostering a paradigm shift on conventional oil and gas producers like Nigeria. This Report contains some data on the shifting paradigms in the global market.

Indications are that shale production would continue to pose potent threats to conventional producers like Nigeria in the foreseeable future. The market situation will remain volatile as cost of production decreases to make activities even more profitable in the shale areas. The challenge for Nigeria and other conventional high-cost producers is to reduce production cost and grow its market share and compete more effectively in the rapidly changing market. The realities instruct that we must look inwards to grow of the industry to cope in the shrinking global market. Nigeria is growing the indigenous muscles by leveraging on its experience from the Marginal fields operations. Functional integration of the local upstream and downstream sectors is vital to re-positioning and attaining the quest to build the Nigerian petroleum as the hub of activities in West Africa.

The road to that destination may appear blurred especially going by the figures posted on the local refinery and petrochemical sector in the period under review. However, the imperatives for greater local market shares are clearly evident in the rising domestic demand for petroleum products and the yawning supply gap in the local electricity sector. Both continue to offer massive opportunities for investments and development of the local refinery and gas markets.

The Oil & Gas Industry Annual Report (OGIAR) 2014 is compiled and published by the Department of Petroleum Resources (DPR). This edition contains a 5-year report on the Nigerian petroleum activities; the report is to allow public access into the industry operational data in line with the commitment of government on transparency.

## 2.0 REGULATORY STRUCTURE OF THE NIGERIAN OIL AND GAS INDUSTRY



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

1. Conservation of Nigeria's Hydrocarbon Resources
2. Regulation and Monitoring of industry activities to ensure compliance with best standards & practices
3. Ensure safe, and environmentally sustainable development of the oil and gas operations' activities
4. Maintenance and administration of 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 made the first commercial discovery in 1956 at Oloibiri, present-day Bayelsa State.

The national crude oil production had progressively risen from the 5,100 bopd at first export on February 17, 1958 to the 2.2 million bopd in 2014. Nigeria is the largest oil producer in Africa and the sixth largest in Organisation of Petroleum Exporting Countries (OPEC). Nigeria joined the OPEC in 1971.

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

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

Growing E&P activities necessitated a broader statutory framework for regulation and informed the enactment of the Petroleum Act, 1969 with comprehensive provisions on exploration, production and transportation. The Act vested ownership of petroleum resources in the Federal Government of Nigeria and is the primary legislation on petroleum activities to date. The following are some extant regulations pursuant to the Petroleum Act, 1969:

- 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

The Petroleum Industry Bill (PIB) is under consideration at the National Assembly in view of local and global realities in oil and gas business. The new legislation would succeed the Petroleum Act, 1969 and its Amendments and add impetus to the current petroleum activities in Nigeria. Specifically, the PIB aims at:

- Promoting transparency and openness
- Optimizing domestic gas supplies, especially for power and industrial use
- Creating a more investor-friendly environment
- Creating liberalized and integrated downstream sector
- Improving on Health Safety and Environment standards, and
- Instituting more efficient regulatory process

The impact of the regulatory process in the Nigerian industry is more apparent in the competitive E&P environment engendered since 1960 and the growing participation of locals in all petroleum activity areas in the country. There are still needs for appropriate instruments to attract investments into the green inland areas, promote Enhanced Oil Recovery (EOR) efforts in the matured assets and regulate the abandonment processes at the end of field life. DPR is revisiting the prevailing tradition of predicating deepwater development projects solely on FPSO solution in order to stimulate integrated infrastructure development in the deepwater terrain to allow better economics and greater chances to produce smaller future discoveries in that area.

A major challenge for regulation for the future will consist in effective harnessing of cost and technology for the nation to derive best value from its hydrocarbon assets, especially as the Niger Delta basin matures and discoveries from the area get fewer and smaller. That future requires best regulatory practices and the cooperation of stakeholders to optimize value, attract funds and technology in the increasingly competitive global environment.

## 4.0 STATISTICAL DATA

### 4.1 Upstream

#### 4.1.1 Concession Status

Table 1: Concession Situation

| S/N | NAME OF COMPANY                       | CONCESSION HELD          | TYPE OF CONTRACT | EXPIRATION DATE                                                                                                                                 | GEOLOGICAL LOCATION |
|-----|---------------------------------------|--------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1   | AFREN GLOBAL ENERGY RESOURCES LIMITED | OPL 907                  | PSC              | 19.02.2018                                                                                                                                      | Anambra Basin       |
|     |                                       | OPL 917                  | PSC              | 19.02.2018                                                                                                                                      |                     |
| 2   | AFRICOIL & MARKETING                  | OPL 204                  | SR               | 08.07.2010                                                                                                                                      | Onshore Niger Delta |
| 3   | ALFRED JAMES NIG.LTD.                 | OPL 302                  | SR               | 25.06.2001                                                                                                                                      | Benin Basin         |
| 4   | AITEO                                 | OML 29                   | JVC              | 30.06.19                                                                                                                                        | Niger Delta         |
| 5   | ALLIED ENERGY RESOURCES NIG. LTD      | OML 120 (former OPL 210) | SR               | 26.02.2021                                                                                                                                      | Niger Delta         |
|     |                                       | OML 121 (former OPL 210) | SR               | 26.02.2021                                                                                                                                      |                     |
| 6   | AMALGAMATED OIL                       | OPL 452                  | SR               | 23.05.2016                                                                                                                                      | Onshore             |
| 7   | AMNI INTERNATIONAL PETROLEUM LTD      | OML 112 (former OPL 469) | SR               | 12.2.2018                                                                                                                                       | Niger Delta         |
|     |                                       | OML 117                  | SR               | 5.8.2019                                                                                                                                        |                     |
| 8   | ASHBERT/NPDC                          | OPL 325                  | PSC              | Ashbert yet to pay Signature Bonus. Expected Signature bonus = \$50,250,000. NPDC paid \$10,050,000 being its own share of the Signature bonus. | Deep Offshore       |
| 9   | ATLAS PETROLEUM NIG. LTD              | OML 109                  | SR               | 24.5.2016                                                                                                                                       | Niger Delta         |
| 10  | BG EXPLORATION                        | OPL 286                  | PSC              | 07.03.17                                                                                                                                        | Deep Offshore       |

|    |                                   |                          |     |                                                                                       |                                |
|----|-----------------------------------|--------------------------|-----|---------------------------------------------------------------------------------------|--------------------------------|
| 11 | BOC JNHP CONSORTIUM               | OPL 240                  | PSC | PSC yet to be signed because NNPC is requesting for a common name for the consortium. | Continental Shelf              |
| 12 | CAVENDISH PETROLEUM NIG. LTD      | OML 110                  | SR  | 6.8.2016                                                                              | Niger Delta                    |
| 13 | CHEVRON NIG. LTD.                 | OML 49                   | JVC | 14.06.2027                                                                            | Niger Delta                    |
|    |                                   | OML 51                   | JVC | 14.06.2027                                                                            | Niger Delta                    |
|    |                                   | OML89                    | JVC | Aug-34                                                                                | Niger Delta                    |
|    |                                   | OML 91                   | JVC | Aug-34                                                                                | Niger Delta                    |
|    |                                   | OML 86                   | JVC | Aug-34                                                                                | Niger Delta                    |
|    |                                   | OML 88                   | JVC | Aug-34                                                                                | Niger Delta                    |
|    |                                   | OML 90                   | JVC | Aug-34                                                                                | Niger Delta                    |
|    |                                   | OML 95                   | JVC | Aug-34                                                                                | Niger Delta                    |
|    |                                   | OML 132 (former OPL 213) | PSC | 19.12.25                                                                              | Deep Offshore                  |
| 14 | CLEANWATERS CONSORTIUM            | OPL 289                  | PSC | 22.04.2012                                                                            | Continental Shelf              |
| 15 | CNODC                             | OPL 471                  | PSC | 22.04.2017                                                                            | Continental Shelf              |
| 16 | OANDO PLC                         | OML 131                  | PSC | 23.04.25                                                                              | Deep Offshore                  |
| 17 | CONOIL PRODUCING LTD              | OML 103                  | SR  | 1.6.2013                                                                              | Onshore, Niger Delta           |
|    |                                   | OML 136                  | SR  | 26.07/2026                                                                            | Continental Shelf, Niger Delta |
|    |                                   | OPL 257                  | PSC | 08.02.16                                                                              | Deep Offshore                  |
|    |                                   | OPL 290                  | PSC | 16.10.13                                                                              | Continental Shelf              |
| 18 | CONTINENTAL OIL & GAS COMPANY LTD | OML 59                   | SR  | 5.6.2018                                                                              | Niger Delta Onshore            |
|    |                                   | OPL 2007                 | PSC | 16.10.15                                                                              | Niger Delta Onshore            |
| 19 | CROWNWELL PETROLEUM LTD           | OPL 305                  | SR  | 25.06.16                                                                              | Benin Basin                    |
|    |                                   | OPL 306                  | SR  | 25.06.16                                                                              | Benin Basin                    |
| 20 | DAJO OIL LIMITED                  | OPL 322                  | PSC | 26-02 2019                                                                            | Deep Offshore                  |
| 21 | DUBRI OIL CO. (NIG.) LIMITED      | OML 96                   | SR  | 01.05.33                                                                              | Niger Delta                    |
| 22 | DSV                               | OPL 251                  | PSC | Yet to pay Signature Bonus                                                            | Niger Delta                    |
| 23 | TOTAL EXP & PROD.NIG. LTD.        | OPL 221                  | PSC | 18.11.13                                                                              | Deep Offshore                  |
|    |                                   | OML 138 (former OPL 222) | PSC | 16.05.2017                                                                            | Deep Offshore                  |
|    |                                   | OML 139 (former OPL 222) | PSC | 16.05.2017                                                                            | Deep Offshore                  |
|    |                                   | OPL 223                  | PSC | 18.07.2015                                                                            | Deep Offshore                  |

|    |                                               |                             |     |                                       |                        |
|----|-----------------------------------------------|-----------------------------|-----|---------------------------------------|------------------------|
|    |                                               | OML 99                      | JVC | 01.05.33                              | Niger Delta            |
|    |                                               | OML100                      | JVC | 01.05.33                              | Niger Delta            |
|    |                                               | OML 102                     | JVC | 01.05.33                              | Niger Delta            |
|    |                                               | OML 58                      | JVC | 13.06.27                              | Niger Delta            |
| 24 | EMERALD ENERGY RES. LTD                       | OML 141<br>(former OPL 229) | SR  | 07.08.2027                            | Onshore                |
| 25 | ENAGEED RESOURCES LTD.                        | OML 148<br>(Former OPL 274) | PSC | 14.05.35                              | Onshore                |
| 26 | EROTON                                        | OML 18                      | JVC | 30.06.19                              | Niger Delta            |
| 27 | ESSO E & P. LTD                               | OML 133<br>(former OPL 209) | PSC | 07.02.26                              | Deep Offshore          |
|    |                                               | OML 145<br>(former OPL 214) | PSC | 2034                                  | Deep Offshore          |
| 28 | EXPRESS PETROLEUM & GAS CO. LTD               | OML 108<br>(former OPL 74)  | SR  | 31.10.2015                            | Continental Shelf      |
|    |                                               | OPL 227                     | SR  | 2015                                  | Continental Shelf      |
| 29 | ESSAR EXPLORATION                             | OPL 226                     | PSC | 9.3.15                                | Continental Shelf      |
| 30 | FIRST E&P                                     | OML 83                      | JVC | 14.8.34                               | Niger Delta            |
|    |                                               | OML 85                      | JVC | 14.8.34                               | Niger Delta            |
| 31 | WEST AFRICAN EXPLORATION & PRODUCTION LIMITED | OML 71                      | JVC | 17.12.2034                            | Niger Delta            |
|    |                                               | OML 72                      | JVC | 17.12.2034                            | Niger Delta            |
| 32 | GAS TRANSMISSION & POWER LIMITED              | OPL 905                     | PSC | 22.04.2017                            | Inland Basin (Anambra) |
| 33 | GLOBAL ENERGY CO. LTD.                        | OML 149<br>(Former OPL 135) | PSC | 04.02.35                              | Onshore                |
|    |                                               | OPL 2009                    | PSC | 15.12.2018                            | Continental Shelf      |
|    |                                               | OPL 2010                    | PSC | 15.12.2018                            | Continental Shelf      |
| 34 | GRASSO/SIGNMUND                               | OPL 2012                    | PSC | 17.06.2024                            | Continental Shelf      |
| 35 | HERITAGE OIL AND GAS                          | OPL 247                     | PSC | 05.04.14                              | Deep Offshore          |
| 36 | HI REV E&P LTD                                | OPL 2002                    | PSC | Yet to pay Signature Bonus            | Niger Delta            |
| 37 | INC NATURAL RESOURCES                         | OPL 252                     | PSC | Incomplete Payment of Signature Bonus | Deep Offshore          |
|    |                                               | OPL 292                     | PSC |                                       | Deep Offshore          |
| 38 | JAHCON INTERNATIONAL LIMITED                  | OPL 2001                    | PSC | Yet to sign PSC                       | Niger Delta            |
| 39 | KNOC NIG.                                     | OPL 321                     | PSC | 09. 03. 16                            | Deep Offshore          |
|    |                                               | OPL 323                     | PSC | 09. 03. 16                            | Deep Offshore          |

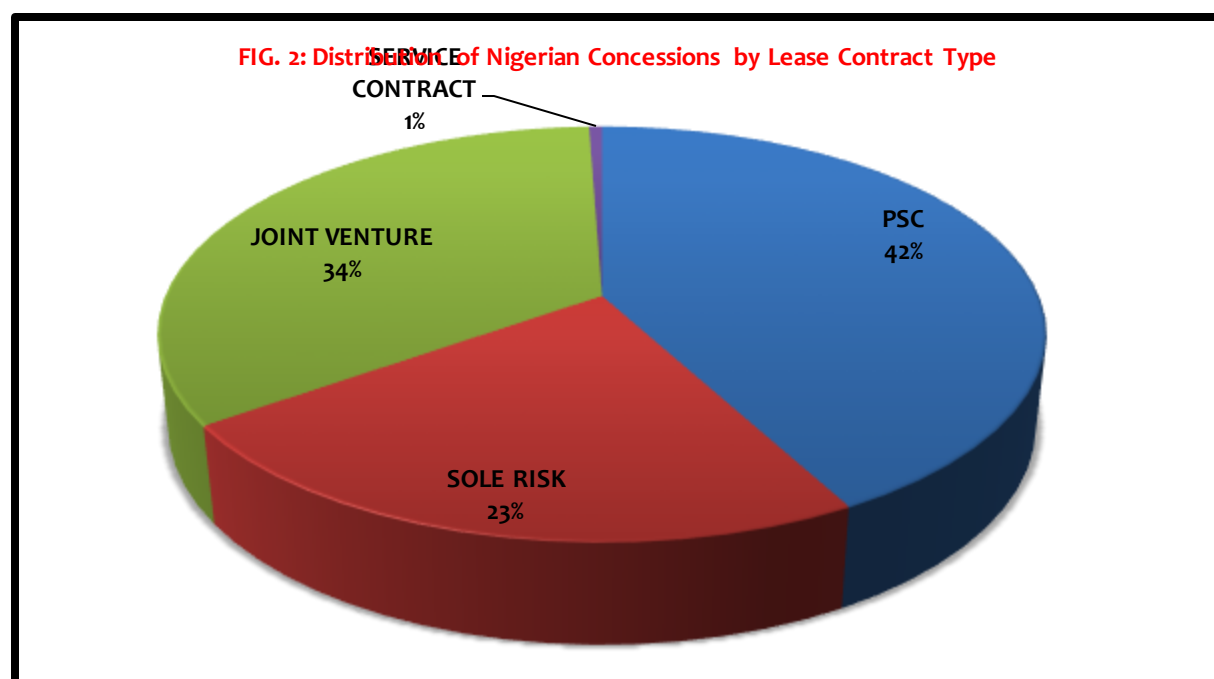
|    |                                   |                             |     |                                                                        |                             |
|----|-----------------------------------|-----------------------------|-----|------------------------------------------------------------------------|-----------------------------|
| 40 | NNPC/STAR DEEP/FAMFA              | OML 127<br>(former OPL 216) | PSC | 24.11.24                                                               | Deep Offshore               |
| 41 | MOBIL PRODUCING NIG.<br>UNLIMITED | OML104                      | JVC | 13.1.18                                                                | Niger Delta                 |
|    |                                   | OML 67                      | JVC | 10.03.2031                                                             | Niger Delta                 |
|    |                                   | OML 68                      | JVC | 10.03.2031                                                             | Niger Delta                 |
|    |                                   | OML 70                      | JVC | 10.03.2031                                                             | Niger Delta                 |
| 42 | MONI PULO LTD.                    | OML 114<br>(former OPL 230) | SR  | 01/03/2019                                                             | Cont. Shelf,<br>Niger Delta |
|    |                                   | OPL 234                     | PSC | 15.12.2013                                                             | Onshore                     |
|    |                                   | OPL 239                     | PSC | 15.12.2013                                                             | Continental<br>Shelf        |
|    |                                   | OPL 231                     | PSC | 17.05.2013                                                             | Onshore                     |
| 43 | NEW CROSS E & P                   | OML 24                      | JVC | 30.06.19                                                               | Niger Delta                 |
| 44 | NEW CROSS PETROLEUM               | OPL 276                     | PSC | 20.01.2017                                                             | Niger Delta                 |
|    |                                   | OPL 283                     | PSC | 20.01.2017                                                             | Niger Delta                 |
| 45 | NEW NIGERIA                       | OPL 733                     | PSC | 07.08.16                                                               | Chad basin                  |
|    |                                   | OPL 809                     | PSC | 07.08.16                                                               | Benue Trough                |
|    |                                   | OPL 810                     | PSC | 07.08.16                                                               | Benue Trough                |
|    |                                   | OPL 722                     | PSC | 07.08.16                                                               | Chad basin                  |
| 46 | NIGERIA AGIP EXPLORATION          | OML 134<br>(former OPL 211) | PSC | 30.05.2026                                                             | Niger Delta                 |
|    |                                   | OML 125<br>(former OPL 316) | PSC | 01.01.2023                                                             | Offshore                    |
|    |                                   | OPL 244                     | PSC | 19.12.2011                                                             | Deep Offshore               |
| 47 | NIGERIA AGIP OIL CO. LTD          | OPL 282                     | PSC | 07.09.15                                                               | Niger Delta                 |
|    |                                   | OML 60                      | JVC | 13.6.2027                                                              | Niger Delta                 |
|    |                                   | OML 61                      | JVC | 13.6.2027                                                              | Niger Delta                 |
|    |                                   | OML 62                      | JVC | 13.6.2027                                                              | Niger Delta                 |
|    |                                   | OML 63                      | JVC | 13.6.2027                                                              | Niger Delta                 |
| 48 | NNPC/AENR                         | OML 116                     | SC  | 05.08.19                                                               | Niger Delta                 |
| 49 | NNPC/ADDAX PET. DEV. CO.          | OML 126                     | PSC | 24.11.24                                                               | Niger Delta                 |
|    |                                   | OML 137                     | PSC | 22.04.27                                                               | Niger Delta                 |
|    |                                   | OML 123                     | PSC | 13.04.22                                                               | Niger Delta                 |
|    |                                   | OML 124                     | PSC | 13.04.22                                                               | Niger Delta                 |
| 50 | STARCREST                         | OPL 291                     | PSC | 15.10.16                                                               | Deep Offshore               |
| 51 | NNPC/ELCREST                      | OML 40                      | JVC | 30.06.2019                                                             | Onshore                     |
| 52 | NNPC/FES                          | OPL 702                     | SR  | Not applicable due to<br>section 20 of NNPC Act Cap<br>320 of LFN 1990 | Chad basin                  |
|    |                                   | OPL 703                     | SR  |                                                                        | Chad basin                  |
|    |                                   | OPL 705                     | SR  |                                                                        | Chad basin                  |
|    |                                   | OPL 707                     | SR  |                                                                        | Chad basin                  |
| 53 | NNPC/NECONDE                      | OML 42                      | JVC | 30.06.2019                                                             | Onshore                     |

|    |                                           |                             |     |                            |                   |
|----|-------------------------------------------|-----------------------------|-----|----------------------------|-------------------|
| 54 | NNPC/FIRST HYDROCARBON                    | OML 26                      | JVC | 30.06.2019                 | Onshore           |
| 55 | NNPC/ND WESTERN LTD.                      | OML 34                      | JVC | 30.06.2019                 | Onshore           |
| 56 | NIGERIA PET. DEV. CO.<br>(NPDC)           | OPL 242                     | PSC | 06.03.2021                 | Deep Offshore     |
|    |                                           | OML 119                     | SR  | 30.10.20                   | Niger Delta       |
|    |                                           | OML 111                     | SR  | 2016                       |                   |
|    |                                           | OML 64                      | SR  | 2019                       | Niger Delta       |
|    |                                           | OML 65                      | SR  | 2019                       |                   |
|    |                                           | OML 66                      | SR  | 2019                       | Niger Delta       |
| 57 | NNPC/SHORELINE                            | OML 30                      | JVC | 30.06.2019                 | Onshore           |
| 58 | NIG-DEL UNITED LTD.                       | OPL 233                     | PSC | May, 2012                  | Niger Delta       |
| 59 | NOREAST PET. NIG. LTD.                    | OPL 215                     | SR  | 20.04.20                   | Deep Offshore     |
| 60 | NORTH SOUTH                               | OPL 326                     | SR  |                            | Deep Offshore     |
| 61 | OANDO PLC                                 | OPL 236                     | PSC | 07.09.2011                 | Onshore           |
|    |                                           | OPL 278                     | PSC | 18.01.15                   | Niger Delta       |
| 62 | OILWORLD LIMITED                          | OPL 241                     | PSC | 09.03.2020                 | Niger Delta       |
| 63 | OIL AND INDUSTRIAL SERVICES LTD           |                             |     | Yet to sign PSC            | Niger Delta       |
| 64 | OIL AND GAS NIG. LTD                      | OML 140<br>(former OPL 249) | SR  | 17.07.27                   | Deep Offshore     |
| 65 | ONGC - MITTAL                             | OPL 279-N                   | PSC | 22.02.17                   | Deep Offshore     |
|    |                                           | OPL 297                     | PSC |                            | Deep Offshore     |
| 66 | OPTIMUM PETROLEUM                         | OPL 310                     | SR  | 09.06.18                   | Benin Basin       |
| 67 | ORIENT PET. REFINERY LTD.                 | OPL 915                     | SR  | 29.01.2015                 | Anambra Basin     |
|    |                                           | OPL 916                     | SR  | 29.01.2015                 | Anambra Basin     |
| 68 | ORIENTAL ENERGY                           | OML 115<br>(former OPL 224) | SR  | 19.5.2019                  | Continental Shelf |
| 69 | ORANTO PETROLEUM LTD                      | OPL 320                     | PSC | 20.2.2012                  | Deep Offshore     |
|    |                                           | OPL 293                     | PSC | Yet to pay Signature Bonus | Deep Offshore     |
| 70 | PAN OCEAN OIL CORPORATION                 | OML 98                      | JVC | 7.7.2018                   | Niger Delta       |
| 71 | PAN OCEAN /ANIOMA                         | OML 147<br>(Former OPL 275) | PSC | 22.10.34                   | Onshore           |
| 72 | PEAK PETROLEUM INDUSTRIES NIG. LTD        | OML 122<br>(former OPL 460) | SR  | 16.5.2021                  | Continental Shelf |
| 73 | SAHARA ENERGY E & P                       | OPL 284                     | PSC | 06.07.17                   | Deep Offshore     |
|    |                                           | OPL 228                     | PSC | Yet to sign PSC            | Onshore           |
| 74 | SEPLAT CONSORTIUM<br>(SEPLAT/AMNI/BELEMA) | OML 52                      | JVC | 14.6.2027                  | Niger Delta       |
|    |                                           | OML 53                      | JVC | 14.6.2027                  | Niger Delta       |
|    |                                           | OML 55                      | JVC | 14.6.2027                  | Niger Delta       |
| 75 | NPDC/SEPLAT                               | OML 4                       | JVC | 30.06.2019                 | Onshore           |
|    |                                           | OML 38                      | JVC | 30.06.2019                 | Onshore           |
|    |                                           | OML 41                      | JVC | 30.06.2019                 | Onshore           |

|    |                               |                              |     |            |                    |
|----|-------------------------------|------------------------------|-----|------------|--------------------|
| 76 | SHELL NIG.EXP & PROD. CO. LTD | OML 118<br>(former OPL 212)  | PSC | 27.11.25   | Deep Offshore      |
|    |                               | OML 135<br>(former OPL 219)  | PSC | 2.7.2026   | Deep Offshore      |
| 77 | NAE/SHELL NIG.ULTRA DEEP LTD  | OPL 245                      | PSC | 10.05.31   | Utra Deep Offshore |
| 78 | SPDC                          | OML 11                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 17                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 20                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 21                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 22                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 25                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 27                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 28                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 31                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 32                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 33                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 34                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 35                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 36                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML43                        | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 45                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 46                       | JVC | 30.06.19   | Niger Delta        |
|    |                               | OML 74                       | JVC | 30.11.2008 | Niger Delta        |
|    |                               | OML 77                       | JVC | 30.12.2008 | Niger Delta        |
|    |                               | OML 79                       | JVC | 30.11.2008 | Niger Delta        |
| 79 | SOUTH ATLANTIC PET. LTD.      | OML 130                      | SR  | 24.04.2025 | Niger Delta        |
| 80 | STATOIL                       | OML 128<br>(former OPL 217)  | PSC | 27.12.2024 | Niger Delta        |
|    |                               | OML 129<br>(former OPL 218)  | PSC | 27.12.2024 | Niger Delta        |
| 81 | SUMMIT OIL INT.               | OML 142<br>( former OPL 205) | SR  | 11.06.2029 | Anambra Basin      |
|    |                               | OPL 206                      | SR  | 19.01.14   | Anambra Basin      |
| 82 | SUNLINK PETROLEUM             | OML 144<br>(former OPL 238)  | SR  | 01.05.33   | Continental Shelf  |
| 83 | STERLING GLOBAL               | OML 146<br>(former OPL 277)  | PSC | 24.10.34   | Niger Delta        |
| 84 |                               | OML 143<br>(former OPL 280)  | PSC | 28.12.30   | Niger Delta        |
| 85 |                               | OPL 2005                     | PSC | 29.04.19   | Onshore            |

|    |                            |                              |     |                            |                   |
|----|----------------------------|------------------------------|-----|----------------------------|-------------------|
| 86 |                            | OPL 2006                     | PSC |                            | Onshore           |
| 87 |                            | OPL 2004<br>(Former OML 13 ) | PSC | Yet to sign PSC            | Niger Delta       |
| 88 | TENOIL/CLAYFORD            | OPL 2008                     | PSC | 25.05.2016                 | Continental Shelf |
| 89 | TRANSNATIONAL CORPORATION  | OPL 281                      | PSC | May-24                     | Continental Shelf |
| 90 | YINKA FOLAWIYO PET.        | OML 113                      | SR  | 31.5.2018                  | Niger Delta       |
| 91 | YORKSHIRE ENERGY WORLD LTD | OPL 258                      |     | Yet to pay Signature Bonus | Deep Offshore     |
|    |                            | OPL 295                      |     |                            | Deep Offshore     |
| 92 | ZEBBRA ENERGY LIMITED      | OPL 248                      | PSC | Jun-19                     | Deep Offshore     |

\* Allocation process has not been concluded



**Table 2: 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)     | 51        | 6    | 57                  |
| 3   | NIGER DELTA (ONSHORE)               | 67        | 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                  |

## 4.1.2 Speculative Data Status

Table 3: Multi-Client Data Projects

| S/N | Company                          | Project Name                                                                                              | Effective Date | Tenure (Yrs) | Terrain                                            | Quantum       |
|-----|----------------------------------|-----------------------------------------------------------------------------------------------------------|----------------|--------------|----------------------------------------------------|---------------|
| 1   | PGS Nigeria Limited              | Mega Survey                                                                                               | 2008           | 10           | Shoreline to Ultra deep offshore                   | 45,000 sq. km |
|     |                                  | Multi-Client 3D Seismic                                                                                   | June 2009      | 10           | Offshore                                           | 3,000 sq. km  |
|     |                                  | 1999 MC3D                                                                                                 | 1999           | 10           | Offshore                                           | 26,000 sq. km |
|     |                                  | Brokerage (1999 MC3D datasets)                                                                            | June 2009      | 5            | Offshore                                           | 26,000 sq. km |
| 2   | Sonar Limited                    | Geopressure Study of the Niger Delta (Phase I)                                                            | September 2011 | 5            | Onshore to offshore Niger Delta                    |               |
| 3   | Mabon Limited                    | AR2, 2D Seismic & Geochemistry                                                                            | June, 1991     | Expired      | Continental shelf to Ultra Deep offshore           | 55,600 km     |
|     |                                  | AR3, 2D Seismic & Biostratigraphy                                                                         | August 1993    |              |                                                    |               |
|     |                                  | AR3 (ABCD), 2D Seismic & Gravity/Magnetics                                                                |                |              |                                                    |               |
|     |                                  | AR3 infill/AR3F, 2D Seismic                                                                               |                |              |                                                    |               |
|     |                                  | AR 6                                                                                                      |                |              |                                                    |               |
|     |                                  | Niger Delta Regional Data Compilation (NDRDC)                                                             | 2005           | Expired      | Onshore Niger Delta                                | 7,600 km      |
|     |                                  | Nigerian Span I                                                                                           | 2005           | 5            | Entire offshore                                    | 4,800 km      |
|     |                                  | Nigerian Span II                                                                                          | 2011           | 5            |                                                    | 6,700 km      |
| 4   | Acorn Geophysical, UK            | CSEM/Seabed Logging                                                                                       | May 2005       | 10           | Offshore blocks: OPLs 315, 321, 323, 325, 327, 257 |               |
| 5   | Bilview Energy Services          | Interpretive Niger Delta Facies Atlas                                                                     | July 2010      | 5            | Entire Niger Delta onshore and offshore            |               |
|     |                                  | Well Logs Data Digitization, Marketing & Sales                                                            | August 2011    | 5            | Wells available on all basins                      |               |
| 6   | CGG Veritas                      | Nigeria , PhI & Ph II 2D, + UTMOST + AVO + Gravity+ Reprocessing                                          | August 1998    | 5            | Offshore                                           | 17,000 km     |
|     |                                  | Nigeria 3D: OPLs 324, 322, 317/318 & 251                                                                  | January 2000   | 10           | Offshore                                           | 11,000 sq. km |
|     |                                  | Brokerage of Multi-Client 2D Seismic datasets                                                             | January 2010   | 5            | Offshore                                           | 17,000 km     |
| 7   | Polarcus Nig. Ltd / Ashbert Ltd. | Brokerage of Multi-Client 3D seismic datasets from CGG Veritas – Nigeria 3D: OPLs 324, 322, 317/318 & 251 | April 2011     | 5            | Offshore                                           | 11,000 sq. km |

|    |                                              |                                                                                                                                                                                                   |                |         |                                |                  |
|----|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|--------------------------------|------------------|
|    |                                              | Creating Additional Value And Revenue From Existing Seismic Data And For New Opportunities For The 2D & 3D Speculative Surveys In Nigeria (OPLs 251, 318, 325, 328, 334, 340, 327, 329, 330, 331) | December 2010  | 5       | Offshore                       | Not yet acquired |
| 8  | <b>TDI-BROOKS</b>                            | Surface Geochemical Exploration and heat flow studies                                                                                                                                             | August 2005    | Expired | Offshore                       |                  |
| 9  | <b>Danvic Concepts Int'l Nigeria Limited</b> | Non-Exclusive Geophysical Data Services Onshore, Shallow Water And Deep Offshore Nigeria                                                                                                          | February 2011  | 5       | Offshore                       | Not yet acquired |
| 10 | <b>Delta Plus (Nigeria) Ltd.</b>             | Management, Acquisition and Processing of Data in conjunction with New Licensing Rounds                                                                                                           | September 2012 | 10      | Offshore                       | Not yet acquired |
| 11 | <b>WLL Hydroservices</b>                     | Integrated Basinal Studies In Offshore Benin Basin (Lagos/Ogun) Embayment                                                                                                                         | March 2009     | 10      | Onshore & Offshore Benin Basin | Not yet acquired |

#### 4.1.3 Reserves

Table 4: Oil and Gas Reserves

|      | Oil Reserves (MMbbls) | Natural Gas Reserves (TCF) |                         |           |
|------|-----------------------|----------------------------|-------------------------|-----------|
|      |                       | Associated Gas, AG         | Non Associated Gas, NAG | Total Gas |
| 2010 | 36,532.97             | 92.95                      | 89.87                   | 182.82    |
| 2011 | 36,247.41             | 92.60                      | 90.15                   | 182.75    |
| 2012 | 37,139.10             | 88.05                      | 92.68                   | 180.72    |
| 2013 | 37,070.83             | 88.60                      | 91.73                   | 180.32    |
| 2014 | 37,448                | 90.09                      | 97.90                   | 187.99    |

\* All Reserves above are as at 1<sup>st</sup> January of the following year

#### 4.1.4 Marginal Fields Status

A major attempt at improving indigenous participation in the E&P sector was achieved through the allocation of marginal fields. So far, thirty three (33) fields have been allocated to indigenous operators.

**Table 5: List of Marginal Fields**

| S/N | FIELD NAME                            | LOCATION (OML) | COMPANY NAME                           |
|-----|---------------------------------------|----------------|----------------------------------------|
| 1   | Ogbele                                | 54             | Niger Delta Petroleum Resources Ltd    |
|     | Omerelu                               | 53             |                                        |
| 2   | Asaramaroru                           | 11             | Prime Exploration & Product.(Operator) |
|     |                                       |                | Suffolk Petroleum Limited              |
| 3   | Okwok                                 | 67             | Oriental Energy                        |
|     | Ebok                                  | 67             |                                        |
| 4   | Stubb Creek                           | 13 / 14        | Universal Energy                       |
| 5   | Dawes Island                          | 54             | Eurafric Energy Limited                |
| 6   | Umusati/Igbuku                        | 56             | Pillar Oil Limited                     |
| 7   | Atala                                 | 46             | Bayelsa Oil Company Ltd                |
| 8   | Ekeh                                  | 88             | Movido E&P                             |
| 9   | Ogedeh                                | 90             | Bicta Energy                           |
| 10  | Ororo                                 | 95             | Guarantee Petroleum (Operator)         |
| 11  |                                       |                | Owena Oil & Gas                        |
| 12  | Egbaoma (Ex Asuokpu/Umutu )           | 38             | Platform Petroleum Ltd                 |
| 13  | Amoji /Matsogo / Igbolo               | 56             | Chorus Energy                          |
| 14  | Akepo                                 | 90             | Sogenal Limited                        |
| 15  | Oza                                   | 11             | Millenium Oil and Gas                  |
| 16  | Ajapa                                 | 90             | Brittania U-Nig                        |
| 17  | Qua Ibo                               | 13             | Network E&P                            |
| 18  | Ibigwe                                | 16             | Waltersmith Petroman (Operator)        |
|     |                                       |                | Morris Petroleum                       |
| 19  | Umusadege                             | 56             | Midwestern Oil and Gas                 |
| 20  |                                       |                | Suntrust Oil Company                   |
| 21  | Ofa                                   | 30             | Independent Energy Ltd                 |
| 22  | KE                                    | 55             | Del Sigma                              |
| 23  | Tom Shot Bank                         | 14             | Associated Oil and Gas (Operator)      |
|     |                                       |                | Dansaki Petroleum Ulimited             |
| 24  | Uquo                                  | 13             | Frontier Oil Ltd                       |
| 25  | Ebendo/Obodeti (Ex Obodugwa /Obodeti) | 56             | Energia Limited (Operator)             |
|     |                                       |                | Oando Production and Development Ltd   |
| 26  | Oriri                                 | 88             | Goland Petroleum Dev.Co Limited        |
| 27  | Eremor                                | 46             | Excel Exploration & Producton          |
| 28  | Tsekelewu                             | 40             | Sahara Energy (Operator)               |
|     |                                       |                | African Oil & Gas Company Limited      |
| 29  | Otakikpo                              | 11             | Green Energy International Limited     |
| 30  | Ubima                                 | 17             | All Grace Energy                       |

**FIG. 3: Marginal Field Map, 2002 - 2004**

#### 4.1.5 Exploration Activities

Table 6: 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 |

#### 4.1.6 Rig Activity Status

Table 7: Rig Disposition Report, 2014

|       | ONSHORE | OFFSHORE | DEEP | 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    |
| Total | 73      | 50       | 25   | 148   |

Table 8: Rig Disposition Report as at December 2014

| Types of rigs | Land Rig | Swamp Rig | Shallow Offshore | Deep Offshore | Total |
|---------------|----------|-----------|------------------|---------------|-------|
| Active        | 14       | 3         | 4                | 8             | 29    |
| Stacked       | 18       | 3         | 6                | 0             | 27    |
| Standby**     | 6        | 1         | 0                | 3             | 10    |
| Total         | 38       | 7         | 10               | 11            | 66    |

Table 9: Rig Disposition by Terrain from January to December 2014

| TERRAIN          | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Land             | 22  | 13  | 16  | 15  | 15  | 15  | 16  | 13  | 14  | 14  | 12  | 14  |
| Swamp            | 6   | 5   | 5   | 5   | 5   | 5   | 4   | 3   | 3   | 3   | 3   | 3   |
| Shallow Offshore | 7   | 3   | 5   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   |
| Deep Offshore    | 9   | 10  | 10  | 9   | 9   | 9   | 9   | 9   | 9   | 9   | 7   | 8   |
| Total            | 44  | 31  | 36  | 33  | 33  | 33  | 33  | 29  | 30  | 30  | 26  | 29  |

#### 4.1.7 Drilling and Well completion

Table 10: 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   |
| Total | 256     | 302      | 115           | 673   |

Table 11: Wells Drilled by Contract and Class (2014)

|       | EXPLORATORY | APPRAISAL<br>(1 <sup>ST</sup> & 2 <sup>ND</sup> ) | ORDINARY<br>APPRAISAL | DEVELOPMENT | TOTAL |
|-------|-------------|---------------------------------------------------|-----------------------|-------------|-------|
| JVC   | 0           | 0                                                 | 3                     | 19          | 22    |
| PSC   | 3           | 3                                                 | 5                     | 58          | 69    |
| SR    | 1           | 2                                                 | 2                     | 31          | 36    |
| MF    | 0           | 1                                                 | 1                     | 13          | 15    |
| Total | 4           | 6                                                 | 11                    | 121         | 142   |

Table 12: Number of Wells drilled by Class

|       | EXPLORATORY | APPRAISAL<br>(1 <sup>ST</sup> & 2 <sup>ND</sup> ) | ORDINARY<br>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   |
| Total | 17          | 32                                                | 67                    | 557         | 673   |

#### 4.1.8 Terminal Stabilized Volumes

Table 14: 2014 Monthly Terminal Streams Production Figures

| STREAM          | JAN        | FEB        | MAR        | APR        | MAY        | JUN        | JUL       | AUG        | SEP        | OCT        | NOV        | DEC        | TOTAL       |
|-----------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|-------------|
| FORCADOS        | 5,856,699  | 5,817,137  | 2,371,703  | 5,255,456  | 6,811,411  | 6,682,112  | 5,298,717 | 6,396,800  | 5,646,505  | 5,906,025  | 5,958,659  | 5,931,568  | 67,932,791  |
| ESCRAVOS        | 6,346,902  | 5,876,730  | 6,368,496  | 5,878,657  | 6,090,261  | 5,442,489  | 5,775,786 | 6,124,981  | 5,621,054  | 5,893,071  | 5,654,683  | 5,624,555  | 70,697,665  |
| PENINGTON       | 528,124    | 500,782    | 542,109    | 500,359    | 505,916    | 479,647    | 249,411   | 459,437    | 432,695    | 459,719    | 405,557    | 441,683    | 5,505,439   |
| UKPOKITI        | 41,154     | 52,292     | 37,453     | 56,329     | 44,650     | 46,710     | 46,466    | 60,666     | 38,199     | 48,102     | 53,101     | 40,765     | 565,887     |
| EA              | 1,304,272  | 1,220,749  | 1,166,808  | 1,282,718  | 1,305,695  | 242,671    | -         | -          | -          | -          | -          | 676,929    | 7,199,842   |
| OYO/ARMADA      | 61,545     | 51,233     | 56,915     | 55,296     | 56,334     | 51,863     | 49,941    | 25,886     | 12,137     | 6          | 10         | 5          | 421,171     |
| ABO             | 710,789    | 663,223    | 734,295    | 720,982    | 776,421    | 741,491    | 337,339   | 661,808    | 700,440    | 689,614    | 630,722    | 643,323    | 8,010,447   |
| TULJA ( SEEPCO) | 399,693    | 279,345    | 260,162    | 275,475    | 475,446    | 432,388    | 308,741   | 434,161    | 481,146    | 306,609    | 520,466    | 589,351    | 4,762,983   |
| AGBAMI          | 7,673,237  | 6,911,197  | 7,260,541  | 7,129,704  | 7,366,482  | 6,988,914  | 7,185,954 | 7,504,015  | 7,370,173  | 7,458,706  | 7,222,239  | 7,208,956  | 87,280,118  |
| AKPO            | 4,921,112  | 4,457,661  | 4,893,399  | 4,554,644  | 4,936,360  | 3,637,199  | 4,934,354 | 5,047,191  | 4,739,126  | 4,602,828  | 3,775,033  | 4,812,144  | 55,311,051  |
| BONGA           | 4,471,466  | 4,477,599  | 4,951,256  | 4,145,769  | 4,121,061  | 3,857,439  | 4,301,255 | 4,926,052  | 5,193,288  | 5,944,011  | 5,866,125  | 5,983,409  | 58,238,730  |
| ERHA            | 3,159,438  | 2,788,217  | 3,241,555  | 2,996,250  | 3,222,152  | 3,026,812  | 3,037,051 | 3,103,168  | 2,784,696  | 2,935,290  | 2,906,612  | 2,958,533  | 36,159,774  |
| USAN            | 3,937,060  | 3,372,382  | 3,613,999  | 3,473,907  | 3,502,650  | 3,727,085  | 3,999,867 | 4,031,323  | 3,782,834  | 3,774,225  | 3,554,239  | 3,750,931  | 44,520,502  |
| BONNY           | 7,718,351  | 6,203,142  | 6,879,574  | 7,144,892  | 6,562,806  | 7,352,357  | 6,346,994 | 6,110,778  | 3,893,626  | 6,563,624  | 5,697,973  | 7,280,669  | 77,754,786  |
| BRASS           | 2,604,302  | 2,069,301  | 2,584,139  | 2,410,281  | 2,861,387  | 2,897,102  | 3,437,091 | 3,353,140  | 3,330,868  | 3,756,376  | 3,497,651  | 3,693,292  | 36,494,930  |
| QIT(CRUDE)      | 11,449,914 | 11,288,016 | 12,180,027 | 11,937,151 | 11,768,246 | 11,693,734 | 9,783,553 | 11,325,439 | 11,135,423 | 11,400,470 | 10,328,975 | 10,665,780 | 134,956,728 |
| ODUDU           | 2,489,830  | 2,124,831  | 2,440,274  | 2,410,852  | 2,446,598  | 1,549,248  | 2,485,622 | 2,349,234  | 2,218,978  | 2,146,288  | 1,480,108  | 2,055,454  | 26,197,317  |
| IMA             | 28,513     | 27,655     | 25,235     | 25,725     | 25,751     | 23,025     | 25,897    | 28,413     | 25,776     | 26,256     | 23,845     | 25,962     | 312,053     |
| ANTAN           | 1,622,259  | 1,360,416  | 1,523,820  | 1,431,356  | 1,536,117  | 1,369,117  | 1,461,722 | 1,558,057  | 1,504,448  | 1,491,554  | 1,405,296  | 1,458,456  | 17,722,618  |
| OKONO           | 1,387,140  | 1,230,051  | 1,312,577  | 1,197,346  | 1,293,265  | 1,187,186  | 1,039,078 | 684,048    | 713,270    | 958,889    | 903,652    | 888,061    | 12,794,563  |
| YOHO            | 1,969,658  | 1,589,017  | 1,786,204  | 1,393,596  | 1,642,834  | 1,648,707  | 1,714,905 | 1,743,593  | 1,620,978  | 1,426,958  | 1,186,940  | 1,592,100  | 19,315,490  |
| OKWORI          | 889,889    | 812,954    | 861,608    | 808,523    | 489,585    | 650,071    | 648,349   | 614,780    | 569,419    | 638,030    | 617,813    | 603,321    | 8,204,342   |
| OKORO           | 532,149    | 348,987    | 532,566    | 537,816    | 546,055    | 454,261    | 511,988   | 503,617    | 457,772    | 521,077    | 529,786    | 535,581    | 6,011,655   |
| EBOK            | 1,054,202  | 887,518    | 911,224    | 713,033    | 896,721    | 852,414    | 828,088   | 796,374    | 590,714    | 897,367    | 913,877    | 963,503    | 10,305,035  |

|                         |            |            |            |            |            |            |            |            |            |            |            |            |             |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| <b>ASARAMATORU</b>      | -          | 78,281     | 18,192     | 34,015     | 62,389     | 62,393     | 42,538     | 45,781     | 63,490     | 64,494     | 45,063     | 44,220     | 560,856     |
| <b>ANAMBRA BASIN</b>    |            |            |            |            |            |            |            |            |            |            |            |            | -           |
| <b>EKANGA</b>           | 344,007    | 322,112    | 318,401    | 320,700    | 344,007    | 332,910    | 344,007    | 331,390    | 369,900    | 356,624    | 345,120    | 344,007    | 4,073,185   |
| <b>RAPELE</b>           | 1,408,975  | 1,883,610  | 223,366    | 1,518,131  | 2,106,212  | 1,999,033  | 1,341,697  | 2,136,883  | 1,752,281  | 2,247,829  | 1,907,019  | 1,906,368  | 20,431,405  |
| <b>ADDAX CLUSTER</b>    | 178,457    | 155,736    | 223,263    | 170,728    | 193,455    | 139,572    | 201,030    | 171,324    | 196,669    | 186,687    | 191,033    | 209,224    | 2,217,176   |
| <b>PLATFORM CLUSTER</b> | 467,755    | 267,736    | 536,860    | 331,818    | 421,951    | 243,257    | 280,190    | 378,607    | 277,698    | 408,857    | 519,007    | 527,354    | 4,661,090   |
| <b>MIDWESTERN</b>       | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | 341,557    | 341,557     |
| <b>TOTAL</b>            | 73,556,892 | 67,117,910 | 67,856,021 | 68,711,509 | 72,412,218 | 67,811,207 | 66,017,631 | 70,906,945 | 65,523,603 | 71,109,585 | 66,140,604 | 71,797,060 | 828,961,186 |

# All volumes are in barrels

Table 15: Summary of Stabilized Crude Volumes

| STREAM           | 2010        | 2011        | 2012        | 2013        | 2014        |
|------------------|-------------|-------------|-------------|-------------|-------------|
| BONNY            | 92,219,866  | 98,033,224  | 85,516,915  | 64,667,075  | 77,754,786  |
| BRASS            | 45,917,620  | 45,771,536  | 38,431,094  | 31,339,249  | 36,494,930  |
| QIT CRUDE        | 129,678,627 | 127,347,638 | 128,852,443 | 130,762,200 | 134,956,728 |
| QIT CONDENSATE   | 5,234,691   | 5,088,530   |             |             |             |
| ODUDU            | 40,976,556  | 39,354,196  | 36,765,688  | 29,478,224  | 26,197,317  |
| IMA              | 486,712     | 531,261     | 246,582     | 259,429     | 312,053     |
| ANTAN            | 19,033,162  | 14,506,639  | 18,664,426  | 19,800,170  | 17,722,618  |
| OKONO            | 17,704,675  | 17,383,748  | 16,348,665  | 14,904,197  | 12,794,563  |
| YOHO             | 32,845,220  | 30,324,058  | 27,685,727  | 25,141,246  | 19,315,490  |
| OKWORI           | 14,528,987  | 12,841,416  | 12,094,784  | 9,532,752   | 8,204,342   |
| 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  | 10,305,035  |
| ABO              | 11,000,680  | 10,381,433  | 8,489,519   | 8,022,897   | 8,010,447   |
| OYO              | 2,137,871   | 1,350,839   | 1,009,845   | 812,467     | 421,171     |
| ESCAVOS          | 95,768,747  | 90,240,005  | 82,992,947  | 75,172,726  | 70,697,665  |
| FORCADOS         | 67,569,603  | 74,039,471  | 72,439,137  | 71,000,791  | 67,932,791  |
| PENNINGTON       | 10,468,651  | 10,545,422  | 9,102,862   | 7,357,435   | 5,505,439   |
| EA               | 29,524,473  | 23,082,127  | 21,075,517  | 15,626,909  | 7,199,842   |
| UKPOKITI         | 464,078     | 276,419     | 842,252     | 684,048     | 565,887     |
| TULJA            | N/A         | 1,326,212   | 1,555,612   | 3,204,478   | 4,762,983   |
| BONGA            | 65,023,519  | 52,336,416  | 64,067,957  | 50,904,162  | 58,238,730  |
| AGBAMI           | 87,169,398  | 88,304,428  | 85,041,559  | 84,871,128  | 87,280,118  |
| ERHA             | 60,722,082  | 53,045,402  | 45,680,658  | 37,657,596  | 36,159,774  |
| AKPO             | 58,444,734  | 55,628,907  | 56,650,647  | 60,851,269  | 55,311,051  |
| USAN             | -           | -           | 29,409,511  | 39,191,504  | 44,520,502  |
| ASARAMATORU      | -           | -           | -           | -           | 560,856     |
| ANAMBRA BASIN    | -           | -           | -           | -           |             |
| EKANGA(ZAFFIRO)  | -           | -           | -           | -           | 4,073,185   |
| 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 | 828,961,186 |

# All volumes are in barrels

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

\*\*Ebok commenced operations in 2011.

\*\*\*Tulja commenced operations in 2011

\*\*\*\*Usan commenced operations in 2012

#### 4.1.9 Nigerian Crude / Condensate Export Profile

Table 16: Summary of Crude / Condensate Export by Crude Stream 2014

| STREAM            | JAN        | FEB        | MAR        | APR        | MAY        | JUN       | JUL        | AUG        | SEP        | OCT        | NOV        | DEC        | TOTAL       |
|-------------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-------------|
| BONNY             | 7,678,562  | 5,674,220  | 5,010,027  | 4,588,799  | 4,303,760  | 5,553,447 | 6,208,929  | 7,536,810  | 3,720,789  | 5,166,956  | 5,798,568  | 6,504,491  | 67,745,358  |
| BRASS             | 2,849,566  | 1,820,137  | 2,506,551  | 2,964,108  | 2,198,856  | 2,673,538 | 3,670,532  | 3,047,762  | 4,046,128  | 3,559,855  | 3,463,243  | 3,599,968  | 36,400,244  |
| QIT – CRUDE       | 10,951,889 | 11,353,049 | 11,495,781 | 12,278,464 | 12,351,154 | 9,459,238 | 11,394,655 | 12,337,761 | 10,449,794 | 11,366,154 | 10,435,994 | 10,448,181 | 134,322,114 |
| OSO<br>CONDENSATE |            |            |            |            |            |           |            |            |            |            |            |            | -           |
| ODUDU             | 2,944,927  | 1,948,923  | 2,948,283  | 1,947,026  | 1,899,419  | 2,046,289 | 2,902,862  | 1,999,311  | 2,947,512  | 2,039,982  | 948,971    | 1,904,678  | 26,478,183  |
| IMA               | -          | 121,789    | -          | -          | -          | 109,923   | -          | -          | -          | -          | -          | -          | 231,712     |
| ANTAN             | 1,897,385  | 948,044    | 1,895,541  | 1,298,254  | 948,502    | 2,185,840 | 995,992    | 948,196    | 2,296,583  | 1,854,568  | 947,848    | 1,896,233  | 18,112,986  |
| OKONO             | 899,812    | 1,755,733  | 899,927    | 899,774    | 1,799,499  | 899,955   | 899,827    | 899,711    | 899,925    | 899,632    | 399,989    | 899,965    | 12,053,749  |
| YOHO              | 1,899,651  | 1,898,868  | 1,900,183  | 950,596    | 950,065    | 1,900,455 | 1,899,353  | 1,900,476  | 1,900,006  | 949,937    | 909,781    | 1,911,966  | 18,971,337  |
| OKWORI            | 1,296,812  | 673,186    | 672,864    | 1,287,131  | -          | 1,295,342 | 647,918    | -          | 647,796    | 647,821    | 889,596    | 401,595    | 8,460,061   |
| OKORO             | -          | 351,432    | 948,156    | 700,927    | -          | 1,239,966 | -          | 949,182    | 514,381    | -          | 903,964    | -          | 5,608,008   |
| EBOK              | 628,846    | 1,197,668  | 629,594    | 649,457    | 631,195    | 1,320,260 | 799,844    | 701,101    | 702,451    | 701,303    | 602,163    | 1,208,221  | 9,772,103   |
| ABO               | 699,132    | 675,761    | 699,021    | 697,839    | 665,257    | 697,592   | 680,066    | 689,832    | 697,893    | 698,650    | 698,925    | 698,124    | 8,298,092   |
| OYO               | 594,132    | -          | 699,021    | 697,839    | -          | 697,592   | 680,066    | 689,832    | -          | 698,650    | -          | 698,124    | 5,455,256   |
| ESCRAVOS          | 4,724,328  | 4,275,665  | 5,183,485  | 4,464,368  | 4,385,687  | 4,135,826 | 4,192,330  | 6,142,901  | 5,677,737  | 4,716,690  | 5,679,441  | 5,680,598  | 59,259,056  |
| FORCADOS          | 4,727,629  | 6,374,579  | 1,062,542  | 5,595,561  | 6,783,077  | 5,790,316 | 5,468,949  | 7,441,028  | 5,485,809  | 5,991,253  | 6,025,224  | 5,696,836  | 66,442,803  |
| PENNINGTON        | 983,021    | 955,003    | -          | 958,098    | -          | 966,595   | -          | -          | 981,810    | -          | 990,089    | -          | 5,834,616   |
| EA                | 948,910    | 995,003    | 994,903    | 1,896,264  | 948,406    | 648,604   | -          | -          | -          | -          | -          | 596,504    | 7,028,594   |
| UKPOKITI          | -          | -          | -          | -          | -          | 253,775   | -          | -          | -          | -          | -          | 292,480    | 546,255     |
| TULJA             | -          | -          | 973,168    | -          | -          | 991,133   | -          | -          | 993,046    | -          | 1,245,523  | -          | 4,202,870   |

|                   |            |            |            |            |            |            |            |            |            |            |            |            |             |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| BONGA             | 4,764,080  | 4,762,778  | 3,892,596  | 4,752,893  | 4,533,441  | 3,625,688  | 3,847,058  | 4,794,246  | 5,657,148  | 5,936,007  | 4,790,142  | 6,926,854  | 58,282,931  |
| AGBAMI            | 7,294,058  | 6,858,609  | 7,785,139  | 6,818,113  | 7,666,385  | 6,931,646  | 7,093,638  | 7,481,415  | 6,987,778  | 7,798,043  | 7,327,641  | 6,129,067  | 86,171,532  |
| ERHA              | 2,904,660  | 3,052,876  | 3,951,823  | 2,998,418  | 3,123,645  | 2,001,833  | 3,000,418  | 2,998,782  | 3,650,510  | 2,343,365  | 2,993,598  | 2,939,939  | 35,959,867  |
| AKPO              | 5,942,340  | 2,947,865  | 5,945,923  | 4,044,926  | 1,899,419  | 5,145,418  | 4,900,871  | 4,996,560  | 5,949,195  | 4,038,754  | 2,947,547  | 2,859,406  | 51,618,224  |
| USAN              | 3,993,363  | 3,992,638  | 3,000,345  | 4,026,822  | 3,101,810  | 3,860,143  | 3,804,834  | 3,808,582  | 3,907,248  | 4,000,360  | 3,997,697  | 3,024,160  | 44,518,002  |
| ASARAMATORU       | -          | -          | -          | -          | -          | 225,410    | -          | -          | -          | -          | -          | 319,011    | 544,421     |
| EKANGA<br>ZAFFIRO | -          | -          | 951,745    | -          | 951,368    | -          | -          | -          | 952,675    | -          | 907,436    | -          | 3,763,224   |
| TOTAL             | 68,623,103 | 62,633,826 | 64,046,618 | 64,515,677 | 59,140,945 | 64,655,824 | 63,088,142 | 69,363,488 | 69,066,214 | 63,407,980 | 62,903,380 | 64,636,401 | 776,081,598 |

# All volumes are in barrels

Table 17: Summary of Crude / Condensate Export

| STRAEM          | 2010        | 2011        | 2012        | 2013        | 2014        |
|-----------------|-------------|-------------|-------------|-------------|-------------|
| BONNY           | 84,732,535  | 85,632,150  | 74,644,120  | 56,983,360  | 67,745,358  |
| BRASS           | 46,807,579  | 46,321,912  | 38,935,783  | 30,866,918  | 36,400,244  |
| QIT – CRUDE*    | 127,265,111 | 127,473,827 | 129,434,223 | 130,387,983 | 134,322,114 |
| OSO CONDENSATE* | 4,604,786   | 5,384,790   |             |             | 0           |
| ODUDU           | 40,678,097  | 39,129,520  | 37,841,145  | 28,080,832  | 26,478,183  |
| IMA             | 587,031     | 443,148     | 360,694     | 209,822     | 231,712     |
| ANTAN           | 19,161,225  | 14,201,969  | 18,551,764  | 19,936,820  | 18,112,986  |
| OKONO           | 18,051,652  | 17,051,254  | 16,630,272  | 14,831,286  | 12,053,749  |
| YOHO            | 33,188,540  | 30,675,473  | 27,699,067  | 24,969,999  | 18,971,337  |
| OKWORI          | 14,455,280  | 12,913,267  | 11,767,917  | 9,057,835   | 8,460,061   |
| OKORO           | 5,948,727   | 5,375,374   | 6,358,125   | 6,431,941   | 5,608,008   |
| EBOK**          | N/A         | 2,632,888   | 11,083,168  | 13,118,644  | 9,772,103   |
| ABO             | 11,122,508  | 10,435,925  | 8,318,864   | 7,973,515   | 8,298,092   |
| OYO             | 3,612,118   | 1,350,055   | 1,015,747   | 671,221     | 5,455,256   |
| ESCRAVOS        | 67,842,754  | 64,008,180  | 60,861,373  | 49,395,756  | 59,259,056  |
| FORCADOS        | 66,334,530  | 74,836,802  | 69,586,326  | 66,228,558  | 66,442,803  |
| PENNINGTON      | 10,845,935  | 10,766,479  | 8,792,567   | 6,891,180   | 5,834,616   |
| EA              | 29,852,439  | 22,449,218  | 20,830,329  | 16,175,525  | 7,028,594   |
| UKPOKITI        | 326,047     | 295,409     | 804,835     | 982,136     | 546,255     |
| TULJA***        | N/A         | 587,591     | 2,132,939   | 2,957,822   | 4,202,870   |
| BONGA           | 65,062,445  | 51,637,104  | 64,283,129  | 50,858,029  | 58,282,931  |
| AGBAMI          | 86,914,891  | 88,318,131  | 85,216,347  | 84,752,375  | 86,171,532  |
| ERHA            | 61,312,426  | 52,491,417  | 46,411,568  | 37,031,702  | 35,959,867  |
| AKPO            | 60,310,968  | 56,874,365  | 57,429,881  | 60,787,043  | 51,618,224  |
| USAN****        | N/A         | N/A         | 28,942,683  | 38,357,661  | 44,518,002  |
| ASARAMATORU     |             |             |             |             | 544,421     |
| EKANGA ZAFFIRO  |             |             |             |             | 3,763,224   |
| GRAND TOTAL     | 859,017,624 | 821,286,248 | 827,932,866 | 757,937,963 | 776,081,598 |

# All volumes are in barrels

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

\*\*Ebok commenced operations in 2011.

\*\*\*Tulja commenced operations in 2011

\*\*\*\*Usan commenced operations in 2012

## 4.2 DOWNSTREAM

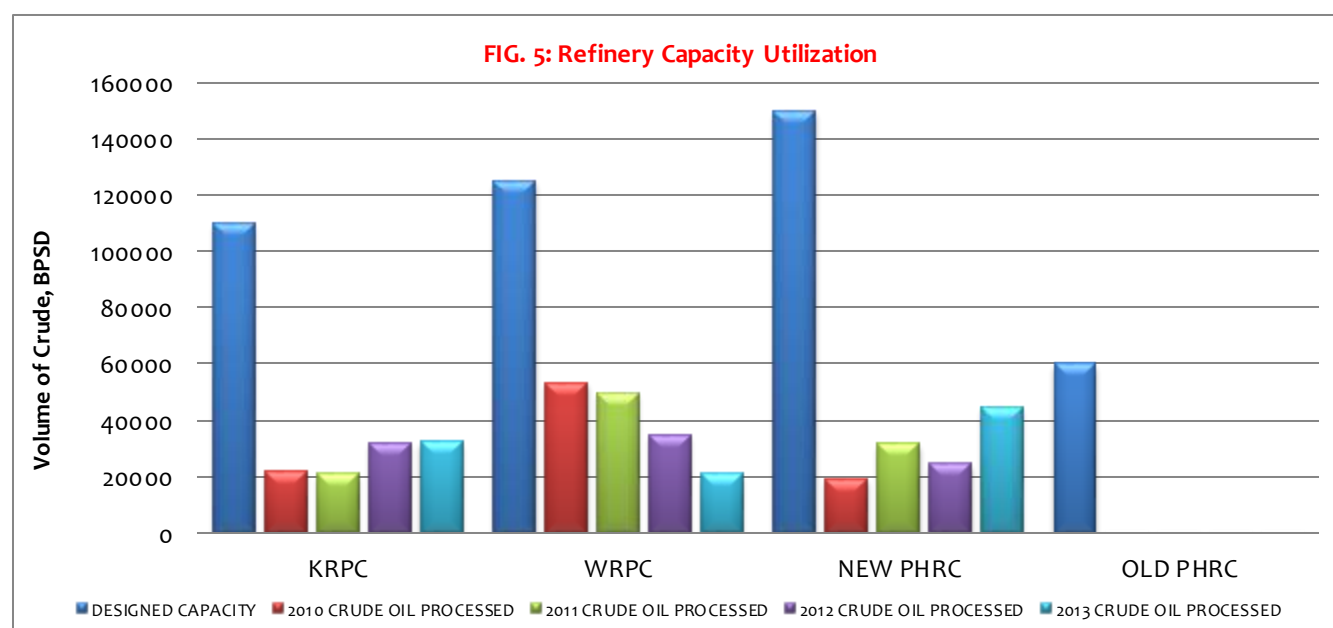
### 4.2.1 Refinery Situation Report

Table 18: 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<br>ii. Ughelli blend.                           | a. Fuels<br>b. Petrochemicals (Polypropylene & Carbon black) |
| 4 | KRPC, Kaduna State     | NNPC      | Conversion    | i. Escravos<br>ii. Ughelli blend<br>iii. Basra<br>iv. Urals | a. Fuels<br>b. Petrochemicals<br>c. Base Oil                 |
| 5 | NDPR, Rivers State     | NDPR      | Topping       | Ogbelle                                                     | Diesel                                                       |

Table 19: Refinery Capacity Utilization

|                           |      | KRPC       | WRPC       | NEW PHRC   | OLD PHRC  | NDPR     | TOTAL      |
|---------------------------|------|------------|------------|------------|-----------|----------|------------|
| 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  |
|                           | 2011 | 20,896.79  | 49,731.41  | 31,853.02  | -         | -        | 102,481.22 |
|                           | 2012 | 31,981.86  | 34,868.71  | 24,530.97  | -         | 1,000.00 | 92,381.54  |
|                           | 2013 | 32,452.43  | 20,925.04  | 44,937.47  | -         | 1,000.00 | 98,314.93  |



\* The Old Port Harcourt Refinery (Old PHRC) was down during the period being reported.

Table 20: PMS Production by Refineries

|             | PMS Production, Metric Tonnes |            |            |              |
|-------------|-------------------------------|------------|------------|--------------|
|             | KRPC                          | NEW PHRC   | WRPC       | TOTAL        |
| <b>2010</b> | 178,036.37                    | 199,611.02 | 479,027.07 | 856,674.45   |
| <b>2011</b> | 305,657.11                    | 393,919.52 | 501,974.35 | 1,201,550.98 |
| <b>2012</b> | 309,449.02                    | 226,217.10 | 330,212.60 | 865,878.72   |
| <b>2013</b> | 9,536.00                      | 258,326.82 | 357,720.45 | 1,015,583.26 |
| <b>2014</b> | 139,350.99                    | 65,110.14  | 298,876.36 | 503,337.49   |

Table 21: 2014 PMS Production Summary, Metric Tonnes

|                  | KRPC       | NEW PHRC  | WRPC       | TOTAL             |
|------------------|------------|-----------|------------|-------------------|
| <b>January</b>   | 6,914.99   | 5,433.04  | 37,477.93  | <b>49,825.95</b>  |
| <b>February</b>  | 33,483.00  | 5,664.88  | 25,024.53  | <b>64,172.41</b>  |
| <b>March</b>     | 52,347.00  | 10,765.70 | 55,654.66  | <b>118,767.36</b> |
| <b>April</b>     | 23,128.00  | 7,218.34  | 17,864.73  | <b>48,211.07</b>  |
| <b>May</b>       | 9,523.00   | 5,433.04  | 39,829.83  | <b>54,785.86</b>  |
| <b>June</b>      | -          | 5,433.04  | 32,446.16  | <b>37,879.19</b>  |
| <b>July</b>      | 4,804.00   | 6,168.01  | 54,792.17  | <b>65,764.18</b>  |
| <b>August</b>    | 8,278.00   | 2,695.00  | 27,349.81  | <b>38,322.82</b>  |
| <b>September</b> | 873        | -         | 6,355.41   | <b>7,228.41</b>   |
| <b>October</b>   | -          | 5,433.04  | -          | <b>5,433.04</b>   |
| <b>November</b>  | -          | 5,433.04  | 2,081.13   | <b>7,514.17</b>   |
| <b>December</b>  | -          | 5,433.04  | -          | <b>5,433.04</b>   |
| <b>Total</b>     | 139,350.99 | 65,110.14 | 298,876.36 | <b>503,337.49</b> |

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

Table 22: AGO Production By Refineries

|             | AGO Production, Metric Tonnes |            |        |            |                     |
|-------------|-------------------------------|------------|--------|------------|---------------------|
|             | KRPC                          | NEW PHRC   | **NDPR | WRPC       | TOTAL               |
| <b>2010</b> | 259,389.13                    | 191,363.89 | -      | 665,285.40 | <b>1,116,038.41</b> |
| <b>2011</b> | 224,750.40                    | 354,710.79 | -      | 637,286.77 | <b>1,216,747.96</b> |
| <b>2012</b> | 295,094.99                    | 290,817.56 | 24,587 | 420,117.96 | <b>1,007,030.51</b> |
| <b>2013</b> | 308,460.00                    | 175,646.88 | 24,519 | 542,428.49 | <b>1,026,535.37</b> |
| <b>2014</b> | 137,831.00                    | 573,017.61 | 24,519 | 283,063.14 | <b>993,911.75</b>   |

\* NDPR commenced AGO production in 2012.

\*\*Volumes for NDPR were erroneously reported in barrels in the previous edition.

Table 23: 2014 AGO Production Summary, Metric Tonnes

|           | KRPC       | NEW PHRC   | WRPC       | TOTAL      |
|-----------|------------|------------|------------|------------|
| January   | 9,957.99   | 59,646.91  | -          | 69,604.90  |
| February  | 34,753.01  | 26,253.52  | 56,401.37  | 117,407.90 |
| March     | 26,932.00  | -15,334.79 | 27,194.76  | 38,791.97  |
| April     | 19,169.00  | 58,171.39  | 41,890.46  | 119,230.86 |
| May       | 8,832.00   | 59,655.58  | 67,264.00  | 135,751.59 |
| June      | 3,023.00   | 59,646.99  | 15,781.62  | 78,451.61  |
| July      | 12,790.00  | 52,005.15  | 58,893.73  | 123,688.88 |
| August    | 20,655.00  | 34,384.88  | 13,216.24  | 68,256.12  |
| September | -259       | 59,646.99  | -          | 59,387.99  |
| October   | -          | 59,646.99  | 1,300.09   | 60,947.08  |
| November  | -          | 59,646.99  | 1,120.88   | 60,767.87  |
| December  | 1,978.00   | 59,646.99  | -          | 61,624.99  |
| Total     | 137,831.00 | 573,017.61 | 283,063.14 | 993,911.75 |

Table 24: DPK Production by Refineries

|      | DPK Production, Metric Tonnes |            |            |            |
|------|-------------------------------|------------|------------|------------|
|      | KRPC                          | NEW PHRC   | WRPC       | TOTAL      |
| 2010 | 120,740.93                    | 148,250.59 | 403,943.34 | 672,934.86 |
| 2011 | 119,243.93                    | 237,189.30 | 385,651.46 | 742,084.69 |
| 2012 | 162,269.01                    | 158,058.35 | 276,130.76 | 596,458.13 |
| 2013 | 200,361.99                    | 138,622.59 | 381,348.00 | 720,332.57 |
| 2014 | 89,083.95                     | 182,192.37 | 196,719.64 | 467,995.96 |

Table 25: 2014 DPK Production Summary, Metric Tonnes

|           | KRPC      | NEW PHRC   | WRPC       | TOTAL      |
|-----------|-----------|------------|------------|------------|
| January   | 9,950.97  | -          | -          | 9,950.97   |
| February  | 17,200.97 | 14,734.82  | 45,666.72  | 77,602.52  |
| March     | 16,059.00 | -590.99    | 21,113.64  | 36,581.65  |
| April     | 10,870.00 | 31,102.19  | 28,550.89  | 70,523.08  |
| May       | 6,355.00  | 30,440.02  | 42,139.37  | 78,934.38  |
| June      | 1,808.00  | 21,450.00  | 10,349.43  | 33,607.43  |
| July      | 6,639.00  | 27,934.98  | 38,449.59  | 73,023.58  |
| August    | 17,241.00 | 21,831.98  | 9,101.70   | 48,174.69  |
| September | 1,555.00  | 11,593.02  | -          | 13,148.02  |
| October   | -         | 9.01       | 792.86     | 801.87     |
| November  | -         | 738.96     | 555.44     | 1,294.40   |
| December  | 1,405.00  | 22,948.38  | -          | 24,353.38  |
| Total     | 89,083.95 | 182,192.37 | 196,719.64 | 467,995.96 |

#### 4.2.2 Petroleum Product Importation Report

Table 26: 2014 Petroleum Products Volumes as per Import Permits Issued (Metric Tonnes) \*

|              | PMS                  | AGO                  | DPK               | LPG               | ATK                 | F/O                 | BASE OIL            | CHEMICALS        | BITUMEN             | ADDITIVES         |
|--------------|----------------------|----------------------|-------------------|-------------------|---------------------|---------------------|---------------------|------------------|---------------------|-------------------|
| January      | 230,000.00           | 1,033,000.00         | -                 | 1,000.00          | 163,500.00          | 50,000.00           | 90,000.00           | -                | 12,000.00           | -                 |
| February     | 1,185,000.00         | 1,480,000.00         | -                 | 84,000.00         | 105,000.00          | 150,000.00          | 155,000.00          | 30,000.00        | 225,000.00          | -                 |
| March        | 920,000.00           | 1,186,000.00         | -                 | 15,000.00         | 345,000.00          | 100,000.00          | 110,600.00          | -                | 90,000.00           | 30,000.00         |
| April        | 456,700.00           | 1,107,000.00         | -                 | 10,070.00         | 135,000.00          | 170,000.00          | 155,000.00          | -                | -                   | -                 |
| May          | 666,800.00           | 820,000.00           | -                 | 45,600.00         | 235,000.00          | 180,000.00          | 94,500.00           | -                | 225,000.00          | 60,000.00         |
| June         | 1,470,000.00         | 1,284,000.00         | 90,000.00         | 76,000.00         | 420,000.00          | 120,000.00          | 146,700.00          | -                | 197,500.00          | 15,000.00         |
| July         | 1,195,000.00         | 1,250,000.00         | -                 | 1,000.00          | 220,000.00          | 220,000.00          | 71,700.00           | 30,000.00        | 15,000.00           | -                 |
| August       | 195,000.00           | 840,000.00           | -                 | 600               | 105,000.00          | 100,000.00          | 113,000.00          | -                | 45,000.00           | -                 |
| September    | 1,205,000.00         | 1,327,708.00         | 270,000.00        | 25,000.00         | 280,000.00          | 90,000.00           | 100,000.00          | -                | 70,000.00           | 15,000.00         |
| October      | 475,000.00           | 1,008,200.00         | 90,000.00         | 26,500.00         | 190,000.00          | 100,000.00          | 20,000.00           | -                | 30,000.00           | -                 |
| November     | 2,081,837.00         | 2,184,000.00         | 165,000.00        | 10,000.00         | 255,000.00          | 240,000.00          | 55,900.00           | -                | 196,000.00          | -                 |
| December     | 585,000.00           | 837,000.00           | 90,000.00         | 600               | 170,000.00          | 120,000.00          | 215,000.00          | 30,000.00        | -                   | -                 |
| <b>Total</b> | <b>10,665,337.00</b> | <b>14,356,908.00</b> | <b>705,000.00</b> | <b>305,370.00</b> | <b>2,623,500.00</b> | <b>1,640,000.00</b> | <b>1,327,400.00</b> | <b>90,000.00</b> | <b>1,105,500.00</b> | <b>120,000.00</b> |

\*This excludes importation by NNPC

**Table 27: 2014 Petroleum Products Import Summary, Metric Tonnes**

|                  | <b>PMS</b>    | <b>AGO</b>   | <b>DPK</b>   | <b>LPG</b> | <b>ATK</b> | <b>LPFO</b> | <b>B/OIL</b> | <b>CHEMICALS</b> | <b>BIT</b> |
|------------------|---------------|--------------|--------------|------------|------------|-------------|--------------|------------------|------------|
| <b>January</b>   | 1,033,530.29  | 203,208.05   | 237,918.31   | -          | 32,969.00  | 18,231.73   | 21,623.63    | -                | 44,621.94  |
| <b>February</b>  | 715,929.75    | 248,009.53   | 197,389.70   | -          | 20,518.99  | 9,333.07    | 9,492.62     | -                | 49,941.79  |
| <b>March</b>     | 1,056,023.11  | 267,030.56   | 198,824.94   | -          | 32,065.00  | 20,353.75   | 9,411.60     | -                | 45,411.15  |
| <b>April</b>     | 1,167,338.22  | 237,836.03   | 172,574.53   | -          | 18,764.54  | -           | 25,006.98    | -                | 25,777.58  |
| <b>May</b>       | 1,606,267.70  | 180,242.74   | 98,277.80    | -          | 53,997.39  | 5,143.37    | 29,220.71    | -                | 26,695.01  |
| <b>June</b>      | 908,849.68    | 263,388.83   | 158,574.80   | -          | -          | 29,997.81   | 7,958.00     | -                | 44,323.55  |
| <b>July</b>      | 1,253,677.60  | 396,091.78   | 272,372.18   | -          | 16,980.23  | 50,180.47   | 21,001.77    | -                | 21,167.88  |
| <b>August</b>    | 1,246,973.46  | 264,701.37   | 178,461.77   | -          | 59,590.00  | -           | 20,871.75    | -                | 16,844.71  |
| <b>September</b> | 1,046,745.73  | 295,875.33   | 163,755.47   | -          | 53,122.30  | -           | 30,712.80    | -                | 18,305.19  |
| <b>October</b>   | 1,215,197.30  | 191,633.79   | 227,077.14   | -          | 21,962.00  | 10,298.36   | 4,366.10     | -                | 10,244.50  |
| <b>November</b>  | 982,288.89    | 310,203.28   | 214,672.66   | -          | 27,866.00  | 6,087.24    | 4,063.44     | -                | 24,806.09  |
| <b>December</b>  | 1,272,644.00  | 395,011.56   | 196,290.72   | -          | 6,274.94   | 3,797.54    | 22,132.47    | -                | 22,076.08  |
| <b>Total</b>     | 13,505,465.72 | 3,253,232.85 | 2,316,190.02 | -          | 344,110.39 | 153,423.34  | 205,861.86   | -                | 350,215.47 |

Table 28: PMS Import Summary

|      | PMS, Metric Tonnes |                 |              |               | TOTAL, Litres     |
|------|--------------------|-----------------|--------------|---------------|-------------------|
|      | PPMC               | MAJOR MARKETERS | INDEPENDENT  | TOTAL         |                   |
| 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 |

Table 29: AGO Import Summary

|      | AGO, Metric Tonnes |                 |              |              | TOTAL, Litres    |
|------|--------------------|-----------------|--------------|--------------|------------------|
|      | PPMC               | MAJOR MARKETERS | INDEPENDENT  | TOTAL        |                  |
| 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 |

Table 30: DPK Import Summary

|      | DPK, Metric Tonnes |                 |             |              | TOTAL, Litres    |
|------|--------------------|-----------------|-------------|--------------|------------------|
|      | PPMC               | MAJOR MARKETERS | INDEPENDENT | TOTAL        |                  |
| 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 |

Table 30A: ATK Import Summary

|      | ATK, Metric Tonnes |                 |             |            | TOTAL, Litres  |
|------|--------------------|-----------------|-------------|------------|----------------|
|      | PPMC               | MAJOR MARKETERS | INDEPENDENT | TOTAL      |                |
| 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 |

Table 30b: LPFO Import Summary

|      | LPFO, Metric Tonnes |                 |             |            | TOTAL, Litres  |
|------|---------------------|-----------------|-------------|------------|----------------|
|      | PPMC                | MAJOR MARKETERS | INDEPENDENT | TOTAL      |                |
| 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 |

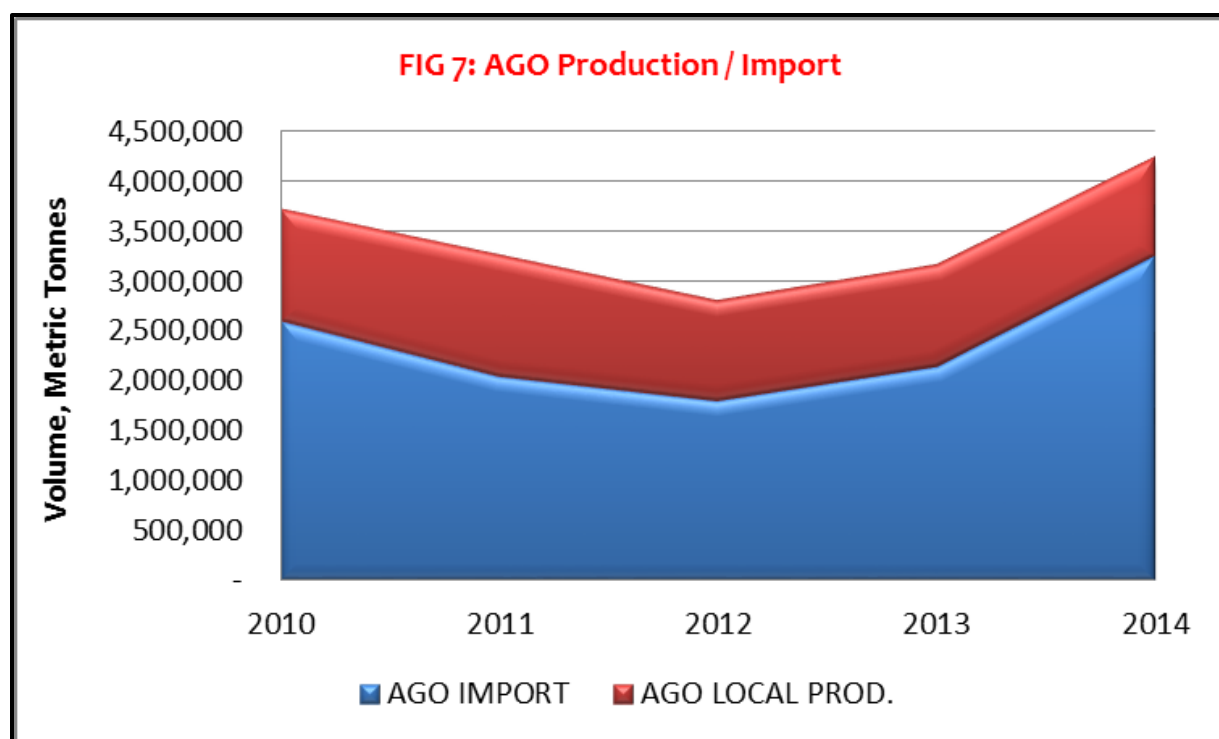
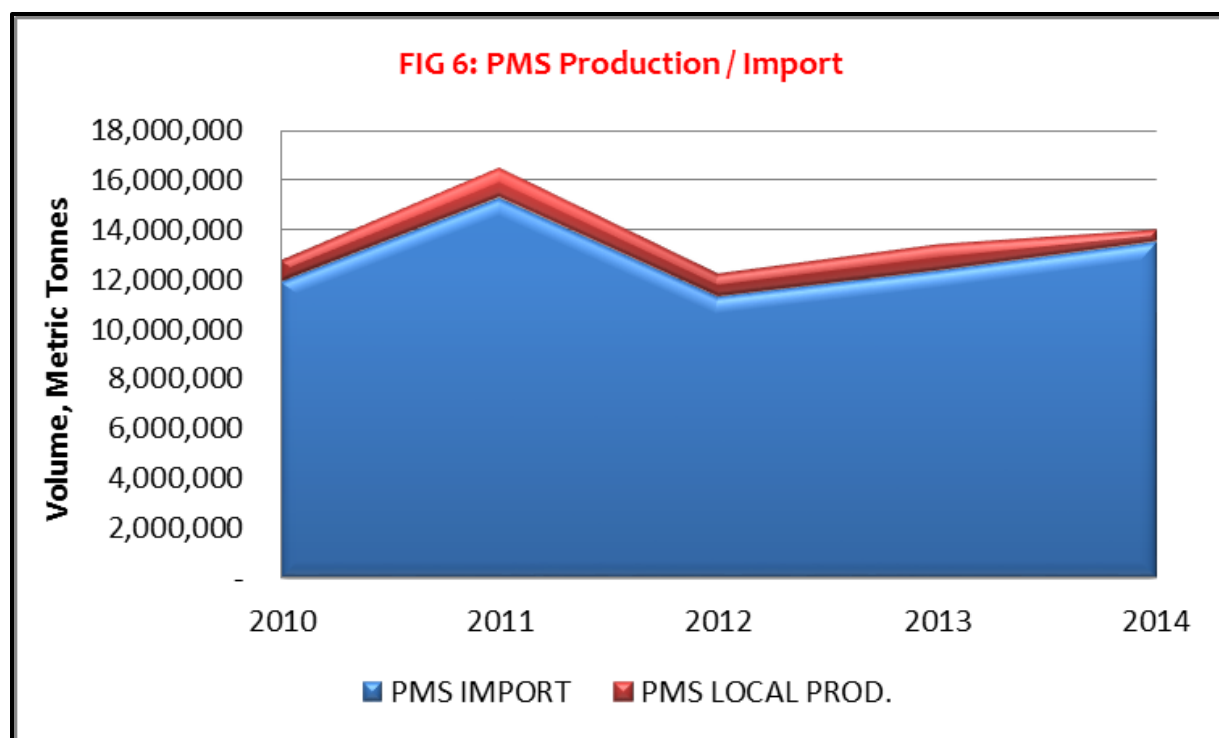
**Table 31: Summary of Petroleum Products Importation, 2014**

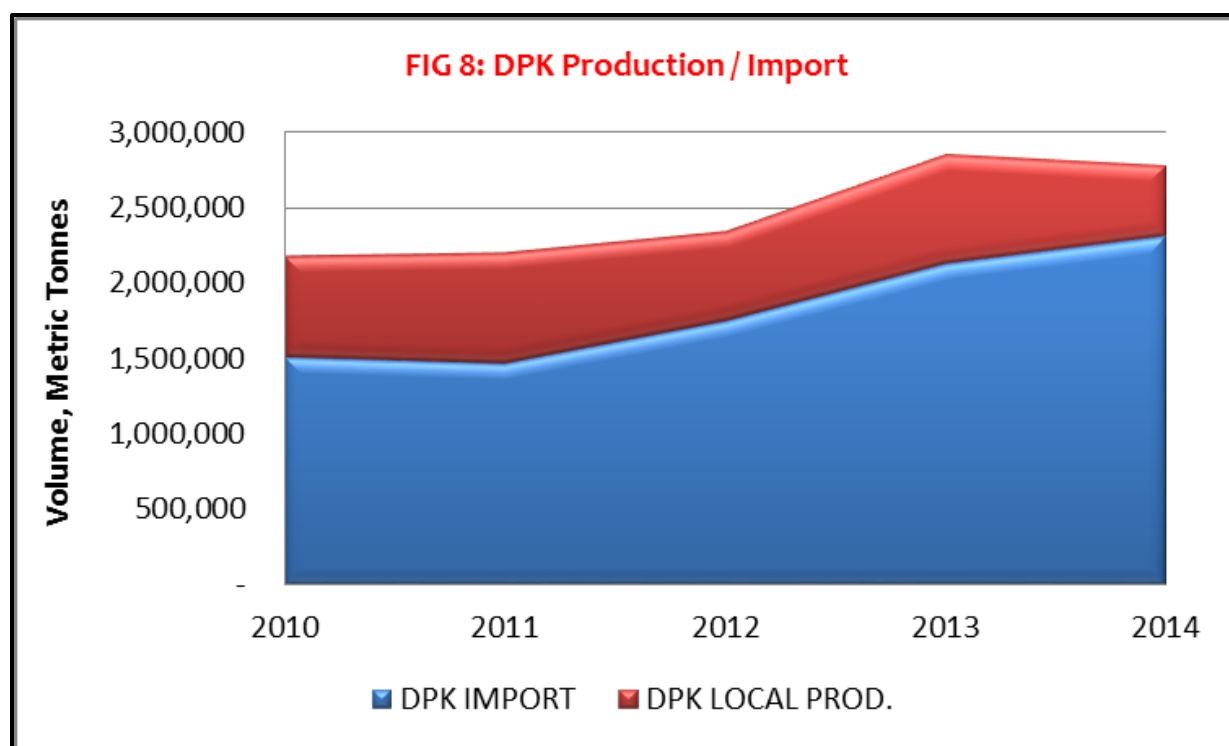
|              | PPMC                |                  |                     | MAJOR MARKETERS     |                   |                 | IPMAN               |                     |                   |
|--------------|---------------------|------------------|---------------------|---------------------|-------------------|-----------------|---------------------|---------------------|-------------------|
|              | PMS                 | AGO              | DPK                 | PMS                 | AGO               | DPK             | PMS                 | AGO                 | DPK               |
| January      | 352,915.72          | -                | 144,348.57          | 178,763.16          | 38,512.66         | -               | 501,851.41          | 164,695.39          | 93,569.73         |
| February     | 452,215.63          | -                | 124,104.68          | 20,901.17           | 4,984.09          | -               | 242,812.95          | 243,025.44          | 73,285.01         |
| March        | 387,725.92          | -                | 114,570.47          | 134,435.65          | 43,452.58         | -               | 533,861.55          | 223,577.99          | 84,254.47         |
| April        | 416,739.85          | -                | 94,284.48           | 151,914.07          | 21,839.92         | -               | 598,684.30          | 215,996.12          | 78,290.05         |
| May          | 553,560.40          | -                | 44,607.49           | 307,366.98          | 19,990.82         | -               | 745,340.32          | 160,251.93          | 53,670.31         |
| June         | 320,255.37          | 26,527.43        | 79,562.43           | 185,880.99          | 15,497.15         | -               | 402,713.32          | 221,364.26          | 79,012.38         |
| July         | 653,513.37          | 70,250.18        | 188,284.25          | 131,691.24          | 41,125.08         | -               | 468,472.99          | 284,716.53          | 84,087.94         |
| August       | 357,278.54          | -                | 104,195.87          | 224,324.61          | 62,281.37         | -               | 665,370.31          | 202,420.00          | 74,265.91         |
| September    | 312,601.29          | -                | 74,779.47           | 180,407.77          | 38,113.36         | 4,923.76        | 553,736.67          | 257,761.98          | 84,052.25         |
| October      | 340,466.12          | -                | 162,841.16          | 251,538.49          | 5,453.30          | -               | 623,192.70          | 186,180.49          | 64,235.98         |
| November     | 326,584.16          | -                | 105,839.01          | 180,957.71          | 35,011.47         | -               | 474,747.02          | 275,191.82          | 108,833.65        |
| December     | 419,408.29          | -                | 110,806.62          | 279,818.99          | 42,005.70         | 4,947.53        | 573,416.72          | 353,005.86          | 80,536.57         |
| <b>Total</b> | <b>4,893,264.66</b> | <b>96,777.60</b> | <b>1,348,224.50</b> | <b>2,228,000.82</b> | <b>368,267.47</b> | <b>9,871.29</b> | <b>6,384,200.25</b> | <b>2,788,187.78</b> | <b>958,094.23</b> |

# All volumes are in Metric tonnes



#### 4.2.3 Petroleum Products Importation / Local Refinery Production





#### 4.2.4 Petroleum Products Average Pricing

Table 32: Petroleum Products Average Consumer Price Range – 2010 (Naira per Litre)

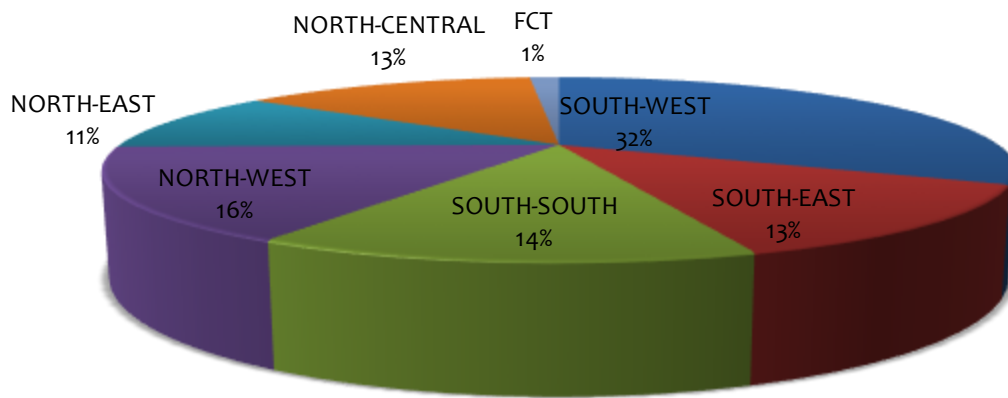
|      |                      | PMS    | AGO     | DPK     |
|------|----------------------|--------|---------|---------|
| 2010 | MAJOR                | 64-65  | 100-117 | 50-70   |
|      | INDEPENDENT MARKETER | 65-70  | 100-130 | 50-85   |
|      | N.N.P.C              | 65     | 106     | 50      |
| 2011 | MAJOR                | 64-65  | 115-170 | 50-70   |
|      | INDEPENDENT MARKETER | 65-70  | 120-180 | 100-160 |
|      | N.N.P.C              | 65     | 110-115 | 50      |
| 2012 | MAJOR                | 97     | 145-170 | 50      |
|      | INDEPENDENT MARKETER | 97-120 | 150-180 | 110-140 |
|      | N.N.P.C              | 97     | 145     | 50      |
| 2013 | MAJOR                | 97     | 150-170 | 135-140 |
|      | INDEPENDENT MARKETER | 97-130 | 140-170 | 135-140 |
|      | N.N.P.C              | 97     | 160     | 50      |
| 2014 | MAJOR                | 97     | 145-170 | 50      |
|      | INDEPENDENT MARKETER | 97-100 | 150-180 | 100-150 |
|      | N.N.P.C              | 97     | 150-175 | 50      |

## 4.2.5 Retail Outlet Report

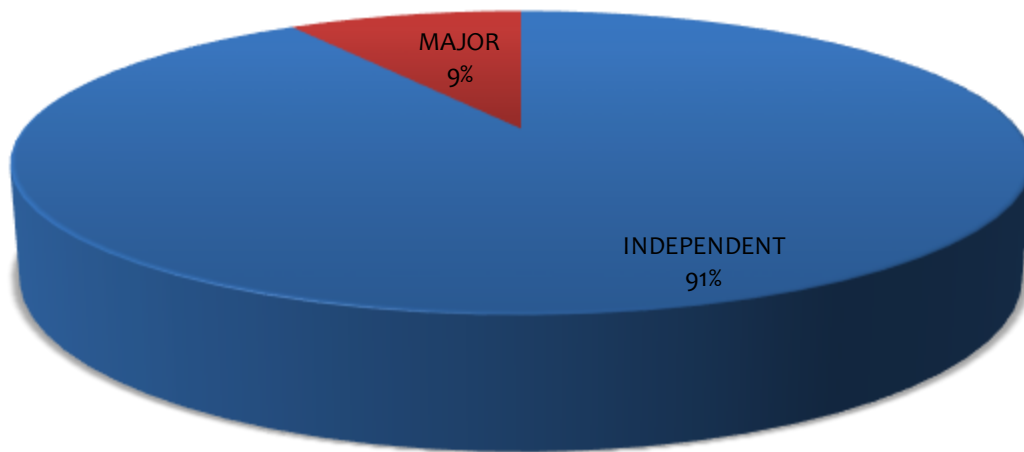
Table 33: Retail Outlets Summary - Licensed Filling Stations Count

| S/NO | STATES            | MAJOR MARKETERS |            |            |            |            |            |              | INDEPENDENT MARKETERS | GRAND TOTAL   |
|------|-------------------|-----------------|------------|------------|------------|------------|------------|--------------|-----------------------|---------------|
|      |                   | FORTE PLC       | CONOIL PLC | TOTAL NIG  | MOBIL OIL  | OANDO PLC  | MRS OIL    | Total        |                       |               |
| 1    | ABIA STATE        | 6               | 3          | 11         | 9          | 9          | 4          | 42           | 778                   | 820           |
| 2    | ABUJA             | 14              | 7          | 11         | 4          | 12         | 7          | 55           | 303                   | 358           |
| 3    | ADAMAWA STATE     | 14              | 5          | 20         | 4          | 12         | 20         | 75           | 390                   | 465           |
| 4    | AKWA-IBOM STATE   | 6               | 3          | 4          | 6          | 4          | 4          | 27           | 784                   | 811           |
| 5    | ANAMBRA STATE     | 3               | 6          | 4          | 2          | 8          | 13         | 36           | 695                   | 731           |
| 6    | BAUCHI STATE      | 5               | 5          | 4          | 3          | 6          | 5          | 28           | 385                   | 413           |
| 7    | BAYELSA STATE     | 3               | 1          | 1          | 1          | 0          | 1          | 7            | 68                    | 75            |
| 8    | BENUE STATE       | 5               | 6          | 9          | 4          | 9          | 17         | 50           | 635                   | 685           |
| 9    | BORNO STATE       | 8               | 4          | 9          | 5          | 12         | 7          | 45           | 913                   | 958           |
| 10   | CROSS RIVER STATE | 9               | 5          | 8          | 6          | 5          | 7          | 40           | 550                   | 590           |
| 11   | DELTA STATE       | 17              | 20         | 33         | 23         | 31         | 19         | 143          | 742                   | 885           |
| 12   | EBONYI STATE      | 1               | 0          | 0          | 0          | 2          | 5          | 8            | 190                   | 198           |
| 13   | EDO STATE         | 14              | 6          | 18         | 1          | 5          | 7          | 51           | 465                   | 516           |
| 14   | EKITI STATE       | 6               | 2          | 9          | 2          | 2          | 7          | 28           | 210                   | 238           |
| 15   | ENUGU STATE       | 2               | 5          | 0          | 3          | 13         | 9          | 32           | 697                   | 729           |
| 16   | GOMBE STATE       | 5               | 2          | 6          | 3          | 6          | 2          | 24           | 291                   | 315           |
| 17   | IMO STATE         | 11              | 8          | 14         | 5          | 12         | 13         | 63           | 867                   | 930           |
| 18   | JIGAWA STATE      | 10              | 1          | 4          | 5          | 0          | 2          | 22           | 298                   | 320           |
| 19   | KADUNA STATE      | 23              | 17         | 19         | 15         | 28         | 10         | 112          | 1126                  | 1238          |
| 20   | KANO STATE        | 16              | 9          | 20         | 7          | 11         | 7          | 70           | 1034                  | 1104          |
| 21   | KATSINA STATE     | 13              | 7          | 6          | 6          | 13         | 4          | 49           | 442                   | 491           |
| 22   | KEBBI STATE       | 9               | 3          | 1          | 1          | 8          | 9          | 31           | 526                   | 557           |
| 23   | KOGI STATE        | 10              | 1          | 13         | 4          | 2          | 7          | 37           | 385                   | 422           |
| 24   | KWARA STATE       | 19              | 11         | 12         | 2          | 14         | 11         | 69           | 827                   | 896           |
| 25   | LAGOS STATE       | 57              | 71         | 83         | 55         | 63         | 73         | 402          | 1751                  | 2153          |
| 26   | NASSARAWA STATE   | 3               | 3          | 9          | 2          | 11         | 7          | 35           | 348                   | 383           |
| 27   | NIGER STATE       | 29              | 13         | 12         | 5          | 10         | 5          | 74           | 522                   | 596           |
| 28   | OGUN STATE        | 49              | 26         | 45         | 14         | 56         | 23         | 213          | 2207                  | 2420          |
| 29   | ONDO STATE        | 7               | 3          | 6          | 2          | 7          | 4          | 29           | 743                   | 772           |
| 30   | OSUN STATE        | 15              | 9          | 19         | 12         | 23         | 9          | 87           | 970                   | 1057          |
| 31   | OYO STATE         | 24              | 29         | 42         | 19         | 46         | 29         | 189          | 1657                  | 1846          |
| 32   | PLATEAU STATE     | 9               | 9          | 12         | 10         | 4          | 8          | 52           | 552                   | 604           |
| 33   | RIVERS STATE      | 32              | 24         | 21         | 13         | 27         | 11         | 128          | 719                   | 847           |
| 34   | SOKOTO STATE      | 6               | 1          | 5          | 0          | 1          | 8          | 21           | 337                   | 358           |
| 35   | TARABA STATE      | 5               | 2          | 6          | 4          | 4          | 6          | 27           | 336                   | 363           |
| 36   | YOBE STATE        | 6               | 1          | 5          | 1          | 7          | 5          | 25           | 276                   | 301           |
| 37   | ZAMFARA STATE     | 6               | 3          | 8          | 2          | 6          | 2          | 27           | 207                   | 234           |
|      | <b>TOTAL</b>      | <b>477</b>      | <b>331</b> | <b>509</b> | <b>260</b> | <b>489</b> | <b>387</b> | <b>2,453</b> | <b>24,226</b>         | <b>26,679</b> |

**FIG. 9: Distribution of Licensed Retail Outlets**



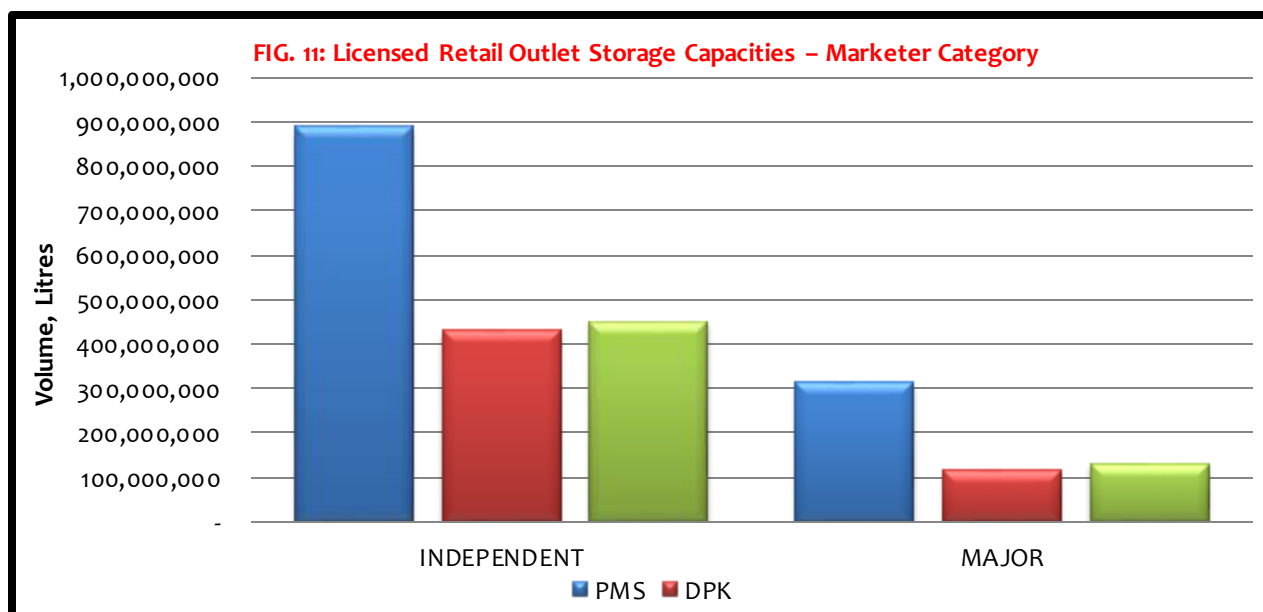
**FIG. 10: Summary of Retail Outlet Distribution by Category**



**Table 34: Retail Outlets Summary - Storage Capacities of Retail Outlets by States**

| S/NO | STATES            | MAJORS     |            |            | INDEPENDENT |             |            | TOTAL       |            |            |
|------|-------------------|------------|------------|------------|-------------|-------------|------------|-------------|------------|------------|
|      |                   | PMS (ltrs) | AGO (ltrs) | DPK (ltrs) | PMS (ltrs)  | AGO (ltrs)  | DPK (ltrs) | PMS (ltrs)  | AGO (ltrs) | DPK (ltrs) |
| 1    | ABIA STATE        | 3,430,000  | 1,486,000  | 1,296,940  | 59,688,740  | 28,099,560  | 23,867,860 | 63,318,740  | 29,685,560 | 25,264,800 |
| 2    | ABUJA             | 12,248,900 | 4,265,150  | 3,698,250  | 20,079,706  | 8,381,304   | 6,963,817  | 32,528,606  | 12,746,454 | 10,762,067 |
| 3    | ADAMAWA STATE     | 6,993,500  | 3,332,300  | 3,082,200  | 20,333,800  | 10,944,200  | 10,160,200 | 27,527,300  | 14,376,500 | 13,342,400 |
| 4    | AKWA-IBOM STATE   | 1,822,020  | 627,240    | 693,940    | 48,367,332  | 24,677,340  | 23,914,360 | 50,389,352  | 25,404,580 | 24,708,300 |
| 5    | ANAMBRA STATE     | 2,333,740  | 1,012,940  | 820,840    | 51,196,880  | 25,032,690  | 20,168,680 | 53,730,620  | 26,145,630 | 21,089,520 |
| 6    | BAUCHI STATE      | 4,395,200  | 1,837,500  | 1,490,940  | 21,931,020  | 12,300,124  | 11,003,120 | 26,526,220  | 14,237,624 | 12,594,060 |
| 7    | BAYELSA STATE     | 411,000    | 185,500    | 185,500    | 5,052,000   | 2,336,000   | 2,284,000  | 5,663,000   | 2,621,500  | 2,569,500  |
| 8    | BENUE STATE       | 6,796,900  | 3,301,860  | 2,838,820  | 34,266,020  | 20,141,450  | 17,793,280 | 41,262,920  | 23,543,310 | 20,732,100 |
| 9    | BORNO STATE       | 3,981,610  | 2,013,720  | 1,633,080  | 17,317,797  | 9,905,760   | 9,097,893  | 21,499,407  | 12,019,480 | 10,830,973 |
| 10   | CROSS RIVER STATE | 2,527,160  | 1,203,480  | 1,219,980  | 17,806,187  | 8,012,260   | 7,755,120  | 20,533,347  | 9,315,740  | 9,075,100  |
| 11   | DELTA STATE       | 2,412,180  | 2,848,140  | 2,412,180  | 30,588,260  | 15,229,307  | 12,938,307 | 33,200,440  | 18,177,447 | 15,450,487 |
| 12   | EBONYI STATE      | 466,240    | 425,080    | 283,000    | 7,279,293   | 4,160,507   | 3,406,693  | 7,945,533   | 4,685,587  | 3,789,693  |
| 13   | EDO STATE         | 5,254,080  | 2,302,820  | 1,796,540  | 15,316,697  | 9,536,647   | 7,562,873  | 20,770,777  | 11,939,467 | 9,459,413  |
| 14   | EKITI STATE       | 2,765,410  | 947,040    | 1,121,920  | 5,605,290   | 3,136,380   | 2,813,280  | 8,570,700   | 4,183,420  | 4,035,200  |
| 15   | ENUGU STATE       | 3,961,024  | 1,617,000  | 1,270,860  | 28,421,632  | 16,051,713  | 12,659,589 | 32,582,656  | 17,768,713 | 14,030,449 |
| 16   | GOMBE STATE       | 5,190,000  | 2,605,680  | 2,351,500  | 8,098,667   | 4,124,773   | 4,137,500  | 13,488,667  | 6,830,453  | 6,589,000  |
| 17   | IMO STATE         | 5,900,150  | 2,786,960  | 2,476,320  | 34,034,327  | 17,596,857  | 15,161,440 | 40,134,477  | 20,483,817 | 17,737,760 |
| 18   | JIGAWA STATE      | 2,414,440  | 1,474,000  | 1,206,660  | 8,501,187   | 5,196,000   | 4,915,780  | 11,115,627  | 6,770,000  | 6,222,440  |
| 19   | KADUNA STATE      | 16,824,980 | 6,640,140  | 5,906,060  | 30,347,907  | 19,860,887  | 18,335,833 | 47,372,887  | 26,601,027 | 24,341,893 |
| 20   | KANO STATE        | 19,889,146 | 7,901,153  | 8,876,250  | 33,164,827  | 17,544,078  | 14,207,370 | 53,253,973  | 25,545,231 | 23,183,620 |
| 21   | KATSINA STATE     | 4,589,500  | 1,989,980  | 1,838,980  | 14,776,567  | 8,265,807   | 7,323,480  | 19,566,067  | 10,355,787 | 9,262,460  |
| 22   | KEBBI STATE       | 3,575,050  | 1,918,080  | 1,687,000  | 19,294,983  | 9,876,307   | 9,704,333  | 23,070,033  | 11,894,387 | 11,491,333 |
| 23   | KOGI STATE        | 2,397,700  | 1,242,360  | 1,179,280  | 13,050,087  | 7,246,933   | 6,493,880  | 15,647,787  | 8,589,293  | 7,773,160  |
| 24   | KWARA STATE       | 11,427,130 | 4,632,230  | 3,830,512  | 22,163,050  | 13,910,297  | 12,552,496 | 33,790,180  | 18,642,527 | 16,483,008 |
| 25   | LAGOS STATE       | 75,218,440 | 26,121,040 | 22,884,800 | 37,986,600  | 21,389,573  | 17,864,773 | 113,405,040 | 47,610,613 | 40,849,573 |
| 26   | NASSARAWA STATE   | 4,829,650  | 2,463,700  | 2,075,120  | 10,360,623  | 6,095,727   | 5,332,813  | 15,390,273  | 8,659,427  | 7,507,933  |
| 27   | NIGER STATE       | 7,756,000  | 3,713,860  | 3,483,670  | 13,965,100  | 9,015,500   | 7,878,257  | 21,921,100  | 12,829,360 | 11,461,927 |
| 28   | OGUN STATE        | 22,555,200 | 10,234,680 | 8,777,400  | 80,336,267  | 46,722,573  | 42,443,693 | 103,091,467 | 57,057,253 | 51,321,093 |
| 29   | ONDO STATE        | 8,247,920  | 3,184,620  | 3,280,600  | 19,572,593  | 9,695,840   | 10,016,287 | 28,020,513  | 12,980,460 | 13,396,887 |
| 30   | OSUN STATE        | 7,252,840  | 2,705,200  | 2,950,780  | 31,072,040  | 17,302,840  | 16,801,373 | 38,524,880  | 20,108,040 | 19,852,153 |
| 31   | OYO STATE         | 19,344,080 | 7,280,420  | 7,006,740  | 49,365,293  | (3,700,513) | 26,333,340 | 68,909,373  | 3,679,907  | 33,440,080 |
| 32   | PLATEAU STATE     | 13,606,286 | 5,922,840  | 4,732,520  | 12,685,419  | 7,295,954   | 6,626,460  | 26,491,705  | 13,318,794 | 11,458,980 |

|    |               |                    |                    |                    |                    |                    |                    |                      |                    |                    |
|----|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| 33 | RIVERS STATE  | 13,316,360         | 5,479,920          | 5,235,150          | 26,578,388         | 13,666,853         | 12,155,630         | 40,094,748           | 19,246,773         | 17,490,780         |
| 34 | SOKOTO STATE  | 3,241,000          | 2,032,000          | 1,851,000          | 12,191,000         | 5,924,667          | 5,647,667          | 15,632,000           | 8,056,667          | 7,598,667          |
| 35 | TARABA STATE  | 1,706,814          | 1,070,112          | 961,400            | 12,498,729         | 7,123,629          | 6,277,267          | 14,405,543           | 8,293,741          | 7,338,667          |
| 36 | YOBE STATE    | 1,714,200          | 882,200            | 811,000            | 8,657,200          | 5,345,600          | 4,846,933          | 10,571,400           | 6,327,800          | 5,757,933          |
| 37 | ZAMFARA STATE | 2,558,910          | 1,256,000          | 1,157,510          | 6,916,363          | 3,260,333          | 3,179,340          | 9,675,273            | 4,616,333          | 4,436,850          |
|    | <b>TOTAL</b>  | <b>313,354,760</b> | <b>130,942,945</b> | <b>118,405,242</b> | <b>888,867,871</b> | <b>450,705,757</b> | <b>430,625,017</b> | <b>1,209,622,631</b> | <b>585,348,702</b> | <b>552,730,259</b> |



## 4.2.6 Petrochemicals Report

Table 35: 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 Plant Report

Table 36: 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          |
| 20 | Zico Pet. Marketing Company            | Benin, Edo              | 226,597            |
| 21 | Specialty Oil Company Nig Ltd          | Onitsha, Anambra        | 425,600            |
| 22 | Dozy 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 | Abbnnox 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            |
|    | <b>SUBTOTAL</b>                        |                         | <b>48,977,472</b>  |
|    | <b>GRAND TOTAL</b>                     |                         | <b>120,575,172</b> |

## 4.3 Gas

### 4.3.1 Domestic Gas Supply Obligation (DGSO) Performance Report

Table 37: Domestic Gas Supply Obligation Performance

| Domestic Gas Supply Obligation Performance |       |        |         |       |        |         |       |        |         |       |        |         |       |        |         |       |        |         |        |        |         |
|--------------------------------------------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|---------|--------|--------|---------|
| Company                                    | 2008  |        |         | 2009  |        |         | 2010  |        |         | 2011  |        |         | 2012  |        |         | 2013  |        |         | 2014   |        |         |
|                                            | Oblig | Supply | % Perf. | Oblig | Supply | % Perf. | Oblig | Supply | % Perf. | Oblig | Supply | % Perf. | Oblig | Supply | % Perf. | Oblig | Supply | % Perf. | Oblig  | Supply | % Perf. |
| SPDC                                       | 849   | 355    | 41.8    | 1100  | 379    | 34.5    | 1364  | 530    | 38.9    | 1559  | 553    | 35.5    | 1753  | 538    | 30.7    | 1948  | 156.7  | 8.0     | 550.0  | 209.4  | 38.1    |
| Chevron                                    | 351   | 185    | 52.7    | 455   | 185    | 40.7    | 564   | 168    | 29.8    | 644   | 268    | 41.6    | 725   | 358    | 49.4    | 805   | 318.3  | 39.5    | 500.0  | 494.0  | 98.8    |
| ExxonMobil                                 | 459   | 0      | 0       | 517   | 0      | 0       | 640   | 0      | 0       | 732   | 0      | 0       | 823   | 0      | 0       | 915   | 0      | 0.0     | 400.0  | 0.0    | 0.0     |
| NAOC                                       | 245   | 176    | 71.8    | 328   | 188    | 57.3    | 415   | 97     | 23.4    | 479   | 101    | 21.1    | 544   | 120    | 22.1    | 608   | 87.29  | 14.4    | 300.0  | 95.0   | 31.7    |
| Total/EPNL                                 | 217   | 0      | 0       | 270   | 0      | 0       | 327   | 0      | 0       | 368   | 0      | 0       | 410   | 0      | 0       | 452   | 0      | 0.0     | 250.0  | 0.0    | 0.0     |
| NPDC                                       | 45    | 0      | 0       | 120   | 0      | 0       | 120   | 0      | 0       | 120   | 0      | 0       | 120   | 65     | 54.2    | 120   | 321    | 267.5   | 700.0  | 344.0  | 49.1    |
| Addax/NNPC PSC                             | 0     | 0      |         | 140   | 0      | 0       | 140   | 0      | 0       | 140   | 0      | 0       | 144   | 0      | 0       | 160   | 0      | 0.0     | 1000   | 0.0    | 0.0     |
| Pan Ocean                                  | 65    | 0      | 0       | 65    | 0      | 0       | 65    | 0      | 0       | 65    | 44.4   | 68.3    | 65    | 36     | 55.4    | 65    | 17.39  | 26.8    | 20.0   | 12.9   | 64.3    |
| SEPLAT                                     | 0     | 0      |         | 0     | 0      |         | 0     | 0      |         | 0     | 0      |         | 0     | 0      |         | 0     | 130    |         | 150.0  | 125.0  | 83.5    |
| Total                                      | 2,231 | 716    | 32.1    | 2,995 | 752    | 25.1    | 3,635 | 795    | 21.9    | 4,107 | 966.4  | 23.5    | 4,584 | 1,113  | 24.3    | 5,073 | 1,031  | 20.3    | 3940.5 | 1280.3 | 32.5    |

\* All values are in MMSCF/D

\* DSO was allocated to the NNPC PSC in 2014

**FIG. 12: Domestic Gas Supply Obligation Performance**

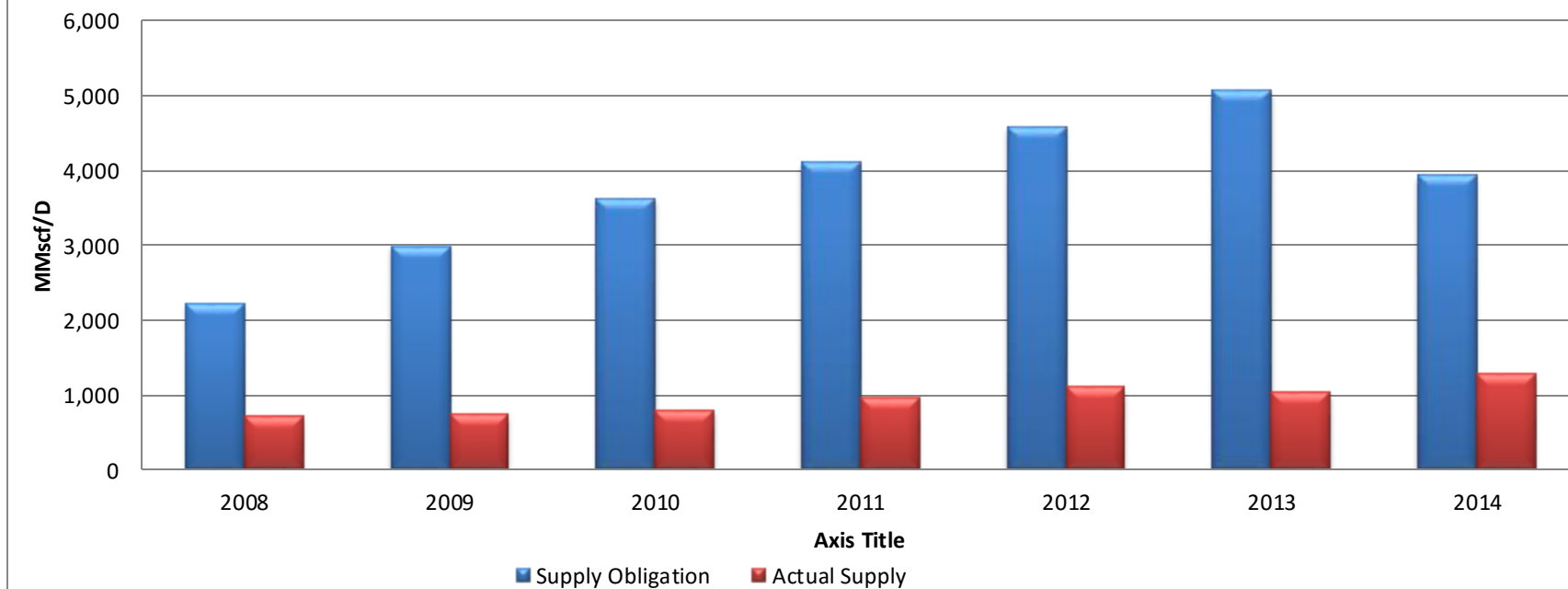


Fig. 12 depicts the combined performance of Industry in the Domestic Gas supply Obligation placed on Operators over the 2008-2014 time frame in line with the provisions of the Nigerian Domestic Gas Supply and Pricing Regulations (NDGSR), 2005. The plots shows increasing National Obligation from 2,231 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 37.

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 38: 2014 Domestic Gas Supply Obligation From 2014-2018 for E&P Companies

| Gas producers  | 2014 DSO@ 3.9 BSCFD | 2015 DSO @ 4.4 BSCFD | 2016 DSO @ 5.9 BSCFD | 2017 DSO @ 6.2 BSCFD | 2018 DSO @ 6.4 BSCFD |
|----------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Chevron JV     | 500                 | 500                  | 700                  | 700                  | 700                  |
| SPDC JV        | 550                 | 750                  | 820                  | 830                  | 1000                 |
| NAOC JV        | 300                 | 350                  | 480                  | 550                  | 550                  |
| EXXON MOBIL JV | 400                 | 400                  | 800                  | 800                  | 800                  |
| TEPNL JV       | 250                 | 280                  | 340                  | 400                  | 400                  |
| NPDC           | 700                 | 800                  | 900                  | 900                  | 900                  |
| PAN OCEAN      | 20                  | 20                   | 20                   | 30                   | 40                   |
| SEPLAT         | 150                 | 210                  | 250                  | 350                  | 350                  |
| MONIPULO       | 11                  | 13                   | 15                   | 20                   | 30                   |
| NIGER DELTA    | 5                   | 7                    | 8                    | 9                    | 10                   |
| PLATFORM       | 20                  | 23                   | 27                   | 30                   | 40                   |
| FRONTIER       | 7.5                 | 9                    | 10                   | 12                   | 15                   |
| UNIVERSAL      | 5                   | 7                    | 7                    | 8                    | 8                    |
| AMNI           | 8                   | 8                    | 10                   | 12                   | 15                   |
| CONSOLIDATED   | 5                   | 6                    | 7                    | 8                    | 9                    |
| CONTINENTAL    | 5                   | 5                    | 6                    | 7                    | 8                    |
| BRITTANIA-U    | 1                   | 1                    | 0.7                  | 1                    | 1                    |
| DUBRI          | 3                   | 4                    | 4                    | 5                    | 5                    |
| NNPC PSC       | 1000                | 1000                 | 1500                 | 1500                 | 1500                 |
| <b>TOTAL</b>   | <b>3940.5</b>       | <b>4393</b>          | <b>5904.7</b>        | <b>6172</b>          | <b>6381</b>          |

## 4.3.2 Gas Production and Utilization Report

Table 39: Summary of Gas Production and Utilization

|           | AG            | NAG           | TOTAL GAS PRODUCED | FUEL GAS    | DOMESTIC GAS SALES | GAS LIFT   | RE-INJECTION | FEEDSTOCK (NGC/LPG) | NLNG (EXPORT) | TOTAL GAS UTILIZED | TOTAL GAS FLARED | % UTILIZED | % FLARED |
|-----------|---------------|---------------|--------------------|-------------|--------------------|------------|--------------|---------------------|---------------|--------------------|------------------|------------|----------|
| January   | 164,044,348   | 93,272,664    | 257,317,012        | 13,374,544  | 33,627,171         | 6,609,089  | 71,757,130   | 4,323,035           | 91,507,842    | 221,198,811        | 36,118,201       | 86         | 14       |
| February  | 150,470,950   | 84,892,363    | 235,363,313        | 12,013,325  | 33,806,138         | 6,375,085  | 64,509,466   | 4,638,648           | 78,768,229    | 200,110,890        | 35,252,422       | 85         | 15       |
| March     | 156,014,417   | 98,775,084    | 254,789,501        | 13,037,294  | 33,896,976         | 6,692,747  | 67,374,333   | 5,072,031           | 95,221,498    | 221,294,878        | 33,494,623       | 87         | 13       |
| April     | 153,582,607   | 91,844,570    | 245,427,177        | 12,435,573  | 35,328,564         | 7,284,690  | 65,327,558   | 4,831,817           | 87,102,534    | 212,310,736        | 33,116,442       | 87         | 13       |
| May       | 157,844,590   | 108,446,667   | 266,291,257        | 13,018,188  | 40,817,076         | 6,513,158  | 67,243,285   | 4,479,248           | 99,468,794    | 231,539,749        | 34,751,508       | 87         | 13       |
| June      | 141,383,266   | 104,918,914   | 246,302,179        | 12,486,136  | 35,733,040         | 7,255,709  | 61,386,509   | 4,352,404           | 91,378,433    | 212,592,230        | 33,709,949       | 86         | 14       |
| July      | 177,286,455   | 78,555,933    | 255,842,388        | 13,140,591  | 35,637,281         | 7,261,097  | 71,588,587   | 4,852,554           | 91,439,106    | 223,919,217        | 31,923,171       | 88         | 12       |
| August    | 164,772,319   | 106,818,641   | 271,590,960        | 13,676,599  | 37,047,690         | 7,750,476  | 74,105,403   | 5,428,851           | 100,671,167   | 238,680,186        | 32,910,774       | 88         | 12       |
| September | 153,978,122   | 85,056,215    | 239,034,337        | 12,415,120  | 31,985,959         | 7,569,910  | 70,998,003   | 4,578,422           | 82,236,578    | 209,783,992        | 29,250,345       | 88         | 12       |
| October   | 154,604,015   | 111,208,387   | 265,812,402        | 12,552,045  | 35,585,051         | 8,363,042  | 67,106,596   | 4,887,682           | 105,066,936   | 233,561,353        | 32,251,049       | 88         | 12       |
| November  | 143,530,499   | 106,575,254   | 250,105,753        | 12,874,992  | 35,056,867         | 7,305,867  | 63,743,781   | 4,945,683           | 97,863,031    | 221,790,222        | 28,315,531       | 89         | 11       |
| December  | 162,863,069   | 97,807,136    | 260,670,205        | 13,013,510  | 36,216,557         | 8,149,167  | 63,363,014   | 4,394,855           | 102,787,282   | 227,924,385        | 32,745,820       | 87         | 13       |
| Total     | 1,880,374,658 | 1,168,171,828 | 3,048,546,486      | 154,037,918 | 424,738,371        | 87,130,036 | 808,503,665  | 56,785,229          | 1,123,511,431 | 2,654,706,650      | 393,839,836      | 87         | 13       |

# All volumes are in MSCF

**Table 40: 2014 Summary of Gas Production and Utilization**

|      | AG            | NAG           | GAS PRODUCTION | FUEL        | DOMESTIC SALES | GAS LIFT   | RE-INJECTION | NGL        | SALES TO NLNG | TOTAL GAS UTILISED | TOTAL GAS FLARED | % UTILISED | % FLARED |
|------|---------------|---------------|----------------|-------------|----------------|------------|--------------|------------|---------------|--------------------|------------------|------------|----------|
| 2001 | 1,551,912,250 | 391,683,723   | 1,943,595,973  | 80,269,287  | 141,067,615    | 26,142,438 | 336,523,011  | 52,033,317 | 306,812,223   | 942,847,891        | 1,000,748,082    | 49         | 51       |
| 2002 | 1,340,591,744 | 410,542,712   | 1,751,134,456  | 75,008,164  | 111,435,703    | 28,948,137 | 306,475,680  | 27,435,764 | 280,903,198   | 830,206,646        | 920,927,810      | 47         | 53       |
| 2003 | 1,387,104,460 | 516,223,961   | 1,903,328,421  | 71,590,002  | 214,182,219    | 28,973,434 | 272,481,721  | 36,648,692 | 477,983,042   | 1,101,859,110      | 801,469,311      | 58         | 42       |
| 2004 | 1,584,922,039 | 525,256,005   | 2,110,178,044  | 83,627,321  | 262,897,801    | 26,611,460 | 398,179,304  | 43,181,065 | 444,033,291   | 1,258,530,242      | 851,647,802      | 60         | 40       |
| 2005 | 1,626,444,779 | 508,893,962   | 2,135,338,741  | 88,786,060  | 234,780,140    | 43,781,302 | 402,390,225  | 57,345,709 | 502,737,873   | 1,329,821,309      | 805,517,432      | 62         | 38       |
| 2006 | 1,542,136,671 | 747,754,914   | 2,289,891,585  | 89,025,509  | 326,264,627    | 59,662,180 | 391,968,180  | 44,295,798 | 558,246,752   | 1,469,463,046      | 820,428,539      | 64         | 36       |
| 2007 | 1,599,190,078 | 1,007,675,245 | 2,606,865,323  | 99,705,731  | 279,970,609    | 49,204,125 | 485,642,132  | 31,751,276 | 843,948,502   | 1,790,222,375      | 816,642,948      | 69         | 31       |
| 2008 | 1,593,835,503 | 986,561,109   | 2,580,396,612  | 100,058,117 | 232,164,155    | 64,822,893 | 507,947,176  | 35,720,163 | 968,898,071   | 1,909,610,576      | 670,786,036      | 74         | 26       |
| 2009 | 1,582,137,295 | 645,978,947   | 2,228,116,241  | 108,676,564 | 237,287,426    | 58,655,769 | 599,618,597  | 46,874,213 | 640,635,350   | 1,691,747,917      | 536,368,324      | 76         | 24       |
| 2010 | 1,865,159,719 | 954,522,126   | 2,819,681,845  | 133,431,927 | 285,802,520    | 65,128,415 | 751,705,008  | 46,591,153 | 992,293,989   | 2,274,953,012      | 544,728,832      | 81         | 19       |
| 2011 | 1,839,230,068 | 1,127,423,119 | 2,966,653,187  | 139,425,042 | 344,481,029    | 91,970,753 | 703,579,860  | 68,391,658 | 1,114,860,569 | 2,462,708,911      | 503,944,277      | 83         | 17       |
| 2012 | 1,872,875,894 | 1,123,160,177 | 2,996,036,072  | 146,168,448 | 372,044,969    | 88,839,035 | 724,648,283  | 67,756,862 | 1,131,321,835 | 2,530,779,433      | 465,256,639      | 84         | 16       |
| 2013 | 1,786,603,702 | 1,025,377,681 | 2,811,981,383  | 152,134,470 | 391,435,743    | 54,264,412 | 758,079,412  | 63,286,195 | 964,809,782   | 2,384,010,015      | 427,971,368      | 85         | 15       |
| 2014 | 1,880,374,658 | 1,168,171,828 | 3,048,546,486  | 154,037,918 | 424,738,371    | 87,130,036 | 808,503,665  | 56,785,229 | 1,123,511,431 | 2,654,706,650      | 393,839,836      | 87         | 13       |

# All volumes are in MSCF

FIG. 13: Gas Utilization Profile

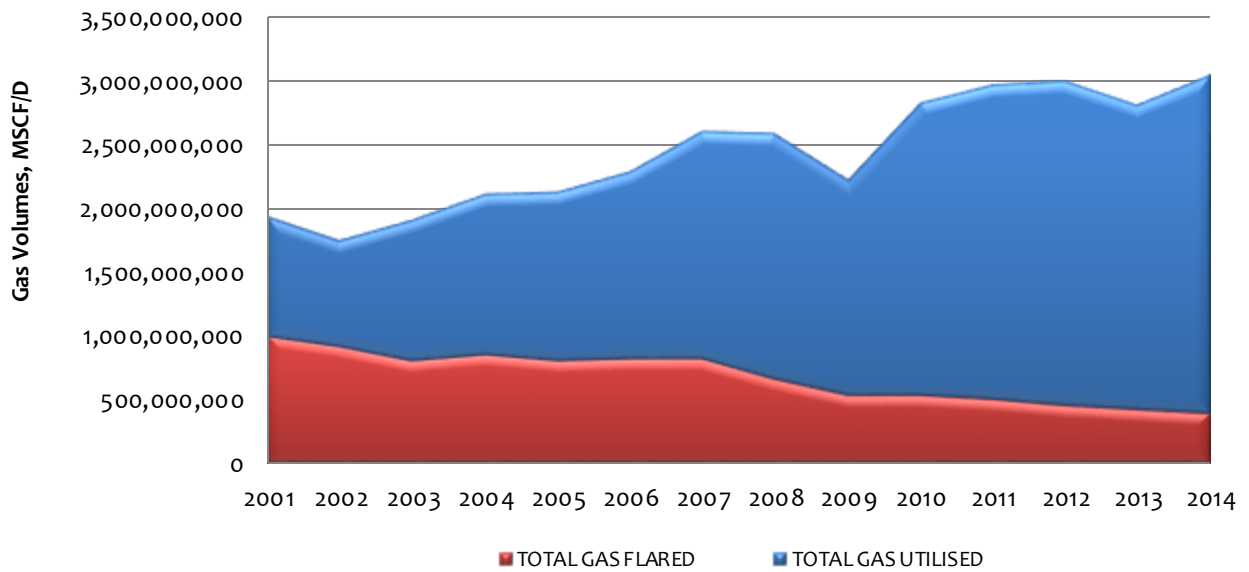
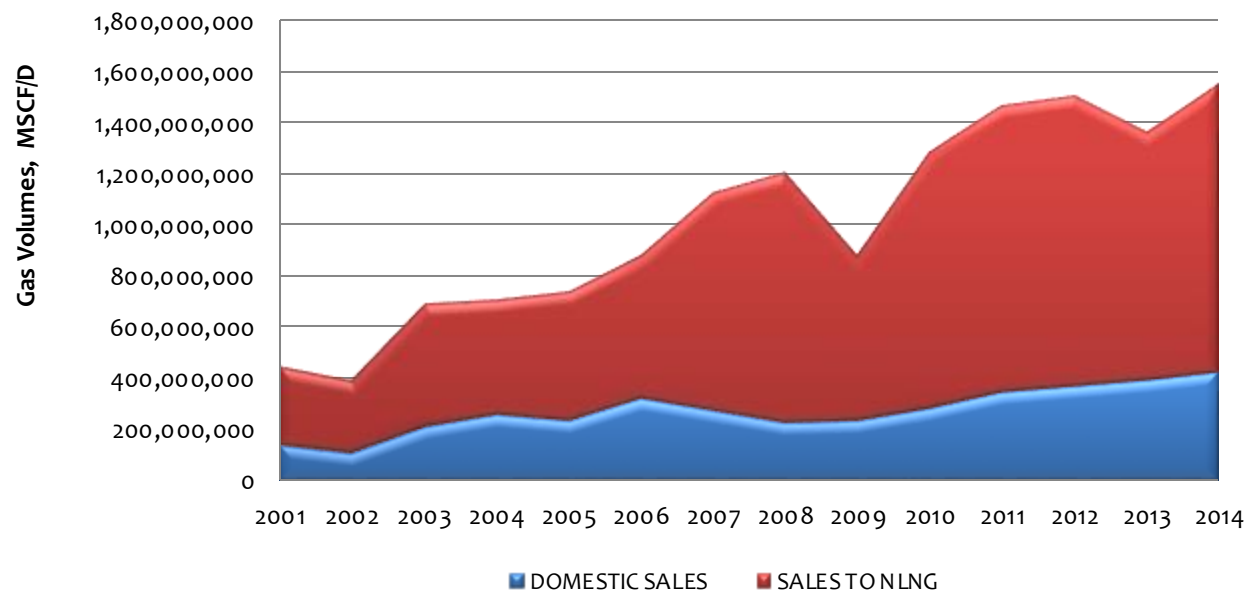


FIG. 14: Gas Sales (Domestic / Export)



### 4.3.3 Gas Infrastructure Report

Table 41: Major Gas Facilities

| S/N | OPERATING COMPANY | FACILITY                        | TYPE                                        | LOCATION                       | TERRAIN  | DATE COMMISSIONED / INSTALLED | DESIGNED CAPACITY (mmscf/d) | OPERATING CAPACITY (mmscf/d) |
|-----|-------------------|---------------------------------|---------------------------------------------|--------------------------------|----------|-------------------------------|-----------------------------|------------------------------|
| 1   | ADDAX             | Izombe Gas Plant                | Gas Lifting (Old Plant)                     | Izombe (OML 124)               |          | 1984                          | 16.78 @ 3500 psi            | 13.52 @ 3500psi              |
| 2   |                   | Izombe Gas Plant                | Gas Lifting/ Flare Down Purpose (New Plant) | Izombe (OML 124)               |          | Dec. 3, 2009                  | 48 @ 3500psi                | 32 @ 3500psi                 |
| 3   | CHEVRON           | EGP 1                           | Gas Plant                                   | Escravos                       |          | May 1997                      | 165                         | 120-135                      |
| 4   |                   | EGP2                            | Gas Plant                                   | Escravos                       |          | April 1999                    | 120                         | 100                          |
| 5   |                   | EGP3                            | Gas Plant                                   | Escravos                       |          | April 2010                    | 395                         | 375-380                      |
| 6   |                   | Okan GGCP                       | Gas Gathering and Compression               | Okan Field south Offshore Area | OFFSHORE | May 1997                      | 265                         | 263\ (240 to EGP: 23 to GL)  |
| 7   |                   | Meji GGCP                       | Gas Gathering and Compression               | Meji field South Offshore Area | O        |                               | 70                          | 65                           |
| 8   |                   | Meren Gas Compression platform  | Gas Gathering and Compression               | Meren 1 North offshore area    | O        | April 1000                    | 24                          | 21.527                       |
| 11  | EXXONMOBIL        | Erha FPSO                       | Gas Compression                             | Erha FPSO                      | D        | March 2006                    | 340                         | 360                          |
| 12  |                   | Erha FPSO                       | Gas Turbine Generator                       | Erha FPSO                      |          | March 2006                    | 20                          | 20                           |
| 13  |                   | Oso NGL Extraction RX Platform  | NGL Extraction                              | Oso                            |          |                               | 600 mmscf/d                 |                              |
| 14  |                   | EAP RX                          | NGL Extraction                              | EAP Field                      |          |                               | 610 mmscf/d                 |                              |
| 15  |                   | Bonny River Terminal I and II   | NGL                                         | Bonny                          |          |                               | 85 KBD NGL                  |                              |
| 16  | NAOC              | Obiafu / Obricom Gas Plant      | Gas Treatment Plant                         | Omoku Rivers State             | L        | 1985                          | 1200                        | 890                          |
| 17  |                   | Kwale Gas Plant                 | Gas & Oil Processing Plant                  | Kwale Delta State              | L        | 1985                          | 375                         | 252                          |
| 18  | NPDC              | Afiesere NGC compressor station | Compressor station                          | AFIESERE                       |          | -                             | 8                           | Non Operational              |

|    |                                      |                    |              |   |      |     |                 |
|----|--------------------------------------|--------------------|--------------|---|------|-----|-----------------|
| 19 | Afiesere Gas lift compressor station | Compressor station | AFIESERE     |   | 1997 | 21  | 8               |
| 20 | EGWA 1 FS Booster compressor station | Compressor station | EGWA         | S | 2002 | 10  | Non Operational |
| 21 | EGWA 2 FS Booster compressor station | Compressor station | EGWA         |   | 2002 | 10  | Down            |
| 22 | Eriemu NGC compressor station        | Compressor station | EREMU        | L | 2002 | 10  | Non Operational |
| 23 | Jones creek NGC compressor station   | Compressor station | JONES CREEK  | S | -    | 18  | Non Operational |
| 24 | Kokori NGC Compressor station        | Compressor station | KOKORI       | L | -    | 8   | Non Operational |
| 25 | Odidi AGG Plant                      | AGG Plant          | ODIDI        | S | 2001 | 80  | Non Operational |
| 26 | Odidi NGC Compressor station         | Compressor station | ODIDI        |   | -    | 18  | Non Operational |
| 27 | Olomoro Oleh NGC Compressor Station  | Compressor Station | OLOMORO-OLEH | L | -    | 3.3 | Non Operational |
| 28 | Oweh NGC Compressor Station          | Compressor Station | OWEH         | L | -    | 5.5 | Non Operational |
| 29 | Ughelli East NAG Plant               | NAG Plant          | UGHELLI EAST | L | 1966 | 150 | 90              |
| 30 | Utorogu NAG Plant                    | NAG Plant          | UTOROGU      | L | 1988 | 360 | 360             |
| 31 | Utorogu NGC Compressor Station       | Compressor Station | UTOROGU      |   | 2004 | 7   | 7               |

|    |             |                                        |                    |              |   |            |     |                 |
|----|-------------|----------------------------------------|--------------------|--------------|---|------------|-----|-----------------|
| 32 |             | Uzere West NGC Compressor Station      | Compressor Station | UZERE WEST   | L | -          | 10  | Non Operational |
| 33 |             | Oredo Gas Handling Plant               | Processing Plant   | Oredo        | L | Q2 2010    | 100 |                 |
| 34 |             | Egbema West AG Solution Plant          | Processing Plant   | Egbema West  |   | Q1 2011    | 6   |                 |
| 35 | SEPLAT      | Oben NAG Plant                         | NAG Plant Oben     | OBEN         | L | 1982       | 90  | 90              |
| 36 |             | Oben NGC Compressor Station            | Compressor station | OBEN         |   | -          | 16  | 16              |
| 37 |             | Sapele NAG Plant                       | NAG Plant          | SAPELE       | L | 1978       | 120 | 120             |
| 38 |             | Sapele NGC Compressor Station          | Compressor Station | SAPELE       |   | 2003       | 24  | 24              |
| 39 | SE PR O/ TU | Akpo                                   | FPSO               | OML 130      | D | March 2009 | 530 | 485 - 570       |
| 40 | SPDC        | Agbada AGG Plant                       | AGG Plant          | AGBADA       | L | 2002       | 58  | 58              |
| 41 |             | Agbada 1 FS Booster compressor station | Compressor station | AGBADA       |   | 2002       | 12  | 12              |
| 42 |             | Alakiri NAG Plant                      | NAG Plant          | ALAKIRI      | S | 1987       | 120 | 120             |
| 43 |             | Awoba AGG Plant                        | AGG Plant          | AWOBA        | S | 2004       | 50  | Non Operational |
| 44 |             | Batan FS Booster compressor station    | Compressor station | BOTAN        |   | 2002       | 10  | Non Operational |
| 45 |             | Belema FS Booster compressor station   | Compressor station | BELEMA       | S | 2002       | 12  | 12              |
| 46 |             | Belema AGG Plant                       | AGG Plant          | BELEMA NORTH |   | 2002       | 55  | 55              |
| 47 |             | Bonny NAG Plant                        | NAG Plant          | BONNY        | S | 2002       | 450 | 450             |

|    |  |                                             |                                 |                   |   |      |        |                  |
|----|--|---------------------------------------------|---------------------------------|-------------------|---|------|--------|------------------|
| 48 |  | Cawthorne Channel AGG Plant                 | AGG Plant                       | CAWTHORNE CHANNEL | S | 2005 | 150    | 150              |
| 49 |  | Ekulama 1 FS Booster compressor station     | Compressor station              | EKULAMA           | S | 2002 | 12     | 12               |
| 50 |  | Ekulama 2 FS Booster compressor station     | Compressor station              | EKULAMA           |   | 2002 | 12     | 12               |
| 51 |  | Escravos Beach FS NGC compressor station    | NGC compressor station          | ESCRAVOS          | S | -    | 18     | Non Operational  |
| 52 |  | Gbaran Central Processing Facility          | Integrated Oil and Gas Facility | GBARAN            | L |      | 1 BSCF |                  |
| 53 |  | Imo River 2 FS Booster compressor station   | compressor station              | IMO RIVER         | L | 2002 | 12     | 12               |
| 54 |  | Imo River 3 FS Booster compressor station   | Compressor station              | IMO RIVER         |   | 2002 | 12     | 12               |
| 55 |  | Imo River AGG Plant                         | AGG Plant                       | IMO RIVER 1       |   | 2002 | 65     | 65               |
| 56 |  | Krakama FS Booster compressor station       | AGG Plant                       | KRAKAMA           | S | -    | 5      | Not Commissioned |
| 57 |  | Nembe Creek 1 FS Booster compressor station | Compressor station              | NEMBE CREEK       | S | 2001 | 10     | 4                |

|    |  |                                             |                     |               |   |                     |      |                  |
|----|--|---------------------------------------------|---------------------|---------------|---|---------------------|------|------------------|
| 58 |  | Nembe Creek 2 FS Booster compressor station | Compressor station  | NEMBE CREEK   | S | 2001                | 10   | 4                |
| 59 |  | Nembe Creek 3 FS Booster compressor station | Compressor station  | NEMBE CREEK   |   | 2001                | 5    | 4                |
| 60 |  | Nembe Creek 4 FS Booster compressor station | Compressor station  | NEMBE CREEK   |   | 2001                | 5    | 4                |
| 61 |  | Nkali FS Booster compressor station         | Compressor station  | NKALI         | L | 2003                | 12   | 12               |
| 62 |  | Obigbo North AGG Plant                      | AGG Plant           | OBIGBO NORTH  | L | 1989                | 54   | 54               |
| 63 |  | Obigbo North NAG Plant                      | NAG Plant           | OBIGBO NORTH  |   | 1984                | 90   | 45               |
| 64 |  | Odeama Creek FS Booster compressor station  | Compressor station  | ODEAMA CREEK  | S | -                   | 5    | Not Commissioned |
| 65 |  | Oguta Gas Injection Plant                   | Gas Injection Plant | OGUTA         | L | Recommissioned 2004 | 40   | 13               |
| 66 |  | Okoloma NAG Plant                           | NAG Plant           | OKOLOMA       | S | 2008                | 240  | 240              |
| 67 |  | Santa Barbara FS Booster compressor station | Compressor Station  | SANTA BARBARA | S | 2001                | 8    | 8                |
| 68 |  | Soku FS Booster compressor station          | Compressor Station  | SOKU          | S | 2002                | 5    | 5                |
| 69 |  | Soku NLNG Gas Supply Plant                  | AG/NAG Plant        | SOKU          |   | 1999                | 1100 | 1100             |

|    |       |                          |  |               |   |  |  |  |
|----|-------|--------------------------|--|---------------|---|--|--|--|
| 70 | TOTAL | Amenam kpono<br>AG Plant |  |               | O |  |  |  |
| 71 |       | Obite AG Plant           |  | Obite – Obagi |   |  |  |  |

#### 4.3.4 Liquefied Natural Gas (LNG) Plant Report

Table 42: LNG Plants Details

| S/N<br>. | OPERATING<br>COMPANY | FACILITY | TYPE                   | LOCATION | DATE<br>COMMISSIONED<br>/ INSTALLED | DESIGNED<br>CAPACITY<br>(mmscf/d) | OPERATING<br>CAPACITY<br>(mmscf/d) |
|----------|----------------------|----------|------------------------|----------|-------------------------------------|-----------------------------------|------------------------------------|
| 1        | NLNG                 | Train 1  | LNG Liquefaction Train | Bonny    | Feb. 2000                           | 512                               | 318                                |
| 2        |                      | Train 2  | LNG Liquefaction Train | Bonny    | Aug. 1999                           | 512                               | 379                                |
| 3        |                      | Train 3  | LNG Liquefaction Train | Bonny    | Nov. 2002                           | 512                               | 128                                |
| 4        |                      | Train 4  | LNG Liquefaction Train | Bonny    | Nov. 2005                           | 647                               | 313                                |
| 5        |                      | Train 5  | LNG Liquefaction Train | Bonny    | Feb. 2006                           | 647                               | 403                                |
| 6        |                      | Train 6  | LNG Liquefaction Train | Bonny    | Dec. 2007                           | 647                               | 231                                |

#### 4.3.5 Gas Pipelines Status

(Figure 15: Map is in a PDF file)

## 4.4 HSE

### 4.4.1 Accident Report

Table 43: Accident Report – Industry-wide (2010-2014)

|      | Num. of Incidents | Work Related* | Non-Work Related** | Fatal Incidents | Non-Fatal Incidents | Num. of Fatalities | Work Related Fatalities | Non-Work Related Fatalities |
|------|-------------------|---------------|--------------------|-----------------|---------------------|--------------------|-------------------------|-----------------------------|
| 2010 | 62                | 28            | 34                 | 25              | 37                  | 54                 | 20                      | 34                          |
| 2011 | 63                | 36            | 27                 | 24              | 39                  | 35                 | 19                      | 16                          |
| 2012 | 67                | 40            | 27                 | 34              | 33                  | 160                | 134                     | 26                          |
| 2013 | 61                | 31            | 30                 | 18              | 43                  | 34                 | 16                      | 18                          |
| 2014 | 39                | 15            | 24                 | 14              | 25                  | 21                 | 1                       | 20                          |

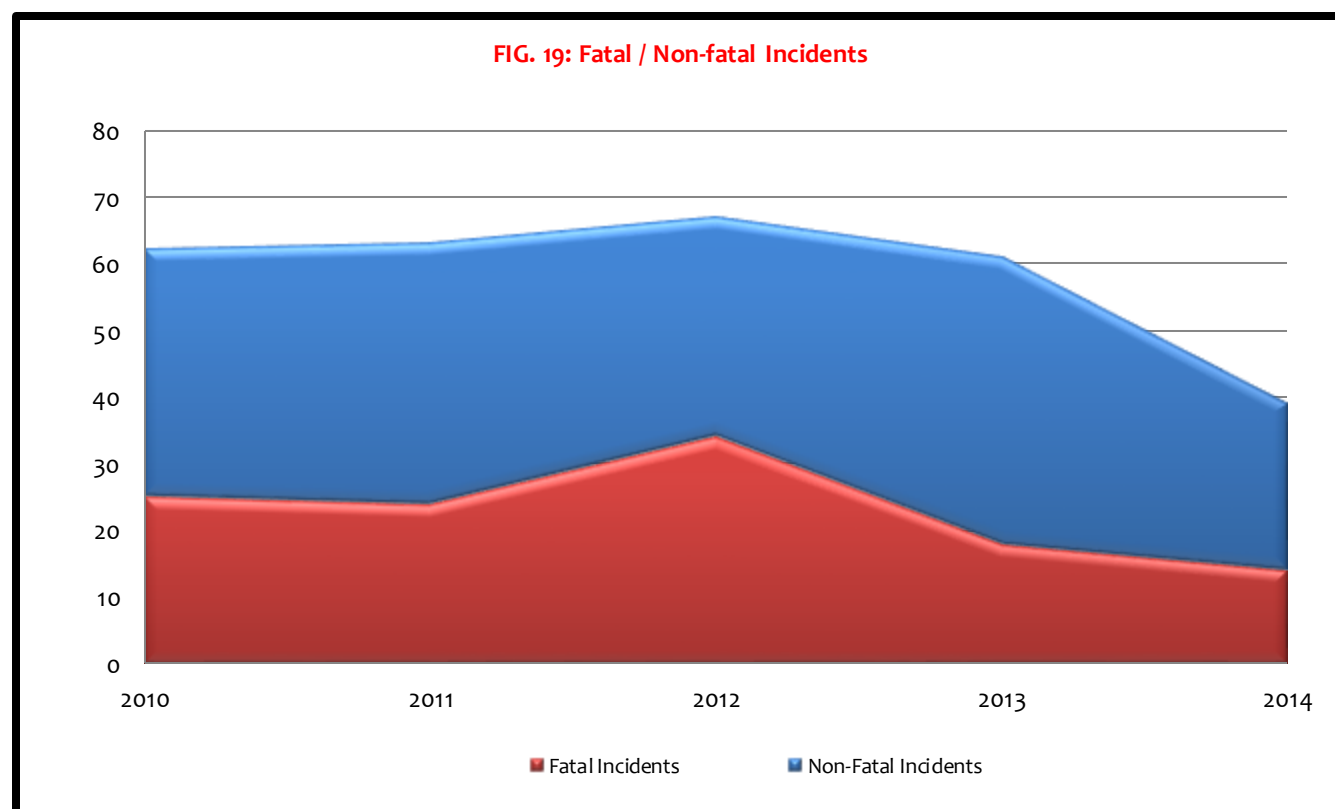


Table44: Accident Report – Upstream (2010-2014)

|      | Num. of Incidents | Work Related | Non-Work Related | Fatal Incidents | Non-Fatal Incidents | Num. of Fatalities | Work Related Fatalities | Non-Work Related Fatalities |
|------|-------------------|--------------|------------------|-----------------|---------------------|--------------------|-------------------------|-----------------------------|
| 2010 | 44                | 18           | 26               | 19              | 25                  | 22                 | 3                       | 19                          |
| 2011 | 44                | 21           | 23               | 17              | 27                  | 17                 | 5                       | 12                          |
| 2012 | 53                | 27           | 26               | 30              | 23                  | 37                 | 11                      | 26                          |
| 2013 | 45                | 17           | 28               | 15              | 30                  | 27                 | 14                      | 13                          |
| 2014 | 32                | 9            | 23               | 12              | 20                  | 13                 | 0                       | 13                          |

Table45: Accident Report – Downstream (2010-2014) <sup>1</sup>

|      | Num. of Incidents | Work Related | Non-Work Related | Fatal Incidents | Non-Fatal Incidents | Num. of Fatalities | Work Related Fatalities | Non-Work Related Fatalities |
|------|-------------------|--------------|------------------|-----------------|---------------------|--------------------|-------------------------|-----------------------------|
| 2010 | 18                | 10           | 8                | 6               | 12                  | 32                 | 17                      | 15                          |
| 2011 | 19                | 15           | 4                | 7               | 12                  | 18                 | 14                      | 4                           |
| 2012 | 14                | 13           | 1                | 4               | 10                  | 123                | 123                     | 0                           |
| 2013 | 16                | 14           | 2                | 3               | 13                  | 7                  | 2                       | 5                           |
| 2014 | 7                 | 6            | 1                | 2               | 5                   | 8                  | 1                       | 7                           |

FIG. 20: Upstream / Downstream Incidents

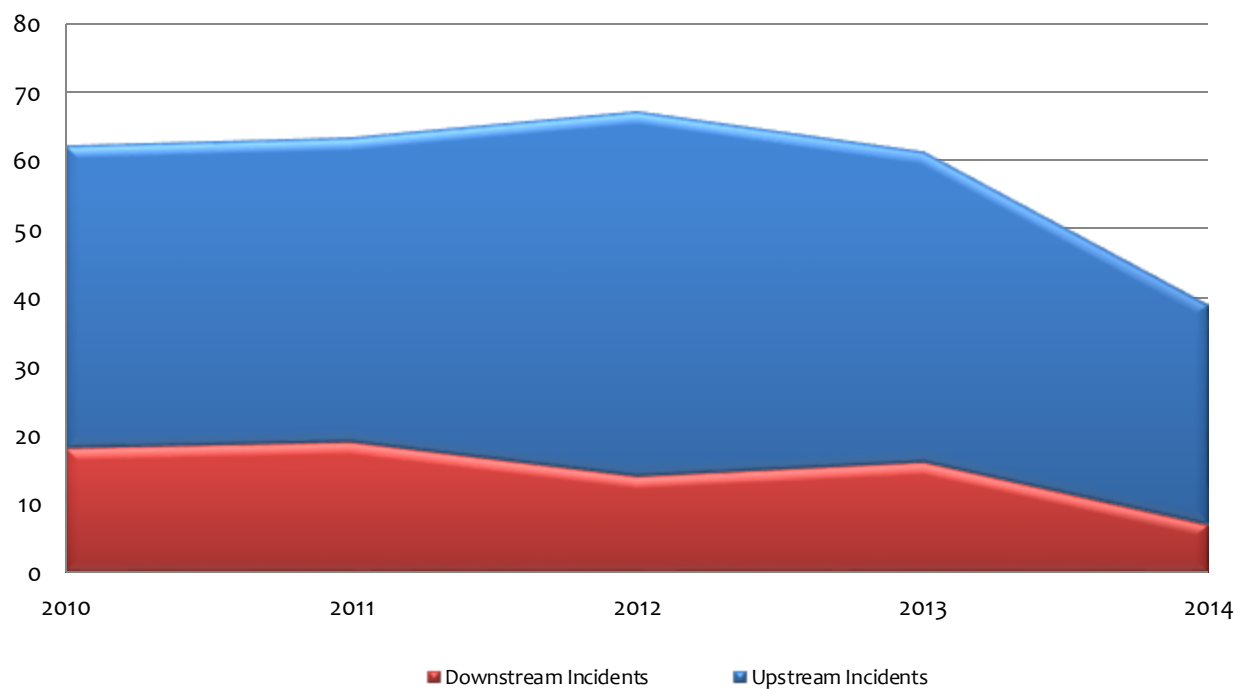


Table 46: 2014 Accident Report – Industry-wide

| Month        | Num. of Incidents | Work Related | Non-Work Related | Fatal Incidents | Non-Fatal Incidents | Num. of Fatalities | Work Related Fatalities | Non-Work Related Fatalities |
|--------------|-------------------|--------------|------------------|-----------------|---------------------|--------------------|-------------------------|-----------------------------|
| January      | 5                 | 0            | 5                | 0               | 5                   | 0                  | 0                       | 0                           |
| February     | 1                 | 1            | 0                | 0               | 1                   | 0                  | 0                       | 0                           |
| March        | 5                 | 2            | 3                | 3               | 2                   | 3                  | 0                       | 3                           |
| April        | 3                 | 0            | 3                | 1               | 2                   | 1                  | 0                       | 1                           |
| May          | 3                 | 3            | 0                | 1               | 2                   | 1                  | 1                       | 0                           |
| June         | 6                 | 2            | 4                | 2               | 4                   | 2                  | 0                       | 2                           |
| July         | 1                 | 1            | 0                | 0               | 1                   | 0                  | 0                       | 0                           |
| August       | 3                 | 0            | 3                | 3               | 0                   | 3                  | 0                       | 3                           |
| September    | 4                 | 1            | 3                | 2               | 2                   | 3                  | 0                       | 3                           |
| October      | 1                 | 1            | 0                | 0               | 1                   | 0                  | 0                       | 0                           |
| November     | 7                 | 4            | 3                | 2               | 5                   | 8                  | 0                       | 8                           |
| December     | 0                 | 0            | 0                | 0               | 0                   | 0                  | 0                       | 0                           |
| <b>Total</b> | <b>39</b>         | <b>15</b>    | <b>24</b>        | <b>14</b>       | <b>25</b>           | <b>21</b>          | <b>1</b>                | <b>20</b>                   |

**Table 47: 2014 Accident Report – Upstream**

| Month        | Num. of Incidents | Work Related | Non-Work Related | Fatal Incidents | Non-Fatal Incidents | Num. of Fatalities | Work Related Fatalities | Non-Work Related Fatalities |
|--------------|-------------------|--------------|------------------|-----------------|---------------------|--------------------|-------------------------|-----------------------------|
| January      | 5                 | 0            | 5                | 0               | 5                   | 0                  | 0                       | 0                           |
| February     | 0                 | 0            | 0                | 0               | 0                   | 0                  | 0                       | 0                           |
| March        | 5                 | 2            | 3                | 3               | 2                   | 3                  | 0                       | 3                           |
| April        | 3                 | 0            | 3                | 1               | 2                   | 1                  | 0                       | 1                           |
| May          | 1                 | 1            | 0                | 0               | 1                   | 0                  | 0                       | 0                           |
| June         | 5                 | 1            | 4                | 2               | 3                   | 2                  | 0                       | 2                           |
| July         | 0                 | 0            | 0                | 0               | 0                   | 0                  | 0                       | 0                           |
| August       | 3                 | 0            | 3                | 3               | 0                   | 3                  | 0                       | 3                           |
| September    | 4                 | 1            | 3                | 2               | 2                   | 3                  | 0                       | 3                           |
| October      | 0                 | 0            | 0                | 0               | 0                   | 0                  | 0                       | 0                           |
| November     | 6                 | 4            | 2                | 1               | 5                   | 1                  | 0                       | 1                           |
| December     | 0                 | 0            | 0                | 0               | 0                   | 0                  | 0                       | 0                           |
| <b>Total</b> | <b>32</b>         | <b>9</b>     | <b>23</b>        | <b>12</b>       | <b>20</b>           | <b>13</b>          | <b>0</b>                | <b>13</b>                   |

**Table 48: 2014 Accident Report – Downstream**

| Month        | Num. of Incidents | Work Related | Non-Work Related | Fatal Incidents | Non-Fatal Incidents | Num. of Fatalities | Work Related Fatalities | Non-Work Related Fatalities |
|--------------|-------------------|--------------|------------------|-----------------|---------------------|--------------------|-------------------------|-----------------------------|
| 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                  | 1                       | 0                           |
| 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      | 1                 | 1            | 0                | 0               | 1                   | 0                  | 0                       | 0                           |
| November     | 1                 | 0            | 1                | 1               | 0                   | 7                  | 0                       | 7                           |
| December     | 0                 | 0            | 0                | 0               | 0                   | 0                  | 0                       | 0                           |
| <b>Total</b> | <b>7</b>          | <b>6</b>     | <b>1</b>         | <b>2</b>        | <b>5</b>            | <b>8</b>           | <b>1</b>                | <b>7</b>                    |

\*\*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.

<sup>1</sup> Petroleum tanker road accidents are not included in the reports.

#### 4.4.2 Spill Incidence Report

Table 49: Spill Incidence Summary

|      | Num. 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                  |

Table 50: 2014 Spill Incidence Report

| Month        | Number of Spills by Causes |           |                   |            |             |            |           | Total number of spills | Volume spilled(BBLs) |
|--------------|----------------------------|-----------|-------------------|------------|-------------|------------|-----------|------------------------|----------------------|
|              | Natural accident           | Corrosion | Equipment Failure | Sabotage   | Human Error | YTBD       | Mystery   |                        |                      |
| January      | 0                          | 6         | 5                 | 86         | 1           | 17         | 2         | 117                    | 384.95               |
| February     | 0                          | 5         | 4                 | 67         | 0           | 20         | 4         | 100                    | 168.26               |
| March        | 0                          | 3         | 7                 | 63         | 1           | 21         | 3         | 98                     | 269.91               |
| April        | 1                          | 4         | 9                 | 98         | 2           | 15         | 5         | 134                    | 465.15               |
| May          | 2                          | 1         | 8                 | 90         | 0           | 13         | 3         | 117                    | 690.42               |
| June         | 1                          | 7         | 7                 | 49         | 2           | 22         | 2         | 90                     | 194.47               |
| July         | 1                          | 5         | 21                | 53         | 1           | 19         | 3         | 103                    | 711.79               |
| August       | 1                          | 4         | 8                 | 50         | 0           | 9          | 2         | 74                     | 1578.86              |
| September    | 1                          | 0         | 8                 | 55         | 0           | 11         | 2         | 77                     | 159.14               |
| October      | 0                          | 1         | 8                 | 22         | 1           | 12         | 1         | 45                     | 427.60               |
| November     | 5                          | 4         | 6                 | 39         | 0           | 17         | 5         | 76                     | 5224.36              |
| December     | 0                          | 2         | 3                 | 36         | 0           | 13         | 2         | 56                     | 27.25                |
| <b>Total</b> | <b>12</b>                  | <b>42</b> | <b>94</b>         | <b>708</b> | <b>8</b>    | <b>189</b> | <b>34</b> | <b>1087</b>            | <b>10,302.16</b>     |

- **Natural Accident:** Spills caused by natural disasters/events such as flooding, extreme weather conditions etc.
- **Corrosion:** Spills caused by corrosion of pipelines, vessels, tanks and other crude oil handling installations.
- **Equipment Failure:** Spills caused by preventable failure of oil and gas installations/equipment
- **Sabotage:** 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.
- **Human Error:** Spills caused by operational errors involving a human interface.
- **YTBD (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.
- **Mystery:** 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 OIL & GAS INDUSTRY PROJECTS

Table 52: Licensed Gas Processing Plants

| S/N | OWNERSHIP        | PLANT SITE                      | PLANT CONFIGURATION                | LICENSE GRANTED                                          | PROJECT DESCRIPTION                                                                                | CAPACITY                          | CURRENT STATUS                            | CONTACT ADDRESS                                                        |
|-----|------------------|---------------------------------|------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------|------------------------------------------------------------------------|
| 1   | GREENVILLE LNG   | Rumuji, Emuoha, Rivers state    | Liquefied Natural Gas              | License to establish (LTE) & Approval to construct (ATC) | 2 trains of 0.25 MTPA LGN liquefaction units, storage and distribution terminal                    | 80 (2 x 40) mmscfd                | Detailed engineering approval/ATC granted | 26, Mamman Nasir street,<br>Asokoro, F.C.T.,                           |
| 2   | PNG GAS LIMITED  | Umutu (Egbaoma),<br>Delta state | Gas processing plant               | Approval to Construct (ATC)                              | Process associated gas obtained from the Asuokpo/ Umutu/ Egbaoma flow station<br>The revamp of the | 30 mmscfd                         | Detailed engineering approval/ATC granted | 293, Akin Olugbade Street,<br>Victoria island,<br>Lagos state          |
| 3   | GIGA GAS LIMITED | Forcados , Delta State          | Gas processing and gathering plant | Approval to Construct (ATC)                              | Process and transport produced gas from the SPDC Offshore Gas Gathering to the ELPS                | 100 (3 x 35) mmscfd modular units | Conceptual design approval granted        | 162, Bamgbose Street, Lagos Island, Lagos.                             |
| 4   | QUANTUM METHANOL | Eket, Akwa Ibom State           | Methanol plant                     | -                                                        | 3000 MTPD Methanol plant for export from natural gas from QIT                                      | 3000 MTPD methanol                | Conceptual design approval granted        | 12 <sup>th</sup> Floor, 2 Ajose Adeogun Street, Victoria Island, Lagos |

Table 53: Refinery Projects

| S/N | OWNERSHIP                          | PLANT SITE            | PLANT CONFIGURATION | LICENSE GRANTED             | PROJECT DESCRIPTION                                         | CAPACITY (BPSD) | CURRENT STATUS                                                       |
|-----|------------------------------------|-----------------------|---------------------|-----------------------------|-------------------------------------------------------------|-----------------|----------------------------------------------------------------------|
| 1   | Amakpe International Refinery Inc. | Eket, Akwa Ibom State | Hydro-skimming      | ATC (revalidated Dec. 2007) | Modular plant capable of producing PMS, HHK, AGO, and LPFO. | 12,000          | - Fabricated process units were inspected certified fit but were not |

|    |                                                                           |                              |                                                                   |                             |                                                                                                                     |         |                                                                 |
|----|---------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
|    |                                                                           |                              | plant                                                             |                             |                                                                                                                     |         | shipped to Nigeria.                                             |
| 2  | <b>Resource Petroleum &amp; Petrochemicals International Incorporated</b> | Ibeno, Akwa Ibom State       | Complex conversion (cracking) refinery                            | ATC (revalidated in 2015)   | Conventional plant capable of producing transportation fuels PMS, HHK, AGO; and heating oil LPFO.                   | 100,000 | -Signed contract with Foster Wheeler France and Axens for FEED. |
| 3  | <b>Hi Rev Oil Limited</b>                                                 | Utapate, Akwa Ibom State     | Hydro-skimming<br><br>Plant, with provision for bottoms upgrading | Approval to Construct (ATC) | Modular 10,000 BPSD plants capable of producing PMS, HHK, AGO, and LPFO.                                            | 50,000  | Detailed Engineering approval granted                           |
| 4  | <b>Azikel Petroleum Limited</b>                                           | Obunagha, Bayelsa State      | Topping plant                                                     | Approval to Construct (ATC) | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil, and power.                     | 12,000  | Detailed Engineering approval granted                           |
| 5  | <b>Dangote Oil Refinery Company</b>                                       | Lekki Free Trade Zone, Lagos | Complex conversion (cracking) refinery                            | License to establish (LTE)  | Conventional plant capable of producing transportation fuels PMS, HHK, AGO; heating oils' LPFO, and petrochemicals. | 500,000 | FEED approval granted                                           |
| 6  | <b>Omega-Butler Refineries (Nig.) Limited</b>                             | Ikpokiri, Rivers State.      | Hydro-skimming<br><br>plant                                       | License to establish (LTE)  | Modular plant capable of producing PMS, HHK, AGO, and LPFO.                                                         | 20,000  | Project yet to commence                                         |
| 7  | <b>Kainji Resources Limited</b>                                           | Oguta, Imo State             | Hydro-skimming<br><br>plant                                       | License to establish (LTE)  | Modular plant capable of producing PMS, HHK, AGO, and LPFO.                                                         | 24,000  | Request for ATC being processed                                 |
| 8  | <b>Masters Energy Oil &amp; Gas Limited</b>                               | Rumoulumeni, Rivers State    | Hydro-skimming<br><br>plant                                       | License to establish (LTE)  | Modular plant capable of producing PMS, HHK, AGO, and LPFO.                                                         | 30,000  | Project yet to commence                                         |
| 9  | <b>Cross Country Oil &amp; Gas Limited</b>                                | Obile, Imo State             | Hydro-skimming<br><br>plant                                       | License to establish (LTE)  | Modular plant capable of producing PMS, HHK, AGO, and LPFO.                                                         | 20,000  | Project yet to commence                                         |
| 10 | <b>Waltersmith Refining &amp; Petrochemical Company Limited</b>           | Ibigwe, Imo State            | Topping plant                                                     | License to establish (LTE)  | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil.                                | 5,000   | Project yet to commence                                         |

|    |                                                             |                         |                                                                                         |                            |                                                                                      |         |                         |
|----|-------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------|---------|-------------------------|
| 11 | <b>Grifon Energy Limited</b>                                | Ipoke, Ondo State       | Topping plant, with provision to adding catalytic reforming.                            | License to establish (LTE) | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil. | 10,000  | Project yet to commence |
| 12 | <b>Sifax Oil &amp; Gas Company Limited</b>                  | Snake Island, Lagos     | Hydro-skimming<br><br>Plant modules with provision for bottoms upgrading (cracking)     | License to establish (LTE) | Modular 30,000 BPSD plants capable of producing PMS, HHK, AGO, and LPFO.             | 120,00  | Project yet to commence |
| 13 | <b>Capital Oil &amp; Gas Industries Limited</b>             | Snake Island, Lagos     | Hydro-skimming<br><br>Plant modules with provision for bottoms upgrading (cracking)     | License to establish (LTE) | Modular 30,000 BPSD plants capable of producing PMS, HHK, AGO, and LPFO.             | 100,000 | Project yet to commence |
| 14 | <b>Aiteo Energy Resources Limited</b>                       | Ajagbodudu, Delta State | Hydro-skimming<br><br>Plant modules with provision for bottoms upgrading (cracking)     | License to establish (LTE) | Modular 30,000 BPSD plants capable of producing PMS, HHK, AGO, and LPFO.             | 100,000 | Project yet to commence |
| 15 | <b>RG Shinjin Petrochemicals Limited</b>                    | Koko, Delta State       | Hydro-skimming<br><br>plant                                                             | License to establish (LTE) | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil. | 10,000  | Project yet to commence |
| 16 | <b>Epic Refinery &amp; Petrochemical Industries Limited</b> | Oporoma, Bayelsa State  | Conversion (cracking) plant to be built in modules with provision for bottoms upgrading | License to establish (LTE) | Modular 30,000 BPSD plants capable of producing PMS, HHK, AGO, and LPFO.             | 107,000 | Project yet to commence |
| 17 | <b>Frao Oil Nigeria Limited</b>                             | Uzere, Delta State      | Hydro-skimming<br><br>plant                                                             | License to establish (LTE) | Modular plant capable of producing PMS, HHK, AGO, and LPFO.                          | 12,000  | Project yet to commence |
| 18 | <b>All Grace Energy Limited</b>                             | Ubima, Rivers State     | Topping plant                                                                           | License to establish (LTE) | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil. | 5,000   | Project yet to commence |

|    |                                                    |                           |                             |                            |                                                                                      |         |                         |
|----|----------------------------------------------------|---------------------------|-----------------------------|----------------------------|--------------------------------------------------------------------------------------|---------|-------------------------|
| 19 | <b>Green Energy International Limited</b>          | Otakikpo, Rivers State    | Topping plant               | License to establish (LTE) | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil. | 5,000   | Project yet to commence |
| 20 | <b>Petrollex Oil &amp; Gas Limited</b>             | Ibefun Ijebu, Ogun State  | Conversion (cracking) plant | License to establish (LTE) | Traditional-in-place plant capable of producing PMS, HHK, AGO, and LPFO.             | 107,000 | Project yet to commence |
| 21 | <b>Clairgold Oil &amp; Gas Engineering Limited</b> | Koko, Delta State         | Hydro-skimming plant        | License to establish (LTE) | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil. | 10,000  | Project yet to commence |
| 22 | <b>Fresh Energy Limited</b>                        | Igbomatoru, Bayelsa State | Topping plant               | License to establish (LTE) | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil. | 10,000  | Project yet to commence |
| 23 | <b>Chyzob Oil &amp; Gas Limited</b>                | Obuzor, Abia State        | Topping plant               | License to establish (LTE) | Modular plant capable of producing naphtha, kerosene, diesel, and low pour fuel oil. | 10,000  | Project yet to commence |

## 4.6 Revenue Performance

Table 54: Revenue performance summary 2010-2014

| YEAR         | OIL ROYALTY                 | GAS ROYALTY              | GAS FLARED PENALTY       | CONCESSION RENTALS      | MISC OIL REVENUE         | TOTAL REVENUE               |
|--------------|-----------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-----------------------------|
|              | N                           | N                        | N                        | N                       | N                        | N                           |
| 2010         | 692,448,411,814.20          | 1,904,000,895.94         | 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         | 1,016,781,027,484.64        |
| <b>TOTAL</b> | <b>4,758,212,189,432.63</b> | <b>83,106,146,077.99</b> | <b>15,772,075,387.60</b> | <b>2,153,474,406.51</b> | <b>14,363,785,243.26</b> | <b>4,873,607,670,547.99</b> |

## **5. Glossary of Terms**

AG - Associated Gas

AGO - Automated Gas Oil

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 - National 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 Petroleum Exporting Countries

OPL - Oil Prospecting License

PE - Polyethylene

PERF - performance

PHRC - Port Harcourt Refining Company

PMS - Petroleum Motor Spirit

PP - Polypropylene

PPHP - Polypropylene Homo-Polymer

PPMC - Petroleum Product Marketing Company, a subsidiary of NNPC

PPT - Petroleum Profit Tax

PRF - Propylene-Rich Feed

PSC - Production Sharing Contract

SC - Service Contract

SPDC - Shell Petroleum Development Company

SQ KM - Square Kilometer

SR - Sole Risk

TCF – Trillion Cubic Feet

WRPC - Warri Refining & Petrochemical Company