

Oil & natural gas extraction data

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Climate Mitigation Services
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Nigerian National Petroleum Co., Nigeria

www.nnpcgroup.com Lagos

yellow column indicates original reported units
100% State-owned enterprise

Production / Extraction data

Year	Crude Oil & NGL			Natural Gas			Gas disposition		
	Gross production	Net production	Gross production	Net production	Net production	Net production	Gas production	Gas utilization	Gas flaring
	Thousand bbl /d	Million bbl /yr	Million bbl /yr	Million cf/d	Trillion cf/yr	Billion cf/yr	Bcf	Bcf	Bcf

NNPC 100% SOE



NIGERIAN NATIONAL PETROLEUM CORPORATION



OGJ NNPC of Nigeria, 1987-2010
94.7%

Year	Nigeria		Nigerian NPC		Nigeria		Nigeria		Nigerian NPC	%	EIA Nigeria Oil 1970-1980	EIA Nigeria NGL 1970-1980
	Million bbl /yr	Million bbl /yr	gross gas prod'n	net gas prod'n	gross gas prod'n	net gas prod'n	gross gas prod'n	net gas prod'n				
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2010												
Total	na	29,528	15,023	na	6,447	9,012						

OGJ data	OGJ of this study	OGJ data
Million bbl /yr	Percent	Bcf/yr
507	159.8%	126
610	162.4%	135
659	166.1%	134
682	164.5%	116
694	163.2%	166
692	161.2%	166
687	162.5%	161
689	157.8%	151
784	178.9%	142
835	178.8%	142
778	165.0%	135
719	154.1%	123
744	157.0%	124
767	147.7%	124
694	156.0%	362
767	151.3%	315
855	156.6%	529
878	159.3%	814
810	155.4%	849
791	164.2%	860
712	154.3%	957
661	141.1%	1,071
666	123.9%	840

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
80																	
81																	
82		Alternate production estimate for 2008										Significant joint ventures with NNPC, 2008					
83			Thousand bbl /d	Million bbl /yr			Million cf/d	Bcf/yr				NNPC	JV partners	1 thousand bbl	Million bbl /yr		
84	2008		862	315			1,842	672				NNPC 60 %	ExxonMobil 40 %		512	187	
85												NNPC 60 %	Chevron 40 %		347	127	
86												NNPC 60 %	Total SA 40 %		207	76	
87												NNPC 60 %	Agip 20 %, Chevron 20 %		139	51	
88												NNPC 60 %	PanOcean 40 %		27	10	
89												NNPC 55 %	Shell 30 %, Total 10 %, Agip 5 %		354	129	
90												NNPC / JV prod		1,586	579		
91												Total Nigerian		2,165	790		
92																73.2%	
93																	Source: Arineriokuma, 2009, Thurber et al, 2012
94																	
95	1980		2,055	750	60.0%		NA	38	829			NA	NA				Joint venture partners, 2010
96	1981		1,433	523	60.0%		NA	76	507			NA	NA				million bbl
97	1982		1,295	473	60.0%		NA	50	453			NA	NA				Chevron
98	1983		1,241	453	60.0%		NA	81	442			NA	NA				86.5
99	1984		1,388	507	60.0%		NA	97	465			NA	NA				
100	1985		1,495	546	60.0%		NA	108	460			NA	NA				
101	1986		1,467	535	60.0%		NA	116	445			NA	NA				
102	1987		1,341	489	60.0%		NA	131	417			NA	NA				
103	1988		1,450	529	60.0%		NA	133	433			NA	NA				
104	1989		1,716	626	60.0%		NA	166	614			NA	NA				
105	1990		1,810	661	60.0%		157	131	744	76%		76	978				
106	1991		1,892	691	60.0%		168	168	800	76%		85	1,052				
107	1992		1,943	709	60.0%		173	173	879	76%		102	1,155				
108	1993		1,960	715	60.0%		178	178	910	77%		101	1,189				
109	1994		1,931	705	60.0%		161	161	950	80%		78	1,189				
110	1995		1,993	727	60.0%		183	183	926	75%		125	1,234				
111	1996		2,001	730	60.0%		197	193	965	74%		139	1,301				
112	1997		2,132	778	60.0%		228	207	798	70%		114	1,140				
113	1998		2,153	786	60.0%		235	208	738	66%		148	1,121				
114	1999		2,130	777	60.0%		277	245	666	61%		141	1,084				
115	2000		2,165	790	60.0%		482	440	607	49%		141	1,231				
116	2001		2,256	823	63.0%		586	526	678	49%		124	1,388				
117	2002		2,118	773	57.5%		562	501	667	50%		117	1,346				
118	2003		2,275	830	61.0%		784	717	653	42%		117	1,554				
119	2004		2,329	850	64.2%		844	770	653	41%		106	1,603				
120	2005		2,627	959	57.5%		862	791	812	42%		247	1,918				
121	2006		2,440	891	58.6%		1,077	1,006	788	36%		318	2,182				
122	2007		2,350	858	56.2%		1,275	1,148	788	33%		353	2,416				
123	2008		2,165	790	58.4%		1,382	1,159	674	26%		509	2,565				
124	2009		2,208	806	58.1%		918	912	509	28%		409	1,836				
125	2010		2,455	896	60.0%		1,317	1,024	581	24%		493	2,392				
126	2011		2,550	931			1,432	1,107	619	26%		348	2,399				
127	2012		2,520	920													
128							1990-2011 totals	13,478	11,950	16,405	48%	4,393	34,273				

NNPC Table 5c (used in column E67-E76) above

Crude Oil Production by Companies: 2001 - 2010 (barrels)

COMPANY	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
JOINT VENTURE COMPANIES (JV):										
SPDC	306,004,972	262,164,008	307,343,430	325,064,539	294,996,169	162,226,026	135,504,413	129,328,995	99,178,340	137,981,473
MOBIL	207,435,117	174,462,728	160,917,241	152,928,763	160,753,591	130,152,450	119,540,374	138,317,189	84,785,917	74,643,309
CHEVRON	160,436,045	129,507,127	126,648,085	121,048,297	119,309,867	127,202,420	39,689,688	113,269,536	74,203,080	75,008,608
TOTAL E & P	54,919,888	48,441,648	44,641,901	43,397,027	39,687,178	38,811,238	127,089,475	34,426,448	31,028,250	31,132,915
NAOC/PHILLIPS	67,553,552	59,411,046	67,157,936	65,526,337	62,263,035	53,931,186	38,833,776	42,552,843	37,923,191	37,423,735
TEXACO	13,838,562	9,761,479	7,971,576	6,713,282	5,469,971	2,231,363	4,250,709	4,432,805	4,432,805	4,122,590
PAN - OCEAN	5,152,640	4,232,864	4,473,089	7,519,300	6,631,714	1,164,461	9,764,634	2,561	3,204,542	-
SUB TOTAL	815,341,676	697,980,920	719,153,258	722,797,515	689,111,525	518,184,570	462,888,989	471,900,351	331,554,144	364,717,172
JOINT VENTURE COMPANIES - AF:										
SPDC	-	-	26,788,881	43,071,975	42,439,486	3,418,766	-	6,096,195	29,746,886	-
MOBIL	-	-	38,869,336	43,106,427	49,081,781	91,516,761	71,116,205	28,873,600	76,845,629	89,673,390
CHEVRON	-	-	-	3,138,185	9,083,259	9,121,439	6,927,280	4,941,662	21,703,939	24,758,070
TOTAL E & P	-	-	-	6,436,445	32,656,414	40,909,893	40,250,115	40,535,587	36,420,384	26,851,534
NAOC/PHILLIPS	-	-	-	-	-	-	-	-	-	-
TEXACO	-	-	-	-	-	-	-	-	-	-
PAN - OCEAN	-	-	-	-	-	-	-	-	-	-
SUB TOTAL	-	-	72,074,662	121,973,001	141,514,419	144,307,081	118,579,072	70,235,646	131,497,197	165,986,773
PROD. SHARING COMPANIES										
CHEVRON (STARDEEP)	-	-	-	-	-	-	-	14,966,049	74,520,908	87,169,458
ADDAX	8,859,322	11,500,555	13,303,454	14,596,666	23,813,968	31,600,666	38,140,656	39,591,166	36,288,676	32,607,403
ESSO EXP. & PRO. NIG LTD	-	-	-	-	-	48,165,582	74,384,085	71,942,086	60,162,116	60,716,025
NAE	-	-	3,355,610	9,802,901	11,330,731	9,186,198	6,122,815	6,606,494	10,264,220	11,143,495
SNEPCO	-	-	-	-	1,566,520	73,700,012	73,973,750	62,021,898	58,951,970	65,039,752
SA PET/TOTAL UPSTREAM NIG.	-	-	-	-	-	-	-	-	28,904,366	60,210,664
SUB TOTAL	8,859,322	11,500,555	16,718,964	24,399,567	36,711,219	162,532,458	192,621,306	195,127,693	268,792,256	316,887,117
SERVICE CONTRACT:										
AENR	5,311,401	4,244,744	3,483,966	3,886,392	4,317,081	4,013,954	3,932,714	3,361,078	3,237,284	2,711,402
SUB TOTAL	5,311,401	4,244,744	3,483,966	3,886,392	4,317,081	4,013,954	3,932,714	3,361,078	3,237,284	2,711,402
INDEPENDENTS/SOLE RISK:										
NPDC - OKONO	1,229	4,441,073	4,699,496	10,232,754	19,900,957	21,360,219	15,853,124	10,872,342	19,776,687	17,545,916
NPDC	2,161,849	2,073,352	2,120,288	2,809,275	2,025,562	333,700	-	1,494,438	2,092,321	1,685,253
NPDCSEPLAT JV	-	-	-	-	-	-	-	-	-	2,513,973
CONSOLIDATED	1,115,623	837,488	784,799	775,030	726,530	643,639	430,460	491,615	459,331	455,944
EXRESS PETROLEUM	7,735,046	5,674,724	4,214,778	1,592,412	2,918,248	906,741	314,778	296,932	152,694	290,680
AMNI	1,451,939	1,287,048	966,443	780,103	839,956	412,564	638,596	1,596,557	7,334,005	6,404,757
CAVENDISH PETROLEUM	-	-	-	-	1,408,276	681,398	-	-	-	-
ATLAS	2,105,763	2,967,751	795,222	177,449	163,979	233,669	520,860	388,117	191,831	153,828
CONTINENTAL OIL	11,786,926	11,496,240	12,375,425	14,819,473	13,241,057	9,385,029	3,531,935	5,980,100	7,819,287	6,991,887
MONI PULO	9,133,079	8,144,003	6,692,991	5,639,810	5,794,198	5,347,598	3,239,042	4,129,636	3,035,293	2,567,110
DUBRI	169,131									

Non-Fiscalised Crude Oil Production By Company

COMPANY	NUMBER OF WELLS	CRUDE OIL PRODUCTION		DAILY AVERAGE (BARREL)	% OF TOTAL PRODUCTION
		bbls	m3		
JOINT VENTURE COMPANIES:					
SPDC	-	142,739,103	22,693,662	391,066	23.80
MOBIL	219	165,766,023	26,354,643	454,153	27.64
CHEVRON	331	94,676,998	15,052,412	259,389	15.78
ELF	143	51,333,008	8,161,281	140,638	8.56
NAOC	211	41,444,623	6,589,156	113,547	6.91
TEXACO	25	4,165,081	662,194	11,411	0.69
PAN-OCEAN	12	2,915,897	463,590	7,989	0.49
Sub - Total	941	503,040,733	79,976,937	1,378,194	83.87
PROD. SHARING COMPANIES:					
ADDAX	90	30,210,967	4,803,151	82,770	5.04
ESSO	10	55,723,367	8,859,291	152,667	9.29
Sub - Total	100	85,934,334	13,662,442	235,437	14.33
SERVICE CONTRACT					
AENR	6	1,800,723	286,292	4,933	0.30
Sub - Total	6	1,800,723	286,292	4,933	0.30
INDEPENDENTS/SOLE RISK					
NPDC	7	9,029,006	1,435,495	24,737	1.51
Sub - Total	7	9,029,006	1,435,495	24,737	1.51
GRAND- TOTAL	1,054	599,804,797	95,361,165	1,643,301	100.00

NOTE: (i) This does not include data from some indigenous and production sharing Contract companies and therefore might not tally with corresponding figures in Table 3-3.01.
(ii) Figures in tables 2.0 - 2.11 are non-fiscalised

Nigerian National Petroleum Company (2010) Statistical Bulletin, page 12.

Crude Oil Lifting: Domestic & Export (barrels)

COMPANY	NINPC LIFTINGS		COMPANY LIFTINGS	TOTAL LIFTINGS	%
	DOMESTIC ALLOCATION	EXPORT (FED. ACCOUNT)			
JV					
SPDC	42,186,460	34,417,636	60,833,103	137,437,199	
EXXONMOBIL	22,007,165	31,765,784	53,772,949	86,838,883	
CHEVRON	43,077,420	3,528,443	46,605,863	82,114,490	
ELF	5,220,834	16,821,538	22,042,372	36,301,199	
NAOC/PHILLIPS	1,998,982	20,825,759	22,824,741	38,727,417	
TEXACO	-	1,869,281	1,869,281	2,971,271	
PAN-OCEAN	-	569,468	569,468	949,110	
Sub - Total	114,488,871	109,917,807	224,406,778	386,339,369	42.98
AF-JV					
SPDC	1,894,938	6,513,469	8,408,407	21,444,032	29,852,439
EXXONMOBIL	1,253,280	41,700,382	42,953,662	31,522,062	74,476,754
CHEVRON	10,016,623	372,889	10,389,512	8,236,734	18,626,246
ELF	2,148,065	7,260,806	9,408,871	12,688,573	22,108,044
NAOC/PHILLIPS	-	991,030	991,030	-	-
TEXACO	-	991,030	991,030	-	-
PAN-OCEAN	-	-	-	-	-
Sub - Total	15,313,506	56,838,576	72,152,082	73,900,431	146,052,513
JVC TOTAL	129,802,377	166,756,483	296,558,860	235,833,022	532,391,882
FSC					
CHEVRON	-	3,896,000	3,896,000	83,017,921	86,914,891
ADDAX	300,178	14,368,600	14,668,778	18,446,018	33,112,792
ESSO EXP&PROD NIG LTD	970,505	29,598,373	30,568,878	30,743,548	61,312,426
NAE	-	4,806,766	4,806,766	6,315,742	11,122,508
SNPCO	-	30,152,099	30,152,099	34,910,346	65,062,445
SA Petrol/Total Upstream Nigeria	-	4,927,332	4,927,332	56,383,636	60,310,968
Sub - Total	1,270,681	87,748,070	89,018,751	228,817,279	317,836,030
SERVICE CONTRACT:					
AENR	380,000	1,934,980	2,314,980	920,000	3,234,980
AENR (OKONO)	-	-	-	2,787,249	2,787,249
Sub - Total	380,000	1,934,980	2,314,980	3,717,249	6,032,229
INDEPENDENTS/SOLE RISK:					
NPDC (OKONO)	-	-	-	15,254,403	15,254,403
NPDC	-	-	-	3,043,979	3,043,979
NPDCSEPLAT JV	-	-	-	500,000	500,000
CONSOLIDATED	-	-	-	176,047	176,047
EXPRESS PETROLEUM	-	-	-	6,535,758	6,535,758
AMNII	-	-	-	-	-
CAVENDISH	-	-	-	-	-
ATLAS	-	-	-	150,000	150,000
CONTINENTAL	-	-	-	6,883,634	6,883,634
MONI PULO	-	-	-	2,566,853	2,566,853
DUBRI	-	-	-	105,000	105,000
NIG AGIP EXPL/ALLIED/CAMAC	-	894,172	894,172	2,717,948	3,612,118
Sub - Total	-	894,172	894,172	37,962,620	38,856,792
MARGINAL FIELDS					
NIG DELTA PET. RES. LTD	-	-	-	1,173,141	1,173,141
PLATFORM PETROLEUM	-	-	-	368,200	368,200
MIDWESTERN OIL & GAS CO. PLC	-	-	-	1,413,600	1,413,600
WAL TER SMITH PETR. OIL LTD	-	-	-	560,500	560,500
PILLAR OIL	-	-	-	82,300	82,300
MOVIDO E & P NIG LTD	-	-	-	-	-
ENERGIA LTD	-	-	-	413,400	413,400
BRITANIA U	-	-	-	285,000	285,000
Sub - Total	-	-	-	4,286,141	4,286,141
GRAND-TOTAL	131,453,058	257,333,705	388,786,763	510,616,311	899,403,074

Nigerian National Petroleum Company (2010) Statistical Bulletin, Table 6.

Crude Oil Production by Regimes: 2001 - 2010 (barrels)

YEAR	Joint Ventures	Joint Ventures AF/CARRY	Production Sharing Companies	Service Contract Companies	Sole Risk Independent Companies	Marginal Fields	TOTAL
2001	815,341,676	0	8,859,322	5,311,401	35,661,185	0	865,173,584
2002	687,980,920	0	11,500,555	4,244,744	25,464,721	0	729,190,940
2003	719,153,258	72,074,662	16,718,964	3,483,966	20,344,654	0	831,775,504
2004	722,797,515	121,973,001	24,399,567	3,886,392	37,100,014	0	910,156,489
2005	689,111,525	141,514,419	36,711,219	4,317,081	47,171,464	141,028	918,966,736
2006	518,184,570	144,307,081	162,532,458	4,013,954	39,374,165	784,278	869,196,506
2007	462,888,989	118,579,072	192,621,306	3,932,714	24,547,019	431,608	803,000,708
2008	471,900,351	70,235,646	195,127,693	3,361,078	25,273,170	2,847,994	768,745,932
2009	331,554,144	131,497,197	268,792,256	3,237,284	41,388,620	3,878,439	780,347,940
2010	364,717,172	165,986,773	316,887,117	2,711,402	41,937,495	3,803,447	896,043,406
TOTAL	5,783,630,120	966,167,851	1,234,150,457	38,500,016	338,262,507	11,886,794	8,372,597,745

Nigerian National Petroleum Company (2010) Statistical Bulletin, Table 5b, page 30.

Gas Production and Utilization : 2002 - 2010 (mscf)

YEAR	GAS PRODUCED	GAS USED AS FUEL	GAS SOLD TO THIRD PARTIES	GAS RE-INJECTED	FUEL GAS TO EPCCL	GAS FOR LPG/NGL AS FEEDSTOCK TO EPCCL	GAS FOR LNG	GAS TO NIG	GAS LIFT	TOTAL GAS UTILIZED	GAS FLARED	% Flared
2002	1,651,591,488	71,865,558	101,618,843	270,402,167	8,159,870	47,721,090	290,045,550	80,794,378	17,151,356	897,789,582	753,801,908	45.84
2003	1,828,541,655	68,234,516	85,871,813	187,246,149	8,037,949	36,046,249	483,380,351	116,320,144	19,425,784	983,582,969	844,978,888	48.21
2004	2,082,283,189	71,534,048	236,513,290	332,808,436	9,979,511	47,100,859	410,187,378	72,758,426	11,883,045	1,195,742,963	886,540,196	42.58
2005	2,093,628,859	84,137,862	528,288,967	397,744,844	10,339,647	48,337,150	187,287,551	0	30,177,141	1,282,313,082	811,315,777	38.75
2006	2,182,432,084	78,797,362	629,598,869	333,687,178	7,926,235	44,410,804	240,915,583	0	45,438,202	1,378,770,281	803,691,823	38.82
2007	2,415,649,041	78,524,011	760,747,361	354,610,374	9,417,626	34,880,978	388,826,236	0	51,053,728	1,655,960,315	758,680,728	31.45
2008	2,287,547,344	83,730,616	708,159,550	391,075,575	7,840,304	23,582,179	311,589,374	63,831,255	58,560,235	1,688,149,489	619,388,854	27.08
2009	1,837,278,307	80,573,880	440,941,963	408,848,718	8,086,525	42,401,451	269,095,959	21,021,884	55,958,116	1,327,926,402	509,351,905	27.22
2010	2,382,838,868	72,233,897	657,225,895	21,182,885	493,309,828	5,204,476	25,869,822	187,190,149	169,057,005	1,811,270,545	581,568,354	24.30

Nigerian National Petroleum Company (2010) Statistical Bulletin, Table 12a.

Crude liftings by Nigerian & Companies		
Nigerian NPC	Company	Total
388,786,763	510,616,311	899,403,074
43.2%	56.8%	100.0%



Nigerian National Petroleum Corporation

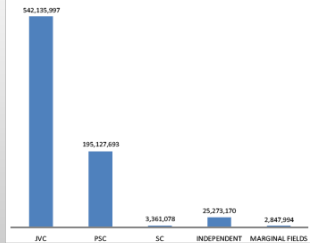
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1.1.3a Crude Oil and Condensate Production

Total Crude Oil and Condensate produced during the year was 768,745,932 barrels with an average daily production of 2.10 MBD (table 4). When compared with 803,000,708 barrels (2.20 million barrels per day) of crude oil and condensates produced in 2007, there was a decrease of 34,254,776 barrels or 4.27%. Production by fiscal regime is indicated in the chart below.

2008 Crude Oil Production by Fiscal Regime



Production by various companies shows that, Mobil had the highest production figure of 167,190,786 barrels with an average of 456,805.43 barrels per day. This accounts for 21.75% of the total production. Shell Petroleum Development Company (SPDC) came second with a production figure of 129,328,995 barrels or 353,357.91 barrels per day, which is 16.82% of the total production. Chevron came third with a production figure of 118,201,198 barrels, averaging 322,954.09 barrels per day or 15.38% of the total production.

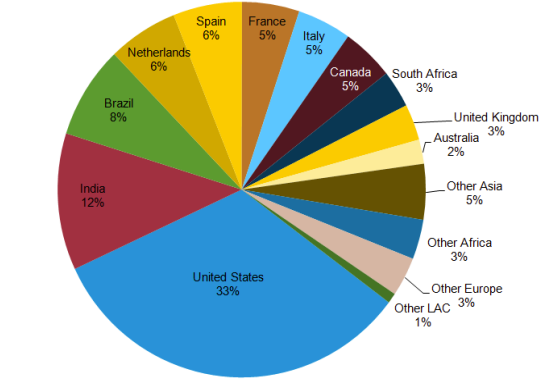
NPDC which is NNPC's upstream subsidiary engaged in Oil and Gas exploration and production activities produced 12,366,780 barrels. Table 1 shows total production figures by company, average daily production and percentage contribution (also see Table 3).

Table 1 CRUDE OIL PRODUCTION BY COMPANY

COMPANY	CRUDE OIL PRODUCTION (bbl)	DAILY AVERAGE (barrels)	% OF TOTAL PRODUCTION
JOINT VENTURE COMPANIES:			
SPDC	129,328,995.00	353,357.91	16.82
MOBIL	167,190,786.00	456,805.43	21.75
CHEVRON	118,201,198.00	322,954.09	15.38
TOTAL E & P	70,846,832.00	193,970.58	9.22
NAOC/PHILLIPS	42,552,843.00	115,284.00	5.54
CHEVRON/TEXACO	4,250,779.00	11,613.99	0.55
PAN-OCEAN	9,734,424.00	26,679.33	1.27
SUB-TOTAL	542,135,997.00	1,481,245.89	70.52
PROD. SHARING COMPANIES			
STAS/DEEP	14,898,049.00	40,889.84	1.95
NOOAV	38,591,199.00	106,172.58	5.15
ESSO EXP. & PRO. NIG LTD	71,942,086.00	196,963.08	9.36
MAE	6,609,494.00	18,059.63	0.89
ENERCO	82,021,888.00	223,649.14	10.71
SA PET/TOTAL UPSTREAM NIG.	0.00	0.00	0.00
SUB-TOTAL	195,127,693.00	533,135.77	25.38
SERVICE CONTRACT:			
ENR	3,361,078.00	9,183.27	0.44
SUB-TOTAL	3,361,078.00	9,183.27	0.44
INDEPENDENT/SOLE RISK:			
NPDC/ENR	10,872,342.00	29,705.85	1.41
NPDC	1,494,438.00	4,083.16	0.19
CONSOLIDATED	22,403.00	61.21	0.00
EXPRESS PETROLEUM	49,161.00	134.21	0.00
MINI	268,822.00	728.16	0.04
CANADIAN PETROLEUM	1,599,587.00	4,362.29	0.21
ATLAS	0.00	0.00	0.00
CONTINENTAL OIL	388,117.00	1,060.43	0.05
MON/PLD	5,890,100.00	16,039.67	0.78
4118/09/00	4,108,000.00	11,289.43	0.54
MIDWESTERN OIL	467,811.00	1,278.17	0.06
WALTER SMITH	134,942.00	368.69	0.02
SUB-TOTAL	2,847,994.00	7,781.49	0.37
GRAND TOTAL	768,745,932.00	2,100,369.72	100.00

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Nigerian crude oil exports, by destination, 2011



Note: "Other Africa" includes Cote d'Ivoire, Cameroon, Ghana, and Senegal. "Other Europe" includes Germany, Portugal, Ireland, Gibraltar, and Norway. "Other LAC" includes Peru, Bahamas, and Curacao. Source: Global Trade Atlas, APEX (Lloyd's), and U.S. Energy Information Administration

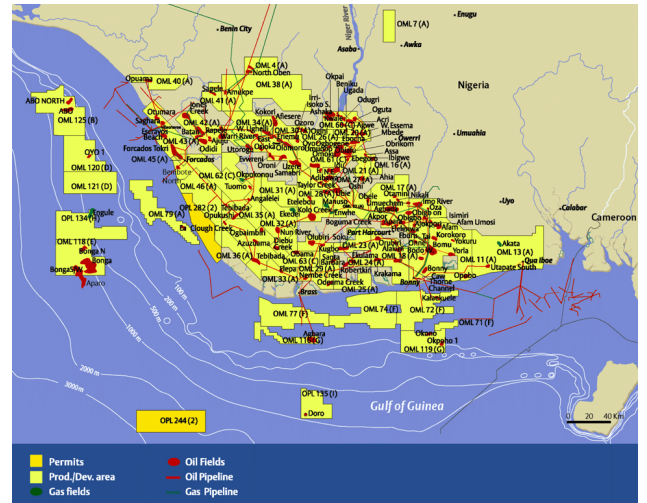
US EIA Country Studies: Nigeria

Nigerian National Petroleum Company (2009) Statistical Bulletin, pages 7 & 9.

Gas Production and Utilization by Company (mscf)

COMPANY	GAS PRODUCED	GAS UTILISED									
		GAS USED AS FUEL	GAS SOLD TO THIRD PARTIES	GAS SOLD TO NSC	GAS RE-INJECTED	FUEL GAS TO EPCL	GAS FOR LPG/MSL GAS	GAS FOR LNG	GAS LIFT	TOTAL GAS UTILISED	GAS FLARED
JVC	777,170,430.73	13,905,151.17	638,982,046.61	0.00	5,558,764.00	0.00	0.00	0.00	15,247,889.25	673,693,051.04	103,477,379.69
SPDC	479,251,265.69	29,786,000.00	0.00	0.00	286,630,451.07	0.00	22,745,000.00	0.00	7,344,070.83	336,505,222.00	122,745,743.66
MOBIL	194,327,349.00	5,744,085.31	23,496,854.00	21,182,685.00	0.00	0.00	3,121,822.00	0.00	22,492,893.00	76,018,339.31	118,309,009.69
CHEVRON	277,253,720.31	9,321,142.39	0.00	0.00	70,269,941.77	0.00	0.00	167,190,148.97	0.00	246,778,233.10	30,475,487.21
TOTAL ESP	441,864,139.00	9,497,286.00	194,756,784.00	21,182,685.00	15,962,916.00	5,204,476.00	0.00	0.00	113,554,163.00	338,975,625.00	102,888,514.00
NAOC	7,883,657.00	130,491.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130,491.00	7,553,166.00
Chevron (Pennington)	8,082,869.00	1,286,176.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,286,176.00	6,796,693.00
PAN-OCEAN	2,185,633,370.70	69,670,331.84	857,225,684.81	21,182,685.00	388,419,072.84	5,204,476.00	25,866,822.00	167,190,148.97	158,628,216.18	1,693,387,437.45	492,245,933.25
SUB-TOTAL	2,185,633,370.70	69,670,331.84	857,225,684.81	21,182,685.00	388,419,072.84	5,204,476.00	25,866,822.00	167,190,148.97	158,628,216.18	1,693,387,437.45	492,245,933.25
PRODUCTION SHARING CONTRACT											
ADDAX	84,989,027.00	2,337,235.00	0.00	0.00	7,302,537.00	0.00	0.00	0.00	10,428,789.00	20,088,581.00	64,920,486.00
ESSO	104,980,024.00	22,036.15	0.00	0.00	97,589,219.30	0.00	0.00	0.00	0.00	97,610,255.45	7,379,772.35
SUB-TOTAL	189,979,051.00	2,359,271.15	0.00	0.00	194,898,756.30	0.00	0.00	0.00	10,428,789.00	117,678,836.45	72,300,258.35
SERVICE CONTRACT											
AEHR	6,713,476.00	182,142.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182,142.74	6,531,333.26
SUB-TOTAL	6,713,476.00	182,142.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182,142.74	6,531,333.26
SOLE RISK/INDEPENDENTS:											
NPCC	10,513,000.00	22,151.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22,151.01	10,490,848.99
SUB-TOTAL	10,513,000.00	22,151.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22,151.01	10,490,848.99
GRAND-TOTAL	2,392,838,898.50	72,233,896.74	857,225,684.81	21,182,685.00	483,309,826.14	5,204,476.00	25,866,822.00	167,190,148.97	169,057,005.18	1,811,270,544.65	581,568,353.85

Nigerian National Petroleum Company (2010) Statistical Bulletin, Table 11, pdf page 36.



Gas Flare By Company : 1999 - 2008



Nigerian NPC 2010 Annual Statistical Bulletin

	Gas produced	Gas Utilized	Gas re-injected	Gas Flared	Flared
	Bcf	Bcf	Bcf	Bcf	% of total
2000	1,695	851		844	50%
2001	1,823	902		921	51%
2002	1,862	1,108	270	754	40%
2003	1,830	985	187	845	46%
2004	2,082	1,196	333	887	43%
2005	2,094	1,282	398	811	39%
2006	2,182	1,379	334	804	37%
2007	2,410	1,651	355	760	32%
2008	2,282	1,663	391	619	27%
2009	1,837	1,328	410	509	28%
2010	2,393	1,811	21	582	24%

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Note 100 percent of Texaco's gas prod'n is flared.

Cell: J9**Comment:** Rick Heede:

Nigerian National Petroleum Corporation was created in 1977, with the merger of its predecessor, the Nigerian National Oil Corporation (NNOC) and the Nigerian Ministry of Mines and Power. Nigeria received its independence from the United Kingdom in October 1960. A joint venture between Royal Dutch Shell and British Petroleum received a concession that covered all of Nigeria in 1938, although Shell-BP did not discover commercial oil until 1956 at Oloibiri in the Niger Delta; exports began in 1958. Other international oil companies followed. The first offshore discovery was made in 1963 (Chevron's Texaco and Gulf units). Significant discoveries were made in the 1960s and 1970s. Nigeria's sweet crude assured an international market. Natural gas development was delayed, and associated gas was either vented or flared; flaring continues (Nigeria is the world's second largest source of flared gas), but has declined from 76 percent to 24 percent of gross natural gas production; see tables below. See also: Nwokeji, G. Ugo (2007) *The Nigerian National Petroleum Corporation and the Development of the Nigerian Oil and Gas Industry: History, Strategies, and Current Directions*, Case Study Series: The Changing Role of National Oil Companies in International Energy Markets, Baker Institute for Public Policy, March, 137 pp. Soares de Oliveira, Ricardo (2006) *Strategic Resources, International Politics, and Domestic Governance in the Gulf of Guinea*, Sidney Sussex College, Cambridge, UK, 13 pp.

Cell: P9**Comment:** Rick Heede:

World Bank, 2008b, page 719: "NNPC is a public company entrusted with the management of "all government interests in the Nigerian oil industry". Shares Controlled by Government: 100%"
World Bank (2008b) *A Citizen's Guide to National Oil Companies*, Part B: Data Directory, World Bank, Washington, & Center for Energy Economics, Bureau of Economic Geology Jackson School of Geosciences University of Texas, Austin, 764 pp.

Cell: N11**Comment:** Rick Heede:

On this worksheet we report extractive data for each company or state-owned enterprise. Three columns under crude oil and natural gas allow for data reported in one of three formats (e.g., thousand barrels per day, or million barrels per year, or million tonnes per year). Coal is normally reported in short tons or metric tonnes per year. The subtraction of the fraction typically sequestered in petrochemicals and other non-combusted uses such as road oils, waxes, lubricants, greases, etc. Non-fuel uses are accounted for in the emission factors and applied to each entity in the oil, gas, and coal summary worksheets.

Cell: F12**Comment:** Rick Heede:

Total net worldwide crude oil plus natural gas liquids produced by each company or state-owned enterprise. Where data is available, we list net production (after royalty production is deducted). We rely on company annual reports, Form 10-k, or other company data where available. In some cases -- particularly for state-owned oil and gas companies -- we use production data from the Oil & Gas Journal in its OGJ150 and OGJ100. Crude production includes natural gas liquids (NGL) unless noted.

Cell: J12**Comment:** Rick Heede:

Natural gas is typically reported as dry gas; natural gas liquids are reported under crude oil. Carbon dioxide is normally removed from the gas flow at the production site (see "Vented Carbon Dioxide"). "SCM/d" = standard cubic meters per day. "cf/d" = cubic feet per day.

Cell: F23**Comment:** Rick Heede:

We do not have comprehensive data on oil production owned by Nigerian NPC under concessionary or joint venture agreements with multi-national oil and gas companies (such as Esso, Exxon, Mobil, Texaco, Elf, Phillips, Chevron, Continental, etc.). Until such data is available for each year it is assumed that Nigerian NPC own production plus royalty production is 60 percent of the total oil produced in Nigeria 1959-2010 (which is equal to Chevron's joint-venture agreement of 40 percent, with NNPC having a 60 percent interest; Chevron AnnRpt 2010, page 21). The crude oil interest belonging to Nigerian NPC varies by contract, company, and year, and thus figure is likely to be revised once better data becomes available. We use a 60 percent interest in Nigerian production to NNPC. This is corroborated by data from Ariwariokuma (2009), shown in Table 16.1 in Thurber et al (2012, p. 711), which shows eight joint venture contract production splits. These JVs produced 1,586 thousand bbl per day in 2008 (Nigerian total of 2,165 thousand b/d [EIA], or 73.3 percent of Nigerian production). In five of the six JVs NNPC's share was 60 percent; in the last NNPC held a 55 percent share. Further corroboration is from Chevron, which reports total company production in Nigeria of 524,000 bbl per day, and net production in of 237,000 bbl per day (citing NNPC 60 percent JV share of production). Note: 237 kpd is 45.2 percent of 524 kbpd; the reason for this discrepancy is not clear, although Chevron was likely the operator. Chevron Ann Rpt, 2010, page 23. See cell note atH24 for additional details. Thurber, Mark C., Ifeyinwa M. Emelife, & Patrick R. P. Heller (2012) "NNPC and Nigeria's oil patronage ecosystem," in Victor et al, eds, *Oil and Governance*, pp. 655-700. Ariwariokuma, Soala (2009) *The Political Economy of Oil and Gas in Africa: The Case of Nigeria*, Routledge, 384 pp.

Cell: J24**Comment:** Rick Heede:

CMS attributes 93.3 percent of total Nigerian gas production to NNPC for 1980-1986. Actual production estimates by Oil & Gas Journal OGJ100 are used for 1987-2010.

Cell: G25**Comment:** Rick Heede:

A 60 percent interest in total Nigerian oil production is used in lieu of comprehensive interest shares by NNPC and the multinational joint-venture partners operating in Nigeria 1959-2010. See comment in cell "E23" for details. However, Nigeria has increased its stake since the early days of oil production. We do not have percentages for the early years, and we assume a 10 percent share of national production from the beginning (in 1959) to 1970, when Nigeria became a member of OPEC (in 1971); we use a royalty rate of 25 percent from 1971 through June 1979; on 1 July 1979 the Nigerian government increased its participation to 60 percent. The details may differ from this broad percentage attribution, and may be revised if more specific information is available. Thurber, Mark C., Ifeyinwa M. Emelife, & Patrick R. P. Heller (2012) "NNPC and Nigeria's oil patronage ecosystem," in Victor et al, eds, *Oil and Governance*, pp. 655-700. See pages 708-711.

Cell: I30**Comment:** Rick Heede:

U.S. Bureau of Mines, *Minerals Yearbook 1968*, page 750, marketed production 1964-1967. Gross production not shown.

Cell: D34**Comment:** Rick Heede:

Energy Information Administration *International Energy Statistics, World Production of Crude Oil, NGPL, and Other Liquids, 1980-2010*. Also Table 4.1c *World Crude Oil Production (Including Lease Condensate), 1970-1979*.

Cell: I37**Comment:** Rick Heede:

Nigerian NPC Statistical Abstract 2010, Table 5c (see below) shows total crude oil production 2001-2010. These are by all producers and do not represent the proportion attributable to NNPC through company liftings, joint ventures, or other working interest or royalty production. This project applies the same percentage as discussed in cell note F23 and G24 in order to estimate NNPC's share of Nigerian production. The NNPC production is within 1 percent of the EIA estimate over the decade, though annual estimates vary by +/- 6 percent.

Cell: J54**Comment:** Rick Heede:

Oil & Gas Journal data 1988-2010.

Cell: N66**Comment:** Rick Heede:

NigerianNPC

There is significant divergence between the Energy Intelligence and OGJ estimates of Nigeria National Petroleum Corporation in the two years of data overlap 2000 and 2001. EI's estimate is 1.312 million bbl per day = 479 million bbl per year in 2000, and 1.423 million bbl per day = 519 million bbl per year in 2001. OGJ estimates are 744 and 767 million bbl for the same years.

Cell: F67

Comment: Rick Heede:

NNPC (data for 2001 to 2010) does NOT report "working interest" or equity production (whether by royalty or production sharing agreements of joint ventures, etc), but rather total Nigerian oil production. We conclude this by comparing the sum of Nigerian production for 2001-2010 (using EIA International Energy Statistics, reproduced on page 2) to NNPC reported production.

Cell: E69

Comment: Rick Heede:

In comparison, Oil & Gas Journal attributes 766.5 and 855.2 million bbl to NNPC in 2003 and 2004, respectively. This is 92 percent and 100.5 percent of total Nigerian production in 2003 and 2004, respectively.

Cell: F74

Comment: Rick Heede:

We see here that attributing 60 percent of NNPC's reported production in 2008 (461 million bbl) is substantially higher than Wood Mackenzie's "working interest" production (315 million bbl; see top of page 2). We cannot ascertain the true production attributable to NNPC without more complete reporting by NNPC.

Cell: N74

Comment: Rick Heede:

OGJ100 6 Sep 10 pg 69 shows NNPC "estimated" production in 2008

Cell: J75

Comment: Rick Heede:

OGJ100 6Sep10 pg 69 and OGJ 3 Oct 2011 pg 49; both "estimated"

Cell: F76

Comment: Rick Heede:

Oil & Gas Journal OGJ100, 3Oct2011, page 48 shows Nigerian National Petroleum Corporation producing 660.7 million bbl in 2009 and 666.1 million bbl in 2010 (estimated).

Cell: N76

Comment: Rick Heede:

OGJ 3 Oct 2011 pg 49, "estimated"

Cell: F84

Comment: Rick Heede:

Nigerian NPC Statistical Bulletin 2010, Table 12a, total production, disposition, and flaring 2002 - 2010.

Cell: J84

Comment: Rick Heede:

Nigerian NPC "working interest natural gas production in 2008" at 1,842 thousand cf per day. Victor, Hults, & Thurber, 2012, Introduction, Table 1.1, page 24, in Victor et al, eds, 2012, Oil and Governance. Table 1.1 is based on information from Wood Mackenzie's Pathfinder Database; www.woodmacresearch.com

Cell: P92

Comment: Rick Heede:

Original source: Ariweriokuma, Soala (2009) The Political Economy of Oil and Gas in Africa: The Case of Nigeria, Routledge, 384 pp. Reproduced as Table 16.1 in: Thurber, Mark C., Ifeyinwa M. Emelife, & Patrick R. P. Heller (2012) "NNPC and Nigeria's oil patronage ecosystem," in Victor et al, eds, Oil and Governance, pp. 655-700, at page 711.

Cell: P98

Comment: Rick Heede:

Chevron reports production of 524,000 bbl per day "under a joint-venture arrangement with the Nigerian National Petroleum Corporation (NNPC), which owns a 60 percent interest" and net to Chevron of 237,000 bbl per day. Chevron AnnRpt, page 23.

Note: 237 of 524 is 45.2 percent, not 40 percent, and the reason for this discrepancy is not clear.

Cell: W158

Comment: Rick Heede:

NNPC AR 2010 pdf pg 47

Cell: T170

Comment: Rick Heede:

Nigerian NPC Statistical Bulletin 2010, Table 11. Total 2,392 Bcf produced, 72 Bcf used as fuel, 857 Bcf sold to third parties, 21 Bcf sold to NGC, 493 Bcf re-injected, 5 Bcf sold to EPCL, 26 Bcf used for LPG/NGL AS, 167 Bcf for LNG, 169 Bcf for gas lift; 1,811 Bcf utilized (75.7 percent); 582 Bcf flared.