

APPENDIX 8: IMPORTS

APPENDIX 8.1: INDONESIA CRUDE OIL IMPORTS (1,000 BARRELS)

Country	Crude	2000	2001	2002	2003	2004
Saudi Arabia	ALC	36,182.3	40,005.6	34,472.5	41,339.2	37,879.6
Algeria	Saharan	-	10,443.1	5,492.3	8,068.4	3,588.0
Iran	ILC	3,667.6	5,538.6	-	-	-
China	Nanghai	5,983.1	6,573.4	6,682.1	3,644.7	-
	Wenchang	-	-	-	2,250.79	4,208.9
	Xijiang	-	1,813.3	1,169.7	4,699.3	7,186.7
Malaysia	Tapis	-	627.9	-	2,635.7	7,134.1
	Bunga Kekwa	-	-	-	-	346.3
	Dulang	-	-	-	-	-
	Bintulu	467.9	-	-	-	-
	Miri	4,618.8	3,168.1	1,746.7	-	-
	Labuhan	2,222.3	1,754.3	5,203.5	6,345.16	2,903.6
	Palm	-	989.1	-	-	-
	Masa	470.7	-	-	-	-
Australia	Varnard	-	-	-	-	-
	North W.S.	-	-	-	-	-
	Gipsland	-	-	-	1,354.50	658.9
	Cossack	-	-	-	1,273.29	1,304.8
	Barrow	-	-	-	-	-
	Skua	-	-	-	-	-
	Jabiru	-	-	-	-	-
	Challis	-	-	-	-	-
Legendre	-	548.9	661.9	3,660.1	1,928.2	
Libya	Sarir Light	-	-	989.2	3,646.7	-
Vietnam	Bach Ho	3,026.0	6,518.5	3,548.1	3,384.6	7,510.0
	Dai Hung	1,170.7	-	-	-	0.0
	Ruby	470.8	-	574.7	1,026.7	1,102.2
	Rang Dong	472.4	-	-	3,954.4	962.7
Nigeria	Qua Iboe	919.1	2,006.5	15,307.4	11,344.1	10,444.4
	Odudu	-	7,625.2	9,446.7	10,486.5	0.0
	Escravos	12,784.4	1,797.3	3,827.4	947.2	9,554.1
	Varanus	-	362	-	-	0.0
	Bonny LC	-	10,443.10	7,787.00	3,840.50	5,681.7
	Brass LC	-	925.8	6,568.60	2,775.55	1,017.6
Brunei	Light Crude	599.6	-	-	-	-
	Seria	-	-	659.9	3,674.7	4,873.7
PNG	Kutubu	-	-	-	3,134.8	1,860.6
Yemen	Marib LC	-	-	1,979.6	1,939.9	-
Iraq	BLC	1,972.0	-	3,889.8	-	2,004.1
Pakistan	Badin	2,406.4	2,532.9	1,505.8	-	-
Thailand	Tantawan/Benchamas	2,544.1	4,474.4	-	4,929.0	8,596.29
Oman	Oman	-	-	2,096.6	-	-
Rwanda	Zafiro	-	-	1,939.9	1,938.9	6,821.4
Angola	Nemba	-	-	-	2,943.3	7,720.2
	Palanca	-	-	-	-	995.3

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Country	Crude	2000	2001	2002	2003	2004
Others	Cham	-	601.5	-	-	-
	BIS	-	183.4	-	-	-
	Kitina	-	-	1,887.3	-	-
	PPT	-	479.5	-	-	-
	Bebatik	-	1,310.5	649.8	-	-
	Nile Blend					4,463.6
	Azeri					4,986.9
Champion					2,756.0	
TOTAL	Volume	79,978.1	112,878.1	124,147.7	135,237.9	148,489.9
	Value (\$Mln)	2,303.5	2,852.3	3,216.9	4,085.5	5,791.9

Source: Migas-Trade

APPENDIX 8.2: IMPORTS OF CRUDE OIL AND REFINED PRODUCTS

Volume: 1,000Barrels

Value: US\$ million

Year	Crudes		Refined Products		Total Value
	Volume	Value	Volume	Value	
1995	68,326.9	1,229.1	50,765.0	978.8	2,207.9
1996	71,791.0	1,506.7	60,905.9	1,576.9	3,083.6
1997	62,882.0	1,292.0	94,994.2	2,296.8	3,588.8
1998	72,476.0	976.7	54,053.8	807.7	1,784.4
1999	84,692.0	1,501.2	79,902.0	1,656.4	3,157.6
2000	79,978.0	2,303.5	90,025.3	2,986.9	5,290.4
2001	112,878.1	2,852.3	89,622.1	2,577.4	5,429.7
2002	124,147.7	3,216.9	106,927.6	3,308.7	6,525.6
2003	135,237.9	4,085.4	106,381.2	3,395.2	7,480.7
2004	148,489.9	5,792.0	124,819.3	5,854.4	11,646.3

Source: Migas-Trade

APPENDIX 8.3: IMPORTS OF OIL PRODUCTS (1,000 BARRELS)

Oil Products	2000	2001	2002	2003	2004
Gas Oil (ADO)	45,248.1	49,555.9	60,609.6	55,133.6	64,875.0
Fuel Oil	12,712.6	4,586.4	7,750.0	6,921.8	9,370.4
Kerosene/DPK	18,651.4	17,096.0	17,100.3	14,611.7	13,594.8
HOMC	12,477.2	15,158.9	19,838.9	18,797.3	27,556.0
IDO	1,914.2	-	-	-	-
Avgas	-	-	6.5	-	-
Avtur	-	-	1,234.6	2,055.2	3,622.1
HSFO	-	2,744.7	-	-	-
Paraxylene (PYGas)	181.3	-	-	80.8	-
Premium				7,067.7	2,437.2
Gasoline					2,995.0
Others (incl. LPG)	755.0	479.3	387.7	1,713.2	369.0
TOTAL – Volume	90,025.3	89,622.1	106,927.6	106,381.2	124,819.3
Value (US\$Mln)	2,986.9	2,577.4	3,308.8	3,395.2	5,854.4

Source: Migas-Trade

APPENDIX 9: DOWNSTREAM REFINERY

APPENDIX 9.1: CURRENT REFINERY CAPACITY (1000 B/D)

Refinery/Location	Installed Capacity 2003/2004	Effective Capacity 2003/2004	2003 Crude Processed	2004 Crude Processed	Crude Input
Pangkalan Brandan (North Sumatra)	5	5	2.6	2.3	Ketapa/NSC
Dumai (Central Sumatra)	120	120	128.9	122.1	Minas, Duri
Sungai Pakning (Central Sumatra)	50	50	47	48.6	Minas, Lalang, Lirik
Musi (South Sumatra)	133.7	133.7	113.3	107.4	Jene, Ramba, SPD, Talang Akar, Geragai
Cilacap (Central Java)	348	348	351.4	332.5	Minas, Arjuna, Badak, Belida, Handil, Madura, Imported Crudes
Balikpapan (East Kalimantan)	260	260	246.5	264.3	Minas, Sepinggan, Widuri, Lalang, Bunyu, Sanga-sanga, Belida, Bekapai, Imported Crudes
Balongan (West Java)	125	125	114.8	111.9	Duri (50%), Minas(50%)
Kasim (Irian Jaya)	10	10	8.4	8.4	Walio, Salawati
Cepu (Central Java)	3.8	3.8	2.3	2.2	Cepu crude
TOTAL	1,055.5	1,055.5	1,015.2	999.8	--

Source: Migas-Refining

APPENDIX 9.2: REFINERY INTAKE (1000 BARRELS)

Sources	2000	2001	2002	2003	2004
Crude Oil	279,807.8	251,284.1	233,888.3	223,452.2	216,682.1
Condensate	5,482.4	5,015.8	230.6	105.5	2,322.6
Imported Crudes	74,941.4	105,096.0	123,851.8	135,033.3	147,028.2
Others	12,935.1	430.7	7,889.8	11,986.8	9,527.5
TOTAL	373,166.7	375,668.6	365,860.5	370,577.8	375,560.4

Source: Migas-Refining

APPENDIX 9: DOWNSTREAM REFINERY

APPENDIX 9.3: REFINERY OUTPUT (1000 BARRELS)

Refinery	2000	2001	2002	2003	2004
A. Total Fuel Oils (BBM)	276,696.5	283,389.4	278,658.0	278,203.00	283,153.4
Pangkalan Brandan	725.7	531.8	558.0	563.0	457.0
Dumai	39,896.0	43,949.9	36,738.6	41,974.4	41,517.1
Sungai Pakning	5,144.8	5,438.9	5,195.7	5,109.8	5,597.3
Musi	31,882.7	34,205.2	35,621.0	31,008.1	30,916.7
Cilacap	93,360.4	96,142.4	95,362.7	101,516.5	98,611.2
Balikpapan	64,035.7	61,029.6	65,352.8	60,407.0	65,723.2
Balongan	39,039.8	40,068.1	38,170.8	35,401.5	38,109.0
Kasim	2,195.2	1,526.5	1,208.9	1,827.6	1,831.5
Cepu	416.4	499.1	449.8	395.1	390.5
B. Total Other Products	96,470.2	92,278.9	87,202.1	92,344.80	92,407.0
Pangkalan Brandan	532.7	407.6	422.9	398.6	381.1
Dumai	5,211.4	3,685.0	6,959.4	5,063.7	5,067.0
Sungai Pakning	11,705.9	12,141.6	12,739.8	12,030.4	12,132.9
Musi	12,727.5	8,211.5	8,612.3	10,345.3	8,565.5
Cilacap	24,872.8	27,433.5	20,722.9	26,770.2	25,544.7
Balikpapan	35,836.4	35,051.3	29,718.0	29,582.9	31,397.3
Balongan	4,734.4	3,763.4	6,561.7	6,489.9	7,556.8
Kasim	359.8	1,073.6	999.0	1,236.8	1,329.5
Cepu	489.1	509.2	456.2	427.0	432.2
C. GRAND TOTAL (A+B)	373,166.7	375,668.3	365,860.5	370,547.8	375,560.4
Pangkalan Brandan	1,258.4	939.4	980.9	961.6	838.1
Dumai	45,107.4	47,634.9	43,698.0	47,038.1	46,584.2
Sungai Pakning	16,850.7	17,580.5	17,935.5	17,140.2	17,730.2
Musi	44,610.2	42,416.7	44,233.3	41,353.4	39,482.2
Cilacap	118,233.2	123,575.9	116,085.6	128,286.7	124,155.9
Balikpapan	99,872.1	96,080.9	95,070.8	89,989.9	97,120.4
Balongan	43,774.2	43,831.5	44,732.5	41,891.4	45,665.8
Kasim	2,555.0	2,600.1	2,207.9	3,064.4	3,161.0
Cepu	905.5	1,008.3	916.0	822.1	822.7

Source: Migas-Refining

APPENDIX 9: DOWNSTREAM REFINERY

APPENDIX 9.4: REFINERY OUTPUT BY PRODUCT (1000 BARRELS)

Oil Products	2000	2001	2002	2003	2004
a. Fuel Oils	276,696.5	283,389.4	278,658.4	278,203.0	283,153.4
Automotive Diesel Oil	95,902.5	99,379.9	93,985.3	94,508.7	98,644.8
Mogas (a)	70,644.7	76,600.9	73,287.3	72,689.7	75,276.8
Kerosene	57,896.5	57,991.9	56,300.8	58,556.1	56,819.9
Fuel Oil	32,481.5	35,087.1	37,302.2	33,877.4	30,962.1
Industrial Diesel Oil	8,140.4	9,108.9	8,430.6	7,795.1	10,202.3
Aviation Turbine	8,441.20	8,619.9	9,319.4	72.4	11,215.1
Avgas	6.4	51.8	32.8	10,703.6	32.2
Jet Petrol (JP-5)	-	-	-	-	-
b. Secondary Fuel	56,930.8	54,534.4	44,592.6	50,338.7	47,925.6
LSWR	38,617.8	34,211.2	28,362.5	32,185.0	29,188.6
Naptha	16,647.4	20,180.5	16,230.1	18,153.7	18,736.9
LOMC	1,665.6	142.7	-	-	-
HOMC	-	-	-	-	-
c. Non Fuel	19,225.9	18,793.3	18,165.5	20,185.7	21,487.1
LPG	8,377.6	8,160.3	8,198.9	8,697.9	9,379.6
Asphalt	2,730.3	2,340.6	2,398.6	3,267.4	3,290.5
Green Coke	2,187.9	2,573.3	1,772.5	2,637.3	2,410.5
Lube Base Oil	2,676.1	2,711.5	2,252.5	2,867.2	2,822.5
Residual	387.0	319.4	291.5	247.3	246.7
Polytam	275.7	-	-	-	-
Wax	182.4	231.4	253.4	22.1	57.7
SPBX 40B	175.9	86.9	212.7	191.6	283.0
Minarex	150.1	126.4	127.6	130.0	151.0
Others	2,082.9	2,243.5	2,658.8	2,124.9	2,845.7
d. Balance (b)	20,313.5	18,951.2	24,443.0	21,820.2	22,994.3
GRAND TOTAL	373,166.7	375,668.3	365,860.5	370,547.6	375,560.4

Source: Mgas-Refining

(a) Premium, Pertamina and Pertamina plus

(b) Intermediate, Fuel and Gas Refining, Losses

APPENDIX 10: SUPPLY AND DEMAND OF OIL PRODUCTS

APPENDIX 10.1: SUPPLY AND DEMAND OF OIL PRODUCTS (MILLION BARRELS)

Supply/Demand	2000	2001	2002	2003	2004
Supply	460.2	465.3	472.6	476.9	530.0
Domestic Refineries	373.2	375.7	365.7	370.5	375.6
Imports	87	89.6	106.9	106.4	154.4
Demand	418.4	413.2	412.4	437.8	471.1
Domestic Sales	351.3	358.1	370.3	381.5	406.6
Exports	67.1	55.1	42.1	56.3	64.5

Source: Migas-Trade & Refining

APPENDIX 10.2: SUPPLY OF REFINED PRODUCT (MILLION BARRELS)

Products	2000	2001	2002	2003	2004
Total Refinery Output	370.0	375.7	365.9	370.5	375.6
Automotive Diesel Oil	95.9	95.9	94	94.5	98.6
Gasoline	70.6	73.2	73.3	72.7	71.9
Kerosene	57.9	58	56.3	58.6	56.8
Fuel Oil	32.5	35.1	37.3	33.9	31.0
Industrial Diesel Oil	8.1	9.1	8.4	7.8	10.2
Avtur	8.4	8.6	9.3	0	11.2
LSWR	38.6	34.2	28.4	32.2	29.2
Naptha	16.6	20.2	16.2	18.2	18.7
Others/ Refining Fuel/ Losses	41.4	19.8	52.7	52.8	47.9
Total Imports	91.9	89.6	106.9	106.4	154.4
Automotive Diesel Oil	45.1	49.6	60.6	55.1	77.6
Fuel Oil	12.7	4.6	7.8	6.9	11.9
Diesel Oil	1.9	-	-	-	-
Kerosene	18.6	17.1	17.1	14.6	18.3
Avtur	-	-	1.2	2.1	4.3
HOMC	12.5	15.2	19.8	18.8	36.5
Others	1.1	3.2	0.4	8.9	5.8
Total Supply (Output + Import)	460.2	465.3	472.8	477.1	530.0
Automotive Diesel Oil	141.0	145.5	154.6	149.6	176.2
Gasoline	70.6	73.2	73.3	72.7	71.9
Kerosene	76.5	75.1	73.4	73.2	75.1
Fuel Oil	45.2	39.7	45.1	40.8	42.9
Industrial Diesel Oil	10.0	9.1	8.4	7.8	10.2
Avtur	8.4	8.6	10.5	2.1	15.5
LSWR	38.6	34.2	28.4	32.2	29.2
Naptha	16.6	20.2	16.2	18.2	18.7
HOMC	12.5	15.2	19.8	18.8	36.5
Others	42.5	23.0	53.1	61.7	53.7

Source: Migas-Trade & Refining

APPENDIX 10: SUPPLY AND DEMAND OF OIL PRODUCTS

APPENDIX 10.3: CONSUMPTION OF REFINED PRODUCT (MILLION LITERS)

Products	2000	2001	2002	2003	2004
Fuel Oils	54,824.7	55,890.9	57,797.3	59,865.6	64,650.6
Auto Diesel	21,734.7	23,013.7	24,212.9	25,635.5	26,487.8
Gasoline	12,421.8	13,056.7	13,732.4	14,112.4	17,027.4
Kerosene	12,455.2	12,279.0	11,678.4	12,262.1	11,846.1
Fuel Oil	6,013.1	6,121.2	6,260.3	6,321.3	5,754.5
Industrial Diesel	1,451.2	1,420.3	1,360.3	1,402.7	1,093.4
Avtur	744.1	n/a	552.9	123.5	2,437.9
Avgas	4.6	n/a	-	8.2	3.4
Others (1000 MT)	1767.5	1957.5	-	-	-
LPG	982.7	1,022.00	n/a	n/a	n/a
Asphalt	416.1	577.3	n/a	n/a	n/a
Lube Oil	368.7	358.2	n/a	n/a	n/a

Source: Migas-Trade & Refining

APPENDIX 10.4: DOMESTIC FUEL CONSUMPTION BY SECTORS (MILLION LITERS)

Year	Household	Transportation	Electricity	Industry	Total	Change (%)
1990	7,853	13,315	4,304	6,704	32,176	13.1
1991	7,987	14,396	5,260	7,183	34,826	8.2
1992	8,459	15,271	5,869	8,121	37,721	8.3
1993	8,533	16,069	6,834	8,862	40,298	6.8
1994	8,804	17,990	3,831	9,197	39,822	-1.2
1995	9,145	19,640	2,969	9,926	41,680	4.7
1996	9,682	21,824	3,331	10,292	45,129	8.3
1997	9,861	23,877	5,898	10,698	50,334	11.5
1998	10,055	23,207	4,379	10,453	48,094	-4.5
1999	11,852	23,396	3,956	11,573	50,776	5.6
2000	12,407	25,548	5,008	11,862	54,825	8.0
2001	12,242	26,248	5,017	12,384	55,891	1.9
2002	11,625	27,329	6,505	12,338	57,797	3.4
2003	12,318	28,596	6,696	12,254	59,865	3.5
2004	11,787	30,130	6,797	15,936	64,651	8.0

Source: Migas-Trade & Refining

APPENDIX 10: SUPPLY AND DEMAND OF OIL PRODUCTS

APPENDIX 10.5: CHANGES IN DOMESTIC FUEL PRICES (1993 – 2005) (RP/LITER)

Effective Date	Premium (Gas 88)	Kerosene	ADO	IDO	FO	Notes
7-Jan-93	700	280	380	360	240	
5-May-98	1,200	350	600	500	350	
15-May-98	1,000	280	550	500	350	
1-Oct-00	1,150	350	600	550	400	
15-Jun-01	1,450	400	900	1,000	900	Price A
	1,450	1,275	1,285	1,250	945	Price B
	2,180	2,550	2,570	2,500	1,890	Price C
1-Jul-02	1,750	1,320	1,350	1,320	1,110	75 % Market price
		1,750	1,790	1,760	1,480	100 % Market price
1-Jun-03	1,810	1,800	1,650	1,650	1,560	Retail price
	2,100	2,200	2,100	2,050	1,600	Market Price
19-Dec-04	1,810	1,800	1,650	1,650	1,560	Retail price
	2,100	2,200	2,100	2,050	1,600	Market Price
1-Mar-05	2,400	2,200	2,100	2,300	2,300	Retail price
	2,870	2,790	2,700	2,660	2,300	Market Price
1-Jul-05	2,400	2,200	2,100	2,300	2,360	Retail price
	4,060	4,940	4,740	4,560	2,900	Market Price
1-Aug-05	2,400	2,200	2,100	2,300	2,300	Retail price
	4,640	5,490	5,350	4,250	3,150	Market Price
1-Sep-05	2,400	2,200	2,100	2,300	2,360	Retail price
	5,160	5,600	5,480	5,130	3,150	Market Price

Source: Pertamina

Note: a: Retail prices are actual selling price, which are subsidized and determined by the government.

b: Market price = MOPS (Mid Oil Platts Singapore) + 5%

APPENDIX 11: NATURAL GAS

APPENDIX 11.1: NATURAL GAS PRODUCTION BY MAJOR PRODUCERS (MILLION SCF)

Company	2000	2001	2002	2003	2004	% Change
Total	841,419	880,237	835,031	877,523	909,932	3.69
ExxonMobil	458,929	268,109	557,873	601,673	507,096	-15.72
Vico	452,456	464,049	438,982	392,625	329,511	-16.07
BP	293,034	294,972	272,113	245,296	182,209	-25.72
Pertamina	285,692	276,791	258,012	263,194	383,870	45.85
Gulf Resources	165,226	163,751	-	-	-	0.00
Unocal	166,316	159,313	149,317	144,844	124,199	-14.25
ConocoPhillips*	20,924	41,378	233,411	297,922	319,317	7.18
Petrochina/Devon						
Energy	30,901	45,091	58,587	80,826	73,668	-8.86
Caltex	57,753	50,306	45,656	40,640	34,757	-14.48
Exspan	33,060	40,990	41,854	47,476	37,520	-20.97
Premier/Amoseas	12,572	29,238	40,371	51,254	56,357	9.96
CNOOC/YPF/Maxus	24,894	27,611	27,258	21,526	18,813	-12.60
Kodeco	12,392	11,034	23,570	35,095	8,355	-76.19
Talisman	5,768	7,668	14,023	8,517	-	-100.00
Energy Equity/Amerada	8,090	8,508	9,680	8,215	-	-100.00
Lapindo	2,687	4,221	7,690	17,786	23,617	32.78
Sea Union/Husky	7,934	7,458	7,454	4,506	-	-100.00
Hed Ind./Citra Patenindo	6,561	5,800	4,968	3,873	-	-100.00
Japex	6,448	5,082	3,458	-	-	-
Costa International	-	-	-	-	-	100.00
Others	8,323	24,042	12,565	12,452	20,911	67.94
TOTAL	2,901,379	2,807,150	3,041,873	3,155,243	3,030,132	-3.97

Source: Migas-Exploitation

APPENDIX 11.2: MARKETED NATURAL GAS (MILLION SCF)

	2000	2001	2002	2003	2004	% change
A. Exports	1,592,660.0	1,524,312.0	1,741,565.0	1,842,894.0	1,607,970.5	-12.7
Exports to Singapore	-	31,967.0	82,619.0	118,112.4	145,473.9	23.2
LNG for Exports	1,588,512.0	1,489,935.0	1,656,472.0	1,719,127.1	1,462,496.6	-14.9
LPG for Exports	4,148.0	2,410.0	2,474.0	5,654.5	0.0	-100.0
B. Domestic Use*	744,045.0	738,986.0	763,507.0	805,981.2	977,319.5	21.3
Electricity	223,564.0	254,238.0	195,300.0	187,186.5	169,456.6	-9.5
Fertilizer /Petrochemical						
Plants	255,178.0	230,141.0	265,701.0	256,730.6	253,707.7	-1.2
City Gas	62,561.0	78,389.0	82,743.0	157,477.9	253,229.5	60.8
Oil Refinery	32,277.0	29,437.0	30,892.0	22,772.8	20,496.7	-10.0
LPG Plants	10,788.0	10,397.0	26,611.0	31,459.3	33,058.0	5.1
Cement Plants	2,822.0	3,420.0	2,751.0	2,872.3	0.0	-100.0
Others	156,855.0	132,964.0	159,509.0	147,481.8	247,371.1	67.7
TOTAL	2,336,705.0	2,263,325.0	2,505,072.0	3,454,856.4	2,585,290.0	-0.3

Source: Migas-Production

*Exclude own use by the producers.

APPENDIX 11: NATURAL GAS

APPENDIX 11.3: GAS PIPELINE DEVELOPMENT PROJECT

No	Trans. Projects	Sub Transmission Projects	Size; length	Flowrate MMSCFD	Funding Sources	Status/Schedule
1	SSWJ – Phase 1 (\$424.40 mln)	Pagardewa - Terbanggi Besar	32" ; 170 km	250	JBIC, PGN	PMC appointed, land acquisition/ completion midyear 2006
		Terbanggi Besar - labuhan Maringgai	32" ; 105 km	250	JBIC, PGN	PMC appointed, land acquisition/ completion midyear 2006
		Labuhan Maringgai - Cilegon	32" ; 100 km	250	JBIC, PGN	PMC appointed, land acquisition/ completion midyear 2006
		Cilegon - Serpong	24" ; 70km	250	JBIC, PGN	PMC appointed, land acquisition/ completion midyear 2006
2	SSWJ Phase 2 (\$541.9 mln)	Grissik - Pagar Dewa	36" ; 185 km	400	Eurobond, PGN	Survey and Permit/completion midyear 2006
		Pagardewa - Terbanggi Besar - Labuhan Maringgai (Loop)	32" ; 275 km	400	Eurobond, PGN	Survey and Permit/completion end 2007
		Labuhan Maringgai - Muara Bekasi - Tegal Gede	32" ; 189 km	400	Eurobond, PGN	Survey and Permit/completion end 2007
		Tegal Gede Transmission	16"-24" ; 40 km	400	Eurobond, PGN	Survey and Permit/completion end 2007
3	Banten & West Java (\$241 mln)	Banten & Cilegon Expansion	6"-16" ; 172.7 km	1000	JBIC, WB	Survey and Permit/completion in 2008
		Greater Jakarta Distribution	4"-16" ; 250 km	1000	WB, PGN	Study and Permit/ completion 2006
		West Java distribution	8"-16" ; 212 km	1000	Loan, PGN	Study and Permit/ completion 2008
4	Duri - Dumai - Medan (\$405 mln)	Dumai - Simpang Dumai	28" ; 173 km	350	Loan, PGN	Study and Permit/completion in 2006
		Simpang Dumai - Kwala Tanjung	28" ; 314 km	350	Loan, PGN	Study and Permit/completion in 2007
		Kwala Tanjung - Asahan Power	20" ; 20 km	350	Loan, PGN	Study and Permit/completion in 2007
		Kwala Tanjung - Simpang Dumai	28" ; 179 km	350	Loan, PGN	Study and Permit/completion in 2008
		North Sumatra Distribution Extension	16" ; 200 km	150 - 250	Loan, PGN	Study and Permit/completion in 2009
5	East Kalimantan - Central Java (\$1220 mln)	Kuala Badak - Balikpapan	42" ; 100 km	1100	ADB, EIB, WB, Grants, PGN	Feasibility study/completion in 2008
		Balikpapan - Banjarmasin	42" ; 519 km	1100	ADB, EIB, WB, Grants, PGN	Study/completion in 2010

APPENDIX 11: NATURAL GAS

No	Trans. Projects	Sub Transmission Projects	Size; length	Flowrate MMSCFD	Funding Sources	Status/Schedule
		Banjarmasin - Semarang	42" ; 600 km	1100	ADB, EIB, WB, Grants, PGN	Study/completion in 2010
		Balikpapan, Samarinda & Banjarmasin Distribution	4'-6'; 152 km	n.a	ADB, EIB, WB, Grants, PGN	Study/completion in 2010
6	East Java - West Java (\$540 mln)	Gresik - Semarang	28" ; 250 km	700	ADB, Grants, PGN	Study/completion 2010
		Semarang - Cirebon	42" ; 230 km	700	ADB, Grants, PGN	Study/completion 2010
		Cirebon - Muara Bekasi	42" ; 220 km	700	ADB, Grants, PGN	Study/completion 2010
		East & Central Java Distribution	4"-6" ; 300 km	700	ADB, Grants, PGN	Study/completion 2010
7	Sengkang - Makassar (\$110 mln)	Kampung Baru - Pare Pare - Makassar	10"-18" ; 210 km	63 - 88	Loan, PGN	Feasibility study/completion in 2011

Source: PGN

APPENDIX 12: LNG AND LPG

APPENDIX 12.1: LNG PRODUCTION AND EXPORT (1,000 MT)

	2000	2001	2002	2003	2004
Production	27,321.00	24,343.70	26,253.65	26,771.62	25,237.8
PT. Arun	6,706.10	2,999.80	6,375.41	6,633.98	5,660.3
PT. Badak	20,614.90	21,343.90	19,878.24	20,137.64	19,577.5
Exports	26,990.10	23,882.50	26,214.50	26,433.34	25,494.8
PT. Arun	6,747.00	2,822.80	6,249.70	6,429.20	5,855.3
PT. Badak	20,243.10	21,059.70	19,964.80	20,004.15	19,639.5

Source: Migas-Production & Trade

Note: Exports may exceed production because of drawdowns of reserves/storage.

APPENDIX 12.2: LNG EXPORT

Year	Total	Total	Total
	(Mln MBTU)	(1000MT)	(USD million)
1995	1,287	24,899	3,856
1996	1,370	26,505	4,730
1997	1,388	26,896	4,735
1998	1,396	26,974	3,390
1999	1,502	28,956	4,489
2000	1,400	26,990	6,802
2001	1,239	23,883	5,375
2002	1,360	26,215	5,595
2003	1,370	26,433	6,586
2004	1,322	25,495	7,722

Source: Migas-Trade

APPENDIX 12.3: LNG EXPORT BY DESTINATION (1,000 MBTU)

Destination	2000	2001	2002	2003	2004
Japan	933,660	870,978	714,426	923,707	841,969
Korea	320,766	212,323	200,884	263,015	275,594
Taiwan	145,398	155,484	120,232	114,132	204,852
TOTAL	1,400,024	1,238,785	1,035,543	1,300,854	1,322,415

Source: Migas-Trade

APPENDIX 12: LNG AND LPG

APPENDIX 12.5: LPG PRODUCTION (MT)

	2000	2001	2002	2003	2004
Total Refineries (Oil+Gas)	2,087,669	2,187,677	2,099,756	2,023,981	2,016,001
Oil Refinery	766,632	772,143	814,177	911,188	896,395
Dumai	76,195	60,810	43,416	n/a	63,250
Musi	69,721	101,963	121,070	n/a	134,276
Cilacap	144,975	146,347	144,768	n/a	148,113
Balikpapan	127,969	94,513	104,437	n/a	120,315
Balongan	347,772	368,510	400,486	n/a	430,441
Gas Refinery	1,321,037	1,415,534	1,285,579	1,112,793	1,119,606
Arun/ExxonMobil	-	-	-	-	-
Badak/Vico	862520	1063022	823434	879049	854,136
Arjuna/Bp	204,913	114,101	161,172	25,266	147,224
Santan/Union	177,084	173,494	172,525	156,322	0
Mundu/Pertamina	11,544	9,314	9,533	9,255	9,457.00
Arar	4,433	4,072	678	566	1,474
Pangkalan Brandan	60,542	51,531	48308	42335	38,337
Jabung	-	-	-	-	68,978

Source: Migas-Production

APPENDIX 12.6: LPG PRODUCTION, DOMESTIC SALES AND EXPORTS

Year	Production (MT)	Domestic Sales (MT)	Exports Volumes (MT)	Exports Value US\$Mln	Price (\$/MT)
1990	2,745,884	317,419	2,602,057	378	145.4
1991	2,756,504	361,593	2,528,844	345	136.5
1992	2,785,009	413,852	2,470,334	356	144.0
1993	2,872,072	506,055	2,548,056	329	129.0
1994	2,894,219	548,250	2,566,495	343	133.6
1995	2,941,345	629,354	2,493,301	468	187.5
1996	3,227,664	810,436	2,709,320	547	202.0
1997	2,786,651	828,930	2,132,917	516	242.1
1998	2,343,944	799,900	1,761,305	257	146.0
1999	2,263,518	906,326	1,745,383	339	194.3
2000	2,087,669	982,700	1,306,318	394	301.4
2001	2,187,677	1,022,000	1,484,484	389	261.8
2002	2,099,756	830,044	1,269,712	312	245.4
2003	2,023,981	917,557	1,106,424	330	297.8
2004	2,016,001	981,731	1,034,270	334	345.0

Source: Migas-Trade

APPENDIX 12: LNG AND LPG

APPENDIX 12.7: LPG EXPORTS BY DESTINATION (MT)

Volume in 1,000 MT	Value in US\$ 1,000				
	2000	2001	2002	2003	2004
Volumes (1,000 MT)	1,306.3	1,484.5	1,269.7	1,106.6	1,034.3
Japan	943.8	1,169.2	879.4	882.3	836.2
HongKong	90.5	35.7	-	-	-
Taiwan	1.7	93.5	10.6	-	-
Australia	30.4	51.8	8.5	7.0	9.2
Singapore	3.5	13.3	1.6	21.7	-
Philippines	31.5	17.1	57.3	34.9	35.2
China	151.8	21.8	243.3	82.0	45.8
Others	53.1	82.1	69.0	78.7	108.0
Values (US\$ '000)	393,708	388,605	411,571.0	137,743.8	333,676.9
Japan	290,332	309,793	n/a	n/a	n/a
HongKong	25,110	10,517	n/a	n/a	n/a
Taiwan	479	20,566	n/a	n/a	n/a
Australia	8,472	13,532	n/a	n/a	n/a
Singapore	1,061	6,310	n/a	n/a	n/a
Philippines	10,329	7,044	n/a	n/a	n/a
Others	57,925	20,843	n/a	n/a	n/a

Source: Migas-Trade

APPENDIX 13: PRIMARY ENERGY

APPENDIX 13.1: PRIMARY ENERGY CONSUMPTION (MILLION BARRELS OF OIL EQUIVALENT)

Year	Oil		Natural Gas		Coal		Hydro		Geothermal		Total
	Oil	%	Gas	%	Coal	%	Hydro	%	mal	%	
1995	286.6	52.7	198.6	36.5	41.8	7.7	12.5	2.3	4.2	0.8	543.6
1996	310.8	52.5	212.4	35.9	50.6	8.6	13.2	2.2	4.5	0.8	591.5
1997	336.4	54.2	210.4	33.9	60.1	9.7	8.8	1.4	5.4	0.9	621.2
1998	318.9	53.7	183.4	30.9	68.2	11.5	16.1	2.7	7.4	1.2	593.9
1999	343.0	51.9	209.8	31.7	85.0	12.9	15.4	2.3	7.5	1.1	660.7
2000	368.0	52.0	213.1	30.1	100.4	14.2	16.9	2.4	9.2	1.3	707.5
2001	380.4	50.4	221.0	29.3	122.4	16.2	19.1	2.5	11.8	1.6	754.7
2002	389.2	50.0	227.6	29.3	131.9	17.0	16.9	2.2	12.2	1.6	777.8
2003	395.1	50.9	220.3	28.4	131.2	16.9	17.6	2.3	12.3	1.6	776.5
2004	401.0	49.1	222.3	27.2	162.7	19.9	18.3	2.2	12.3	1.5	816.6

Source: BP Statistical Review of World Energy and MIGAS

APPENDIX 14: PETROCHEMICAL

APPENDIX 14.1: PETROCHEMICAL INDUSTRY IN INDONESIA (1000 MT)

Products	2000	2001	2002	2003
1. Ammonia				
Production Capacity	4,438	4,915	4,915	5,684
Domestic Demand	3,970	3,640	4,180	3,369
2. Methanol				
Production Capacity	990	990	990	990
Domestic Demand	339.3	346	326	304.4
3. Benzene				
Production Capacity	123	123	123	123
Domestic Demand	309.2	290.2	866	403.9
4. Paraxylene				
Production Capacity	270	270	270	270
Domestic Demand	1,120	1,154	1,725	772
5. Ethylene				
Production Capacity	520	520	520	550
Domestic Demand	683.4	686.5	740	781.5
6. Propylene				
Production Capacity	530	530	530	530
Domestic Demand	441.4	443.6	452	483.7
7. Carbon Black				
Production Capacity	130	135	135	135
Domestic Demand	115.9	116.4	184	127
8. Terephthalic Acid				
Production Capacity	1,800	1,800	1,800	1,975
Domestic Demand	1,302	1,600	1,602	1,246
9. Ethylene Glycol				
Production Capacity	220	220	220	220
Domestic Demand	560.5	550.2	485	413.1
10. Ethylene Dichloride				
Production Capacity	378.4	378.4	600	467
Domestic Demand	406.1	420.8	456	185.6
11. Alkyl Benzene				
Production Capacity	220	220	220	220
Domestic Demand	155.3	164.5	185	193.5
12. Vinyl Chloride Monomer				
Production Capacity	500	500	500	500
Domestic Demand	443	382.8	391	342.3
13. Styrene Monomer				
Production Capacity	300	200	200	220
Domestic Demand	98.7	107.6	108.9	146.4
14. Phthalic Anhydride				
Production Capacity	70	70	70	70
Domestic Demand	48.7	49.9	51	58.5

APPENDIX 14: PETROCHEMICAL

Products	2000	2001	2002	2003
15. Maleic Anhydride				
Production Capacity	14	15.9	15.9	15
Domestic Demand	9.6	9.1	10.3	11
16. Melamine				
Production Capacity	70	70	70	70
Domestic Demand	24.1	25	30	24.3
17. Alkyl Benzene Sulfonate				
Production Capacity	192.5	192.5	192.5	220
Domestic Demand	146.9	148.9	158	193.5
18. Nylon Filament Yarn				
Production Capacity	22	22	22	22
Domestic Demand	31.4	17.9	20	21
19. Formic acid				
Production Capacity	11	11	11	11
Domestic Demand	8.3	7.8	8.2	7
20. Polyol				
Production Capacity	35	35	35	35
Domestic Demand	26.7	25.8	48.2	19
21. Nylon Tyre Cord				
Production Capacity	33	33	33	46
Domestic Demand	21.6	33.8	35.6	24
22. Dioctyl Ortho Phthalate				
Production Capacity	97.2	97.2	97.2	97.2
Domestic Demand	57.7	54.9	62.4	68
23. Polyethylene				
Production Capacity	750	750	750	750
Domestic Demand	391.7	411.3	572.6	603.4
24. Polypropylene				
Production Capacity	480	480	480	605
Domestic Demand	377.6	396.5	423	639.6
25. Polystyrene				
Production Capacity	100.8	115.8	115.8	116
Domestic Demand	81.6	73.6	75.7	93.5
26. Polyvinyl Chloride				
Production Capacity	589	589	589	589
Domestic Demand	118.9	128.5	138.7	221.9
27. Polyethylene Terephthalate				
Production Capacity	166	324.6	324.6	166
Domestic Demand	61.9	68.1	70	77.8
28. Acrylonitrile Butadiene Styrene				
Production Capacity	15	41	41	15
Domestic Demand	25	26.1	27.5	5.9
29. Styrene Butadiene Latex				
Production Capacity	93	93	93	93
Domestic Demand	39.1	41	41.8	46

APPENDIX 14: PETROCHEMICAL

Products	2000	2001	2002	2003
30. Alkyd Resin				
Production Capacity	67.6	67.6	67.6	67.6
Domestic Demand	43.8	39.2	50	46.5
31. Synthetic Resin Dispersion				
Production Capacity	67.6	67.6	67.6	67.6
Domestic Demand	48.5	39.1	85.9	93
32. Adhesive Resin				
Production Capacity	1,780.0	1,624.3	1,624.3	1,624.3
Domestic Demand	1,226.70	1,171.60	1,269.00	658
33 Ethylene Vinyl Acetate				
Production Capacity	0	0	0	n/a
Domestic Demand	45.1	47.8	48.9	n/a
34 Polyvinyl Alcohol				
Production Capacity	0	0	0	0
Domestic Demand	18.5	19.4	20.5	20
35 Polyvinyl Acetate				
Production Capacity	0	0	0	0
Domestic Demand	2.7	2.8	3.2	4
36 Epoxy Resin				
Production Capacity	0	0	0	0
Domestic Demand	3.9	4.1	5.2	5.2

Source: MOIT-Upstream Chemical

APPENDIX 16: OIL CONTRACTS

APPENDIX 16.3: WORKING AREAS OFFER AND AWARD

No	Block	Location	Status
2002 2nd round			
1	Muara Bakau	Makassar Strait	Sold to ENI Indonesia
2	Taritip	Makassar Strait	Unsold - Open for direct offer 2005
3	Jangeru	Makassar Strait	Unsold – Open for direct award
4	Amborip-I	Arafura Sea	Unsold – Open for direct award
5	Amborip-II	Arafura Sea	Unsold – Open for direct award
6	Amborip-III	Arafura Sea	Unsold – Open for direct award
7	Amborip-IV	Arafura Sea	Unsold – Open for direct award
8	Amborip-V	Arafura Sea	Unsold - Open for direct offer 2005
9	Amborip-VI	Arafura Sea	Awarded to ConocoPhillips (08/04/05)
10	Biga	Seram Sea	Unsold – Open for direct award
11	Segaf	Seram Sea	Unsold – Open for direct award
12	Polewali	South Sulawesi	Unsold – Open for direct award
13	Enrekang	South Sulawesi	Unsold – Open for direct award
14	Tigau	East Kalimantan	Unsold – Open for direct award
15	Mentana	East Kalimantan	Unsold – Open for direct award
2003			
1	Merangin I	On. Central Sumatra	Sold to Exspan Merangin
2	Merangin II	On. Central Sumatra	Sold to PT. Sele Raya
3	Rembang	On. North Central Java	Awarded to Orna International
4	Bulu	On. North Central Java	Sold to Sevana Ltd (Petroland Energy)
5	South Madura	Off. East Java	Sold to Eksindo Petroleum
6	North East Madura I	Off. East Java	Sold to KNOC/Petrovietnam
7	North East Madura II	Off. East Java	Sold to KNOC/Petrovietnam
8	East Kangean	Off. East Java	Awarded to PT Energy Timur Jauh (08/04/05)
9	North Bali I	Off. East Java	Sold to Santos
10	North Bali II	Off. East Java	Unsold – Open for direct award
11	Tarakan	Off. East Kalimantan	Sold to Provident Ind. Energy
2003 Direct Offer			
1	West Salawati	On&Off Papua	Awarded to Pearl Oil Ltd.
2	Asmat	On. Papua	Awarded to Indonesia Papua Petroleum Ltd. (12/12/2004)
3	Bangkalanai	On.&Off Cent. Kalimantan	Awarded to Elnusa Energy Ltd.
4	Halmahera	On.&Off. North Maluku	Awarded to Halmahera Petroleum Ltd
5	Palmerah	On. South Sumatra	Awarded to Tately NV.
6	Bontang	On.&Off. East Kalimantan	Awarded to PT. Eksindo
7	Biliton	Java Sea	Awarded to Asia Petroleum Development Ltd.
8	Anambas	Natuna Sea	Awarded to Sanyen Oil Ltd
2003 - 2004			
1	Lhokseumawe	Off. Aceh	Awarded to Zaratex NV (08/04/05)
2	Ujung Kulon	Off. West Java	New acreage – no bidders
3	NE Madura III	Off. Madura	Sold to Anadarko (12/12/04)
4	NE Madura IV	Off. Madura	Sold to Petronas Carigali Sdn. (12/12/04)
5	NE Madura V	Off. Madura	Unsold - Open for direct offer 2005
6	Rote I	Off. NTT	New acreage

APPENDIX 16: OIL CONTRACTS

No	Block	Location	Status
7	Rote II	Off. NTT	New acreage – no bidders
8	Babar	Off. Maluku	New acreage
9	Selaru	Off. Maluku	New acreage – no bidders
10	Manokwari	On. West Irian Jaya	Awarded to PT Waropen Perkasa (12/12/04)
2004 Direct Offer			
1	Bulungan	Off. East Kalimantan	Awarded to Eni Indonesia Ltd. (12/12/04)
2	Nunukan	Off. East Kalimantan	Sold to Medco Energy (12/12/04)
3	Seruway	Off. Aceh	Awarded to Transworld E&P Inc. (12/12/04)
4	Pandan	On South Sumatra	Awarded to PT Tropik Energi (12/12/04)
5	Barito	On Middle Kalimantan	Awarded to ALTAR Sociedade (12/12/04)
6	East Ambalat	Off. East Kalimantan	Awarded to Unocal (12/12/04)
7	Sei Nangka - Senipah	On. East Kalimantan	Awarded to PT Kutai Etam Petroleum (12/12/04)
8	Air Komerling	On. South Sumatra	Awarded to PT. Binakarindp (12/12/04)
9	Belida	On. South Sumatra	Awarded to PT Sele Raya (12/12/04)
10	East Sepanjang	Off. East Java	Awarded to PT. Easco (12/12/04)
11	Northwest Natuna	Natuna Sea	Awarded to Genting Oil (12/12/04)
2005 First Round			
1	Cakalang	Offshore Natuna	New Acreage
2	Kerapu	Offshore Natuna	New Acreage
3	Baronang	Offshore Natuna	New Acreage
4	East Bawean I	Off. East Java	New Acreage
5	East Bawean II	Off. East Java	New Acreage
6	Lampung I	Off. Lampung	New Acreage
7	Lampung II	Off. Lampung	New Acreage
8	Buton I	On/Off. Buton	New Acreage
9	Buton II	On/Off. Buton	New Acreage
10	Damplas	Makassar Strait	New Acreage
11	Baleisang	Makassar Strait	New Acreage
12	Pasangkayu	Makassar Strait	New Acreage
13	Surumana	Makassar Strait	New Acreage
14	Kamrau	On/Off. West Papua	New Acreage
2005 Direct Offer			
1	West Kampar	Riau	Awarded to PT Sumatera Persada Energi (08/04/205)
2	Bungamas	South Sumatra	Awarded to PT Erry Guna (08/04/05)
3	Bengkulu	Bengkulu	Awarded to PT Commissioning Services Indonesia (08/04/05)
4	Citarum	West Java	Awarded to PT Bumi Parahyangan Ranhill Energia (08/04/05)
5	Sebatik	East Kalimantan	Awarded to PT Star Energy (08/04/05)
6	Wailawi	East Kalimantan	Awarded to BUMD Benuo Taka (08/05/04)

Source: Migas-Exploration and Exploitation