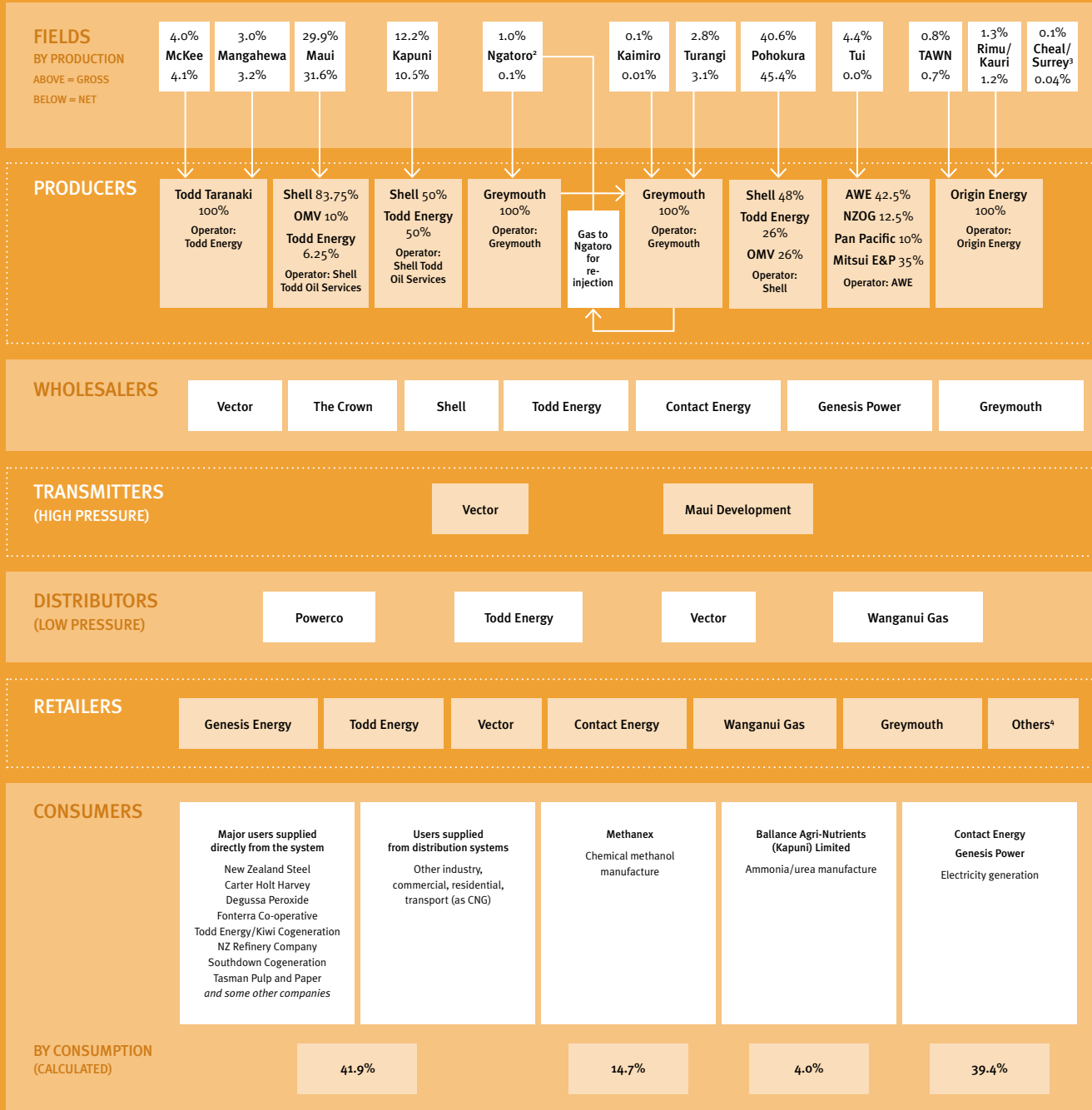


E. Gas

Figure E.1a: Gas Industry Summary for 2008¹



Company names are listed without the suffixes "Limited" and "New Zealand Limited" where applicable. **Arrowhead** is Arrowhead Energy Limited, **AWE** is Australian Worldwide Exploration Limited, **Contact Energy** is Contact Energy Limited, **Greymouth** is Greymouth Petroleum Limited, **Kanuka** is Kanuka Energy Limited, **Mitsui E&P** is Mitsui E&P New Zealand Limited, **NZOG** is New Zealand Oil & Gas Limited, **OMV** is OMV New Zealand Limited, **Origin Energy** is Origin Energy New Zealand Limited (51% shareholder in Contact Energy), **Pan Pacific** is Pan Pacific Petroleum, **Shell** is Shell NZ Limited (includes Shell Exploration NZ Limited, Shell (Petroleum Mining) Co Limited, Energy Petroleum Holdings Limited, Energy Petroleum Investments Limited, Energy Petroleum Taranaki Limited, Energy Finance New Zealand Limited and Taranaki Offshore Petroleum Company), **TAWN** comprises the Tariki, Ahuroa, Waihapa and Ngaere fields, **Todd Energy** is Todd Energy Limited and includes Nova Gas, **Vector** is Vector Limited and includes OnGas, **Wanganui Gas** is Wanganui Gas Company Limited and includes GasNet (Distribution) and Energy Direct NZ (Retail).

Notes to Figure E.1a: ¹ Gas ownership as at 31 December 2008; excludes LPG.

² Includes Goldie well.

³ Cheal is owned by Kanuka Energy Limited (36.5%), Cheal Petroleum Limited (30.5%) and Arrowhead Energy Limited (33.0%)

and operated by Austral Pacific Energy (NZ) Limited. Surrey is operated by Greymouth Petroleum Limited.

⁴ Others include Mercury Energy, Bay of Plenty Electricity, E-Gas and Auckland Gas Company. Both Bay of Plenty Electricity and Auckland Gas Company are part of Todd Energy.

Overview of New Zealand's Gas Industry

Introduction

This section of the EDF contains information about the production, transmission, distribution and sales to end consumers of natural gas. Customer numbers are at a specified time, and estimates are made where actual figures were not available at time of publishing.

All statistics apply to the 2008 calendar year. Comparisons are made with the 2007 calendar year, unless otherwise specified.

In 2008, total net gas production in New Zealand decreased by 6% to 155 PJ. This was caused by a combination of a drop in gas demand for electricity generation (as a consequence of plant outages, more coal generation at Huntly and increased geothermal generation) and a drop in consumer energy demand.

Ownership

Gas industry reforms began in 1987, when the Crown publicly floated 30% of Petrocorp. The government had used Petrocorp to manage its interests in gas production, transmission and distribution. In 1988, the government sold its remaining interest in Petrocorp and the Natural Gas Corporation Limited (NGC).

The Australian Gas Light Company (AGL) became a majority owner (66%) of NGC after it bought Fletcher Challenge Energy's (FCE) share. In October 2004, AGL sold its 66% interest in NGC to Auckland-based energy networks company Vector. Vector acquired full ownership of NGC Holdings in August 2005.

In July 2004, Australian company Origin Energy acquired a 50% interest in the Kupe gas field and bought California-based Edison Mission Energy's 51% stake in Wellington-based Contact Energy.

In December 2007, Contact Energy, in partnership with its majority owner Origin Energy, purchased a range of oil and gas assets from Swift Energy. These included the Tariki/Ahuroa, Waihapa/Ngaere (TAWN), Rimu, Kauri and Manutahi fields and wells.

Permitting, Exploration and Development

For commentary on permitting, exploration and development, see the Oil and Gas Reserves section (Section H). Further information on gas explorations is available on the Crown Minerals website: www.crownminerals.govt.nz.

Taxation

Among recent changes to gas exploration taxation, non-resident offshore rig operators carrying out exploration work in New Zealand qualify for an exemption from New Zealand tax levy on income (until 31 December 2009).

Government's Measures to Encourage Gas Exploration

Recent initiatives to promote exploration in New Zealand included government backing for a \$21 million seismic data acquisition project. The data acquisition fund was used to purchase two sets of reprocessed data (9,514 km over the Northland Basin and 6,473 km in the deepwater Taranaki Basin), three new 2D seismic data sets (3,160 km over the Great South Basin, 2,958 km over the East Coast and 1,203 km over the Raukumara ranges) and technical services associated with seismic data processing and interpretation.

As a result of the initiative, exploration permits were awarded over the Northland and deepwater Taranaki Basins, successful block offers were held in the East Coast and the Great South Basins and a data package was developed to support block offers over Northland and Raukumara.

In June 2004, the government announced a package of measures to encourage gas exploration and development in New Zealand. These were incorporated in the Minerals Programme for Petroleum 2005, which came into effect on 1 January 2005.

Changes introduced by the new programme included:

1. Ad Valorem Royalties (AVR) on "discoveries" made between 30 June 2004 and 31 December 2009 ("the period") as follows:
 - 1% for gas (previously 5%); and
 - 5% for oil (unchanged).
2. For offshore discoveries, the Accounting Profit Royalty (APR) is 15% for the first \$750 million of gross sales made during the period (previously 20%).
3. For onshore discoveries, the APR is 15% for the first \$250 million of gross sales made during the period (previously 20%).

4. "Ring fencing" – all prospecting and exploration costs incurred anywhere in New Zealand (in any permit) during the period will be deductible for the purpose of calculating the APR on a mining permit granted, during the period. Costs incurred during the period and before the petroleum mining permit was granted will be allowed to be carried forward for deduction with annual interest set at the 10-year Government Bond rate +1%.
5. Production from fields that do not qualify as a "discovery" will pay royalties as per the 1995 Minerals Programme.

Storage

Contact Energy is developing the Ahuroa field as a gas storage facility. This will support a planned 200 MW gas peaking electricity generation plant at the Stratford site. This will be New Zealand's first large-scale gas storage facility and has the potential to improve the flexibility of New Zealand's gas supply.

Deregulation and Governance

The gas and electricity industries were deregulated in 1992. Gas franchise areas were removed and wholesale gas price controls lapsed (retail price control had already lapsed).

The government first released a Government Policy Statement on gas governance in 2003, which was then revised and updated in October 2004 at the same time as amendments were made to the Gas Act 1992 to provide for a co-regulatory model of gas governance. The amendment set up an industry body, the Gas Industry Company (GIC), which makes recommendations to the Minister on improved gas industry arrangements such as rules and regulations in wholesaling, processing, transmission and retailing. The GIC has established a work programme and is developing a number of gas industry arrangements.

In April 2008, an updated policy statement on gas governance was released following the launch of the New Zealand Energy Strategy in October 2007. The GIC is required to have regard to the objectives and outcomes in this policy statement when making recommendations for rules or regulations.

E. Gas

Overview of New Zealand's Gas Industry continued

Production

Gas is produced entirely in the Taranaki region. Figure E.1a summarises the New Zealand gas industry in 2008, showing current producing fields and their percentage of total gas produced; consumption by major user/supplier categories is also shown in this figure.

There are 14 fields and wells that produce gas in New Zealand, with production dominated by the Pohokura field (40.6%) and the Maui field (29.8%) as shown in Figure E.1b. Companies involved in the production of gas are also shown in Figure E.1a, with Shell and Todd Energy owned subsidiaries controlling the majority of the market.

Figures E.2 and E.3 show total gas production and net gas production by field, respectively, from 1970 to 2008. Total gas production is gas production after the first separation point (see Oil and Gas Reserves section, Figure H.1). Net gas production is the difference between total gas production and the amount of gas flared, gas reinjected, LPG extracted, own use and losses. Note that net gas production for the Kapuni field from 1970 to 1973 has been estimated, assuming that net gas production was 95% of total gas production.

Liquefied Petroleum Gas (LPG)

LPG statistics are included in the Oil section, in Table D.15.

Compressed Natural Gas (CNG)

CNG is supplied to the automotive market through some North Island service stations. The CNG market has decreased markedly since government subsidies were removed in 1987. CNG sales are presented in Section E.6, with estimates from July 2000.

Transmission and Distribution

There are more than 3,400 km of high pressure gas transmission pipelines in New Zealand. New Zealand has two main transmission entities: Vector's transmission network and the Maui pipeline (owned by Maui Development Limited). All gas from Maui, Pohokura, McKee and Mangahewa is delivered into the Maui pipeline.

More than 2,800 km of intermediate, medium and low pressure gas distribution pipeline networks in the North Island are connected to the high pressure transmission system (Figure E.7).

Vector operates extensive gas distribution and retail operations in the North Island. There are four gas distributors: Vector, Powerco, Nova Gas and GasNet (network operator owned by Wanganui Gas).

Consumption

Gas consumption information is provided by Bay of Plenty Energy, Contact Energy, Genesis Energy, Vector, Nova Gas and Wanganui Gas. This collection does not include complete information for retailers accounting for less than 1 PJ.

There are nine retail brands: Contact Energy, Genesis Energy, Mercury Energy (Mighty River Power), Ogas (Vector), Nova Gas (Todd Energy), Auckland Gas Company (Todd Energy), Bay of Plenty Energy (Todd Energy), Energy Direct NZ (Wanganui Gas) and E-Gas.

Total observed gas consumption (including electricity generation, cogeneration, other transformation and petrochemical production) decreased from approximately 167 PJ to almost 154 PJ in 2008. This was due to a drop in demand for electricity generation and a drop in consumer energy demand.

Gas consumption and gas sales revenue reported by gas retailers, broken down by sector for the recent calendar years to 2008, are used to derive average unit prices (\$/GJ, Prices section). Gas price information presented in the Gas Prices and International Comparisons sections should be treated as approximations only. Further information on regional and national average gas tariffs can be found in the Residential Gas Price Survey at www.med.govt.nz/gas/RGPS/.

Industrial

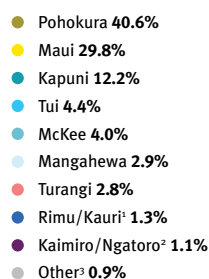
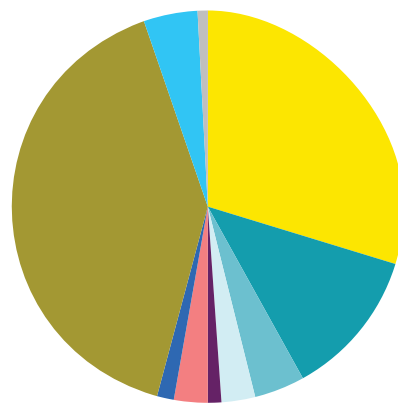
In 2008, the industrial sector accounted for 20% of total gas consumption (Figure E.1c). From companies surveyed, the number of industrial consumers reported by gas suppliers remains relatively high compared with earlier years, but has decreased recently (Table E.5d).

Petrochemicals

In 2008, the petrochemicals sector used around 19% of New Zealand's natural gas. The natural gas was used in the Methanex Waitara Valley plant, which closed in October 2008, the Motunui methanol plant, which opened in October 2008, and the Ballance Agri-Nutrients Kapuni ammonia/urea plant.

Crude methanol is produced from natural gas and distilled into high ("AA") grade methanol. Methanex New Zealand produced about 570,000 tonnes of methanol during 2008, compared with 435,000 tonnes in 2007. This increase is due to the larger capacity of the Motunui plant compared with the Waitara Valley plant.

Figure E.1b: Gross Gas Production by Field for 2008



Notes to Figure E.1b: ¹ Includes Manutahi well.

² Includes Goldie and Moturoa wells.

³ Includes Tariki/Ahuroa, Waihapa/Ngaere and Cheal fields, and Surrey well.

E. Gas

Overview of New Zealand's Gas Industry continued

Ballance Agri-Nutrients (Kapuni) Limited (previously Petrochem Limited) manufactures ammonia/urea from natural gas. The ammonia/urea plant uses Maui gas for fuel and a mixture of Maui and Kapuni LTS (Low Temperature Separated) gas as feedstock. Gas consumption for ammonia/urea production increased by 21% in 2008.

Electricity Generation

54% of New Zealand's natural gas produced during 2008 was used for electricity generation (including cogeneration).

Contact Energy Limited (Otahuhu B, Taranaki Combined Cycle and New Plymouth) and Genesis Power Limited (Huntly including the new e3p combined cycle plant) are the main thermal electricity generators in New Zealand using natural gas. In 2008, gas consumption for electricity generation decreased by 19% to 61 PJ and cogeneration increased by 2% to 23 PJ compared with 2007.

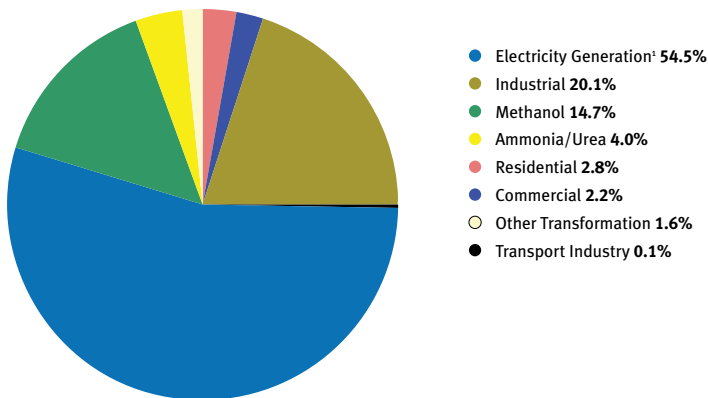
Residential

In 2008, the residential sector accounted for around 3% of total gas consumption. From companies surveyed, the number of residential consumers was around 230,000.

Commercial

Around 2% of gas consumption was used by the commercial sector. From companies surveyed, the number of commercial (including transport) consumers was around 7,200.

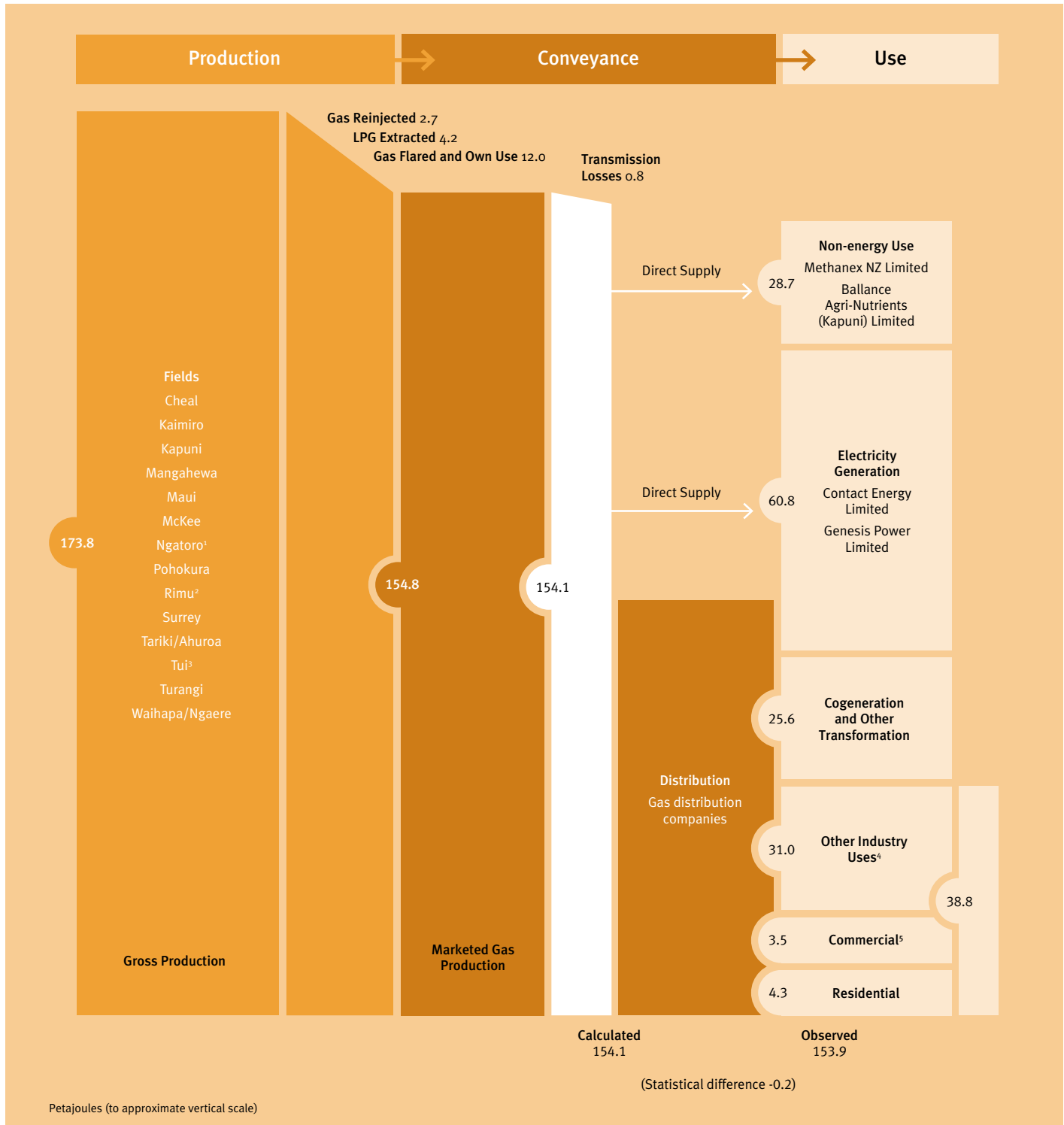
Figure E.1c: Gas Consumption by Sector for 2008



Note to Figure E.1c: * Includes cogeneration.

E. Gas

Figure E.1d: Gas Energy Flow Summary for 2008



Notes to Figure E.1d: ¹ Includes the Goldie well.
² Includes the Kauri well.

³ All gas from Tui field was flared.
⁴ Includes Agriculture.

⁵ Includes Transport Industry.

E. Gas

Total Gas Production by Field

Table E.2a: Total Gas Production by Field¹ (Mm³)

Calendar Year	Maui	Kapuni	McKee	Mangahewa	Kaimiro/ Ngatoro ²	Turangi	Rimu/Kauri ³	Pohokura	Tui	Other ⁴	Total
1970	-	158.0	-	-	-	-	-	-	-	-	158.0
1971	-	301.0	-	-	-	-	-	-	-	-	301.0
1972	-	414.0	-	-	-	-	-	-	-	-	414.0
1973	-	488.0	-	-	-	-	-	-	-	-	488.0
1974	-	515.4	-	-	-	-	-	-	-	-	515.4
1975	-	565.9	-	-	-	-	-	-	-	-	565.9
1976	-	1,502.0	-	-	-	-	-	-	-	-	1,502.0
1977	-	2,346.8	-	-	-	-	-	-	-	-	2,346.8
1978	-	2,175.2	-	-	-	-	-	-	-	-	2,175.2
1979	468.1	1,077.2	-	-	-	-	-	-	-	-	1,545.2
1980	628.0	714.4	-	-	-	-	-	-	-	-	1,342.4
1981	879.5	889.0	-	-	-	-	-	-	-	-	1,768.5
1982	1,773.5	1,156.0	-	-	-	-	-	-	-	-	2,929.5
1983	1,876.6	1,300.1	-	-	4.7	-	-	-	-	-	3,181.4
1984	2,499.2	1,326.0	16.7	-	4.2	-	-	-	-	-	3,846.0
1985	3,224.4	1,468.5	57.6	-	24.2	-	-	-	-	-	4,774.5
1986	3,901.0	1,413.8	72.1	-	18.7	-	-	-	-	-	5,405.6
1987	3,783.1	1,334.2	83.9	-	19.5	-	-	-	-	-	5,220.8
1988	4,113.9	1,567.6	88.5	-	20.0	-	-	-	-	-	5,790.0
1989	4,247.1	1,714.1	108.8	-	15.3	-	-	-	-	-	6,085.2
1990	4,199.8	1,666.0	119.6	-	12.1	-	-	-	-	29.3	6,026.8
1991	4,307.9	1,740.6	136.6	-	11.7	-	-	-	-	112.6	6,309.4
1992	4,610.8	1,862.3	153.3	-	12.3	-	-	-	-	88.1	6,726.8
1993	4,407.4	1,826.8	154.9	-	17.2	-	-	-	-	125.5	6,531.7
1994	3,998.8	1,958.7	191.6	-	26.8	-	-	-	-	114.9	6,290.8
1995	3,719.2	1,622.5	218.7	-	26.0	-	-	-	-	43.9	5,630.4
1996	4,218.4	1,978.2	224.0	-	42.3	-	-	-	-	133.1	6,596.0
1997	4,456.6	1,703.1	236.2	15.1	62.3	-	-	-	-	211.7	6,685.0
1998	3,778.4	1,681.8	221.0	60.8	64.7	-	-	-	-	206.3	6,013.0
1999	4,517.7	1,593.3	243.0	-	57.2	-	0.3	-	-	251.9	6,663.3
2000	4,775.0	1,303.8	228.8	-	56.3	-	0.3	-	-	260.9	6,625.1
2001	4,992.9	1,204.7	228.0	83.1	56.4	-	13.7	-	-	318.2	6,897.1
2002	4,555.7	1,079.9	144.0	255.5	47.0	-	16.7	-	-	334.1	6,432.9
2003	3,082.5	1,010.5	165.8	217.4	28.8	-	44.1	-	-	378.7	4,927.8
2004	2,693.7	1,034.7	199.3	205.9	35.8	-	86.8	-	-	245.8	4,502.0
2005	2,377.6	1,075.9	239.9	158.9	42.0	0.4	166.9	-	-	177.6	4,239.3
2006	2,253.0	1,054.8	224.4	141.3	41.5	37.6	116.4	340.5	-	144.8	4,354.4
2007	1,355.1	928.2	191.3	147.0	43.5	128.5	72.5	1,686.8	62.0	98.2	4,713.1
2008	1,282.0	785.8	171.6	130.7	49.4	118.5	51.6	1,700.5	159.2	35.4	4,484.7

Notes to Table E.2a: ¹ Includes gas flared, gas reinjected, LPG extracted, own use and losses.

² Includes Goldie and Moturoa wells.

³ Includes Manutahi well.

⁴ Includes Tariki/Ahuroa, Waihapa/Ngaere, Piakau (not produced since September 1999) and Cheal fields, and Surrey and Radnor (ceased production in 2006) wells.

E. Gas

Total Gas Production by Field continued

Table E.2b: Total Gas Production by Field¹ (Bcf)

Calendar Year	Maui	Kapuni	McKee	Mangahewa	Kaimiro/ Ngatoro ²	Turangi	Rimu/Kauri ³	Pohokura	Tui	Other ⁴	Total
1970	-	5.58	-	-	-	-	-	-	-	-	5.58
1971	-	10.63	-	-	-	-	-	-	-	-	10.63
1972	-	14.62	-	-	-	-	-	-	-	-	14.62
1973	-	17.23	-	-	-	-	-	-	-	-	17.23
1974	-	18.20	-	-	-	-	-	-	-	-	18.20
1975	-	19.99	-	-	-	-	-	-	-	-	19.99
1976	-	53.04	-	-	-	-	-	-	-	-	53.04
1977	-	82.88	-	-	-	-	-	-	-	-	82.88
1978	-	76.82	-	-	-	-	-	-	-	-	76.82
1979	16.53	38.04	-	-	-	-	-	-	-	-	54.57
1980	22.18	25.23	-	-	-	-	-	-	-	-	47.41
1981	31.06	31.39	-	-	-	-	-	-	-	-	62.46
1982	62.63	40.82	-	-	-	-	-	-	-	-	103.46
1983	66.27	45.91	-	-	0.17	-	-	-	-	-	112.35
1984	88.26	46.83	0.59	-	0.15	-	-	-	-	-	135.82
1985	113.87	51.86	2.03	-	0.85	-	-	-	-	-	168.61
1986	137.76	49.93	2.55	-	0.66	-	-	-	-	-	190.90
1987	133.60	47.12	2.96	-	0.69	-	-	-	-	-	184.37
1988	145.28	55.36	3.13	-	0.70	-	-	-	-	-	204.47
1989	149.98	60.53	3.84	-	0.54	-	-	-	-	-	214.90
1990	148.32	58.83	4.22	-	0.43	-	-	-	-	1.03	212.84
1991	152.13	61.47	4.82	-	0.41	-	-	-	-	3.97	222.81
1992	162.83	65.77	5.41	-	0.43	-	-	-	-	3.11	237.55
1993	155.65	64.51	5.47	-	0.61	-	-	-	-	4.43	230.66
1994	141.22	69.17	6.77	-	0.95	-	-	-	-	4.06	222.16
1995	131.34	57.30	7.72	-	0.92	-	-	-	-	1.55	198.84
1996	148.97	69.86	7.91	-	1.49	-	-	-	-	4.70	232.94
1997	157.38	60.14	8.34	0.53	2.20	-	-	-	-	7.48	236.08
1998	133.43	59.39	7.81	2.15	2.28	-	-	-	-	7.29	212.35
1999	159.54	56.27	8.58	-	2.02	-	0.01	-	-	8.89	235.31
2000	168.63	46.04	8.08	-	1.99	-	0.01	-	-	9.21	233.96
2001	176.32	42.55	8.05	2.93	1.99	-	0.48	-	-	11.24	243.57
2002	160.88	38.14	5.09	9.02	1.66	-	0.59	-	-	11.80	227.18
2003	108.86	35.69	5.86	7.68	1.02	-	1.56	-	-	13.37	174.02
2004	95.13	36.54	7.04	7.27	1.26	-	3.06	-	-	8.68	158.99
2005	83.96	37.99	8.47	5.61	1.48	0.02	5.89	-	-	6.27	149.71
2006	79.57	37.25	7.93	4.99	1.47	1.33	4.11	12.02	-	5.11	153.77
2007	47.86	32.78	6.76	5.19	1.54	4.54	2.56	59.57	2.19	3.47	166.44
2008	45.27	27.75	6.06	4.62	1.75	4.18	1.82	60.05	5.62	1.25	158.38

Notes to Table E.2b: ¹ Includes gas flared, gas reinjected, LPG extracted, own use and losses.

² Includes Goldie and Moturoa well.

³ Includes Manutahi well.

⁴ Includes Tariki/Ahuroa, Waihapa/Ngaere, Piakau (not produced since September 1999) and Cheal fields, and Surrey and Radnor (ceased production in 2006) wells.

E. Gas

Total Gas Production by Field continued

Table E.2c: Total Gas Production by Field¹ (Gross PJ)²

Calendar Year	Maui	Kapuni	McKee	Mangahewa	Kaimiro/ Ngatoro ³	Turangi	Rimu/Kauri ⁴	Pohokura	Tui	Other ⁵	Total
1970	-	4.31	-	-	-	-	-	-	-	-	4.31
1971	-	8.21	-	-	-	-	-	-	-	-	8.21
1972	-	11.29	-	-	-	-	-	-	-	-	11.29
1973	-	13.31	-	-	-	-	-	-	-	-	13.31
1974	-	14.06	-	-	-	-	-	-	-	-	14.06
1975	-	15.36	-	-	-	-	-	-	-	-	15.36
1976	-	40.22	-	-	-	-	-	-	-	-	40.22
1977	-	64.35	-	-	-	-	-	-	-	-	64.35
1978	-	59.49	-	-	-	-	-	-	-	-	59.49
1979	17.87	29.27	-	-	-	-	-	-	-	-	47.14
1980	23.40	19.12	-	-	-	-	-	-	-	-	42.52
1981	32.83	23.75	-	-	-	-	-	-	-	-	56.58
1982	66.49	30.28	-	-	-	-	-	-	-	-	96.76
1983	71.40	34.74	-	-	0.18	-	-	-	-	-	106.32
1984	96.48	35.89	0.70	-	0.16	-	-	-	-	-	133.23
1985	125.79	40.08	2.43	-	0.93	-	-	-	-	-	169.24
1986	153.26	38.60	2.98	-	0.72	-	-	-	-	-	195.57
1987	148.91	36.05	3.49	-	0.75	-	-	-	-	-	189.20
1988	162.41	42.55	3.73	-	0.77	-	-	-	-	-	209.45
1989	167.88	45.98	4.56	-	0.59	-	-	-	-	-	219.01
1990	165.98	44.59	4.97	-	0.47	-	-	-	-	1.31	217.31
1991	170.98	46.25	5.58	-	0.45	-	-	-	-	5.05	228.31
1992	183.55	49.04	6.19	-	0.51	-	-	-	-	3.95	243.23
1993	176.64	48.43	6.25	-	0.74	-	-	-	-	5.63	237.70
1994	162.31	51.50	7.74	-	1.14	-	-	-	-	5.15	227.84
1995	152.92	42.84	8.83	-	1.10	-	-	-	-	1.97	207.67
1996	173.53	52.72	9.04	-	1.78	-	-	-	-	6.55	243.62
1997	183.76	46.12	9.53	0.60	2.73	-	-	-	-	10.68	253.43
1998	156.71	45.43	8.92	2.44	2.98	-	-	-	-	10.36	226.85
1999	186.76	42.94	10.02	-	2.56	-	0.01	-	-	11.17	253.47
2000	195.67	34.88	9.36	-	2.63	-	0.01	-	-	11.63	254.17
2001	203.56	31.99	9.38	3.22	2.58	-	0.60	-	-	13.92	265.25
2002	186.63	28.81	5.95	9.89	2.16	-	0.82	-	-	14.54	248.80
2003	127.35	27.21	6.83	8.41	1.29	-	2.04	-	-	16.62	189.74
2004	111.29	27.79	8.18	7.98	1.13	-	3.88	-	-	11.05	171.30
2005	98.47	28.60	9.79	6.18	1.62	-	7.35	-	-	7.91	159.92
2006	92.87	28.13	9.14	5.49	1.63	1.45	5.17	14.04	-	6.37	164.31
2007	55.41	24.84	7.69	5.72	1.70	5.10	3.20	69.84	2.96	4.42	180.88
2008	51.87	21.13	6.92	5.13	1.92	4.78	2.25	70.59	7.59	1.57	173.75
Δ2006/2007	-40.3%	-11.7%	-15.8%	4.1%	3.9%	250.6%	-38.2%	397.4%	n.a.	-30.6%	10.1%
Δ2007/2008	-6.4%	-14.9%	-10.1%	-10.3%	13.1%	-6.3%	-29.6%	1.1%	156.6%	-64.5%	-3.9%

Notes to Table E.2c: ¹ Includes gas flared, gas reinjected, LPG extracted, own use and losses.

² In gross calorific value terms.

³ Includes Goldie and Moturoa well.

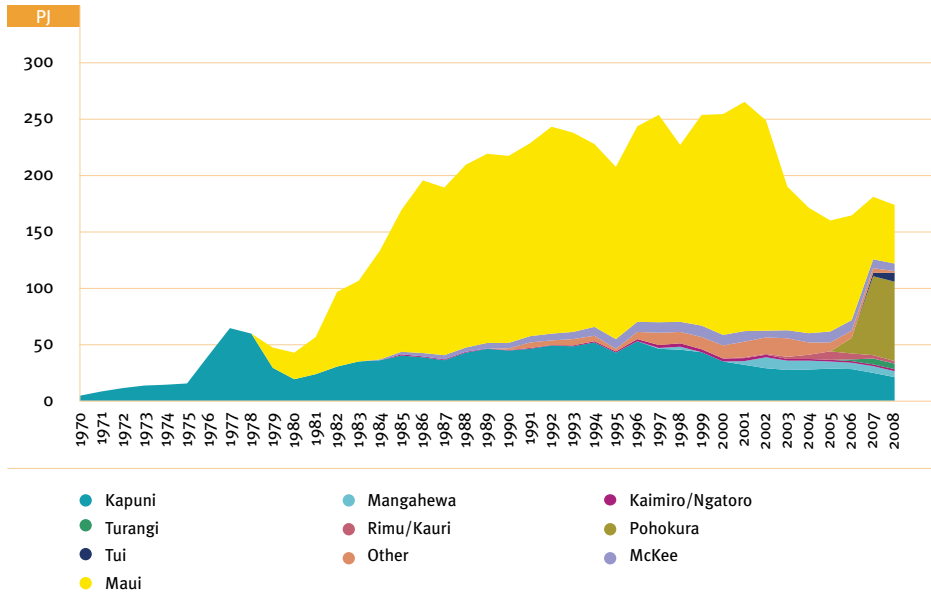
⁴ Includes Manutahi well.

⁵ Includes Tariki/Ahuroa, Waihapa/Ngaere, Piakau (not produced since September 1999) and Cheal fields, and Surrey and Radnor (ceased production in 2006) wells.

E. Gas

Total Gas Production by Field continued

Figure E.2: Annual Total Gas Production by Field



E. Gas

Net Gas Production by Field

Table E.3a: Net Gas Production by Field¹ (Mm³)

Calendar Year	Maui	Kapuni	McKee	Mangahewa	Kaimiro/ Ngatoro ^{2,3}	Turangi	Rimu/Kauri ⁴	Pohokura	Tui ⁵	Other ⁶	Total
1970	-	150.1	-	-	-	-	-	-	-	-	150.1
1971	-	286.0	-	-	-	-	-	-	-	-	286.0
1972	-	393.3	-	-	-	-	-	-	-	-	393.3
1973	-	463.6	-	-	-	-	-	-	-	-	463.6
1974	-	384.9	-	-	-	-	-	-	-	-	384.9
1975	-	446.8	-	-	-	-	-	-	-	-	446.8
1976	-	1,299.6	-	-	-	-	-	-	-	-	1,299.6
1977	-	2,081.3	-	-	-	-	-	-	-	-	2,081.3
1978	-	1,971.9	-	-	-	-	-	-	-	-	1,971.9
1979	264.0	861.6	-	-	-	-	-	-	-	-	1,125.6
1980	601.7	338.5	-	-	-	-	-	-	-	-	940.3
1981	854.0	298.5	-	-	-	-	-	-	-	-	1,152.5
1982	1,732.4	342.2	-	-	-	-	-	-	-	-	2,074.6
1983	1,838.0	390.2	-	-	4.7	-	-	-	-	-	2,233.0
1984	2,414.7	371.4	16.5	-	4.2	-	-	-	-	-	2,806.7
1985	3,119.0	386.5	56.6	-	24.1	-	-	-	-	-	3,586.2
1986	3,768.9	480.8	71.1	-	18.7	-	-	-	-	-	4,339.4
1987	3,649.7	415.6	82.4	-	19.5	-	-	-	-	-	4,167.2
1988	3,965.9	424.9	86.5	-	19.9	-	-	-	-	-	4,497.1
1989	4,083.6	425.7	106.5	-	15.0	-	-	-	-	-	4,630.9
1990	4,024.4	456.1	117.5	-	12.0	-	-	-	-	22.6	4,632.8
1991	4,123.8	718.1	133.3	-	11.6	-	-	-	-	97.5	5,084.3
1992	4,413.1	706.5	149.4	-	10.1	-	-	-	-	78.1	5,357.2
1993	4,213.8	701.4	150.7	-	10.7	-	-	-	-	110.7	5,187.2
1994	3,810.4	660.3	181.4	-	18.7	-	-	-	-	97.1	4,767.8
1995	3,541.6	692.1	205.0	-	18.6	-	-	-	-	39.8	4,497.0
1996	3,987.6	734.1	213.1	-	28.2	-	-	-	-	126.4	5,089.4
1997	4,179.4	770.0	226.1	8.0	35.1	-	-	-	-	205.0	5,423.6
1998	3,517.1	752.0	197.9	59.6	43.5	-	-	-	-	197.1	4,767.2
1999	4,242.5	808.6	224.3	-	46.0	-	-	-	-	237.9	5,559.3
2000	4,505.8	916.4	207.9	-	42.5	-	-	-	-	245.1	5,917.7
2001	4,696.9	936.8	208.8	80.7	35.9	-	-	-	-	293.5	6,252.6
2002	4,271.3	931.0	131.4	252.4	34.6	-	12.6	-	-	308.4	5,941.8
2003	2,875.3	874.8	152.9	214.9	23.4	-	40.9	-	-	346.4	4,528.7
2004	2,501.4	901.4	186.9	203.4	14.6	-	82.0	-	-	225.5	4,115.2
2005	2,204.7	946.3	226.8	156.5	6.5	0.0	157.2	-	-	164.0	3,862.0
2006	2,113.7	913.2	209.6	138.7	0.2	26.0	107.7	339.5	-	134.0	3,982.5
2007	1,269.2	778.7	177.8	129.1	1.0	123.0	64.6	1,680.6	-	86.1	4,310.2
2008	1,209.0	612.6	157.3	127.6	5.2	116.8	43.9	1,694.9	-	27.9	3,995.1

Notes to Table E.3a: ¹ Excludes gas flared, gas reinjected, LPG extracted, own use and losses.

² Includes Moturoa field. All gas from the Moturoa field was used for own purposes.

³ All gas from the Ngatoro field was flared from March 1992 to May 1998. The Ngatoro field includes the Goldie well.

⁴ All gas from the Rimu field was flared from 1999 to 2001.

⁵ All gas from the Tui field was flared.

⁶ Includes Tariki/Ahuroa, Waihapa/Ngaere, Piakau (not produced since September 1999) and Cheal fields, and Surrey and Radnor (ceased production in 2006) wells.

E. Gas

Net Gas Production by Field continued

Table E.3b: Net Gas Production by Field¹ (Bcf)

Calendar Year	Maui	Kapuni	McKee	Mangahewa	Kaimiro/ Ngatoro ^{2,3}	Turangi	Rimu/Kauri ⁴	Pohokura	Tui ⁵	Other ⁶	Total
1970	-	5.30	-	-	-	-	-	-	-	-	5.30
1971	-	10.10	-	-	-	-	-	-	-	-	10.10
1972	-	13.89	-	-	-	-	-	-	-	-	13.89
1973	-	16.37	-	-	-	-	-	-	-	-	16.37
1974	-	13.59	-	-	-	-	-	-	-	-	13.59
1975	-	15.78	-	-	-	-	-	-	-	-	15.78
1976	-	45.90	-	-	-	-	-	-	-	-	45.90
1977	-	73.50	-	-	-	-	-	-	-	-	73.50
1978	-	69.64	-	-	-	-	-	-	-	-	69.64
1979	9.32	30.43	-	-	-	-	-	-	-	-	39.75
1980	21.25	11.95	-	-	-	-	-	-	-	-	33.21
1981	30.16	10.54	-	-	-	-	-	-	-	-	40.70
1982	61.18	12.08	-	-	-	-	-	-	-	-	73.26
1983	64.91	13.78	-	-	0.17	-	-	-	-	-	78.86
1984	85.27	13.12	0.58	-	0.15	-	-	-	-	-	99.12
1985	110.15	13.65	2.00	-	0.85	-	-	-	-	-	126.65
1986	133.10	16.98	2.51	-	0.66	-	-	-	-	-	153.24
1987	128.89	14.68	2.91	-	0.69	-	-	-	-	-	147.16
1988	140.05	15.01	3.05	-	0.70	-	-	-	-	-	158.82
1989	144.21	15.03	3.76	-	0.53	-	-	-	-	-	163.54
1990	142.12	16.11	4.15	-	0.43	-	-	-	-	0.80	163.61
1991	145.63	25.36	4.71	-	0.41	-	-	-	-	3.44	179.55
1992	155.85	24.95	5.27	-	0.36	-	-	-	-	2.76	189.19
1993	148.81	24.77	5.32	-	0.38	-	-	-	-	3.91	183.19
1994	134.56	23.32	6.40	-	0.66	-	-	-	-	3.43	168.37
1995	125.07	24.44	7.24	-	0.66	-	-	-	-	1.40	158.81
1996	140.82	25.92	7.53	-	1.00	-	-	-	-	4.46	179.73
1997	147.60	27.19	7.98	0.28	1.24	-	-	-	-	7.24	191.53
1998	124.21	26.56	6.99	2.11	1.54	-	-	-	-	6.96	168.35
1999	149.82	28.56	7.92	-	1.63	-	-	-	-	8.40	196.33
2000	159.12	32.36	7.34	-	1.50	-	-	-	-	8.66	208.98
2001	165.87	33.08	7.37	2.85	1.27	-	-	-	-	10.36	220.81
2002	150.84	32.88	4.64	8.91	1.22	-	0.45	-	-	10.89	209.83
2003	101.54	30.89	5.40	7.59	0.83	-	1.44	-	-	12.23	159.93
2004	88.34	31.83	6.60	7.18	0.52	-	2.90	-	-	7.96	145.33
2005	77.86	33.42	8.01	5.53	0.23	0.00	5.55	-	-	5.79	136.39
2006	74.64	32.25	7.40	4.90	0.01	0.92	3.80	11.99	-	4.73	140.64
2007	44.82	27.50	6.28	4.56	0.04	4.34	2.28	59.35	-	3.04	152.21
2008	42.69	21.63	5.55	4.51	0.18	4.13	1.55	59.85	-	0.98	141.09

Notes to Table E.3b: ¹ Excludes gas flared, gas reinjected, LPG extracted, own use and losses.

² Includes Moturoa field. All gas from the Moturoa field was used for own purposes.

³ All gas from the Ngatoro field was flared from March 1992 to May 1998. The Ngatoro field includes the Goldie well.

⁴ All gas from the Rimu field was flared from 1999 to 2001.

⁵ All gas from the Tui field was flared.

⁶ Includes Tariki/Ahuroa, Waihapa/Ngaere, Piakau (not produced since September 1999) and Cheal fields, and Surrey and Radnor (ceased production in 2006) wells.

E. Gas

Net Gas Production by Field continued

Table E.3c: Net Gas Production by Field¹ (Gross PJ)²

Calendar Year	Maui	Kapuni	McKee	Mangahewa	Kaimiro/ Ngatoro ^{3,4}	Turangi	Rimu/Kauri ⁵	Pohokura	Tui ⁶	Other ⁷	Total
1970	-	4.09	-	-	-	-	-	-	-	-	4.09
1971	-	7.80	-	-	-	-	-	-	-	-	7.80
1972	-	10.73	-	-	-	-	-	-	-	-	10.73
1973	-	12.65	-	-	-	-	-	-	-	-	12.65
1974	-	10.50	-	-	-	-	-	-	-	-	10.50
1975	-	12.13	-	-	-	-	-	-	-	-	12.13
1976	-	34.80	-	-	-	-	-	-	-	-	34.80
1977	-	57.08	-	-	-	-	-	-	-	-	57.08
1978	-	53.93	-	-	-	-	-	-	-	-	53.93
1979	10.03	23.42	-	-	-	-	-	-	-	-	33.45
1980	22.42	9.03	-	-	-	-	-	-	-	-	31.45
1981	31.88	7.97	-	-	-	-	-	-	-	-	39.85
1982	64.94	9.01	-	-	-	-	-	-	-	-	73.95
1983	69.93	10.42	-	-	0.18	-	-	-	-	-	80.54
1984	93.22	10.04	0.69	-	0.16	-	-	-	-	-	104.11
1985	121.68	10.55	2.39	-	0.93	-	-	-	-	-	135.56
1986	148.07	13.13	2.93	-	0.72	-	-	-	-	-	164.85
1987	143.66	11.23	3.42	-	0.75	-	-	-	-	-	159.06
1988	156.56	11.53	3.64	-	0.77	-	-	-	-	-	172.50
1989	161.42	11.42	4.46	-	0.58	-	-	-	-	-	177.88
1990	159.05	12.21	4.88	-	0.47	-	-	-	-	1.02	177.61
1991	163.68	19.08	5.44	-	0.45	-	-	-	-	4.37	193.02
1992	175.68	18.62	6.03	-	0.39	-	-	-	-	3.50	204.22
1993	168.88	18.60	6.08	-	0.41	-	-	-	-	4.96	198.95
1994	154.66	17.36	7.32	-	0.72	-	-	-	-	4.35	184.41
1995	145.62	18.29	8.27	-	0.72	-	-	-	-	1.78	174.69
1996	164.02	19.56	8.60	-	1.09	-	-	-	-	5.83	199.10
1997	172.32	20.85	9.13	0.32	1.36	-	-	-	-	9.46	213.43
1998	145.87	20.31	7.99	2.39	1.91	-	-	-	-	9.06	187.53
1999	175.39	21.79	9.25	-	2.03	-	-	-	-	9.74	218.21
2000	184.64	24.51	8.51	-	1.96	-	-	-	-	10.09	229.70
2001	191.49	24.87	8.59	3.13	1.64	-	-	-	-	11.98	241.70
2002	174.98	24.84	5.43	9.77	1.61	-	0.41	-	-	12.59	229.62
2003	118.79	23.56	6.30	8.31	1.06	-	1.48	-	-	14.28	173.77
2004 R	103.34	24.21	7.67	7.88	0.31	-	3.42	-	-	9.03	155.86
2005	91.31	25.16	9.25	6.09	0.17	-	6.51	-	-	6.43	144.92
2006	87.14	24.35	8.54	5.39	0.01	0.98	4.46	14.00	-	5.23	150.10
2007 R	51.93	20.85	7.15	5.02	0.03	4.88	2.67	69.58	-	3.36	165.47
2008	48.85	16.48	6.34	5.01	0.20	4.72	1.81	70.36	-	1.07	154.82
Δ2006/2007	-40.4%	-14.4%	-16.2%	-6.9%	257.9%	400.3%	-40.2%	397.0%	n.a.	-35.8%	10.2%
Δ2007/2008	-5.9%	-21.0%	-11.4%	-0.3%	627.1%	-3.4%	-32.1%	1.1%	n.a.	-68.3%	-6.4%

Notes to Table E.3c: ¹ Excludes gas flared, gas reinjected, LPG extracted, own use and losses.

² In gross calorific value terms.

³ Includes Moturoa field. All gas from the Moturoa field was used for own purposes.

⁴ All gas from the Ngatoro field was flared from March 1992 to May 1998. The Ngatoro field includes the Goldie well.

⁵ All gas from the Rimu field was flared from 1999 to 2001.

⁶ All gas from the Tui field was flared.

⁷ Includes Tariki/Ahuroa, Waihapa/Ngaere, Piakau (not produced since September 1999) and Cheal fields, and Surrey and Radnor (ceased production in 2006) wells.

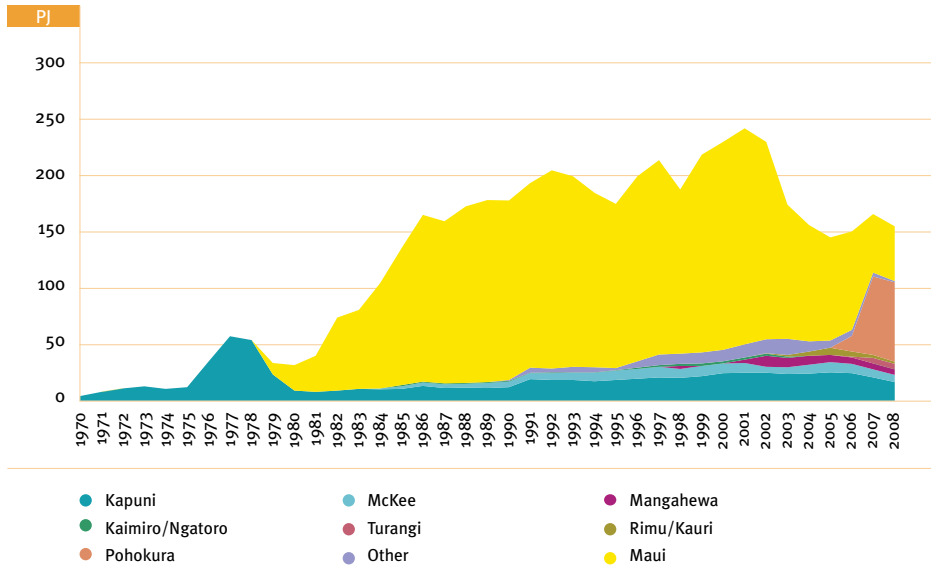
R = Revised figures.

n.a. = Not applicable.

E. Gas

Net Gas Production by Field continued

Figure E.3: Annual Net Gas Production by Field



E. Gas

Gas Production

Table E.4: Gas Production (Gross PJ)

Calendar Year or Quarter	Total Gross Natural Gas Production	Gas Reinjecte	LPG Gas Equivalent Extracted	Flared	Production Losses and Own Use	Net Natural Gas Production	Manufactured Gas Production	Gas Supply
1974	14.06	-	0.11	1.03	2.42	10.50	1.62	12.12
1975	15.36	-	0.15	1.19	1.90	12.13	1.97	14.10
1976	40.22	-	0.39	2.29	2.74	34.80	-	34.80
1977	64.35	-	0.55	2.13	4.60	57.08	1.97	59.05
1978	59.49	-	0.68	0.89	3.99	53.93	1.77	55.69
1979	47.14	-	1.17	7.76	4.75	33.45	1.70	35.16
1980	42.52	5.41	0.85	0.78	4.02	31.45	1.46	32.91
1981	56.58	11.08	1.30	0.60	3.75	39.85	1.46	41.31
1982	96.76	16.14	1.54	0.47	4.65	73.95	1.31	75.26
1983	106.32	18.85	1.74	0.30	4.89	80.54	1.11	81.65
1984	133.23	20.01	2.59	1.27	5.25	104.11	0.95	105.05
1985	169.24	23.27	4.66	0.76	5.00	135.56	0.70	136.26
1986	195.57	19.70	5.44	1.26	4.32	164.85	0.39	165.24
1987	189.20	19.63	5.44	1.00	4.07	159.06	0.15	159.21
1988	209.45	25.53	5.78	1.50	4.14	172.50	0.11	172.61
1989	219.01	29.69	5.74	1.88	3.83	177.88	0.10	177.98
1990	217.31	27.90	6.01	2.21	3.59	177.61	0.07	177.68
1991	228.31	22.11	7.08	2.45	3.65	193.02	-	193.02
1992	243.23	25.15	7.69	1.88	4.29	204.22	-	204.22
1993	237.70	24.79	7.98	1.57	4.41	198.95	-	198.95
1994	227.84	28.66	8.14	1.85	4.77	184.41	-	184.41
1995	207.67	19.41	7.61	1.24	4.72	174.68	-	174.68
1996	243.62	27.67	8.94	2.48	5.43	199.10	-	199.10
1997	253.43	20.48	9.78	3.97	5.76	213.43	-	213.43
1998	226.85	21.12	9.54	3.09	5.57	187.53	-	187.53
1999	253.47	17.74	10.02	1.94	5.56	218.21	-	218.21
2000	254.17	6.85	10.47	1.64	5.51	229.70	-	229.70
2001	265.25	3.59	11.54	2.59	5.83	241.70	-	241.70
2002	248.80	0.50	11.40	1.61	5.67	229.62	-	229.62
2003	189.74	0.01	9.10	1.16	5.70	173.77	-	173.77
2004	171.30	0.62	9.13	0.90	4.77	155.87	-	155.87
2005	159.92	1.22	8.76	0.93	4.08	144.92	-	144.92
2006	164.31	1.45	7.83	0.90	4.02	150.10	-	150.10
2007	180.88	1.58	5.51	3.97	4.35	165.46	-	165.46
2008	173.75	2.65	4.24	6.93	5.11	154.82	-	154.82
2007 Mar	37.43	0.40	1.26	0.21	0.88	34.68	-	34.68
Jun	49.00	0.41	1.51	0.36	0.92	45.81	-	45.81
Sep	51.30	0.45	1.56	1.52	1.27	46.49	-	46.49
Dec	43.15	0.32	1.19	1.88	1.28	38.48	-	38.48
2008 Mar	40.43	0.53	1.13	2.17	1.23	35.36	-	35.36
Jun	47.88	0.62	1.22	2.16	1.28	42.60	-	42.60
Sep	45.69	0.74	1.03	1.49	1.34	41.08	-	41.08
Dec	39.75	0.76	0.85	1.12	1.25	35.78	-	35.78
Δ2006/2007	10.1%	8.7%	-29.6%	339.3%	8.1%	10.2%	n.a.	10.2%
Δ2007/2008	-3.9%	67.4%	-23.1%	74.7%	17.4%	-6.4%	n.a.	-6.4%

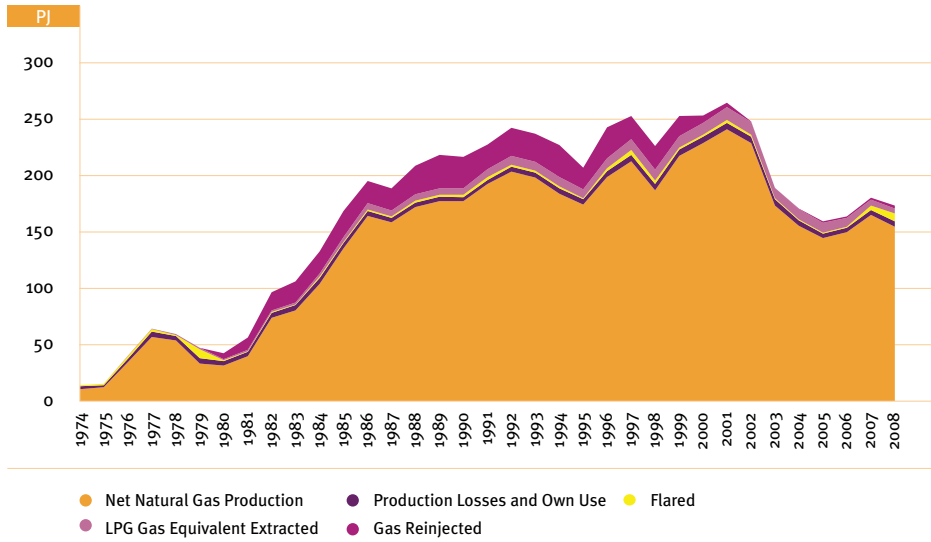
Notes to Table E.4: n.a. = Not applicable.

1 PJ Gross C.V. ~ 0.904 PJ Net C.V. (See Fuel Properties for details).

E. Gas

Gas Production continued

Figure E.4: Annual Gas Production



E. Gas

Gas Use

Table E.5a: Gas Supply and Consumption (Gross PJ)

Calendar Year or Quarter	Gas Supply	Stock Change	Transmission Losses ¹	Energy Transformation	Non-energy Use	Consumer Energy		
						Calculated	Observed	Statistical Difference
1974	12.12	-	0.53	n.a.	-	n.a.	n.a.	-
1975	14.10	-	0.99	n.a.	-	n.a.	n.a.	-
1976	34.80	-	0.93	n.a.	-	n.a.	n.a.	-
1977	59.05	-	-0.31	n.a.	-	n.a.	n.a.	-
1978	55.69	-	-1.06	n.a.	-	n.a.	n.a.	-
1979	35.16	0.14	-0.46	n.a.	-	n.a.	n.a.	-
1980	32.91	0.16	0.53	n.a.	-	n.a.	n.a.	-
1981	41.31	-0.03	0.49	n.a.	-	n.a.	n.a.	-
1982	75.26	0.05	0.44	n.a.	n.a.	n.a.	n.a.	-
1983	81.65	-0.01	0.50	n.a.	n.a.	n.a.	n.a.	-
1984	105.05	0.13	0.04	n.a.	n.a.	n.a.	n.a.	-
1985	136.26	-0.00	2.05	n.a.	n.a.	n.a.	n.a.	-
1986	165.24	0.27	-1.29	n.a.	n.a.	n.a.	n.a.	-
1987	159.21	0.33	-1.63	n.a.	n.a.	n.a.	n.a.	-
1988	172.61	0.32	-0.75	n.a.	n.a.	n.a.	n.a.	-
1989	177.98	0.25	-1.74	n.a.	n.a.	n.a.	n.a.	-
1990	177.68	0.27	-1.38	n.a.	n.a.	n.a.	n.a.	-
1991	193.02	0.42	-1.36	n.a.	n.a.	n.a.	n.a.	-
1992	204.22	0.31	-1.23	n.a.	n.a.	n.a.	n.a.	-
1993	198.95	0.31	0.12	n.a.	n.a.	n.a.	n.a.	-
1994	184.41	0.29	0.17	n.a.	n.a.	n.a.	n.a.	-
1995	174.68	0.25	0.25	n.a.	57.91	n.a.	n.a.	-
1996	199.10	0.36	0.25	n.a.	75.73	n.a.	n.a.	-
1997	213.43	0.28	0.28	n.a.	80.33	n.a.	n.a.	-
1998	187.53	0.04	0.41	n.a.	76.03	n.a.	n.a.	-
1999	218.21	0.24	0.39	n.a.	86.61	n.a.	n.a.	-
2000	229.70	0.04	0.54	89.23	98.62	41.28	41.15	0.13
2001	241.70	0.45	0.60	112.73	89.26	38.65	40.25	-1.60
2002	229.62	0.35	0.61	93.50	95.59	39.57	40.93	-1.36
2003	173.77	0.20	0.80	87.07	45.52	40.19	42.04	-1.85
2004	155.87	0.10	0.73	62.84	50.59	41.61	40.14	1.46
2005	144.92	0.06	0.76	82.18	19.97	41.95	44.14	-2.19
2006	150.10	-0.00	0.76	83.56	23.21	42.57	40.72	1.85
2007	165.46	0.03	0.76	99.96	23.70	41.02	43.16	-2.14
2008	154.82	-0.01	0.76	86.39	28.74	38.93	38.79	0.14
2007 Mar	34.68	0.00	0.19	19.68	6.36	8.45	11.52	-3.08
2007 Jun	45.81	0.01	0.19	28.91	6.21	10.49	9.83	0.66
2007 Sep	46.49	0.00	0.19	27.82	6.59	11.90	10.98	0.92
2007 Dec	38.48	0.02	0.19	23.56	4.53	10.18	10.83	-0.65
2008 Mar	35.36	0.01	0.19	20.89	6.33	7.95	9.16	-1.21
2008 Jun	42.60	0.06	0.19	25.91	6.56	9.89	12.24	-2.35
2008 Sep	41.08	0.18	0.19	22.64	6.67	11.40	7.80	3.60
2008 Dec	35.78	-0.25	0.19	16.95	9.19	9.70	9.60	0.10
Δ2006/2007	10.2%		0.0%	19.6%	2.1%	-3.6%	6.0%	n.a.
Δ2007/2008	-6.4%		0.0%	-13.6%	21.3%	-5.1%	-10.1%	n.a.

Notes to Table E.5a: ¹ Estimated by transmission companies.

¹ PJ Gross C.V. - 0.904 PJ Net C.V. (See Fuel Properties for details).

n.a. = Not available.

E. Gas

Gas Use continued

Table E.5b: Gas Consumption (PJ)

Calendar Year or Quarter	Energy Transformation				Non-energy Use	Consumer Energy Observed					Total
	Electricity Generation	Cogeneration	Other Transformation	Total		Commercial ¹	Residential	Industrial ¹	Transport	Total	
1990	57.08	0.60	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	2.65	n.a.	n.a.
1991	69.60	0.68	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	2.66	n.a.	n.a.
1992	74.96	0.73	n.a.	n.a.	n.a.	n.a.	3.49	n.a.	2.46	n.a.	n.a.
1993	69.24	0.74	n.a.	n.a.	n.a.	n.a.	3.77	n.a.	2.27	n.a.	n.a.
1994	55.03	2.19	n.a.	n.a.	n.a.	n.a.	4.28	n.a.	1.83	n.a.	n.a.
1995	44.49	3.43	n.a.	n.a.	57.91	n.a.	4.33	n.a.	1.42	n.a.	n.a.
1996	58.94	5.78	n.a.	n.a.	75.73	n.a.	4.53	n.a.	1.06	n.a.	n.a.
1997	76.58	17.95	n.a.	n.a.	80.33	n.a.	4.45	n.a.	0.76	n.a.	n.a.
1998	54.15	16.45	n.a.	n.a.	76.03	n.a.	4.67	n.a.	0.51	n.a.	n.a.
1999	71.38	17.81	n.a.	n.a.	86.61	n.a.	4.96	n.a.	0.04	n.a.	n.a.
2000	73.33	14.94	0.96	89.23	98.62	14.20	5.13	21.75	0.07	41.15	229.00
2001	92.94	17.25	2.53	112.73	89.26	13.40	7.21	19.49	0.14	40.25	242.24
2002	70.78	20.87	1.85	93.50	95.59	13.15	6.79	20.81	0.19	40.93	230.02
2003	61.06	23.50	2.50	87.07	45.52	9.52	6.87	25.41	0.24	42.04	174.63
2004	39.77	21.11	1.96	62.84	50.59	8.86	6.71	24.36	0.22	40.14	153.57
2005	56.62	23.58	1.98	82.18	19.97	7.18	6.48	30.29	0.19	44.14	146.29
2006	60.10	21.27	2.19	83.56	23.21	4.77	6.56	29.21	0.19	40.72	147.49
2007	75.35	22.58	2.04	99.96	23.70	4.51	5.61	32.79	0.25	43.16	166.81
2008	60.76	23.13	2.50	86.39	28.74	3.32	4.27	31.00	0.19	38.79	153.93
2007 Mar	13.93	5.25	0.49	19.68	6.36	0.76	0.72	9.99	0.04	11.52	37.56
2007 Jun	21.94	6.46	0.51	28.91	6.21	1.48	1.60	6.66	0.09	9.83	44.95
2007 Sep	21.34	5.96	0.52	27.82	6.59	1.40	2.33	7.18	0.07	10.98	45.38
2007 Dec	18.14	4.90	0.51	23.56	4.53	0.87	0.96	8.95	0.05	10.83	38.92
2008 Mar	13.78	6.52	0.59	20.89	6.33	0.70	0.64	7.78	0.04	9.16	36.38
2008 Jun	18.25	6.81	0.85	25.91	6.56	1.22	1.52	9.41	0.09	12.24	44.71
2008 Sep	16.61	5.42	0.60	22.64	6.67	0.70	1.13	5.94	0.03	7.80	37.11
2008 Dec	12.11	4.37	0.46	16.95	9.19	0.69	0.99	7.87	0.04	9.60	35.74
Δ2006/2007	25.4%	6.1%	-7.1%	19.6%	2.1%	-5.4%	-14.4%	12.3%	31.5%	6.0%	13.1%
Δ2007/2008	-19.4%	2.5%	22.8%	-13.6%	21.3%	-26.3%	-23.8%	-5.5%	-22.3%	-10.1%	-7.7%

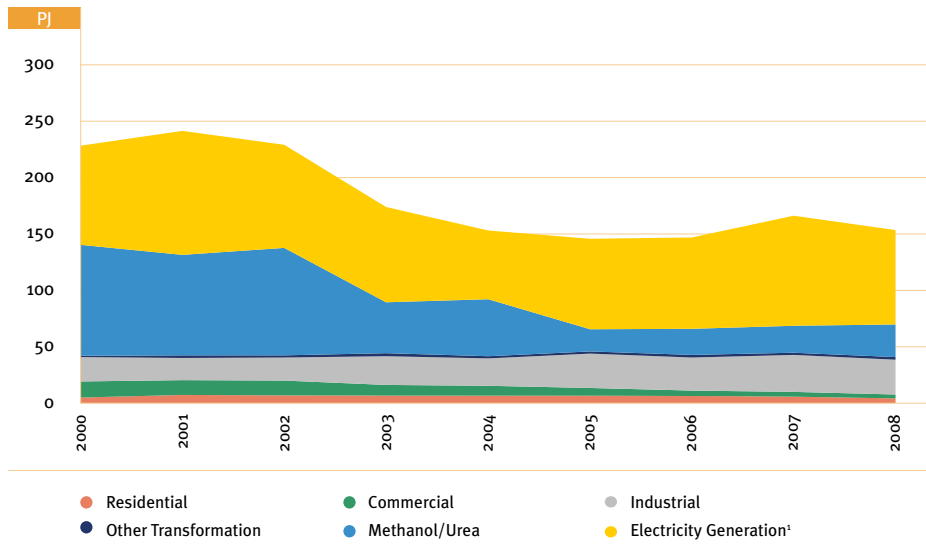
Notes to Table E.5b: ¹ Excludes cogeneration.

n.a. = Not available.

E. Gas

Gas Use continued

Figure E.5: Gas Consumption by Sector



Note to Figure E.5: ¹ Includes cogeneration.

E. Gas

Gas Use continued

Table E.5c: Gas Consumption Sectorial Breakdown for 2000 to 2008 (Gross TJ)

	ANZSIC 2006	ANZSIC 1996	2000	2001	2002	2003	2004	2005	2006 R	2007 R	2008
Energy Transformation, of which:			89,226	112,726	93,501	87,066	62,843	82,183	83,564	99,959	86,391
Electricity Generation	D	D	73,326	92,944	70,785	61,065	39,771	56,622	60,104	75,348	60,761
Cogeneration	A - D	A - D	14,942	17,253	20,867	23,502	21,113	23,584	21,268	22,575	23,129
Other Transformation	C	C	958	2,528	1,849	2,499	1,958	1,977	2,191	2,036	2,501
Non-energy Use	C1811 & C1831	C2532 & C2531	98,616	89,264	95,587	45,520	50,586	19,968	23,207	23,698	28,745
INDUSTRIAL, of which¹:			21,752	19,494	20,805	25,405	24,362	30,285	29,208	32,790	31,001
Agriculture, forestry and fishing	A	A	411	675	799	1,341	1,628	1,778	1,867	1,805	1,591
Mining	B	B	4	467	134	168	191	180	196	221	104
Food, textile, footwear and leather	C11 - C13	C21 - C22	7,928	8,171	8,990	12,568	9,451	10,139	9,364	11,595	9,492
Wood and paper products, printing and publishing	C14 - C16	C23 - C24	8,202	8,028	8,521	8,122	8,870	8,179	7,040	6,232	5,394
Petroleum, coal and chemical products ²	C17 - C19	C25	3,929	1,014	1,055	1,004	808	6,245	5,013	7,392	9,154
Metal, non-metallic, machinery products and other manufacturing	C20 - C25	C26 - C29	1,243	1,114	1,272	2,106	3,272	3,693	5,661	5,420	5,228
Construction	E	E	35	25	34	96	142	71	67	126	38
COMMERCIAL, of which³:			14,273	13,545	13,341	9,766	9,076	7,371	4,954	4,756	3,516
Wholesale and retail trade	F, G, H	F, G, H	12,163	11,564	10,786	3,732	2,740	1,696	1,198	1,397	845
Transport and storage	I	I	73	143	190	244	216	194	188	247	192
Communication services	J, K, L	J, K, L	190	187	201	350	464	413	441	356	182
Government (including foreign), administration and defence	O	M	119	241	292	432	508	396	326	340	252
Education, cultural, recreational and personal services	P, R, S	N, P, Q	1,169	788	915	3,794	3,710	3,471	1,705	1,568	1,169
Health and community services	Q	O	559	622	957	1,214	1,438	1,201	1,096	848	876
RESIDENTIAL			5,129	7,207	6,786	6,870	6,707	6,484	6,558	5,611	4,274
Consumer Energy (observed)			41,154	40,246	40,932	42,041	40,145	44,140	40,720	43,157	38,791
Total			228,996	242,235	230,020	174,627	153,574	146,291	147,491	166,815	153,927

¹ Excludes electricity generation, cogeneration, other transformation and non-energy use.

² Excludes non-energy uses but includes energy sources for petroleum refining and the production of petroleum and coal products, industrial gases and synthetic resin, organic industrial chemicals, and inorganic industrial chemicals.

³ Excludes cogeneration.
R = Revised figures.

Table E.5d: Estimated Customer Numbers by Sector (as at December)

Calendar Year	Residential	Commercial	Industrial	Total
2004	225,933	8,714	1,400	236,047
2005	225,512	7,931	1,552	234,995
2006	228,810	8,026	1,487	238,323
2007	230,901	7,635	1,315	239,851
2008	229,973	7,167	1,206	238,346
Δ2006/2007	0.9%	-4.9%	-11.6%	0.6%
Δ2007/2008	-0.4%	-6.1%	-8.3%	-0.6%

E. Gas

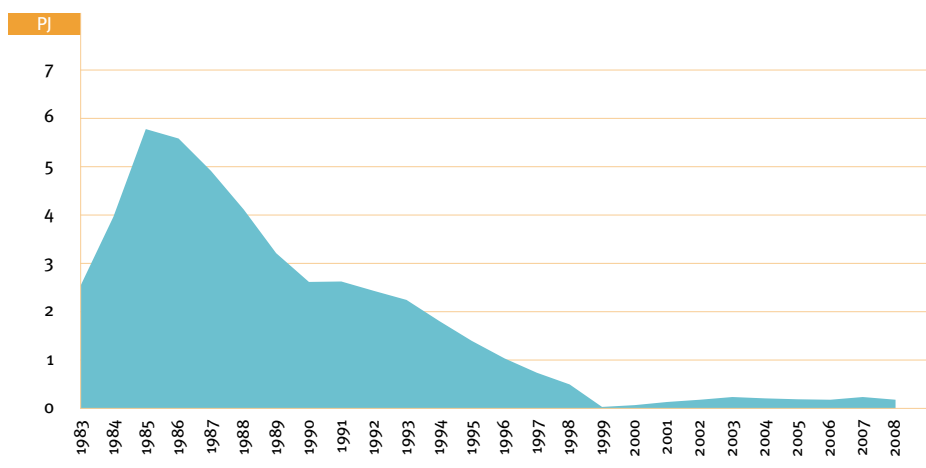
CNG Sales

Table E.6: CNG Sales (Gross PJ)

Calendar Year	PJ/Year	PJ/Quarter		
1983	2.57	2007	Mar	0.04
1984	4.01		Jun	0.09
1985	5.85		Sep	0.07
1986	5.65		Dec	0.05
1987	4.97	2008	Mar	0.04
1988	4.17		Jun	0.09
1989	3.26		Sep	0.03
1990	2.65		Dec	0.04
1991	2.66	Δ2006/2007 31.5%		
1992	2.46			
1993	2.27			
1994	1.83			
1995	1.42			
1996	1.06			
1997	0.76			
1998	0.51			
1999	0.04			
2000	0.07			
2001	0.14			
2002	0.19			
2003	0.24			
2004	0.22			
2005	0.19			
2006	0.19			
2007	0.25			
2008	0.19			

Note to Table E.6: Estimated from July 2000 to December 2008.

Figure E.6: Annual CNG Sales



New Zealand Gas Transmission Pipelines

Figure E.7 New Zealand Gas Transmission Pipelines

