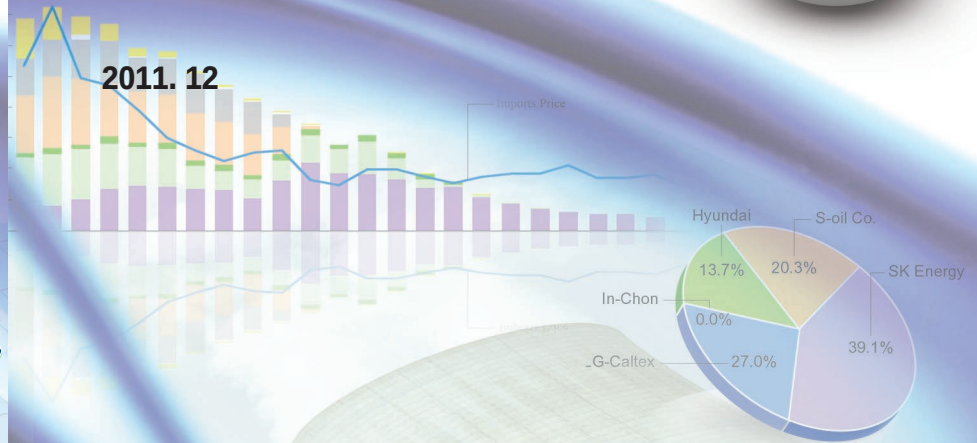


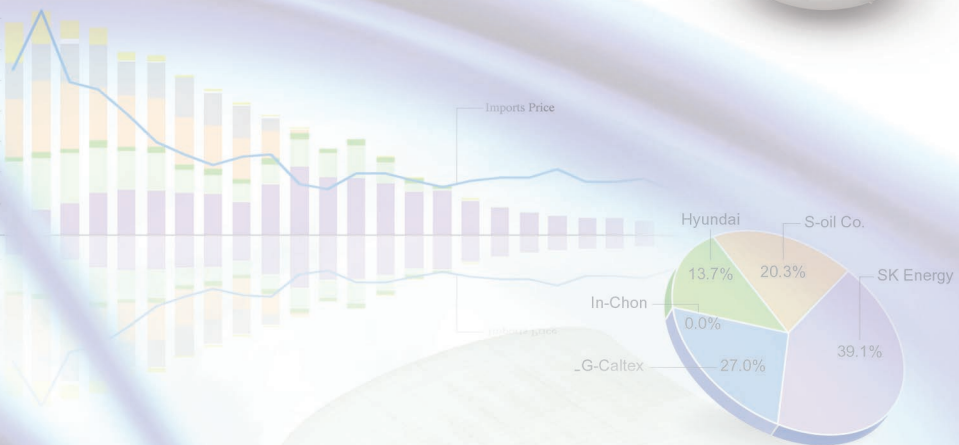
2011 Energy Info. Korea



Energy Info. Korea



2011 Energy Info. Korea



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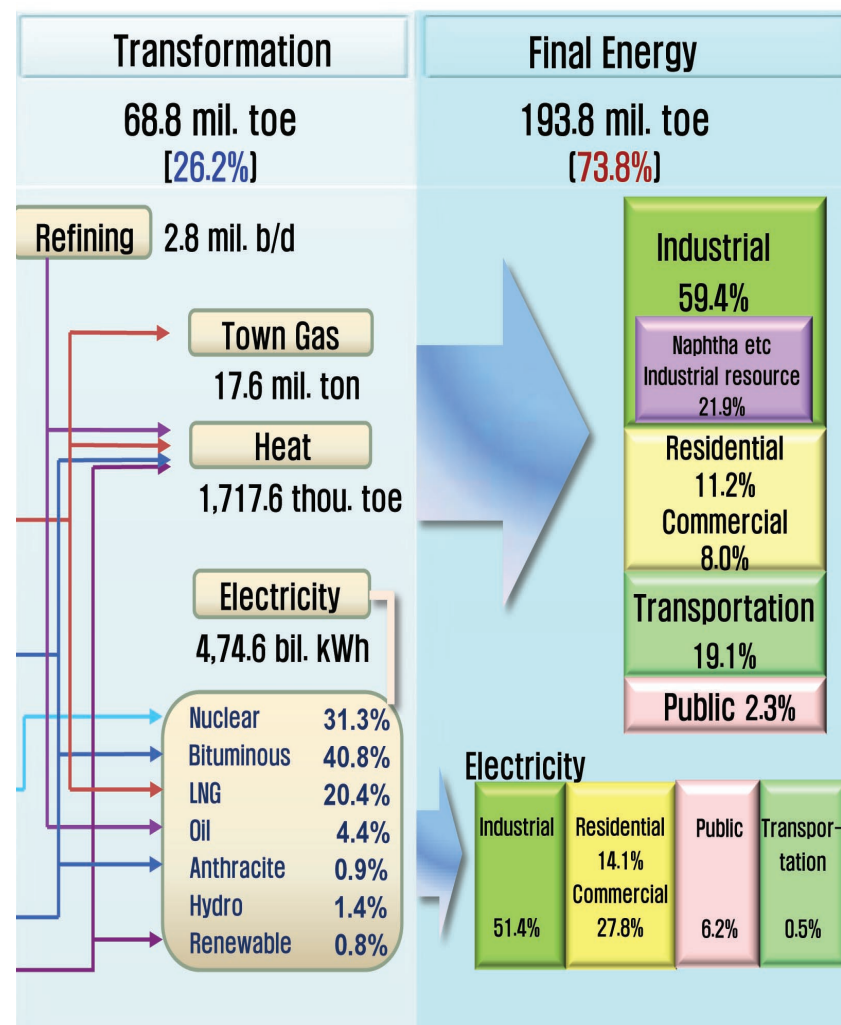
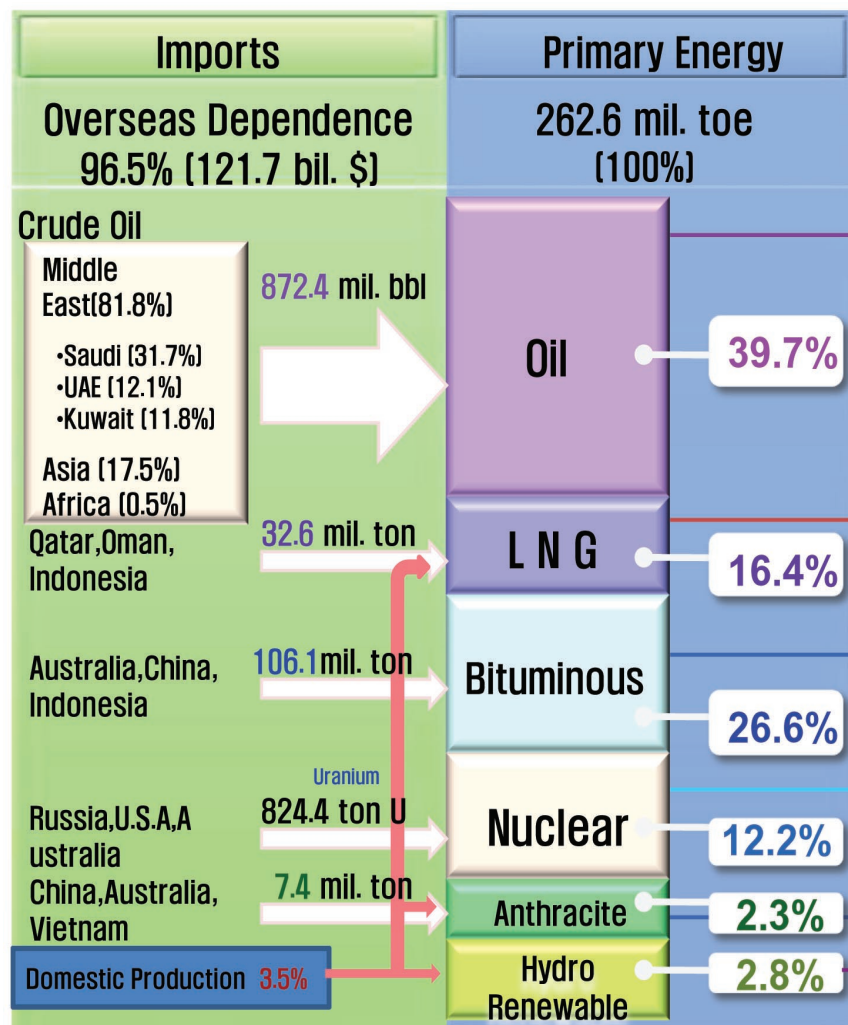
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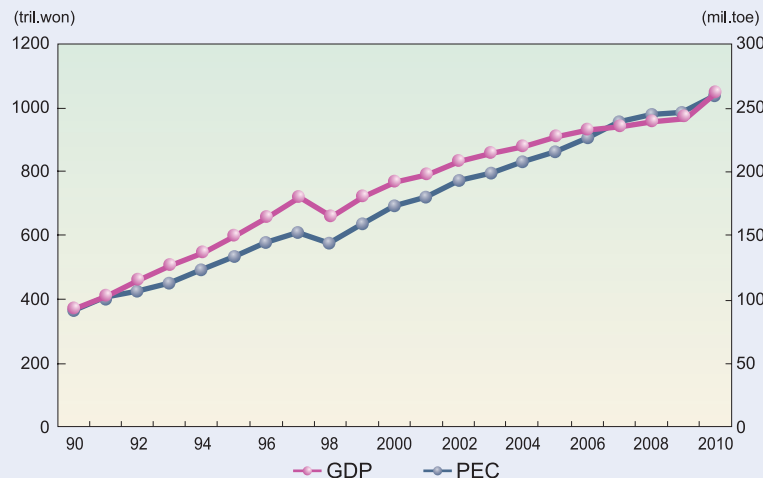
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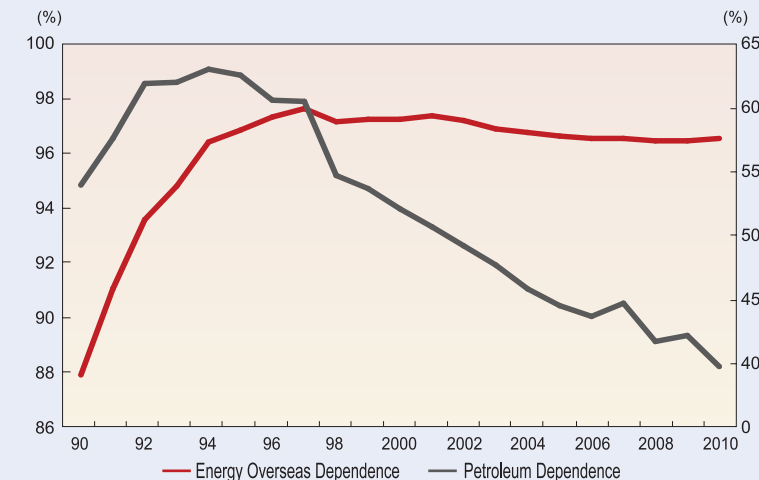
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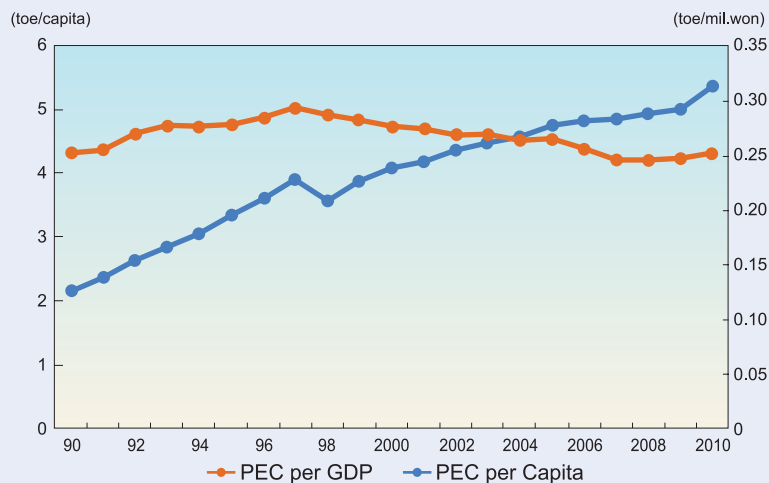
Trends in Primary Energy Consumption and GDP



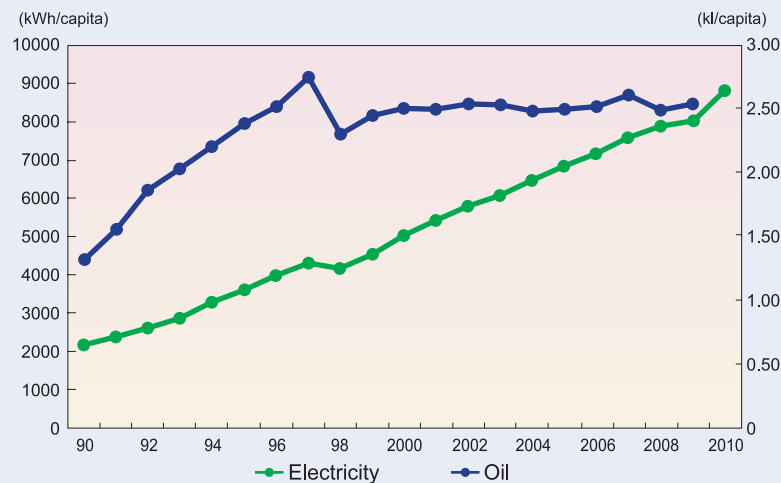
Energy and Petroleum Overseas Dependence



Primary Energy Consumption per Capita and GDP



Electricity and Oil Consumption per Capita

Major
Energy
Indicators

1. Major Energy Indicators

	Population* (1,000)	GDP(2005 prices)		Primary Energy Consumption(=PEC)		Final Energy Consumption(=FEC)		CO ₂ Emission	
		(bil. won)	Growth Rates %	(mil. toe)	Growth Rates %	(mil. toe)	Growth Rates %	(mil. t-CO ₂)	Growth Rates %
1970	32,241	61,851	-	19.7	11.9	17.9	12.3	-	-
1971	32,883	68,309	10.4	20.9	6.0	18.8	5.4	-	-
1972	33,505	72,757	6.5	21.3	2.0	19.0	0.8	-	-
1973	34,103	83,516	14.8	25.0	17.5	22.4	17.8	-	-
1974	34,692	91,351	9.4	25.8	3.0	22.7	1.6	-	-
1975	35,281	98,054	7.3	27.6	6.9	23.4	3.1	-	-
1976	35,849	111,248	13.5	30.2	9.6	25.8	10.3	-	-
1977	36,412	124,394	11.8	34.2	13.3	29.5	14.3	-	-
1978	36,969	137,204	10.3	38.1	11.3	32.4	9.8	-	-
1979	37,534	148,715	8.4	43.2	13.5	37.0	14.0	-	-
1980	38,124	145,903	-1.9	43.9	1.5	37.6	1.7	-	-
1981	38,723	156,706	7.4	45.7	4.1	39.0	3.6	135.9	-
1982	39,326	169,699	8.3	45.6	-0.2	38.7	-0.6	135.8	-0.1
1983	39,910	190,372	12.2	49.4	8.3	41.3	6.8	142.7	5.1
1984	40,406	209,141	9.9	53.5	8.3	45.0	8.9	154.8	8.5
1985	40,806	224,765	7.5	56.3	5.2	47.0	4.4	161.2	4.1
1986	41,214	252,276	12.2	61.5	9.2	50.5	7.5	169.4	5.1
1987	41,622	283,220	12.3	67.9	10.4	55.2	9.2	177.8	4.9
1988	42,031	316,245	11.7	75.4	11.0	61.0	10.6	201.6	13.4
1989	42,449	337,598	6.8	81.7	8.4	65.9	7.9	213.9	6.1
1990	42,869	368,986	9.3	93.2	14.1	75.1	14.0	242.2	13.2
1991	43,296	404,825	9.7	103.6	11.2	83.8	11.6	265.6	9.7
1992	43,748	428,164	5.8	116.0	12.0	94.6	12.9	288.6	8.7
1993	44,195	455,264	6.3	126.9	9.4	104.0	10.0	313.8	8.7
1994	44,642	495,199	8.8	137.2	8.2	112.2	7.8	339.5	8.2
1995	45,093	539,424	8.9	150.4	9.6	122.0	8.7	369.0	8.7
1996	45,525	578,187	7.2	165.2	9.8	132.0	8.3	405.4	9.9
1997	45,954	611,529	5.8	180.6	9.3	144.4	9.4	430.7	6.2
1998	46,287	576,587	-5.7	165.9	-8.1	132.1	-8.5	371.5	-13.7
1999	46,617	638,458	10.7	181.4	9.3	143.1	8.3	404.9	9.0
2000	47,008	694,628	8.8	192.9	6.4	149.9	4.7	434.1	7.2
2001	47,357	722,229	4.0	198.4	2.9	152.9	2.1	448.3	3.3
2002	47,622	773,869	7.2	208.6	5.2	160.5	4.9	468.2	4.4
2003	47,859	795,558	2.8	215.1	3.1	164.0	2.2	476.5	1.8
2004	48,039	832,305	4.6	220.2	2.4	166.0	1.2	483.4	1.4
2005	48,138	865,241	4.0	228.6	3.8	170.9	2.9	492.7	1.9
2006	48,297	910,049	5.2	233.4	2.1	173.6	1.6	-	-
2007	48,456	956,515	5.1	236.5	-	181.5	-	-	-
2008	48,607	978,499	2.3	240.8	1.8	182.6	0.6	-	-
2009	48,746	981,625	0.3	243.3	1.0	182.0	-0.3	-	-
2010	48,875	1,042,111	6.2	262.6	7.9	193.8	6.5	-	-

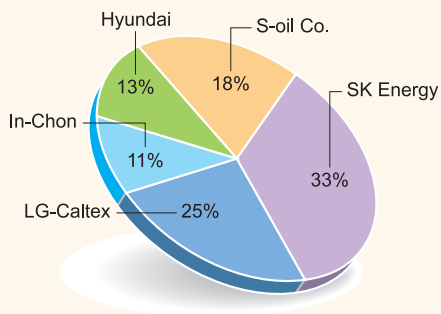
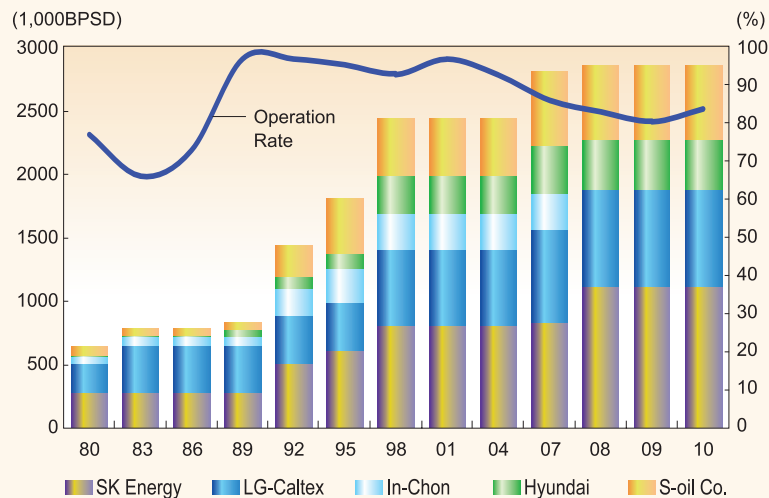
Note : 1) * mid-year estimates

2) From 2007, are based on the revised calorific value

P E C / G D P		CO ₂ Emission / GDP (t-CO ₂ / mil. won)	P E C / Population (toe per capita)	CO ₂ Emissions / Population (t-CO ₂ per capita)	Oil Consumption / Population (kd per capita)	Elec. Consumption / Population (kWh per capita)	
(toe/mil. won)	(toe/1,000\$)						
0.318	0.326	-	0.61	-	0.31	240	1970
0.305	0.313	-	0.63	-	0.34	270	1971
0.293	0.300	-	0.64	-	0.35	298	1972
0.299	0.307	-	0.73	-	0.42	363	1973
0.282	0.289	-	0.74	-	0.43	405	1974
0.281	0.288	-	0.78	-	0.47	471	1975
0.271	0.278	-	0.84	-	0.53	547	1976
0.275	0.282	-	0.94	-	0.62	627	1977
0.278	0.284	-	1.03	-	0.70	739	1978
0.291	0.298	-	1.15	-	0.78	830	1979
0.301	0.308	-	1.15	-	0.76	859	1980
0.292	0.299	0.87	1.18	3.51	0.74	915	1981
0.269	0.275	0.80	1.16	3.45	0.72	963	1982
0.260	0.266	0.75	1.24	3.58	0.75	1,068	1983
0.256	0.262	0.74	1.32	3.83	0.75	1,164	1984
0.250	0.257	0.72	1.38	3.95	0.74	1,243	1985
0.244	0.250	0.67	1.49	4.11	0.77	1,367	1986
0.240	0.245	0.63	1.63	4.27	0.80	1,543	1987
0.238	0.244	0.64	1.79	4.80	0.95	1,771	1988
0.242	0.248	0.63	1.92	5.04	1.08	1,939	1989
0.253	0.259	0.66	2.17	5.65	1.32	2,202	1990
0.256	0.262	0.66	2.39	6.13	1.56	2,412	1991
0.271	0.277	0.67	2.65	6.60	1.87	2,639	1992
0.279	0.285	0.69	2.87	7.10	2.03	2,899	1993
0.277	0.284	0.69	3.07	7.60	2.21	3,297	1994
0.279	0.286	0.68	3.34	8.18	2.39	3,640	1995
0.286	0.293	0.70	3.63	8.91	2.52	4,006	1996
0.295	0.303	0.70	3.93	9.37	2.75	4,366	1997
0.288	0.295	0.64	3.58	8.03	2.30	4,167	1998
0.284	0.291	0.63	3.89	8.69	2.45	4,572	1999
0.278	0.284	0.62	4.10	9.23	2.51	5,067	2000
0.275	0.281	0.62	4.19	9.47	2.50	5,444	2001
0.270	0.276	0.60	4.38	9.83	2.55	5,845	2002
0.270	0.277	0.60	4.49	9.96	2.54	6,126	2003
0.265	0.271	0.58	4.58	10.06	2.49	6,491	2004
0.264	0.271	0.57	4.75	10.24	2.51	6,883	2005
0.256	0.263	-	4.83	-	2.52	7,191	2006
0.247	0.253	-	4.86	-	2.61	7,607	2007
0.246	0.252	-	4.95	-	2.49	7,922	2008
0.248	0.254	-	4.99	-	2.54	8,092	2009
0.252	0.258	-	5.37	-	2.58	8,883	2010

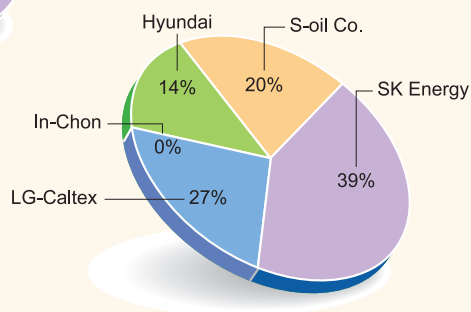
Major
Energy
Indicators

Capacity of Oil Refining Facilities



2000 2,438 thou. BPSD

2010 2,855 thou. BPSD



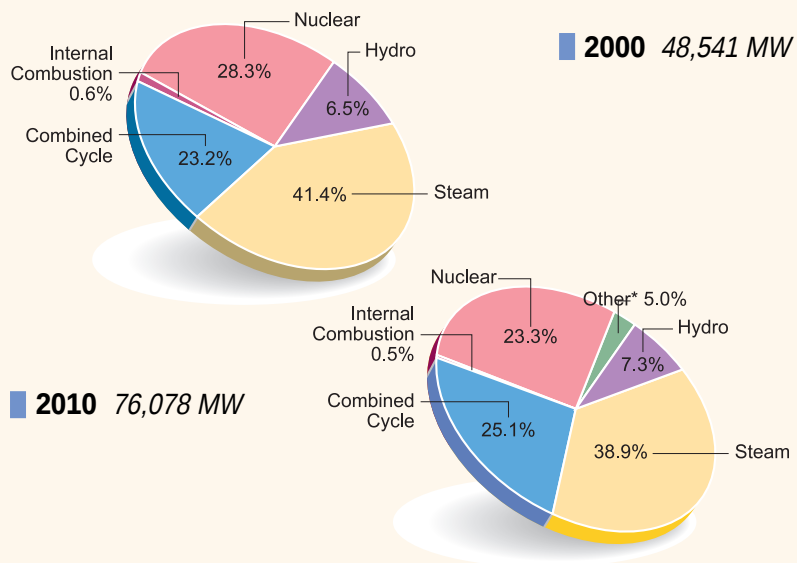
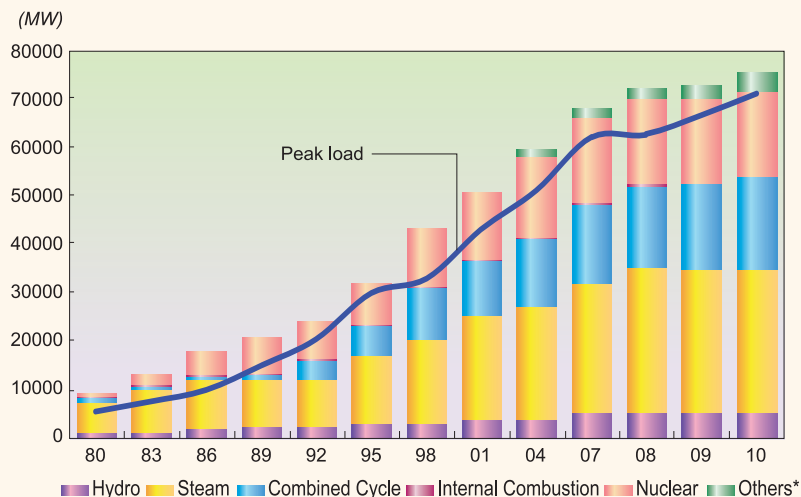
2-1. Capacity of Oil Refining Facilities

(1,000 Bbl)

	Crude Oil Runs	Product Production	Operation Rate(%)	Refining Capacity (1,000 BPSD)					
				Total	SK Energy	LG-Caltex	In-Chon	Hyundai	S-Oil Co.
1970	-	68,303	-	220	115	100	-	5	-
1971	85,897	81,537	-	270	115	100	50	5	-
1972	90,386	85,890	60.90	400	175	160	60	5	-
1973	107,344	101,955	73.53	400	175	160	60	5	-
1974	110,837	105,403	69.02	440	215	160	60	5	-
1975	120,791	116,120	75.20	440	215	160	60	5	-
1976	138,497	132,348	86.23	440	215	160	60	5	-
1977	152,407	152,413	94.91	440	215	160	60	5	-
1978	167,019	167,028	78.90	580	280	230	60	10	-
1979	182,919	181,049	86.40	580	280	230	60	10	-
1980	179,924	176,226	77.02	640	280	230	60	10	60
1981	178,322	173,793	61.85	790	280	380	60	10	60
1982	173,044	170,595	60.01	790	280	380	60	10	60
1983	190,643	188,667	66.11	790	280	380	60	10	60
1984	201,937	200,997	70.03	790	280	380	60	10	60
1985	201,131	197,559	69.75	790	280	380	60	10	60
1986	209,729	206,750	72.73	790	280	380	60	10	60
1987	210,914	208,662	73.15	790	280	380	60	10	60
1988	256,420	252,196	88.22	840	280	380	60	60	60
1989	296,722	292,062	96.78	840	280	380	60	60	60
1990	307,281	304,496	100.22	840	280	380	60	60	60
1991	412,787	408,215	109.12	1,036	368	380	68	60	160
1992	510,619	504,560	96.77	1,442	510	380	220	86	246
1993	843,967	539,986	88.97	1,675	585	380	275	110	325
1994	560,866	568,452	90.39	1,700	610	380	275	110	325
1995	631,080	643,422	95.10	1,818	610	380	275	110	443
1996	720,846	724,128	97.60	2,018	643	380	275	277	443
1997	871,974	911,462	97.99	2,438	810	600	275	310	443
1998	825,890	864,845	92.81	2,438	810	600	275	310	443
1999	872,742	911,086	98.08	2,438	810	600	275	310	443
2000	890,304	926,897	99.78	2,438	810	600	275	310	443
2001	860,115	907,345	96.66	2,438	810	600	275	310	443
2002	786,805	858,363	88.42	2,438	810	600	275	310	443
2003	782,951	841,038	87.98	2,438	810	600	275	310	443
2004	826,551	886,413	92.63	2,438	810	600	275	310	443
2005	852,439	922,897	85.39	2,735	840	650	275	390	580
2006	878,395	949,983	86.82	2,772	840	687	275	390	580
2007	882,117	955,898	85.94	2,812	840	727	275	390	580
2008	865,663	838,749	82.24	2,855	1,115	770	-	390	580
2009	838,475	912,654	80.46	2,855	1,115	770	-	390	580
2010	872,247	938,926	83.70	2,855	1,115	770	-	390	580

Transformation

■ Generating Facilities



Note : * Group & Alternative Energy

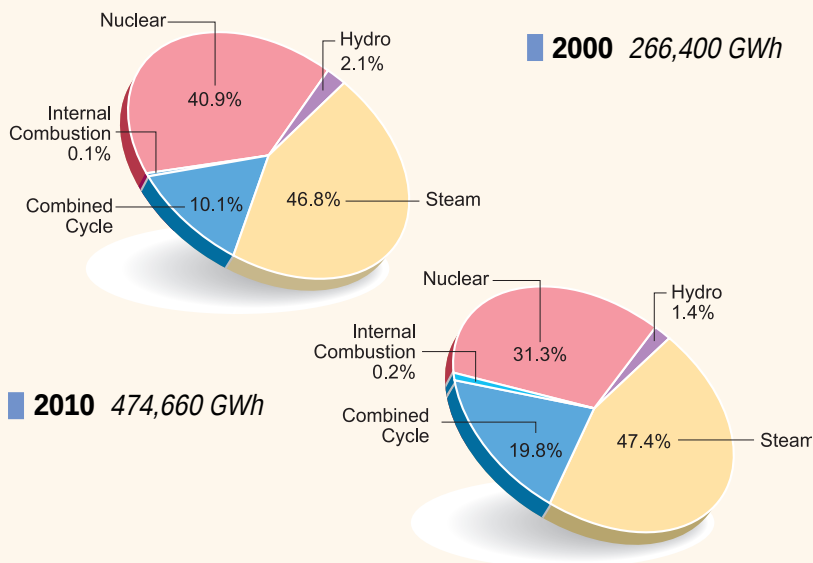
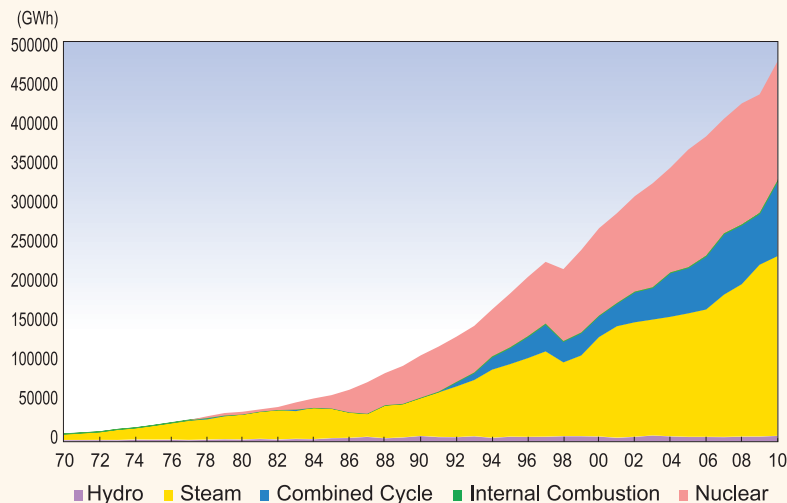
2-2. Generating Facilities

(MW)

	Total	Hydro	Steam	Combined Cycle	Internal Combustion	Nuclear	Peak load
1970	2,508	329	1,927	-	252	-	1,555
1971	2,628	341	2,035	-	252	-	1,777
1972	3,872	341	3,284	-	247	-	2,097
1973	4,272	621	3,404	-	246	-	2,556
1974	4,523	621	3,654	-	248	-	2,922
1975	4,720	621	3,754	-	344	-	3,351
1976	4,810	711	3,854	-	244	-	3,807
1977	5,790	711	4,154	620	305	-	4,187
1978	6,916	712	4,692	620	305	587	5,118
1979	8,033	912	5,302	920	312	587	5,353
1980	9,391	1,157	6,412	920	315	587	5,457
1981	9,835	1,202	6,812	920	314	587	6,144
1982	10,304	1,202	6,722	920	194	1,266	6,661
1983	13,115	1,202	8,882	920	196	1,916	7,602
1984	14,190	1,202	9,942	920	211	1,916	8,811
1985	16,137	2,223	9,912	920	216	2,866	9,349
1986	18,060	2,225	9,912	920	238	4,766	9,915
1987	19,121	2,232	9,912	920	240	5,816	11,039
1988	19,944	2,236	9,912	895	235	6,666	13,658
1989	20,997	2,339	9,912	840	290	7,616	15,058
1990	20,021	2,340	9,012	840	213	7,616	17,252
1991	21,111	2,445	9,912	760	378	7,616	19,124
1992	24,120	2,498	9,912	3,706	388	7,616	20,438
1993	27,654	2,504	11,972	5,173	389	7,616	22,112
1994	28,750	2,493	13,032	5,334	275	7,616	26,696
1995	32,184	3,093	14,032	6,184	259	8,616	29,878
1996	35,715	3,094	14,022	8,719	264	9,616	32,282
1997	41,042	3,115	16,078	11,269	265	10,316	35,851
1998	43,406	3,131	17,209	10,785	265	12,016	32,996
1999	46,978	3,148	18,909	10,935	271	13,716	37,293
2000	48,451	3,149	20,059	11,257	271	13,716	41,007
2001	50,859	3,876	21,559	11,436	273	13,716	43,125
2002	53,801	3,876	21,749	12,186	275	15,716	45,773
2003	56,053	3,877	23,128	13,086	246	15,716	47,385
2004	59,961	3,879	24,801	14,313	252	16,716	51,264
2005	62,258	3,883	25,348	15,015	297	17,716	54,631
2006	65,514	5,485	26,013	16,004	297	17,716	58,994
2007	68,268	5,492	28,246	16,511	303	17,716	62,285
2008	72,491	5,505	31,919	17,044	307	17,716	62,794
2009	73,470	5,515	32,318	17,575	347	17,716	66,797
2010	76,078	5,525	33,387	19,100	351	17,716	71,308

Note: 1. exclude non-utility
2. Includes Group & Alternative Energy

Electric Power Generation by Facilities



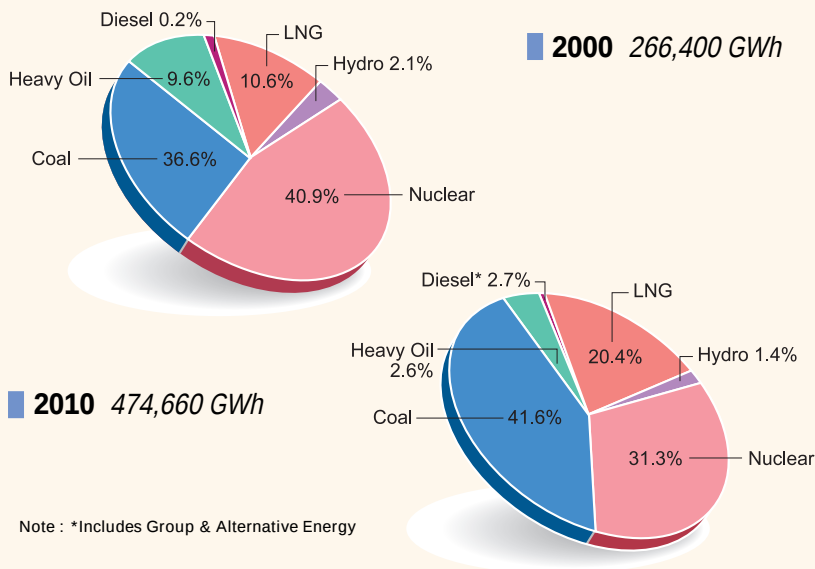
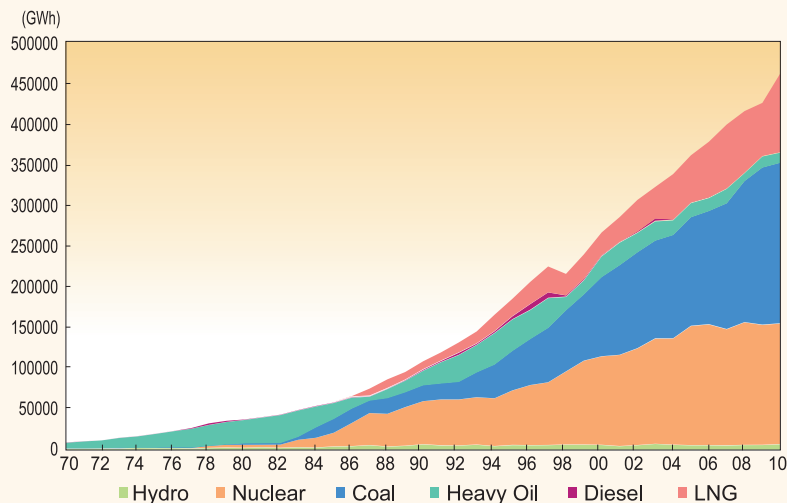
2-3. Electric Power Generation by Facilities

(GWh)

	Total	Hydro	Steam	Combined Cycle	Internal Combustion	Nuclear
1970	9,168	1,221	7,587	-	360	-
1971	10,540	1,320	9,050	-	170	-
1972	11,839	1,368	10,403	-	68	-
1973	14,825	1,284	13,490	-	51	-
1974	16,835	1,906	14,747	-	182	-
1975	19,837	1,683	17,951	-	203	-
1976	23,117	1,789	21,082	-	246	-
1977	26,587	1,393	24,375	305	443	71
1978	31,511	1,808	25,398	1,508	473	2,324
1979	35,601	2,329	28,841	1,086	193	3,152
1980	37,239	1,984	31,357	369	52	3,477
1981	40,207	2,709	34,305	258	38	2,897
1982	43,122	2,005	36,963	332	45	3,777
1983	48,851	2,723	34,907	2,214	42	8,965
1984	53,808	2,399	39,477	99	41	11,792
1985	58,007	3,659	37,484	58	61	16,745
1986	64,694	4,019	32,189	53	122	28,311
1987	73,991	5,344	29,096	66	171	39,314
1988	85,462	3,566	41,413	172	210	40,101
1989	94,472	4,558	42,075	221	253	47,365
1990	107,670	6,361	47,374	619	429	52,887
1991	118,619	5,051	56,000	785	472	56,311
1992	130,963	4,863	63,532	5,464	574	56,530
1993	144,437	6,006	70,465	9,188	640	58,138
1994	164,993	4,098	85,408	16,047	789	58,651
1995	184,661	5,478	90,808	20,521	825	67,029
1996	205,494	5,201	98,654	26,943	772	73,924
1997	224,445	5,404	106,813	34,424	718	77,086
1998	215,300	6,099	92,432	26,505	575	89,689
1999	239,325	6,066	101,138	28,675	382	103,064
2000	266,400	5,610	124,669	26,863	294	108,964
2001	285,224	4,151	139,582	29,033	325	112,133
2002	306,474	5,311	143,370	38,337	353	119,103
2003	322,452	6,887	145,148	40,375	370	129,672
2004	342,148	5,861	149,713	55,452	407	130,715
2005	364,639	5,189	154,639	57,457	575	146,779
2006	381,181	5,219	159,398	67,138	677	148,749
2007	403,125	5,042	178,161	76,405	578	142,937
2008	422,355	5,563	190,812	74,519	503	150,958
2009	433,604	5,641	215,009	64,486	697	147,771
2010	474,660	6,472	224,850	94,012	730	148,596

Note: 1. exclude non-utility
2. Includes Group & Alternative Energy

Electric Power Generation by Energy Source



2-4. Electric Power Generation by Energy Source

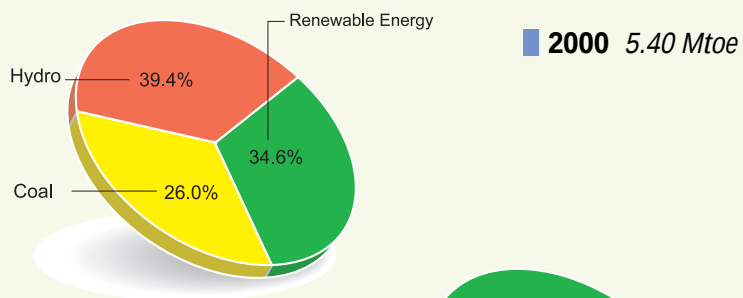
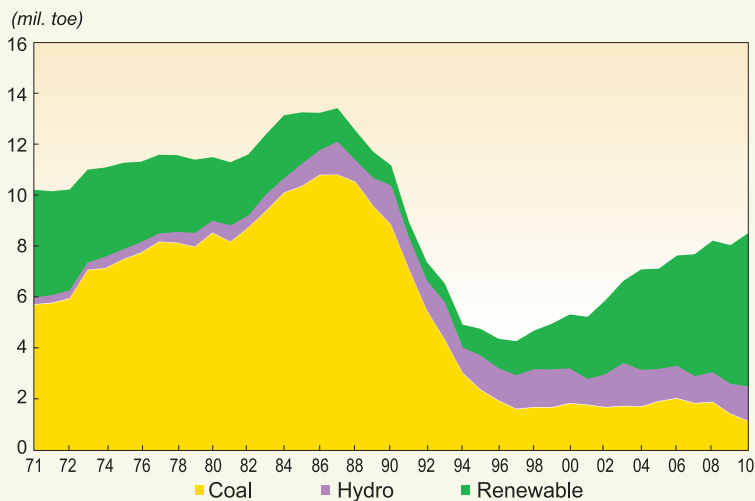
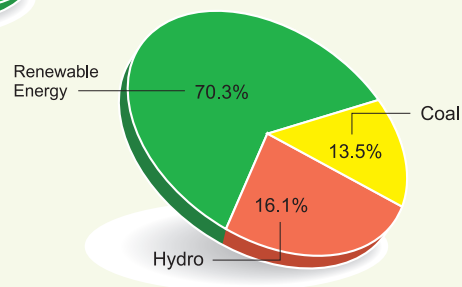
(GWh)

	Total	Hydro	Nuclear	Thermal			
				Coal	Heavy Oil	Diesel	LNG
1970	9,167	1,221	-	867	6,758	321	-
1971	10,540	1,320	-	724	8,399	97	-
1972	11,839	1,367	-	812	9,609	51	-
1973	14,824	1,284	-	1,340	12,142	58	-
1974	16,835	1,906	-	743	14,016	170	-
1975	19,837	1,683	-	1,029	16,965	160	-
1976	23,117	1,789	-	1,475	19,673	180	-
1977	26,587	1,393	71	1,390	23,062	671	-
1978	32,510	1,808	2,324	929	25,541	1,908	-
1979	35,600	2,328	3,152	1,252	27,613	1,255	-
1980	37,239	1,984	3,477	2,481	28,876	421	-
1981	40,207	2,709	2,897	2,530	31,772	299	-
1982	43,122	2,005	3,777	2,612	34,358	370	-
1983	48,850	2,723	8,965	4,289	32,497	376	-
1984	53,808	2,399	11,792	13,383	25,748	486	-
1985	58,007	3,659	16,745	17,639	19,646	318	-
1986	64,695	4,019	28,311	18,220	13,604	291	250
1987	73,992	5,344	39,314	15,856	4,822	265	8,391
1988	85,462	3,566	40,101	19,840	11,222	301	10,432
1989	94,472	4,558	47,365	18,777	14,241	399	9,132
1990	107,669	6,361	52,887	19,961	17,928	928	9,604
1991	118,619	5,051	56,311	20,140	26,158	1,024	9,935
1992	130,963	4,863	56,530	22,072	33,001	2,310	12,187
1993	144,437	6,006	58,138	30,917	33,718	1,170	14,488
1994	164,993	4,098	58,651	41,835	38,781	1,582	20,046
1995	184,661	5,478	67,029	48,813	38,739	3,306	21,296
1996	205,494	5,201	73,924	56,881	35,699	6,737	27,050
1997	224,445	5,404	77,086	67,190	36,620	6,323	31,823
1998	215,300	6,099	89,689	75,498	16,430	1,282	26,302
1999	239,325	6,066	103,064	81,544	17,365	1,162	30,124
2000	266,400	5,610	108,964	97,538	25,485	657	28,146
2001	285,224	4,151	112,133	110,332	27,770	385	30,453
2002	306,474	5,311	119,103	118,022	23,940	1,155	38,943
2003	322,452	6,887	129,672	120,276	23,656	2,870	39,090
2004	342,148	5,861	130,715	127,158	18,042	470	55,999
2005	364,639	5,189	146,779	133,658	17,318	413	58,118
2006	381,181	5,219	148,749	139,205	15,999	599	68,302
2007	403,125	5,042	142,937	154,674	17,689	443	78,427
2008	422,355	5,563	150,958	173,508	9,700	393	75,809
2009	433,604	5,641	147,771	193,217	13,670	413	65,274
2010	474,660	6,472	148,596	197,422	12,405	473	96,734

Note : * Includes Group & Alternative Energy

Transformation

Energy Production

■ **2010 9.16 Mtoe**

3-1. Energy Production

(1,000 toe)

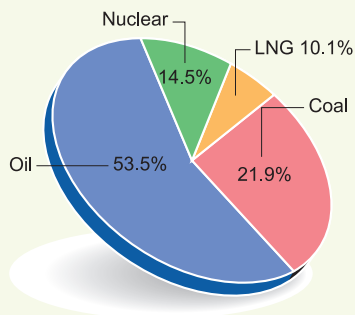
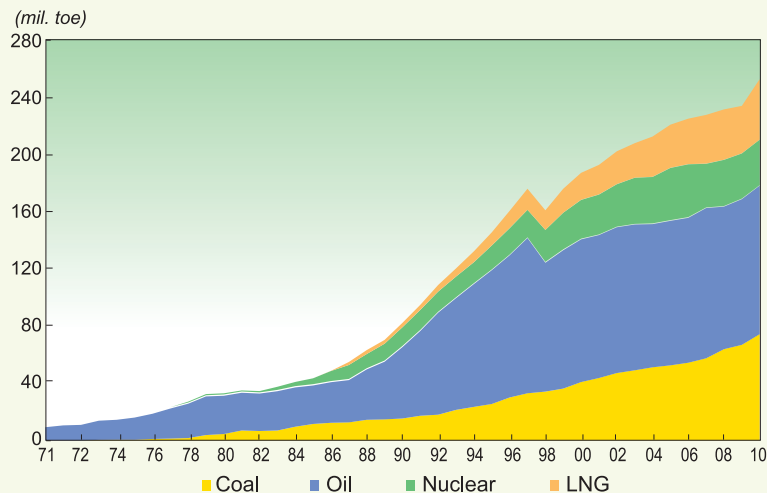
	Primary Energy Consumption	Energy Production				
		Total	Coal	LNG	Hydro	Renewable Energy
1970	19,678	10,332	5,776	-	305	4,251
1971	20,868	10,272	5,835	-	330	4,107
1972	21,291	10,342	6,010	-	342	3,990
1973	25,010	11,128	7,135	-	321	3,672
1974	25,764	11,213	7,211	-	477	3,525
1975	27,553	11,397	7,556	-	421	3,420
1976	30,193	11,442	7,820	-	447	3,175
1977	34,213	11,717	8,252	-	348	3,117
1978	38,087	11,701	8,211	-	452	3,038
1979	43,241	11,522	8,048	-	582	2,892
1980	43,911	11,622	8,609	-	496	2,517
1981	45,717	11,417	8,248	-	677	2,492
1982	45,625	11,726	8,808	-	501	2,417
1983	49,420	12,533	9,474	-	681	2,378
1984	53,536	13,278	10,186	-	600	2,492
1985	56,296	13,393	10,447	-	915	2,031
1986	61,463	13,375	10,890	-	1,005	1,480
1987	67,880	13,553	10,898	-	1,336	1,319
1988	75,351	12,670	10,614	-	892	1,164
1989	81,661	11,828	9,655	-	1,140	1,033
1990	93,192	11,298	8,911	-	1,590	797
1991	103,623	9,052	7,172	-	1,263	617
1992	116,011	7,470	5,531	-	1,216	723
1993	126,879	6,631	4,387	-	1,502	742
1994	137,235	4,999	3,068	-	1,025	906
1995	150,436	4,835	2,415	-	1,369	1,051
1996	165,213	4,445	1,983	-	1,301	1,161
1997	180,638	4,342	1,647	-	1,351	1,344
1998	165,932	4,766	1,715	-	1,525	1,526
1999	181,363	5,034	1,711	-	1,517	1,806
2000	192,887	5,403	1,871	-	1,403	2,130
2001	198,409	5,306	1,812	-	1,038	2,456
2002	208,636	5,966	1,714	-	1,327	2,925
2003	215,067	6,728	1,766	-	1,722	3,241
2004	220,238	7,184	1,742	-	1,465	3,977
2005	228,622	7,732	1,956	518	1,297	3,961
2006	233,372	8,192	2,068	461	1,305	4,358
2007	236,454	8,141	1,876	353	1,084	4,828
2008	240,752	8,553	1,922	236	1,196	5,198
2009	243,311	8,639	1,448	498	1,213	5,480
2010	262,609	9,160	1,166	539	1,391	6,064

Note : From 2007, are based on the revised calorific value

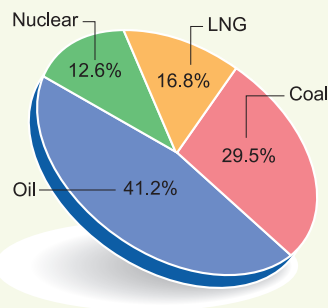
Primary Energy Consumption by Source



Energy Imports



■ 2010 253.4 Mtoe



3-2. Energy Imports

(1,000 toe)

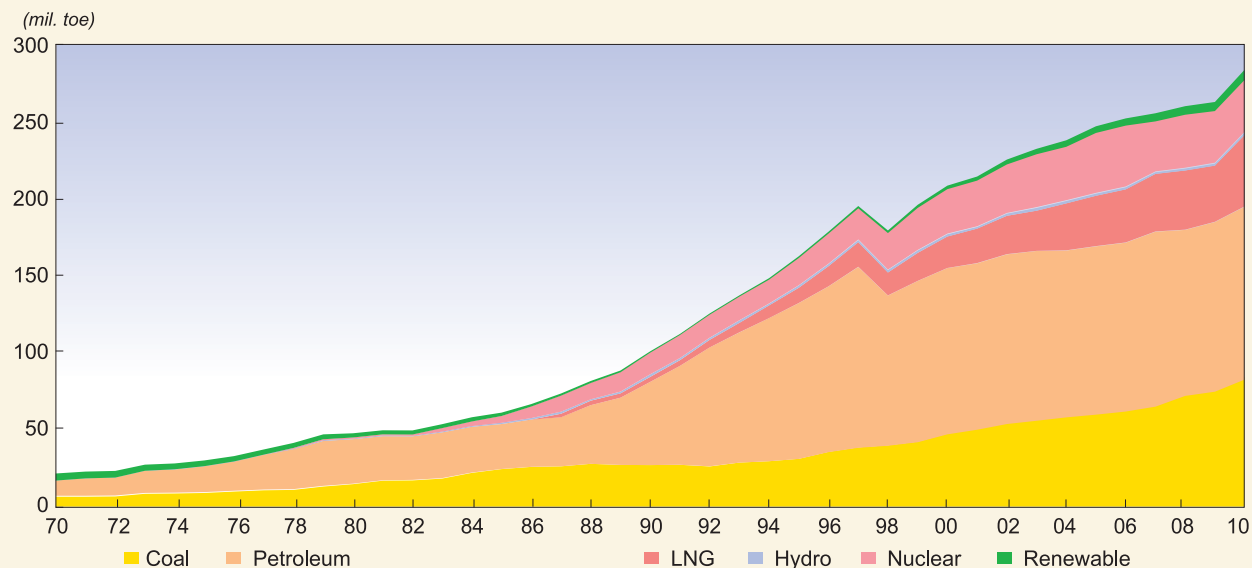
	Primary Energy Consumption	Energy Imports				
		Total	Coal	Oil	Nuclear	LNG
1970	19,678	9,346	53	9,293	-	-
1971	20,868	10,597	38	10,559	-	-
1972	21,291	10,949	22	10,927	-	-
1973	25,010	13,882	428	13,454	-	-
1974	25,764	14,551	553	13,998	-	-
1975	27,553	16,156	519	15,637	-	-
1976	30,193	18,751	1,047	17,704	-	-
1977	34,213	22,496	1,386	21,092	18	-
1978	38,087	26,386	1,682	24,123	581	-
1979	43,241	31,719	3,796	27,135	788	-
1980	43,911	32,289	4,590	26,830	869	-
1981	45,717	34,300	6,996	26,580	724	-
1982	45,625	33,899	6,643	26,312	944	-
1983	49,420	36,887	7,017	27,629	2,241	-
1984	53,536	40,258	9,681	27,629	2,948	-
1985	56,296	42,903	11,575	27,142	4,186	-
1986	61,463	48,088	12,440	28,499	7,078	71
1987	67,880	54,327	12,741	29,653	9,829	2,104
1988	75,351	62,681	14,548	35,390	10,025	2,718
1989	81,661	69,833	14,838	40,524	11,841	2,630
1990	93,192	81,894	15,474	50,175	13,222	3,023
1991	103,623	94,571	17,363	59,627	14,078	3,503
1992	116,011	108,541	18,087	71,740	14,133	4,581
1993	126,879	120,248	21,495	78,495	14,535	5,723
1994	137,235	132,236	23,612	86,343	14,663	7,618
1995	150,436	145,601	25,676	93,955	16,757	9,213
1996	165,213	160,768	30,217	99,898	18,481	12,172
1997	180,638	176,296	33,152	109,080	19,272	14,792
1998	165,932	161,166	34,324	90,582	22,422	13,838
1999	181,363	176,329	36,444	97,270	25,766	16,849
2000	192,887	187,484	41,040	100,279	27,241	18,924
2001	198,409	193,104	43,899	100,385	28,033	20,787
2002	208,636	202,670	47,382	102,414	29,776	23,099
2003	215,067	208,339	49,350	102,380	32,415	24,194
2004	220,238	213,054	51,386	100,638	32,679	28,351
2005	228,622	220,890	52,832	101,526	36,695	29,837
2006	233,372	225,180	54,619	101,831	37,187	31,543
2007	236,454	228,313	57,777	105,494	30,731	34,310
2008	240,752	232,200	64,138	100,170	32,456	35,435
2009	243,311	243,672	67,156	102,336	31,771	33,410
2010	262,609	253,449	74,730	104,301	31,948	42,469

Note : From 2007, are based on the revised calorific value

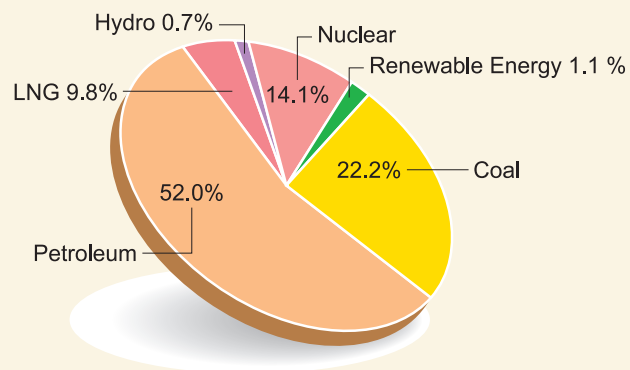
Primary Energy Consumption by Source



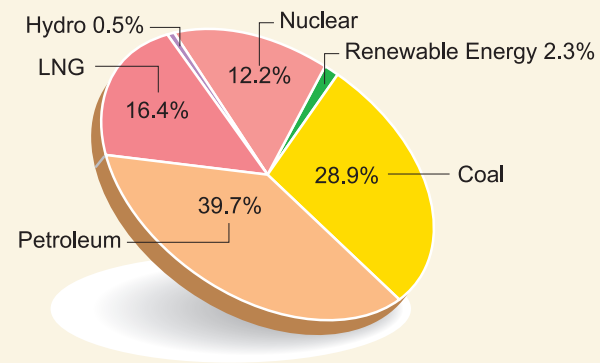
■ Primary Energy Consumption



■ 2000 192.9 Mtoe



■ 2010 262.6 Mtoe

Primary
Energy
Consumption

4. Primary Energy Consumption

(1,000 toe)

	Total	Growth Rate	Coal			Petroleum	
			Sub-Total	Anthracite	Bituminous	Sub-Total	Fuel Oil
1970	19,678	11.9	5,830	5,777	53	9,292	8,668
1971	20,868	6.0	5,872	5,835	37	10,559	9,895
1972	21,291	2.0	6,032	6,010	22	10,927	10,270
1973	25,010	17.5	7,563	7,135	428	13,454	12,259
1974	25,763	3.0	7,765	7,211	554	13,998	12,619
1975	27,553	6.9	8,075	7,556	519	15,638	14,036
1976	30,193	9.6	8,867	7,820	1,047	17,704	15,952
1977	34,214	13.3	9,638	8,252	1,386	21,092	18,901
1978	38,088	11.3	9,894	8,462	1,432	24,124	21,548
1979	43,242	13.5	11,843	8,973	2,870	27,136	24,112
1980	43,911	1.5	13,199	9,878	3,321	26,830	23,362
1981	45,718	4.1	15,244	10,338	4,906	26,580	23,110
1982	45,625	-0.2	15,451	9,839	5,612	26,312	22,649
1983	49,420	8.3	16,491	10,133	6,358	27,628	23,250
1984	53,535	8.3	19,867	11,455	8,412	27,628	22,663
1985	56,296	5.2	22,022	12,322	9,700	27,142	21,836
1986	61,462	9.2	23,330	13,239	10,091	28,499	22,408
1987	67,878	10.4	23,639	12,935	10,704	29,652	22,958
1988	75,351	11.0	25,162	12,441	12,721	35,390	27,869
1989	81,660	8.4	24,493	10,984	13,509	40,523	32,506
1990	93,192	14.1	24,385	9,947	14,438	50,175	39,653
1991	103,619	11.2	24,535	8,144	16,391	59,627	45,773
1992	116,010	12.0	23,618	6,315	17,303	71,740	52,311
1993	126,879	9.4	25,882	5,058	20,824	78,495	57,139
1994	137,234	8.2	26,680	3,507	23,173	86,342	62,680
1995	150,437	9.6	28,092	2,953	25,139	93,955	68,949
1996	165,212	9.8	32,200	2,561	29,639	99,898	73,264
1997	180,638	9.3	34,799	1,989	32,810	109,080	74,144
1998	165,932	-8.1	36,039	2,207	33,832	90,582	53,952
1999	181,363	9.3	38,156	2,425	35,731	97,270	59,007
2000	192,887	6.4	42,911	3,094	39,817	100,280	59,743
2001	198,409	2.9	45,711	3,678	42,033	100,385	59,049
2002	208,636	5.2	49,096	4,041	45,054	102,414	58,602
2003	215,067	3.1	51,116	4,560	46,556	102,380	57,605
2004	220,238	2.4	53,128	4,302	48,826	100,638	54,100
2005	228,622	3.8	54,788	4,768	50,020	101,526	53,416
2006	233,372	2.1	56,687	5,208	51,479	101,831	51,800
2007	236,454	1.3	59,654	5,586	54,068	105,494	50,738
2008	240,752	1.8	66,060	5,906	60,155	100,171	45,705
2009	243,311	1.1	68,604	5,813	62,792	102,337	45,607
2010	262,609	7.9	75,896	6,141	69,755	104,301	46,420

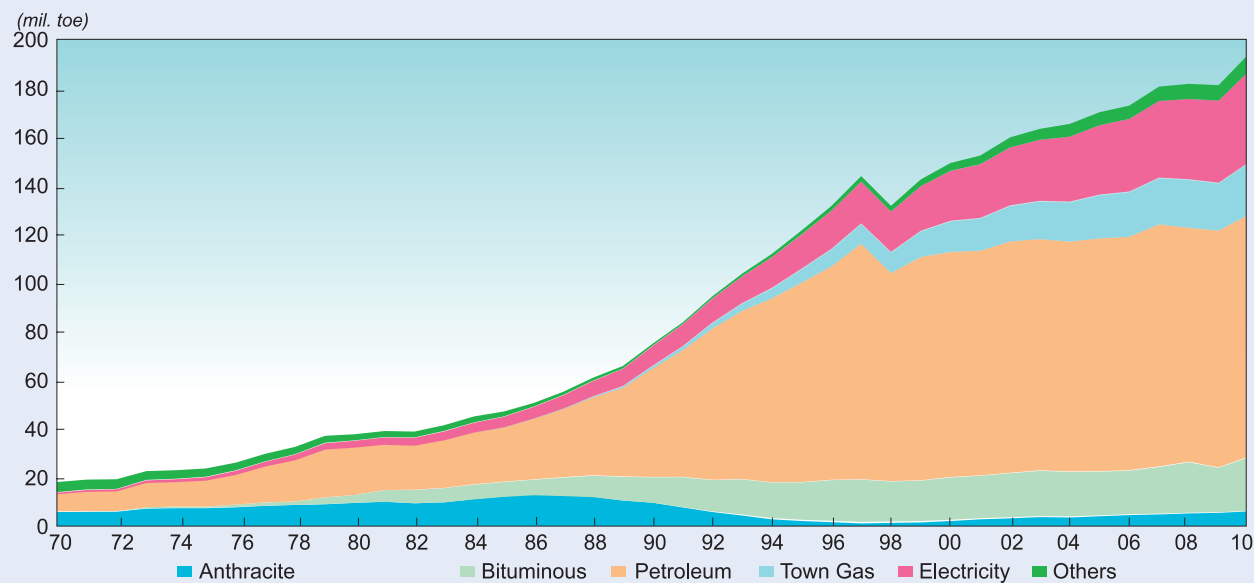
Note : From 2007, are based on the revised calorific value

		LNG	Hydro	Nuclear	Renewable Energy	Overseas Dependence (%)	
LPG	Non-Energy Use						
45	579	-	305	-	4,251	47.5	1970
60	604	-	330	-	4,107	50.8	1971
68	589	-	342	-	3,990	51.1	1972
98	1,097	-	321	-	3,672	55.5	1973
131	1,248	-	477	-	3,525	56.5	1974
172	1,430	-	421	-	3,420	58.6	1975
163	1,589	-	447	-	3,175	62.1	1976
172	2,019	-	348	18	3,117	65.8	1977
239	2,337	-	452	581	3,038	69.3	1978
339	2,685	-	582	788	2,892	73.4	1979
458	3,010	-	496	869	2,517	73.5	1980
511	2,959	-	677	724	2,492	75.0	1981
750	2,913	-	501	944	2,417	74.3	1982
1,031	3,347	-	681	2,241	2,378	74.6	1983
1,262	3,703	-	600	2,948	2,492	75.2	1984
1,467	3,839	-	915	4,186	2,031	76.2	1985
1,799	4,292	71	1,005	7,078	1,480	78.2	1986
2,161	4,533	2,104	1,336	9,829	1,319	80.0	1987
2,629	4,892	2,718	892	10,025	1,164	83.2	1988
3,066	4,951	2,630	1,140	11,841	1,033	85.5	1989
3,601	6,921	3,023	1,590	13,222	797	87.9	1990
4,339	9,515	3,503	1,263	14,078	614	91.0	1991
5,441	13,988	4,581	1,216	14,133	723	93.6	1992
5,990	15,366	5,723	1,502	14,535	742	94.8	1993
6,398	17,264	7,618	1,025	14,663	906	96.4	1994
6,675	18,331	9,213	1,369	16,757	1,051	96.8	1995
6,874	19,760	12,172	1,301	18,481	1,161	97.3	1996
7,201	27,735	14,792	1,351	19,272	1,344	97.6	1997
6,877	29,753	13,838	1,525	22,422	1,526	97.1	1998
7,808	30,455	16,849	1,517	25,766	1,806	97.2	1999
8,644	31,893	18,924	1,402	27,241	2,130	97.2	2000
8,676	32,660	20,787	1,038	28,033	2,456	97.3	2001
9,398	34,415	23,099	1,327	29,776	2,925	97.1	2002
9,141	35,634	24,194	1,722	32,415	3,241	96.9	2003
9,153	37,385	28,351	1,465	32,679	3,977	96.7	2004
9,484	38,626	30,355	1,297	36,695	3,961	96.6	2005
9,689	40,342	32,004	1,305	37,187	4,358	96.5	2006
10,127	44,629	34,663	1,084	30,731	4,828	96.5	2007
10,647	43,819	35,671	1,196	32,456	5,198	96.4	2008
11,079	45,651	33,908	1,213	31,771	5,480	96.4	2009
10,925	46,956	43,008	1,392	31,948	6,064	96.5	2010

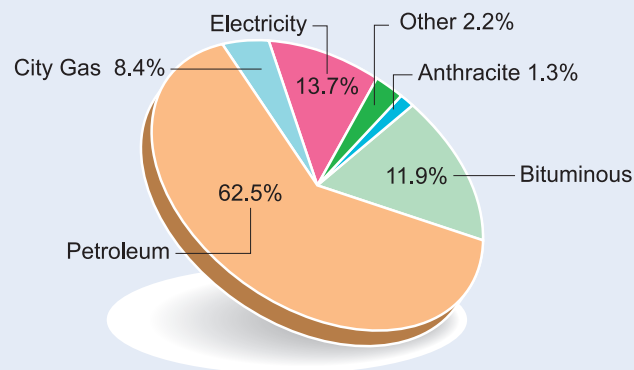
Primary Energy Consumption



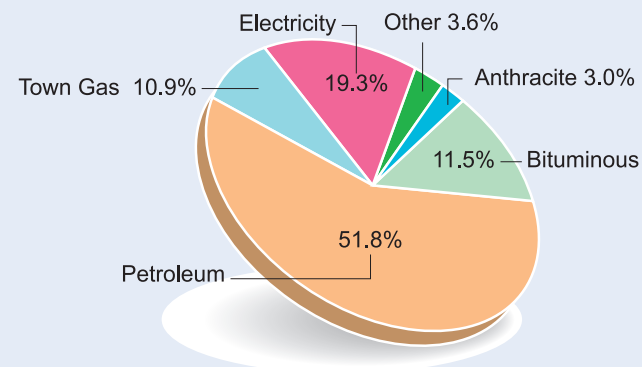
Final Energy Consumption



2000 149.9 Mtoe



2010 193.8 Mtoe



5. Final Energy Consumption

(1,000 toe)

	Total	Growth Rate	Coal			Sub-Total
			Sub-Total	Anthracite	Bituminous	
1970	17,882	12.3	5,593	5,540	53	7,372
1971	18,845	5.4	5,622	5,585	37	8,352
1972	18,991	0.8	5,652	5,630	22	8,488
1973	22,364	17.8	7,273	6,845	428	10,355
1974	22,713	1.6	7,599	7,045	554	10,379
1975	23,424	3.1	7,566	7,047	519	11,004
1976	25,836	10.3	8,392	7,345	1,047	12,576
1977	29,527	14.3	9,325	7,939	1,386	15,115
1978	32,418	9.8	9,700	8,268	1,432	17,324
1979	36,971	14.0	11,426	8,556	2,870	19,965
1980	37,597	1.7	12,426	9,105	3,321	19,823
1981	38,952	3.6	14,477	9,571	4,906	18,913
1982	38,711	-0.6	14,549	8,937	5,612	18,460
1983	41,337	6.8	15,335	9,338	5,997	19,921
1984	44,998	8.9	16,806	10,600	6,206	21,602
1985	46,998	4.4	17,940	11,632	6,308	22,579
1986	50,524	7.5	18,888	12,336	6,552	25,182
1987	55,197	9.2	19,778	12,006	7,772	28,372
1988	61,033	10.6	20,566	11,527	9,039	32,510
1989	65,875	7.9	20,116	10,057	10,059	36,967
1990	75,107	14.0	19,855	9,194	10,661	45,252
1991	83,803	11.6	19,915	7,336	12,579	52,675
1992	94,623	12.9	18,689	5,558	13,131	62,939
1993	104,048	10.0	19,058	4,179	14,879	69,876
1994	112,206	7.8	17,670	2,665	15,005	76,511
1995	121,962	8.7	17,759	2,011	15,748	82,876
1996	132,033	8.3	18,718	1,585	17,133	88,714
1997	144,432	9.4	18,918	1,099	17,819	97,901
1998	132,128	-8.5	18,151	1,269	16,882	86,525
1999	143,060	8.3	18,498	1,444	17,055	92,821
2000	149,852	4.7	19,847	2,011	17,836	93,595
2001	152,950	2.1	20,532	2,656	17,876	93,356
2002	160,451	4.9	21,629	3,069	18,560	96,159
2003	163,995	2.2	22,610	3,530	19,079	96,155
2004	166,009	1.2	22,194	3,406	18,788	95,513
2005	170,854	2.9	22,311	3,874	18,438	96,718
2006	173,584	1.6	22,660	4,313	18,347	97,037
2007	181,455	4.5	24,249	4,583	19,666	100,622
2008	182,576	0.6	26,219	4,994	21,225	97,217
2009	182,066	-0.3	23,895	5,180	18,715	98,369
2010	193,832	6.5	27,968	5,751	22,217	100,381

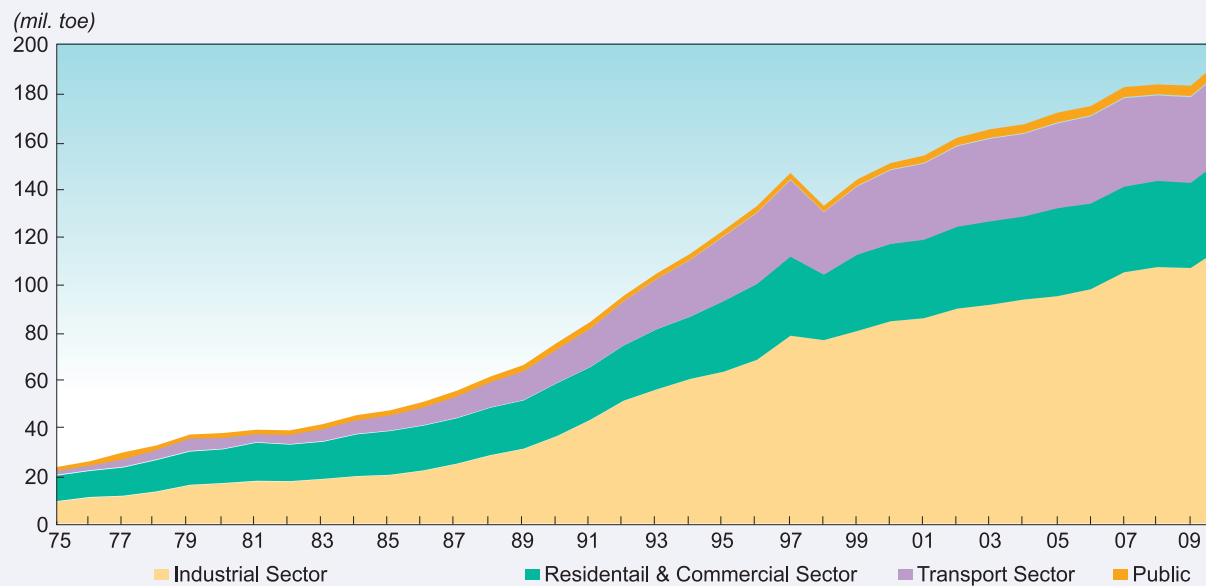
Note : 1) * Include Renewable energy & heat

2) From 2007, are based on the revised calorific value

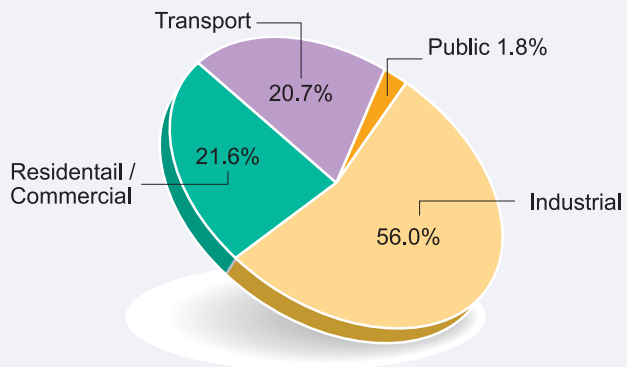
Petroleum			City Gas	Electricity	Others*	
Fuel Oil	LPG	Non-Energy Use				
6,779	45	548	-	666	4,215	1970
7,693	60	599	-	764	4,107	1971
7,832	67	589	1	859	3,990	1972
9,162	97	1,096	1	1,064	3,672	1973
9,002	130	1,247	2	1,208	3,525	1974
9,412	171	1,421	4	1,430	3,420	1975
10,846	162	1,568	6	1,687	3,175	1976
12,940	172	2,003	7	1,964	3,117	1977
14,757	238	2,329	7	2,350	3,038	1978
16,952	338	2,675	8	2,679	2,892	1979
16,372	450	3,001	15	2,815	2,517	1980
15,471	500	2,942	23	3,046	2,492	1981
14,835	735	2,890	28	3,258	2,417	1982
15,589	1,010	3,322	37	3,665	2,378	1983
16,690	1,242	3,670	52	4,046	2,492	1984
17,360	1,424	3,795	84	4,363	2,031	1985
19,211	1,736	4,235	132	4,843	1,480	1986
21,767	2,110	4,495	199	5,519	1,329	1987
25,083	2,561	4,866	339	6,391	1,226	1988
29,106	2,947	4,914	619	7,069	1,104	1989
34,991	3,368	6,893	1,011	8,117	872	1990
39,266	3,894	9,515	1,540	8,976	697	1991
44,139	4,812	13,988	2,219	9,911	866	1992
49,369	5,141	15,366	3,027	10,985	1,102	1993
53,833	5,414	17,264	4,057	12,602	1,366	1994
59,100	5,445	18,331	5,594	14,041	1,692	1995
63,221	5,733	19,760	6,937	15,692	1,972	1996
63,724	6,442	27,735	8,093	17,267	2,253	1997
50,300	6,472	29,753	8,425	16,638	2,387	1998
54,995	7,371	30,455	10,513	18,423	2,806	1999
53,369	8,333	31,893	12,561	20,600	3,248	2000
52,203	8,493	32,660	13,290	22,165	3,606	2001
52,509	9,235	34,415	14,567	23,947	4,148	2002
51,471	9,050	35,634	15,470	25,250	4,511	2003
49,067	9,061	37,385	16,191	26,840	5,271	2004
48,744	9,348	38,626	17,811	28,588	5,426	2005
47,088	9,608	40,342	18,379	29,990	5,517	2006
45,946	10,053	44,623	18,955	31,700	5,930	2007
42,971	10,432	43,814	19,765	33,116	6,259	2008
41,893	10,840	45,636	19,459	33,925	6,418	2009
43,002	10,448	46,931	21,081	37,338	7,064	2010

Final Energy Consumption

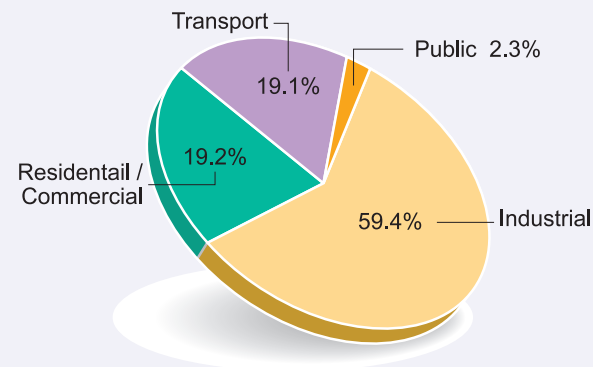
Final Energy Consumption by Sector



2000 149.9 Mtoe



2010 193.8 Mtoe



Final Energy Consumption by Sector



6. Final Energy Consumption by Sector

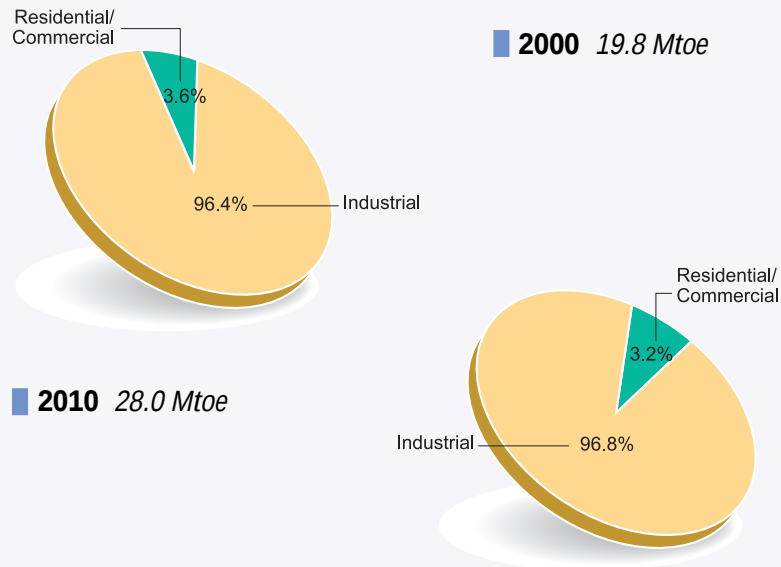
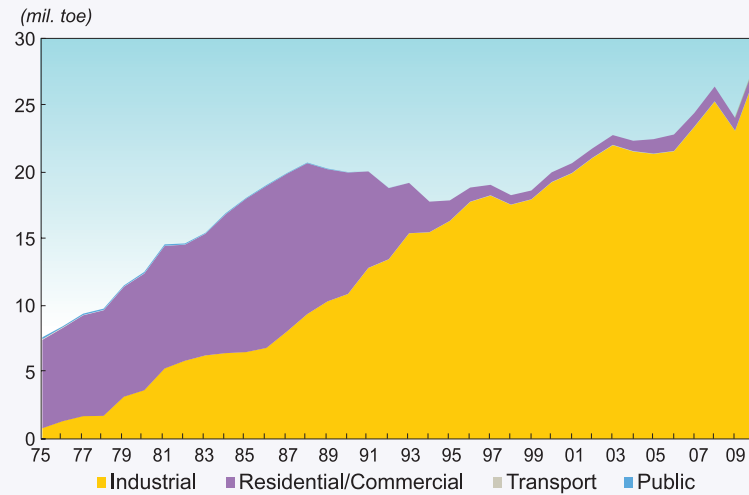
	Final Energy Consumption (1,000 toe)				
	Total	Industrial	Residential / Commercial	Transport	Public
1970	17,882	-	-	-	-
1971	18,845	-	-	-	-
1972	18,991	-	-	-	-
1973	22,364	-	-	-	-
1974	22,713	-	-	-	-
1975	23,424	9,019	10,616	2,227	1,562
1976	25,836	10,760	10,822	2,415	1,839
1977	29,527	11,314	11,713	3,627	2,875
1978	32,418	13,097	13,044	4,405	1,872
1979	36,971	15,854	13,828	5,610	1,678
1980	37,597	16,571	14,034	4,905	2,087
1981	38,952	17,506	15,836	3,721	1,888
1982	38,711	17,354	15,197	4,216	1,945
1983	41,337	18,346	15,438	5,434	2,118
1984	44,998	19,508	17,342	6,007	2,141
1985	46,998	20,015	18,180	6,707	2,096
1986	50,524	21,865	18,605	7,699	2,355
1987	55,197	24,648	18,893	9,275	2,381
1988	61,033	28,200	19,700	10,747	2,385
1989	65,875	30,871	20,080	12,269	2,655
1990	75,107	36,150	21,971	14,173	2,812
1991	83,803	42,914	21,919	16,156	2,813
1992	94,623	50,825	23,008	18,531	2,259
1993	104,048	55,591	25,042	21,119	2,296
1994	112,206	59,908	25,968	23,860	2,469
1995	121,962	62,946	29,451	27,148	2,416
1996	132,033	67,868	31,713	29,792	2,659
1997	145,773	77,908	33,071	32,079	2,715
1998	132,128	76,039	27,418	26,184	2,487
1999	143,060	79,858	31,929	28,625	2,648
2000	149,852	83,912	32,370	30,945	2,625
2001	152,950	85,158	32,893	31,909	2,989
2002	160,451	89,198	34,299	33,763	3,191
2003	163,995	90,805	34,965	34,632	3,593
2004	166,009	92,992	34,807	34,615	3,595
2005	170,854	94,366	36,861	35,559	4,068
2006	173,584	97,235	35,986	36,527	3,836
2007	181,455	104,327	35,916	37,068	4,144
2008	182,576	106,458	36,225	35,793	4,100
2009	182,066	106,119	35,722	35,930	4,295
2010	193,832	115,155	37,256	36,938	4,483

Note : From 2007, are based on the revised calorific value

	Final Energy Consumption (%)				
	Total	Industrial	Residential / Commercial	Transport	Public
100.0	-	-	-	-	1970
100.0	-	-	-	-	1971
100.0	-	-	-	-	1972
100.0	-	-	-	-	1973
100.0	-	-	-	-	1974
100.0	38.5	45.3	9.5	6.7	1975
100.0	41.6	41.9	9.3	7.1	1976
100.0	38.3	39.7	12.3	9.7	1977
100.0	40.4	40.2	13.6	5.8	1978
100.0	42.9	37.4	15.2	4.5	1979
100.0	44.1	37.3	13.0	5.6	1980
100.0	44.9	40.7	9.6	4.8	1981
100.0	44.8	39.3	10.9	5.0	1982
100.0	44.4	37.3	13.1	5.1	1983
100.0	43.4	38.5	13.3	4.8	1984
100.0	42.6	38.7	14.3	4.5	1985
100.0	43.3	36.8	15.2	4.7	1986
100.0	44.7	34.2	16.8	4.3	1987
100.0	46.2	32.3	17.6	3.9	1988
100.0	46.9	30.5	18.6	4.0	1989
100.0	48.1	29.3	18.9	3.7	1990
100.0	51.2	26.2	19.3	3.4	1991
100.0	53.7	24.3	19.6	2.4	1992
100.0	53.4	24.1	20.3	2.2	1993
100.0	53.4	23.1	21.3	2.2	1994
100.0	51.6	24.1	22.3	2.0	1995
100.0	51.4	24.0	22.6	2.0	1996
100.0	53.4	22.7	22.0	1.9	1997
100.0	57.5	20.8	19.8	1.9	1998
100.0	55.8	22.3	20.0	1.9	1999
100.0	56.0	21.6	20.7	1.8	2000
100.0	55.7	21.5	20.9	2.0	2001
100.0	55.6	21.4	21.0	2.0	2002
100.0	55.4	21.3	21.1	2.2	2003
100.0	56.0	21.0	20.9	2.2	2004
100.0	55.2	21.6	20.8	2.4	2005
100.0	56.0	20.7	21.0	2.2	2006
100.0	57.5	19.8	20.4	2.3	2007
100.0	58.3	19.8	19.6	2.2	2008
100.0	58.3	19.6	19.7	2.4	2009
100.0	63.2	20.5	20.3	2.5	2010

Final Energy
Consumption
by Sector

■ Coal



6-1. Coal

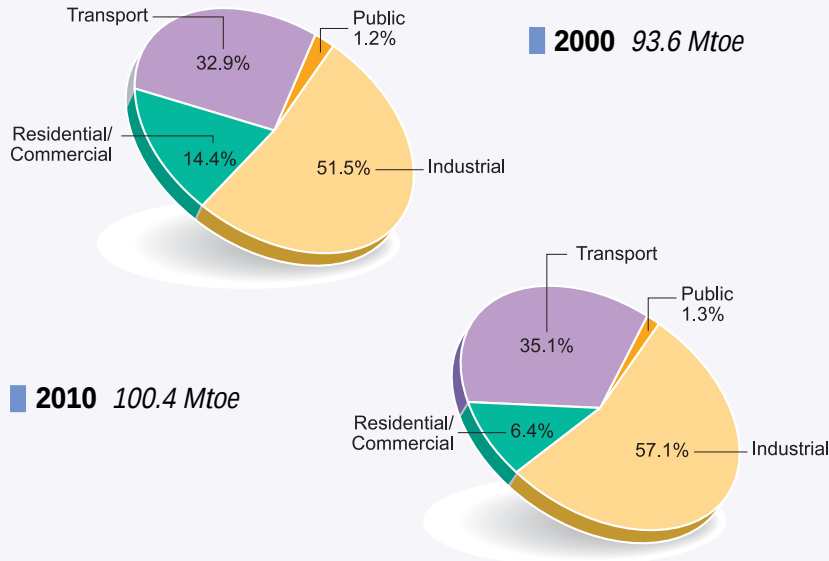
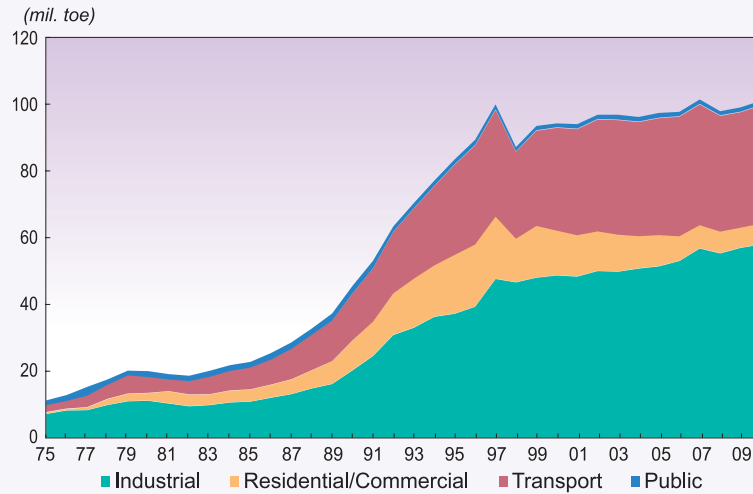
(1,000 toe)

	Final Energy Consumption		Total	Industry	Residential & Commercial	Transport	Public
		%					
1970	17,882	-	-	-	-	-	-
1971	18,845	-	-	-	-	-	-
1972	18,991	-	-	-	-	-	-
1973	22,364	-	-	-	-	-	-
1974	22,713	-	-	-	-	-	-
1975	23,424	32.3	7,566	830	6,572	20	144
1976	25,836	32.5	8,392	1,354	6,935	13	90
1977	29,527	31.6	9,325	1,730	7,492	4	99
1978	32,418	29.9	9,700	1,754	7,840	3	103
1979	36,971	30.9	11,426	3,172	8,172	1	81
1980	37,597	33.0	12,424	3,653	8,670	-	101
1981	38,952	37.2	14,478	5,276	9,105	2	95
1982	38,711	37.6	14,549	5,844	8,629	2	74
1983	41,337	37.1	15,335	6,240	9,040	-	55
1984	44,998	37.3	16,806	6,412	10,323	-	71
1985	46,998	38.2	17,939	6,490	11,399	-	50
1986	50,524	37.4	18,887	6,800	12,033	-	54
1987	55,197	35.8	19,778	8,015	11,721	-	42
1988	61,033	33.7	20,565	9,315	11,205	-	45
1989	65,875	30.5	20,116	10,263	9,811	-	42
1990	75,107	26.4	19,854	10,806	9,027	-	21
1991	83,803	23.8	19,915	12,745	7,170	-	-
1992	94,623	19.7	18,688	13,388	5,288	-	12
1993	104,048	18.3	19,058	15,327	3,731	-	-
1994	112,206	15.7	17,670	15,403	2,267	-	-
1995	121,962	14.6	17,758	16,244	1,514	-	-
1996	132,033	14.2	18,718	17,668	1,050	-	-
1997	145,773	13.0	18,918	18,139	779	-	-
1998	132,128	13.7	18,151	17,448	703	-	-
1999	143,060	12.9	18,498	17,845	653	-	-
2000	149,852	13.2	19,847	19,129	718	-	-
2001	152,950	13.4	20,532	19,806	727	-	-
2002	160,451	13.5	21,629	20,932	697	-	-
2003	163,995	13.8	22,610	21,888	722	-	-
2004	166,009	13.4	22,194	21,420	775	-	-
2005	170,854	13.1	22,311	21,237	1,074	-	-
2006	173,584	13.1	22,660	21,434	1,226	-	-
2007	181,455	13.4	24,249	23,236	1,014	-	-
2008	182,576	14.4	26,219	25,131	1,088	-	-
2009	182,066	13.1	23,895	22,955	940	-	-
2010	193,832	14.4	27,968	27,068	901	-	-

Note : From 2007, are based on the revised calorific value

Final Energy
Consumption
by Sector

Petroleum



6-2. Petroleum

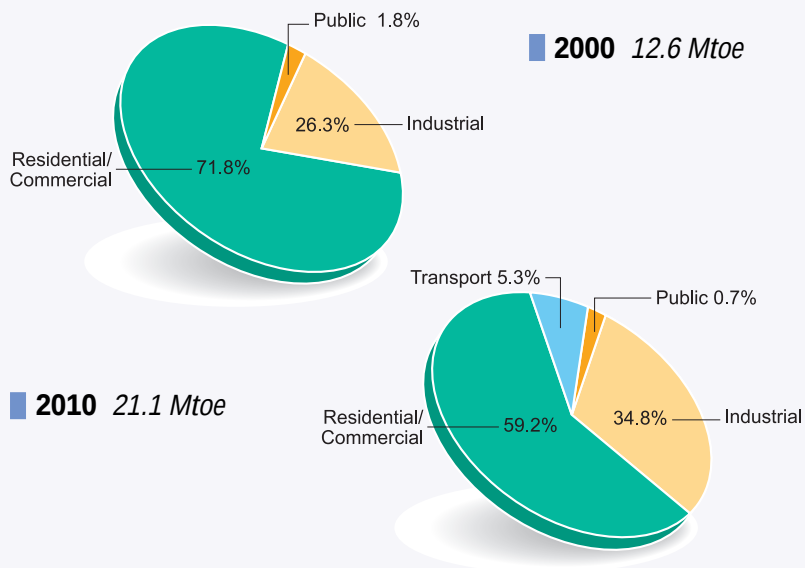
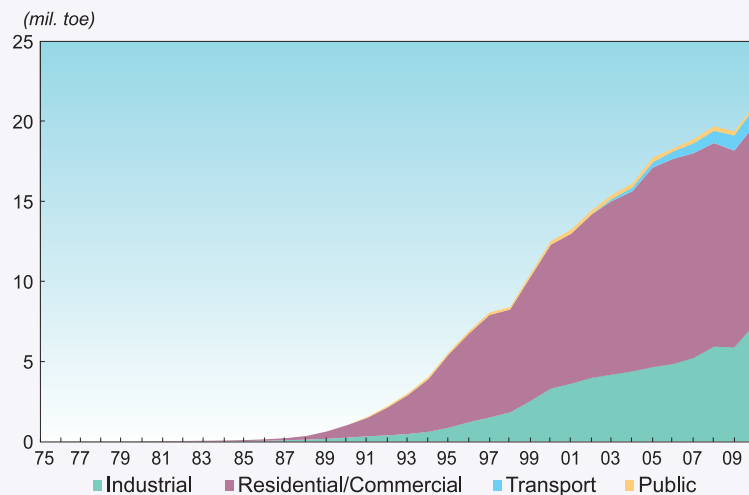
(1,000 toe)

	Final Energy Consumption		Total	Industry	Residential & Commercial	Transport	Public
		%					
1970	17,882	-	-	-	-	-	-
1971	18,845	-	-	-	-	-	-
1972	18,991	-	-	-	-	-	-
1973	22,364	-	-	-	-	-	-
1974	22,713	-	-	-	-	-	-
1975	23,424	47.4	11,100	7,035	354	2,273	1,438
1976	25,836	49.1	12,694	8,063	396	2,487	1,748
1977	29,527	51.2	15,116	8,161	728	3,597	2,630
1978	32,418	53.4	17,324	9,674	1,677	4,371	1,602
1979	36,971	54.0	19,965	10,812	2,162	5,576	1,415
1980	37,597	52.7	19,826	10,948	2,222	4,869	1,787
1981	38,952	48.6	18,913	10,141	3,525	3,680	1,567
1982	38,711	47.7	18,459	9,322	3,344	4,173	1,620
1983	41,337	48.2	19,921	9,671	3,073	5,390	1,787
1984	44,998	48.0	21,602	10,444	3,438	5,955	1,765
1985	46,998	48.0	22,579	10,697	3,525	6,645	1,712
1986	50,524	49.8	25,182	11,857	3,747	7,624	1,954
1987	55,197	51.4	28,372	12,915	4,284	9,201	1,972
1988	61,033	53.3	32,511	14,600	5,331	10,667	1,913
1989	65,875	56.1	36,968	15,936	6,694	12,187	2,151
1990	75,107	60.3	45,252	20,014	8,876	14,086	2,276
1991	83,803	62.9	52,675	24,251	10,161	16,062	2,201
1992	94,623	66.5	62,939	30,514	12,405	18,430	1,590
1993	104,048	67.2	69,875	32,654	14,669	21,011	1,541
1994	112,206	68.2	76,511	35,881	15,375	23,736	1,519
1995	121,962	68.0	82,876	36,810	17,632	27,010	1,424
1996	132,033	67.2	88,714	38,913	18,623	29,648	1,530
1997	145,773	68.1	99,241	47,141	18,719	31,928	1,453
1998	132,128	65.5	86,526	46,133	13,130	26,048	1,215
1999	143,060	64.9	92,821	47,521	15,554	28,476	1,270
2000	149,852	62.5	93,596	48,193	13,492	30,770	1,140
2001	152,950	61.0	93,356	47,848	12,474	31,708	1,327
2002	160,451	59.9	96,159	49,499	11,955	33,488	1,217
2003	163,995	58.6	96,155	49,304	11,156	34,286	1,408
2004	166,009	57.5	95,513	50,236	9,773	34,160	1,343
2005	170,854	56.6	96,718	50,905	9,437	34,983	1,393
2006	173,584	55.9	97,037	52,474	7,513	35,780	1,270
2007	181,455	55.5	100,622	56,150	7,050	36,149	1,274
2008	182,576	53.2	97,217	54,745	6,654	34,642	1,175
2009	182,066	54.0	98,369	56,391	6,187	34,529	1,263
2010	193,832	51.8	100,381	57,351	6,450	35,282	1,299

Note : From 2007, are based on the revised calorific value

Final Energy
Consumption
by Sector

Town Gas



6-3. Town Gas

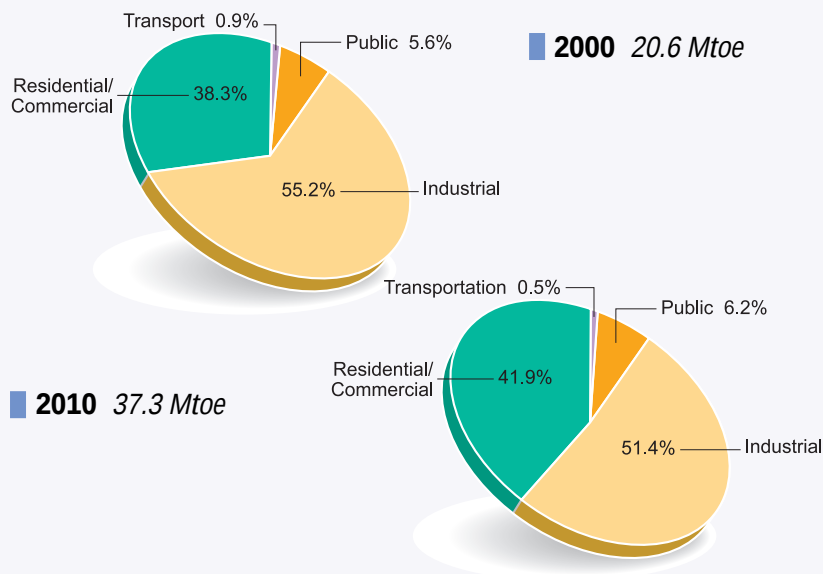
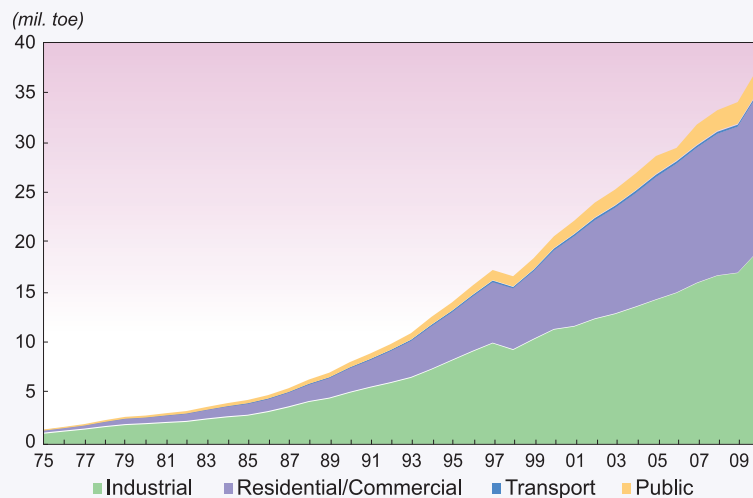
(1,000 toe)

	Final Energy Consumption		Total	Industry	Residential & Commercial	Transport	Public
		%					
1970	17,882	-	-	-	-	-	-
1971	18,845	-	-	-	-	-	-
1972	18,991	-	-	-	-	-	-
1973	22,364	-	-	-	-	-	-
1974	22,713	-	-	-	-	-	-
1975	23,424	0.0	4	-	4	-	-
1976	25,836	0.0	6	-	6	-	-
1977	29,527	0.0	7	-	7	-	-
1978	32,418	0.0	7	-	7	-	-
1979	36,971	0.0	8	-	8	-	-
1980	37,597	0.0	15	-	15	-	-
1981	38,952	0.1	23	-	23	-	-
1982	38,711	0.1	28	-	28	-	-
1983	41,337	0.1	37	-	37	-	-
1984	44,998	0.1	53	1	52	-	-
1985	46,998	0.2	84	15	69	-	-
1986	50,524	0.3	132	40	92	-	-
1987	55,197	0.4	199	75	124	-	-
1988	61,033	0.6	339	110	229	-	-
1989	65,875	0.9	619	158	461	-	-
1990	75,107	1.3	1,012	235	777	-	-
1991	83,803	1.8	1,541	313	1,160	-	68
1992	94,623	2.3	2,219	377	1,760	-	82
1993	104,048	2.9	3,027	460	2,450	-	117
1994	112,206	3.6	4,056	600	3,313	-	143
1995	121,962	4.6	5,595	863	4,607	-	125
1996	132,033	5.3	6,937	1,196	5,588	-	153
1997	145,773	5.6	8,093	1,496	6,436	-	161
1998	132,128	6.4	8,426	1,812	6,454	-	160
1999	143,060	7.3	10,513	2,530	7,784	-	199
2000	149,852	8.4	12,561	3,308	9,024	-	229
2001	152,950	8.7	13,290	3,612	9,412	7	259
2002	160,451	9.1	14,567	3,984	10,241	80	262
2003	163,995	9.4	15,470	4,177	10,889	146	259
2004	166,009	9.8	16,191	4,382	11,293	237	279
2005	170,854	10.4	17,811	4,656	12,503	339	313
2006	173,584	10.6	18,379	4,847	12,858	475	200
2007	181,455	10.4	18,955	5,225	12,831	615	284
2008	182,576	10.8	19,765	5,933	12,763	777	292
2009	182,066	10.7	19,459	5,891	12,332	960	277
2010	193,832	10.9	21,081	7,329	12,489	1,112	152

Note : From 2007, are based on the revised calorific value



Electricity



6-4. Electricity

(1,000 toe)

	Final Energy Consumption		Total	Industrial	Residential & Commercial	Transportation	Public & Others
		%					
1970	17,882	3.7	665	467	120	0	78
1971	18,845	4.1	764	516	158	0	90
1972	18,991	4.5	859	573	191	0	95
1973	22,364	4.8	1,064	738	231	0	95
1974	22,713	5.3	1,208	857	246	0	105
1975	23,424	6.1	1,431	1,018	266	22	125
1976	25,836	6.5	1,688	1,223	310	21	134
1977	29,527	6.7	1,964	1,423	369	26	146
1978	32,418	7.2	2,350	1,670	482	31	167
1979	36,971	7.2	2,679	1,870	594	33	182
1980	37,597	7.5	2,815	1,971	611	34	199
1981	38,952	7.8	3,046	2,089	691	40	226
1982	38,711	8.4	3,258	2,188	779	40	251
1983	41,337	8.9	3,665	2,435	910	44	276
1984	44,998	9.0	4,046	2,651	1,038	52	305
1985	46,998	9.3	4,362	2,812	1,155	62	333
1986	50,524	9.6	4,844	3,168	1,253	76	347
1987	55,197	10.0	5,519	3,643	1,435	74	367
1988	61,033	10.5	6,391	4,175	1,710	80	426
1989	65,875	10.7	7,069	4,514	2,011	83	461
1990	75,107	10.8	8,117	5,095	2,421	87	514
1991	83,803	10.7	8,976	5,606	2,732	94	544
1992	94,623	10.5	9,910	6,063	3,174	101	572
1993	104,048	10.6	10,985	6,581	3,663	108	633
1994	112,206	11.2	12,602	7,398	4,321	124	759
1995	121,962	11.5	14,040	8,293	4,801	138	808
1996	132,033	11.9	15,692	9,179	5,464	145	904
1997	145,773	11.8	17,267	10,009	6,090	151	1,017
1998	132,128	12.6	16,639	9,359	6,122	136	1,022
1999	143,060	12.9	18,422	10,394	6,793	149	1,086
2000	149,852	13.7	20,600	11,374	7,891	175	1,160
2001	152,950	14.5	22,165	11,678	9,005	194	1,288
2002	160,451	14.9	23,947	12,423	9,859	195	1,470
2003	163,995	15.4	25,250	12,933	10,585	201	1,531
2004	166,009	16.2	26,840	13,617	11,352	213	1,658
2005	170,854	16.7	28,588	14,346	12,233	224	1,785
2006	173,584	17.3	29,990	15,021	12,883	218	1,868
2007	181,455	17.5	31,700	16,018	13,513	209	1,960
2008	182,576	18.1	33,116	16,738	14,143	196	2,039
2009	182,066	18.6	33,925	17,006	14,594	187	2,138
2010	193,832	19.3	37,338	19,193	15,636	188	2,321

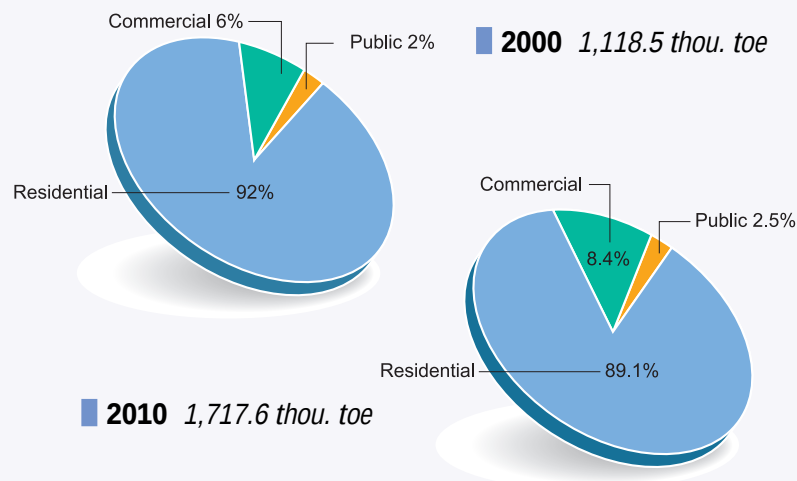
Note : From 2007, are based on the revised calorific value



6-5. Heat Energy

(1,000 toe)

	Production	Sales			
			Residential	Commercial	Public
1987	14.0	10.4	10.1	0.4	-
1988	70.3	55.0	51.5	2.9	0.6
1989	75.7	70.9	65.1	5.1	0.7
1990	79.3	75.4	68.4	6.1	0.9
1991	83.8	79.8	71.7	7.2	0.9
1992	163.0	142.7	134.2	7.3	1.2
1993	390.7	359.9	345.3	10.7	3.9
1994	494.7	459.8	438.9	14.5	6.4
1995	688.7	641.4	610.1	21.5	9.8
1996	847.2	810.8	761.5	34.0	15.3
1997	940.6	908.8	850.4	41.6	16.8
1998	907.4	861.4	806.5	41.6	13.3
1999	1,047.3	999.5	928.0	53.9	17.6
2000	1,166.1	1,118.5	1,029.9	66.5	22.1
2001	1,201.3	1,150.0	1,049.5	75.2	25.3
2002	1,282.8	1,223.4	1,118.2	77.7	27.5
2003	1,345.4	1,300.5	1,179.9	88.9	31.7
2004	1,353.4	1,343.1	1,204.1	107.8	31.2
2005	1,507.9	1,530.0	1,358.1	132.8	39.1
2006	1,579.4	1,425.0	1,272.3	118.4	34.3
2007	1,604.2	1,437.9	1,284.9	115.7	37.3
2008	1,589.7	1,512.2	1,351.5	124.9	35.8
2009	1,635.8	1,550.5	1,388.4	120.3	41.8
2010	1,785.8	1,717.6	1,530.6	144.5	42.5

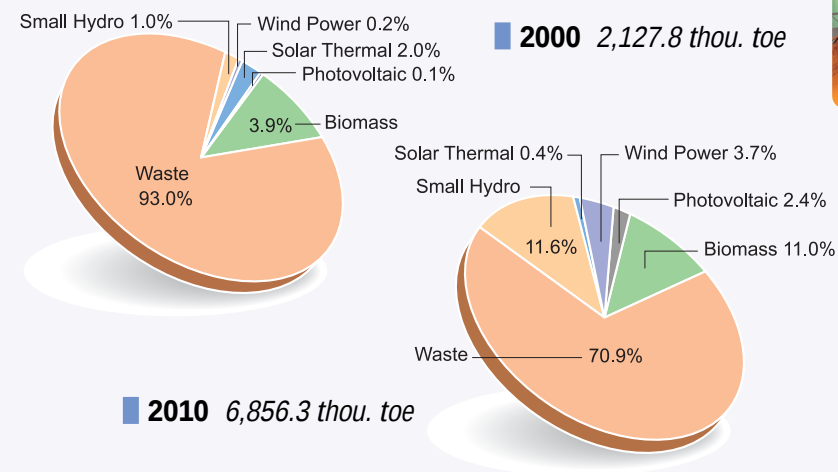


6-6. Renewable Energy

(1,000 toe)

	Total	Solar	Photovoltaic	Biomass	Waste	Hydro	Others*
1991	412.6	11.4	1.3	62.6	318.7	18.6	0.0
1992	552.4	12.6	1.8	57.3	461.2	19.5	0.1
1993	649.6	14.1	2.0	58.8	545.6	28.8	0.3
1994	777.9	16.8	2.2	57.2	678.8	22.5	0.3
1995	908.5	22.1	2.2	59.2	804.5	20.4	0.1
1996	1,160.0	32.0	0.6	50.4	1,056.4	20.3	0.1
1997	1,419.0	45.5	0.8	67.6	1,282.5	22.5	0.2
1998	1,712.9	44.0	0.9	63.2	1,577.2	27.2	0.4
1999	1,897.3	42.1	1.1	64.9	1,760.5	27.1	1.5
2000	2,127.8	41.7	1.3	82.0	1,977.7	20.5	4.7
2001	2,453.3	37.2	1.5	82.5	2,308.0	20.9	3.1
2002	2,917.3	34.8	1.8	116.8	2,732.5	27.6	3.8
2003	4,437.4	32.9	1.9	131.1	3,039.3	1,225.6	6.6
2004	4,582.4	36.1	2.5	135.0	3,313.3	1,082.3	13.2
2005	4,879.2	34.7	3.6	181.3	3,705.5	918.5	35.6
2006	5,225.2	33.0	7.8	274.5	3,975.3	867.1	67.6
2007	5,608.8	29.4	15.3	370.2	4,319.3	780.9	93.7
2008	5,858.5	28.0	61.1	426.8	4,568.6	660.1	113.8
2009	6,086.2	30.7	121.7	580.4	4,558.1	606.6	188.7
2010	6,856.3	29.3	166.2	754.6	4,862.3	792.3	251.4

Note : 1) * includes wind power, geothermal
 2) From 2007, are based on the revised calorific value



Final Energy Consumption by Sector



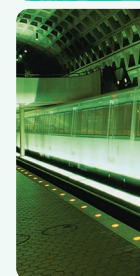
2000

	Coal (1000mt)	Petroleum (1000Bbl)	L N G (1000mt)	Town Gas (10 ³ m ³)
Domestic Production	4,150	-	-	-
Imports	61,638	1,116,062	14,578	-
Exports	-	-306,293	-	-
Intl* Bunkers	-	-46,468	-	-
Stock Changes(+/-)	-37	-6,900	-52	-
Statistical Difference	774	-13,844	31	-
Primary Consumption	66,525	742,557	14,557	-
Transformation	-36,155	-43,848	-14,557	11,963
Electric Generation	-36,155	-38,528	-4,353	-103
District Heating	-	-2,114	-335	-115
Gas Manufacturing	-	-3,205	-9,528	11,924
Own Use & Loss	-	-	-340	257
Final Consumption	30,370	698,709	0	11,963
Industry	29,179	362,034	0	3,151
Agri. Fishery	-	24,905	-	12
Mining	-	362	-	2
Manufacturing	29,179	323,119	0	3,137
Food. Tobacco	45	5,790	-	168
Textile & Apparel	145	10,526	-	407
Wood & Wood Prod.	1	539	-	2
Pulp & Publications	-	7,790	-	63
Petro. Chemical	268	258,457	-	304
Non-Metallic	5,366	7,665	-	240
Iron & Steel	20,194	6,171	0	616
Non-Ferrous	-	1,349	-	-
Fabricated Metal	-	10,441	-	687
Other Manufact.	3,160	10,339	-	650
Other Energy	-	4,052	-	-
Construction	-	13,648	-	0
Transportation	-	223,453	-	-
Rail	-	2,307	-	-
Land	-	175,116	-	-
Water	-	30,315	-	-
Air	-	15,715	-	-
Residential	1,192	73,045	-	7,003
Commercial	-	32,103	-	1,591
Public	-	8,074	-	218

Note : 1) * Includes firewood, new & renewable energy.

2) Domestic anthracite consumption for the commercial sector is included in the residential sector.

Hydro (GWh)	Nuclear (GWh)	Electric (GWh)	Heat (1000toe)	Other* (1000mt)	Total (1000toe)
5,610	108,964	-	-	2,130	32,641
-	-	-	-	-	213,810
-	-	-	-	-	-43,577
-	-	-	-	-	-7,163
-	-	-	-	-	-1,057
-	-	-	-	-	-1,767
5,610	108,964	-	-	2,130	192,887
-5,610	-108,964	239,535	1,119	-	-43,036
-5,610	-108,964	266,400	809	-	-39,797
-	-	-	357	-	-530
-	-	-	-	-	-178
-	-	-26,864	-48	-	-2,530
-	-	239,535	1,119	2,130	149,852
-	-	132,260	-	1,908	83,912
-	-	5,306	-	-	4,069
-	-	1,003	-	-	142
-	-	125,952	-	1,908	77,583
-	-	6,149	-	-	1,612
-	-	15,497	-	-	3,504
-	-	1,137	-	-	184
-	-	8,843	-	-	2,042
-	-	26,899	-	-	35,641
-	-	8,981	-	-	5,672
-	-	23,751	-	-	16,894
-	-	-	-	-	185
-	-	32,997	-	-	5,108
-	-	1,697	-	1,908	6,156
-	-	-	-	-	586
-	-	-	-	-	2,118
-	-	2,037	-	-	30,945
-	-	-	-	-	337
-	-	-	-	-	23,554
-	-	-	-	-	4,705
-	-	-	-	-	2,174
-	-	37,102	1,030	115	21,401
-	-	54,651	66	33	10,969
-	-	13,486	22	74	2,625

Energy
Balance

2000

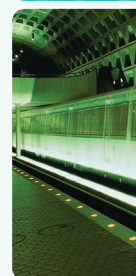
	Coal	Petroleum	L N G	Town Gas
Domestic Production	1,868	-	-	-
Imports	40,559	154,300	18,951	-
Exports	-	-43,577	-	-
Intl* Bunkers	-	-7,163	-	-
Stock Changes(+/-)	-16	-973	-68	-
Statistical Difference	501	-2,308	40	-
Primary Consumption	42,911	100,279	18,924	-
Transformation	-23,064	-6,684	-18,924	12,561
Electric Generation	-23,064	-6,042	-5,659	-108
District Heating	-	-331	-436	-120
Gas Manufacturing	-	-311	-12,387	12,520
Own Use & Loss	-	-	-442	269
Final Consumption	19,847	93,596	0	12,561
Industry	19,129	48,193	0	3,308
Agri. Fishery	-	3,600	-	13
Mining	-	54	-	2
Manufacturing	19,129	42,421	0	3,294
Food. Tobacco	30	877	-	176
Textile & Apparel	96	1,648	-	428
Wood & Wood Prod.	1	83	-	2
Pulp & Publications	-	1,216	-	66
Petro. Chemical	177	32,832	-	319
Non-Metallic	3,538	1,110	-	252
Iron & Steel	13,282	923	0	647
Non-Ferrous	-	185	-	-
Fabricated Metal	-	1,549	-	721
Other Manufact.	2,007	1,414	-	682
Other Energy	-	586	-	-
Construction	-	2,118	-	0
Transportation	-	30,770	-	-
Rail	-	337	-	-
Land	-	23,554	-	-
Water	-	4,705	-	-
Air	-	2,174	-	-
Residential	718	8,994	-	7,353
Commercial	-	4,499	-	1,671
Public	-	1,140	-	229

Note : 1) * Includes firewood, new & renewable energy.

2) Domestic anthracite consumption for the commercial sector is included in the residential sector.

(1,000 toe)

Hydro	Nuclear	Electric	Heat	Other*	Total
1,402	27,241	-	-	2,130	32,641
-	-	-	-	-	213,810
-	-	-	-	-	-43,577
-	-	-	-	-	-7,163
-	-	-	-	-	-1,057
-	-	-	-	-	-1,767
1,402	27,241	-	-	2,130	192,887
-1,402	-27,241	20,600	1,119	-	-43,036
-1,402	-27,241	22,910	809	-	-39,797
-	-	-	357	-	-530
-	-	-	-	-	-178
-	-	-2,310	-48	-	-2,530
-	-	20,600	1,119	2,130	149,852
-	-	11,374	-	1,908	83,912
-	-	456	-	-	4,069
-	-	86	-	-	142
-	-	10,832	-	1,908	77,583
-	-	529	-	-	1,612
-	-	1,333	-	-	3,504
-	-	98	-	-	184
-	-	760	-	-	2,042
-	-	2,313	-	-	35,641
-	-	772	-	-	5,672
-	-	2,043	-	-	16,894
-	-	-	-	-	185
-	-	2,838	-	-	5,108
-	-	146	-	1,908	6,156
-	-	-	-	-	586
-	-	-	-	-	2,118
-	-	175	-	-	30,945
-	-	-	-	-	337
-	-	-	-	-	23,554
-	-	-	-	-	4,705
-	-	-	-	-	2,174
-	-	3,191	1,030	115	21,401
-	-	4,700	66	33	10,969
-	-	1,160	22	74	2,625

Energy
Balance

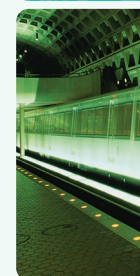
2010

	Coal (1000mt)	Petroleum (1000Bbl)	L N G (1000mt)	Town Gas (10 ⁶ m ³)
Domestic Production	2,084	-	415	-
Imports	113,502	1,215,775	32,603	-
Exports	-	-341,784	-	-
Intl* Bunkers	-	-49,341	-	-
Stock Changes(+/-)	385	-3,830	-919	-
Statistical Difference	3,351	-26,541	984	-
Primary Consumption	119,321	794,278	33,083	-
Transformation	-77,513	-26,892	-33,083	19,982
Electric Generation	-77,513	-19,967	-14,648	-874
District Heating	-	-2,021	-651	-1,097
Gas Manufacturing	-	-4,904	-17,571	21,118
Own Use & Loss	-	-	-213	835
Final Consumption	41,808	767,386	-	19,982
Industry	39,949	442,511	-	6,947
Agri. Fishery	-	16,348	-	4
Mining	-	662	-	0
Manufacturing	32,544	408,260	-	6,942
Food, Tobacco	50	2,281	-	567
Textile & Apparel	156	2,569	-	512
Wood & Wood Prod.	-	244	-	50
Pulp & Publications	-	2,551	-	288
Petro. Chemical	208	371,430	-	1,563
Non-Metallic	4,564	6,045	-	432
Iron & Steel	25,502	2,011	-	1,384
Non-Ferrous	-	648	-	195
Fabricated Metal	-	3,939	-	1,293
Other Manufact.	2,063	10,122	-	658
Other Energy	-	6,420	-	-
Construction	-	17,241	-	0
Transportation	-	263,945	-	1,054
Rail	-	1,355	-	-
Land	-	216,601	-	1,054
Water	-	21,174	-	-
Air	-	24,815	-	-
Residential	1,859	31,674	-	9,334
Commercial	-	19,978	-	2,504
Public	-	9,279	-	144

Note : 1) * Includes firewood, new & renewable energy.

2) Domestic anthracite consumption for the commercial sector is included in the residential sector.

Hydro (GWh)	Nuclear (GWh)	Electric (GWh)	Heat (1000toe)	Other* (1000mt)	Total (1000toe)
6,472	148,596	-	-	6,064	40,912
-	-	-	-	-	279,649
-	-	-	-	-	-48,224
-	-	-	-	-	-7,569
-	-	-	-	-	-1,532
-	-	-	-	-	-627
6,472	148,596	-	-	6,064	262,609
-6,472	-148,596	434,160	1,718	718	-68,777
-6,472	-148,596	474,552	1,073	718	-63,191
-	-	-	713	-	-1,609
-	-	-	-	-	-1,040
-	-	-40,392	-68	-	-2,937
-	-	434,160	1,718	5,346	193,832
-	-	223,171	-	4,215	115,155
-	-	10,042	-	-	3,201
-	-	1,683	-	-	240
-	-	211,447	-	-	100,026
-	-	8,737	-	-	1,713
-	-	12,362	-	-	2,095
-	-	1,754	-	-	240
-	-	10,019	-	-	1,560
-	-	43,213	-	-	52,692
-	-	11,620	-	-	5,176
-	-	41,834	-	-	23,187
-	-	-	-	-	294
-	-	79,490	-	-	8,751
-	-	2,418	-	-	3,375
-	-	-	-	-	941
-	-	-	-	-	2,624
-	-	2,191	-	357	36,938
-	-	2,191	-	-	383
-	-	-	-	357	29,820
-	-	-	-	-	3,282
-	-	-	-	-	3,453
-	-	61,194	1,531	72	21,666
-	-	120,619	145	33	15,589
-	-	26,985	42	669	4,483

Energy
Balance

2010

	Coal	Petroleum	L N G	Town Gas
Domestic Production	969	-	539	-
Imports	72,576	164,689	42,384	-
Exports	-	-48,224	-	-
Intl* Bunkers	-	-7,569	-	-
Stock Changes(+/-)	448	-525	-1,194	-
Statistical Difference	1,903	-4,070	1,279	-
Primary Consumption	75,896	104,301	43,008	-
Transformation	-47,928	-3,920	-43,008	21,081
Electric Generation	-47,928	-3,125	-19,043	-922
District Heating	-	-317	-847	-1,157
Gas Manufacturing	-	-478	-22,842	22,280
Own Use & Loss	-	-	-276	881
Final Consumption	27,968	100,381	-	21,081
Industry	27,068	57,351	-	7,329
Agri. Fishery	-	2,333	-	5
Mining	-	95	-	0
Manufacturing	22,217	52,300	-	7,324
Food. Tobacco	31	333	-	598
Textile & Apparel	97	395	-	540
Wood & Wood Prod.	-	36	-	53
Pulp & Publications	-	395	-	304
Petro. Chemical	129	47,198	-	1,648
Non-Metallic	2,830	891	-	456
Iron & Steel	17,851	278	-	1,460
Non-Ferrous	-	89	-	206
Fabricated Metal	-	551	-	1,364
Other Manufact.	1,279	1,193	-	694
Other Energy	-	941	-	-
Construction	-	2,623	-	0
Transportation	-	35,282	-	1,112
Rail	-	195	-	-
Land	-	28,352	-	1,112
Water	-	3,282	-	-
Air	-	3,453	-	-
Residential	901	4,053	-	9,847
Commercial	-	2,397	-	2,642
Public	-	1,299	-	152

Note : 1) * Includes firewood, new & renewable energy.

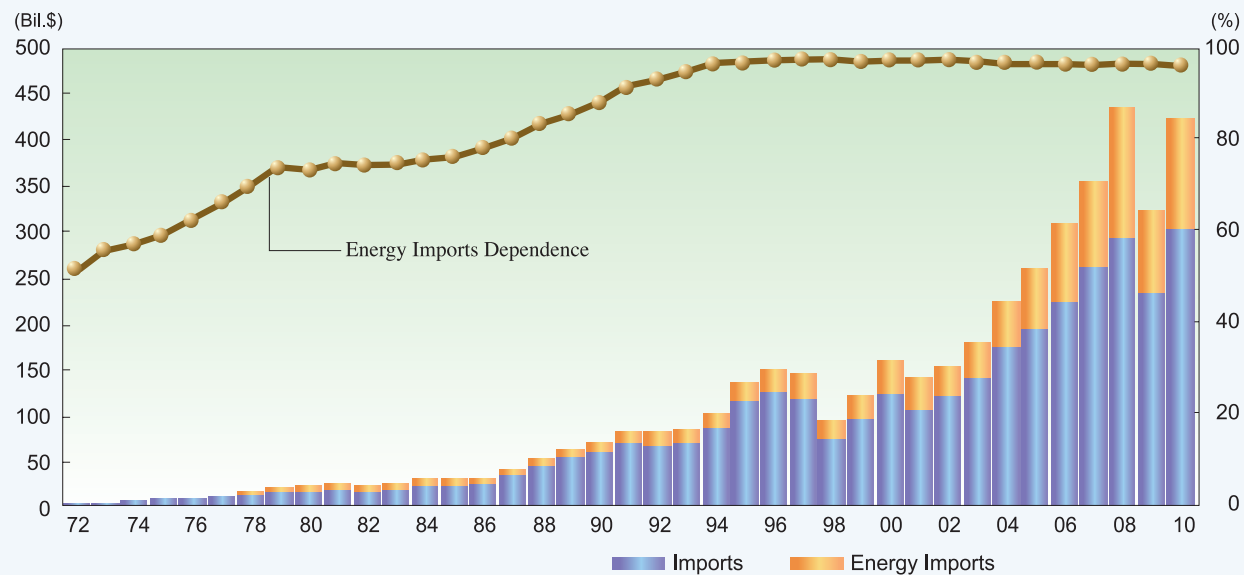
2) Domestic anthracite consumption for the commercial sector is included in the residential sector.

(1,000 toe)

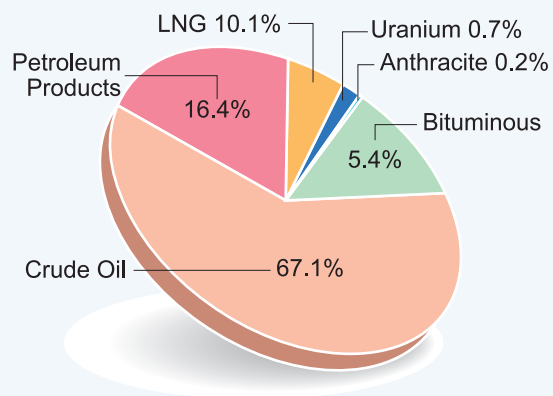
Hydro	Nuclear	Electric	Heat	Other*	Total
1,391	31,948	-	-	6,064	40,912
-	-	-	-	-	279,649
-	-	-	-	-	-48,224
-	-	-	-	-	-7,569
-	-	-	-	-	-1,272
-	-	-	-	-	-888
1,391	31,948	-	-	6,064	262,609
-1,391	-31,948	37,338	1,718	- 718	-68,777
-1,391	-31,948	40,811	1,073	- 718	-63,191
-	-	-	713	-	-1,609
-	-	-	-	-	-1,040
-	-	-3,474	-68	-	-2,937
-	-	37,338	1,718	5,346	193,832
-	-	19,193	-	4,215	115,155
-	-	864	-	-	3,201
-	-	145	-	-	240
-	-	18,184	-	-	100,026
-	-	751	-	-	1,713
-	-	1,063	-	-	2,095
-	-	151	-	-	240
-	-	862	-	-	1,560
-	-	3,716	-	-	52,692
-	-	999	-	-	5,176
-	-	3,598	-	-	23,187
-	-	-	-	-	294
-	-	6,836	-	-	8,751
-	-	208	-	-	3,375
-	-	-	-	-	941
-	-	-	-	-	2,624
-	-	188	-	357	36,938
-	-	188	-	-	383
-	-	-	-	357	29,820
-	-	-	-	-	3,282
-	-	-	-	-	3,453
-	-	5,263	1,531	72	21,666
-	-	10,373	145	33	15,589
-	-	2,321	42	669	4,483

Energy
Balance

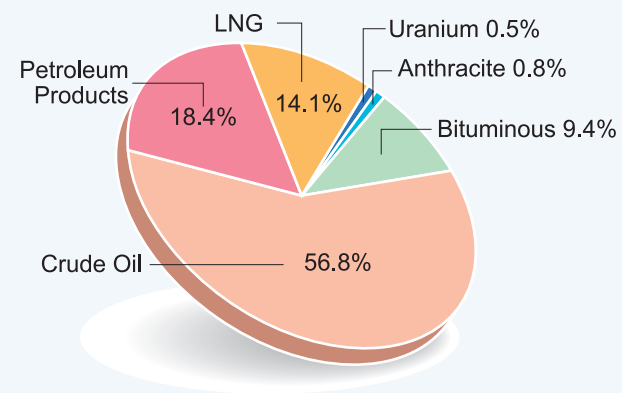
■ Energy Imports



■ 2000 37.6 Bil. \$



■ 2010 121.0 Bil. \$



Imports



8-1. Energy Imports

	Total Imports (CIF)	Energy Imports/ Total Imports (%)	Total	
			Growth Rate (%)	
1970	-	-	-	-
1971	2,394	-	-	-
1972	2,522	-	-	-
1973	4,240	-	-	-
1974	6,852	-	-	-
1975	7,274	-	-	-
1976	8,774	-	-	-
1977	10,811	-	-	-
1978	14,972	16.1	2,407	-
1979	20,339	18.3	3,728	54.9
1980	22,292	29.5	6,585	76.6
1981	26,131	29.7	7,765	17.9
1982	24,251	30.7	7,451	-4.0
1983	26,192	27.0	7,082	-5.0
1984	30,631	24.0	7,341	3.7
1985	31,136	23.4	7,290	-0.7
1986	31,584	16.4	5,179	-29.0
1987	41,020	15.1	6,209	19.9
1988	51,811	12.0	6,218	0.1
1989	61,465	12.3	7,532	21.1
1990	69,844	15.6	10,926	45.1
1991	81,525	15.3	12,444	13.9
1992	81,775	17.7	14,495	16.5
1993	83,800	18.1	15,149	4.5
1994	102,348	14.9	15,268	0.8
1995	135,119	13.8	18,646	22.1
1996	150,339	16.1	24,227	29.9
1997	144,616	18.7	27,107	11.9
1998	93,282	19.4	18,140	-33.1
1999	119,752	18.9	22,674	25.0
2000	160,481	23.4	37,584	65.8
2001	141,098	23.9	33,691	-10.4
2002	152,126	21.2	32,217	-4.4
2003	178,827	21.4	38,197	18.6
2004	224,463	22.0	49,286	29.0
2005	261,238	25.5	66,486	34.9
2006	309,383	27.6	85,355	28.4
2007	356,846	26.5	94,655	10.9
2008	435,275	32.4	140,812	48.8
2009	323,085	28.1	90,834	-35.5
2010	425,212	28.4	120,964	33.2

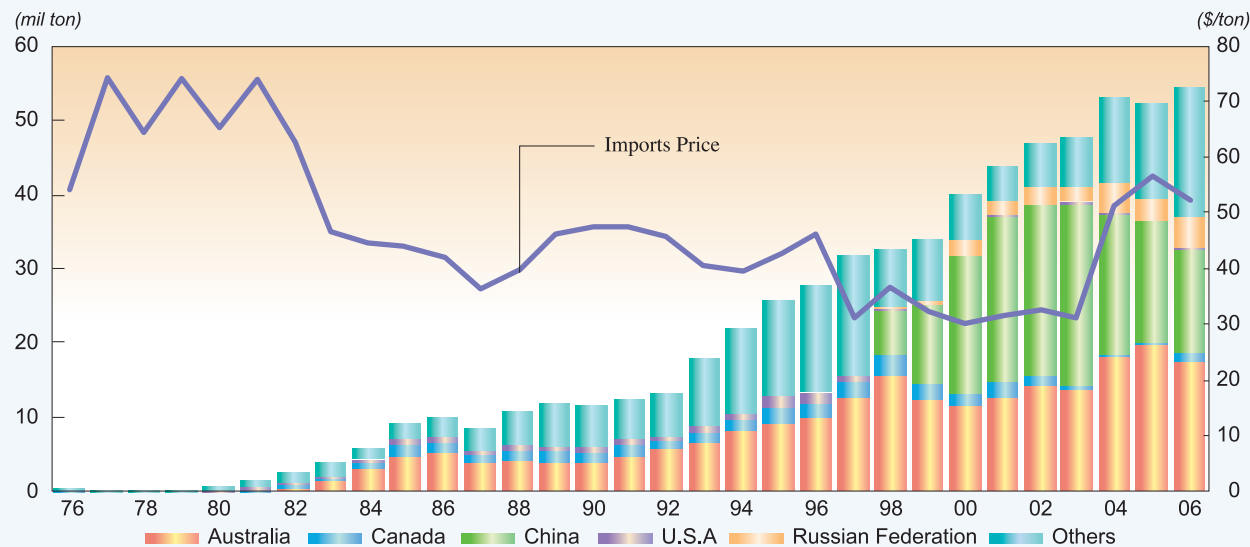
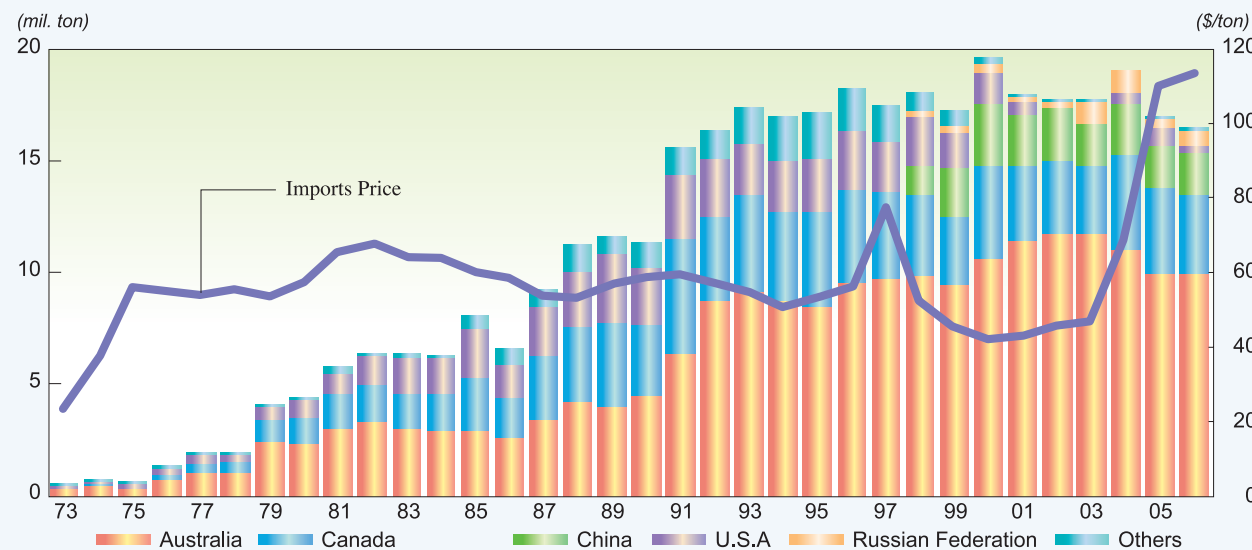
(mil. \$)

Coal		Petroleum		LNG	Uranium
Anthracite	Bituminous	Crude Oil	Petroleum Products		
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
16	125	2,186	48	-	32
112	238	3,100	207	-	71
172	333	5,654	394	-	32
295	484	6,504	429	-	53
150	601	6,079	591	-	30
53	588	5,772	634	-	35
49	663	5,811	661	-	157
145	890	5,504	605	-	146
222	798	3,479	487	17	176
154	817	3,841	844	301	252
128	1,021	3,850	622	349	248
79	1,212	4,935	762	345	199
52	1,217	6,462	2,547	481	167
63	1,514	7,836	2,336	508	187
45	1,547	9,449	2,655	632	167
42	1,670	9,298	3,123	772	244
33	1,718	8,919	3,463	924	211
38	2,019	10,825	4,440	1,124	200
45	2,301	14,517	5,270	1,887	207
26	2,329	17,768	4,437	2,300	247
36	2,147	11,239	2,924	1,556	238
46	1,867	14,784	3,651	2,070	256
72	2,033	25,227	6,189	3,785	278
118	2,157	21,368	5,729	4,052	267
148	2,254	19,200	6,215	4,120	280
177	2,266	23,082	7,325	5,082	265
233	3,891	29,917	8,357	6,552	336
429	4,803	42,606	9,716	8,646	286
407	4,700	55,865	12,119	11,925	339
448	5,675	60,324	15,066	12,653	489
991	11,156	85,855	22,275	19,806	729
672	8,997	50,757	15,811	13,875	722
1,016	11,425	68,662	22,240	17,006	615

Imports



Imports of Coking Coal by Country



Imports of Steaming Coal by Country

Imports



8-2. Imports of Coking and Steaming Coal by Country

(1,000 ton)

	Coking Coal						
	Total	Australia	Canada	China	U.S.A	Russian Federation	Others*
1973	611	388	-	-	173	-	50
1974	773	578	31	-	144	-	20
1975	671	445	-	-	165	-	61
1976	1,394	796	208	-	333	-	57
1977	1,984	1,116	410	-	452	-	6
1978	1,995	1,152	410	-	428	-	5
1979	4,189	2,457	1,018	-	702	-	12
1980	4,429	2,385	1,141	-	882	-	21
1981	5,811	3,038	1,585	-	903	-	285
1982	6,439	3,414	1,616	-	1,267	-	142
1983	6,394	3,102	1,582	-	1,486	-	224
1984	6,321	2,930	1,727	-	1,617	-	47
1985	8,125	3,016	2,348	-	2,089	-	672
1986	6,575	2,704	1,707	-	1,486	-	678
1987	9,248	3,426	2,920	-	2,164	-	738
1988	11,236	4,216	3,384	-	2,479	-	1,157
1989	11,651	4,034	3,765	-	3,000	-	852
1990	11,287	4,543	3,130	-	2,603	-	1,011
1991	15,572	6,391	5,126	-	2,841	-	1,214
1992	16,381	8,758	3,718	-	2,558	-	1,347
1993	17,320	9,121	4,348	-	2,294	-	1,557
1994	16,901	8,735	3,961	-	2,281	-	1,924
1995	17,151	8,451	4,272	-	2,335	-	2,093
1996	18,226	9,520	4,147	-	2,652	-	1,907
1997	17,395	9,709	3,907	-	2,256	-	1,523
1998	17,976	9,829	3,663	1,313	2,164	256	751
1999	17,227	9,437	3,057	2,134	1,586	308	706
2000	19,575	10,641	4,097	2,781	1,419	394	242
2001	17,899	11,396	3,337	2,341	571	187	66
2002	17,714	11,676	3,298	2,360	-	327	52
2003	17,676	11,714	3,026	1,919	-	976	42
2004	18,954	11,059	4,206	2,232	500	956	-
2005	16,975	9,929	3,842	1,858	795	461	89
2006	16,466	9,963	3,505	1,905	304	741	48
2007	18,386	-	-	-	-	-	-
2008	20,912	-	-	-	-	-	-
2009	19,553	-	-	-	-	-	-
2010	24,328	-	-	-	-	-	-

Note : * China, Russian Federation, Indonesia

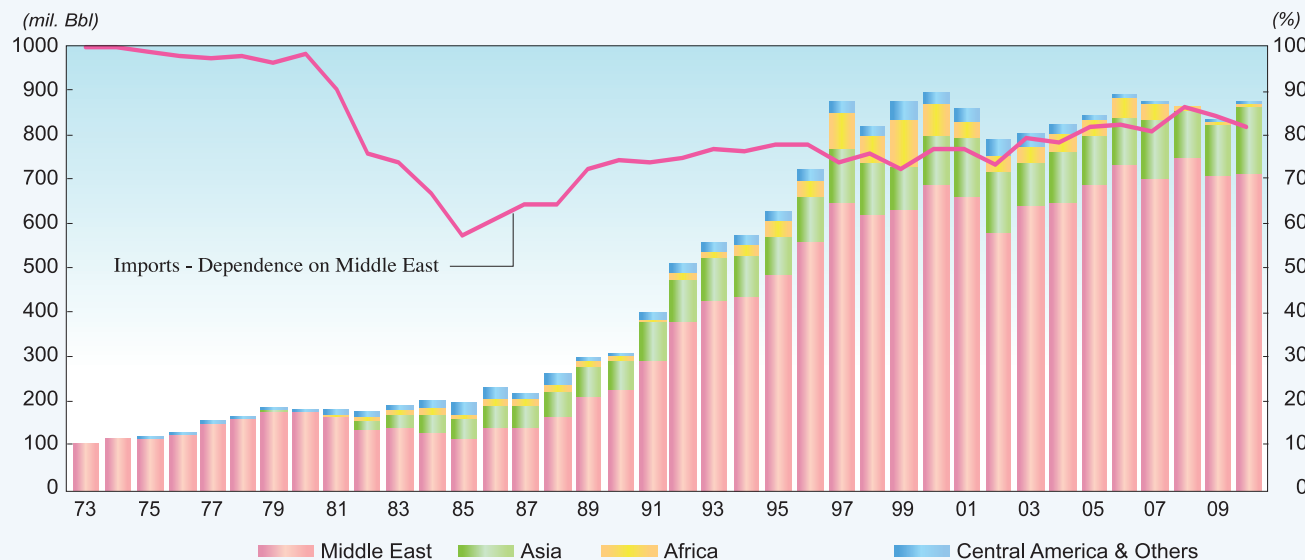
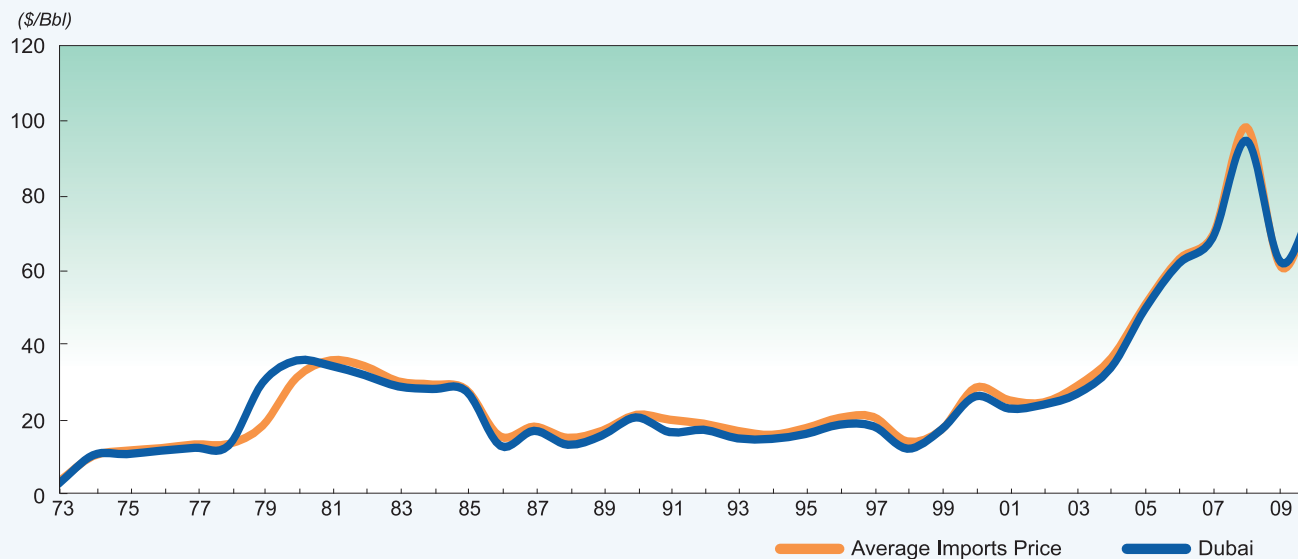
	Steaming Coal						
	Total	Australia	Canada	China	U.S.A	Russian Federation	Others*
1973	-	-	-	-	-	-	-
1974	-	-	-	-	-	-	-
1975	-	-	-	-	-	-	-
1976	163	46	36	-	-	-	81
1977	23	2	-	-	-	-	21
1978	72	54	-	-	-	-	18
1979	27	4	-	-	-	-	23
1980	482	26	15	-	32	-	409
1981	1,421	51	37	-	544	-	789
1982	2,600	445	590	-	52	-	1,513
1983	3,757	1,523	440	-	40	-	1,754
1984	5,873	3,067	1,157	-	55	-	1,594
1985	9,006	4,800	1,664	-	634	-	1,908
1986	9,862	5,281	1,453	-	627	-	2,501
1987	8,587	3,916	1,071	-	495	-	3,105
1988	10,677	4,135	1,387	-	718	-	4,437
1989	11,849	3,820	1,608	-	617	-	5,804
1990	11,560	3,870	1,348	-	741	-	5,601
1991	12,333	4,779	1,616	-	703	-	5,235
1992	13,274	5,683	1,171	-	671	-	5,749
1993	17,837	6,502	1,443	-	851	-	9,041
1994	21,798	8,123	1,527	-	823	-	11,325
1995	25,655	9,159	2,157	-	1,658	-	12,681
1996	27,698	9,935	1,859	-	1,518	-	14,386
1997	31,919	12,769	1,992	-	856	-	16,302
1998	32,589	15,724	2,696	6,023	148	393	7,605
1999	33,874	12,233	2,364	10,639	-	531	8,107
2000	40,026	11,597	1,647	18,660	-	2,171	5,950
2001	43,958	12,765	2,114	22,426	71	1,699	4,884
2002	46,926	14,398	1,244	22,931	-	2,566	5,785
2003	47,642	13,619	741	24,611	86	2,058	6,527
2004	53,150	18,072	280	19,065	149	4,087	11,497
2005	52,355	19,850	276	16,253	-	3,030	12,946
2006	54,422	17,637	943	14,307	63	4,058	17,415
2007	60,970	-	-	-	-	-	-
2008	69,558	-	-	-	-	-	-
2009	73,399	-	-	-	-	-	-
2010	81,768	-	-	-	-	-	-

Note : * Switzerland, Vietnam, Indonesia

Imports



■ Crude Oil Price



■ Crude Oil Import by Region

Imports



8-3. Crude Oil Imports by Region and Prices

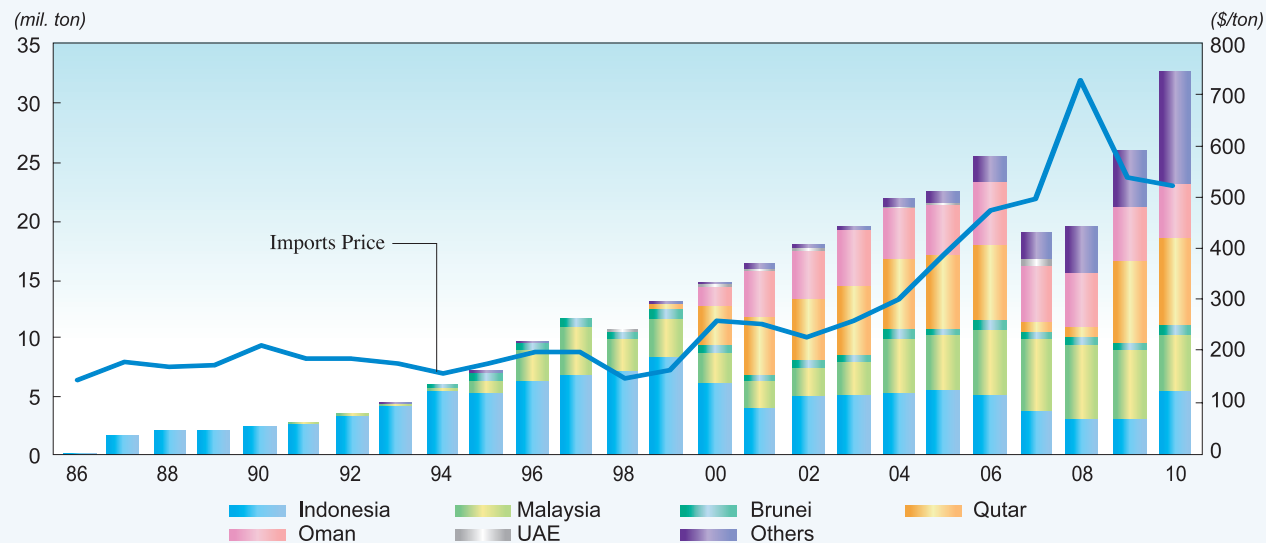
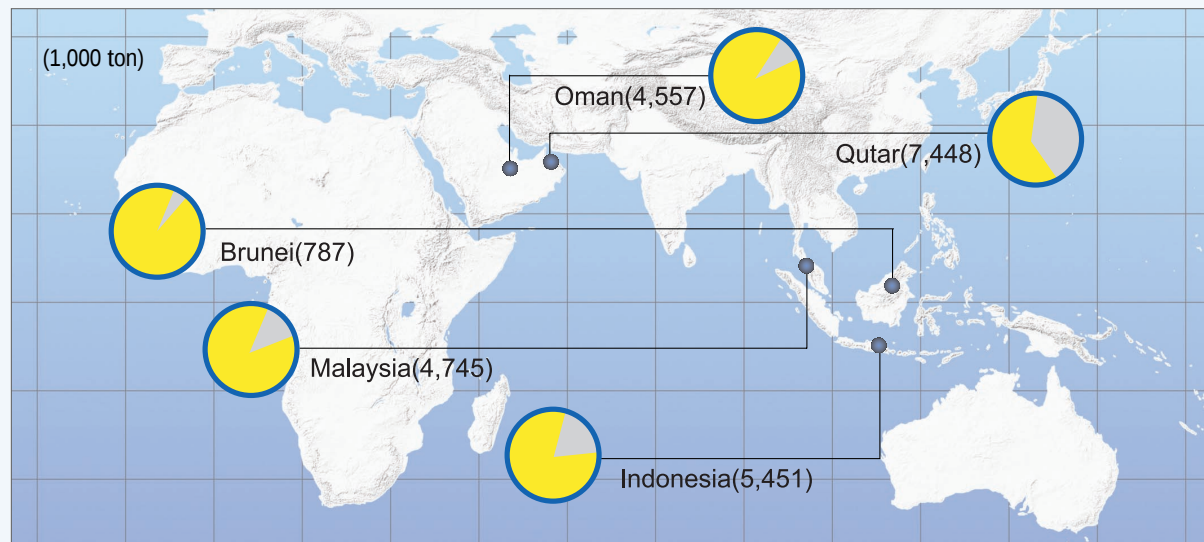
	Region (1000 Bbl)			
	Total	Middle East	Asia	Africa
1964	5,835	5,835	-	-
1965	11,167	11,167	-	-
1966	14,202	14,202	-	-
1967	18,458	18,458	-	-
1968	36,409	36,409	-	-
1969	55,889	55,889	-	-
1970	69,190	69,190	-	-
1971	85,425	85,425	-	-
1972	92,581	91,861	-	-
1973	103,210	103,210	-	-
1974	112,703	112,703	-	-
1975	117,795	116,574	-	-
1976	132,407	130,181	-	-
1977	154,549	150,731	-	-
1978	166,532	163,395	154	-
1979	185,513	179,408	516	-
1980	182,861	180,746	782	-
1981	182,816	165,858	5,141	1,467
1982	178,369	135,527	21,942	6,415
1983	192,969	142,881	26,301	12,053
1984	199,681	132,768	38,505	12,227
1985	198,313	113,013	47,996	11,912
1986	230,063	139,301	51,162	13,999
1987	216,163	138,661	51,265	15,140
1988	261,079	167,927	51,533	17,775
1989	296,411	213,743	62,573	16,269
1990	308,368	229,017	62,530	9,689
1991	399,304	294,357	82,695	5,552
1992	509,377	380,452	95,032	12,822
1993	560,563	430,839	96,233	15,790
1994	573,714	439,330	91,083	23,225
1995	624,945	486,528	82,051	37,911
1996	721,927	561,098	98,631	37,024
1997	873,415	645,678	121,372	82,126
1998	819,094	622,005	113,494	61,907
1999	874,090	632,067	93,517	109,560
2000	893,943	686,916	112,669	67,749
2001	859,367	661,649	130,033	39,155
2002	790,992	579,865	136,756	35,877
2003	804,809	639,453	100,721	34,156
2004	825,791	645,183	116,287	42,874
2005	843,204	689,356	111,937	34,424
2006	888,794	730,843	110,306	42,814
2007	872,541	704,020	131,273	35,557
2008	864,872	746,458	108,482	9,932
2009	835,085	705,363	116,379	11,608
2010	872,415	713,646	152,354	4,592

Central America & Others	Imports-Dependence on Middle East (%)	Imports Price (C&F, \$/Bbl)	Dubai (\$/Bbl)
-	100.00	-	-
-	100.00	-	-
-	100.00	-	-
-	100.00	-	-
-	100.00	-	-
-	100.00	-	-
-	100.00	1.72	-
-	100.00	2.09	-
720	99.22	2.29	-
-	100.00	2.96	2.83
-	100.00	9.83	10.41
1,221	98.96	-	10.70
2,226	98.32	11.93	11.63
3,818	97.53	12.95	12.38
2,983	98.12	13.06	13.03
5,589	96.71	17.95	29.75
1,333	98.84	30.92	35.69
10,350	90.72	35.58	34.32
14,485	75.98	34.06	31.80
11,734	74.04	29.89	28.78
16,181	66.49	29.08	28.07
25,392	56.99	27.73	27.53
25,601	60.55	15.10	12.95
11,097	64.15	17.73	16.92
23,844	64.32	14.71	13.19
3,826	72.11	16.63	15.68
7,132	74.27	20.92	20.50
16,700	73.72	19.59	16.56
21,071	74.69	18.54	17.21
17,701	76.86	16.58	14.90
20,076	76.58	15.54	14.76
18,455	77.85	17.31	16.09
25,174	77.72	20.10	18.56
24,239	73.93	20.33	18.13
21,688	75.94	13.72	12.16
38,946	72.31	16.91	17.24
26,609	76.84	28.21	26.12
28,530	76.99	24.86	22.84
38,494	73.31	24.23	23.88
30,479	79.45	28.72	26.80
21,447	78.13	36.17	33.77
7,487	81.75	50.52	49.37
4,831	82.23	62.83	61.55
1,690	80.69	69.36	68.44
-	86.31	98.28	94.29
1,734	84.47	60.76	61.92
1,823	81.80	78.73	78.13

Imports



■ LNG Imports by Region 2010



■ LNG Imports & Prices

Imports



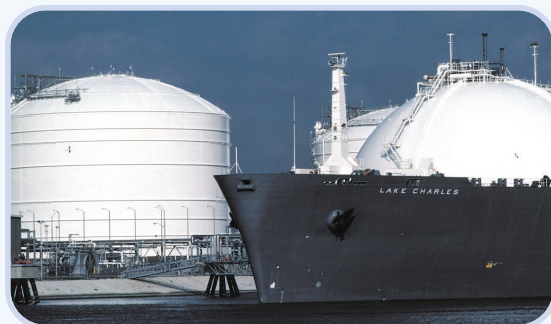
8-4. LNG Imports by Region and Prices

	Imports Price (\$/ton)				
		Total	Indonesia	Malaysia	Brunei
1986	143	117	117	-	-
1987	179	1,682	1,682	-	-
1988	169	2,063	2,063	-	-
1989	171	2,014	2,014	-	-
1990	210	2,291	2,291	-	-
1991	184	2,758	2,700	58	-
1992	185	3,425	3,308	117	-
1993	174	4,454	4,108	289	-
1994	154	5,928	5,366	291	271
1995	174	7,060	5,258	1,039	707
1996	197	9,595	6,262	2,572	705
1997	197	11,629	6,848	4,028	753
1998	147	10,600	7,050	2,893	596
1999	162	12,973	8,353	3,261	745
2000	258	14,578	6,124	2,435	800
2001	251	16,164	3,968	2,252	591
2002	226	17,828	5,020	2,301	769
2003	259	19,434	5,137	2,808	548
2004	294	22,153	5,410	4,594	899
2005	353	22,341	5,502	4,688	594
2006	472	25,222	5,060	5,546	850
2007	495	25,569	3,755	6,161	590
2008	727	27,259	3,053	6,247	738
2009	537	25,822	3,084	5,874	530
2010	522	32,603	5,451	4,745	787

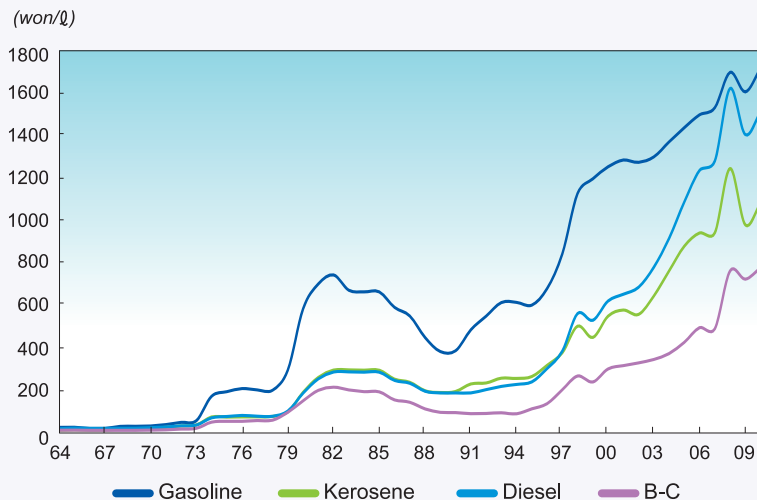
Note * : Australia, Algeria, Trinidad Tobago

Region (1,000 ton)			
Qatar	Oman	UAE	Others*
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	56
-	-	-	-
-	-	-	57
-	-	-	56
-	-	-	-
-	-	61	-
497		61	56
3,268	1,593	243	115
4,942	3,928	122	361
5,151	4,061	237	288
5,838	4,810	-	293
5,896	4,443	-	910
6,211	4,244	62	1,042
6,458	5,221	-	2,088
8,031	4,792	57	2,182
8,744	4,544	-	3,933
6,973	4,551	-	4,809
7,448	4,557	-	9,615

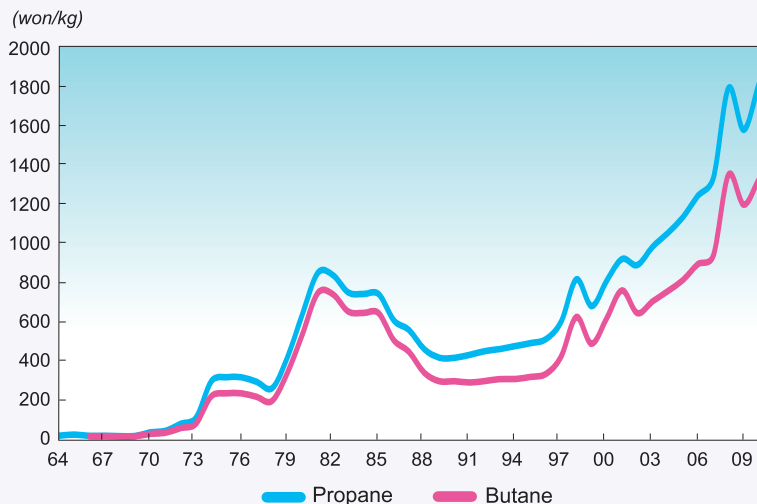
Imports



Energy Prices -1



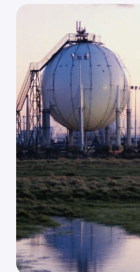
Energy Prices -2



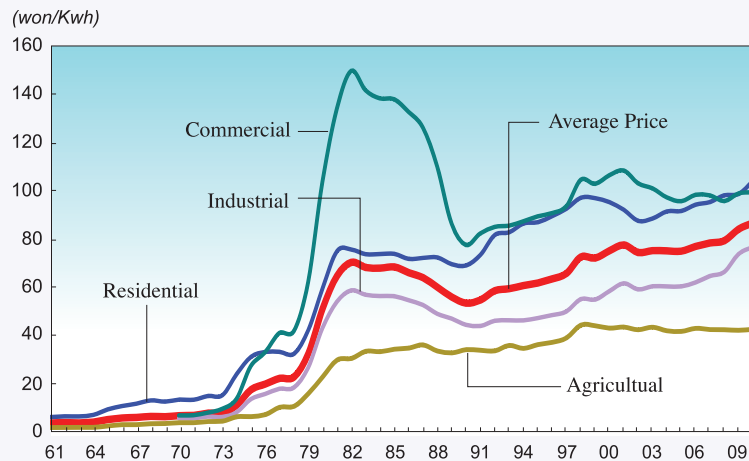
9-1. Prices of Major Petroleum Products

	Gasoline	Kerosene	Diesel	B-C	Propane	Butane
	won/l				won/kg	
1964	23.20	8.89	10.00	4.19	23.13	-
1965	23.65	11.00	13.45	4.61	19.80	-
1966	18.07	9.30	12.16	3.92	16.50	16.50
1967	18.07	9.30	12.16	3.56	16.50	13.20
1968	28.03	14.50	12.16	3.74	15.00	12.00
1969	28.03	11.86	12.52	3.88	15.60	12.50
1970	29.72	17.43	15.31	4.47	35.10	25.10
1971	36.34	22.75	18.54	6.26	42.47	30.37
1972	46.87	29.57	24.07	9.72	78.43	54.67
1973	54.81	33.84	27.92	13.36	110.00	76.51
1974	169.65	71.51	61.88	42.63	295.00	215.22
1975	191.31	70.64	68.10	46.40	315.50	231.21
1976	206.00	71.80	73.00	46.40	315.50	231.21
1977	199.35	72.26	69.54	50.03	291.50	213.49
1978	197.95	73.78	69.20	51.98	260.00	192.15
1979	292.37	95.45	93.81	88.72	417.00	332.97
1980	580.82	187.60	178.41	143.70	755.00	651.64
1981	697.70	257.70	245.90	193.10	848.00	740.20
1982	740.00	292.00	278.00	208.10	836.30	736.20
1983	667.89	292.30	278.30	194.90	747.70	647.90
1984	660.00	291.00	277.00	186.60	740.00	640.00
1985	660.00	291.00	277.00	185.80	740.00	640.00
1986	587.53	249.20	238.30	147.90	605.90	502.30
1987	547.00	234.70	225.10	136.70	556.40	443.40
1988	445.45	194.70	187.30	105.00	458.60	336.60
1989	379.80	186.00	179.00	89.10	415.00	293.00
1990	383.54	191.30	179.00	87.40	415.00	293.00
1991	482.20	226.90	179.00	82.40	430.40	286.30
1992	546.00	231.10	195.10	83.40	449.40	293.90
1993	610.00	254.00	210.00	86.70	460.00	304.00
1994	610.98	252.30	219.50	81.90	475.00	304.00
1995	598.00	261.58	231.50	105.60	489.67	314.90
1996	675.77	314.25	294.10	129.90	510.00	330.00
1997	838.70	373.49	376.20	196.10	599.04	417.77
1998	1122.57	498.19	553.47	260.78	815.00	620.00
1999	1191.91	445.17	521.82	232.20	678.25	483.25
2000	1248.35	544.92	612.78	294.25	809.25	614.25
2001	1280.00	573.95	644.58	309.71	918.54	755.06
2002	1269.10	553.46	677.58	322.81	887.31	639.33
2003	1294.76	640.04	772.03	339.17	980.00	698.50
2004	1365.29	757.50	907.93	366.99	1050.18	750.57
2005	1432.25	873.66	1079.73	420.19	1131.50	807.12
2006	1492.43	936.21	1228.17	489.40	1242.67	889.33
2007	1525.87	936.53	1272.73	526.60	1330.55	931.32
2008	1692.14	1,238.62	1614.44	757.10	1789.92	1342.96
2009	1600.72	974.77	1397.47	718.70	1577.23	1190.97
2010	1710.41	1,075.17	1502.8	772.30	1812.74	1320.25

Prices



Electricity



9-2. Average Revenues per kWh Sold

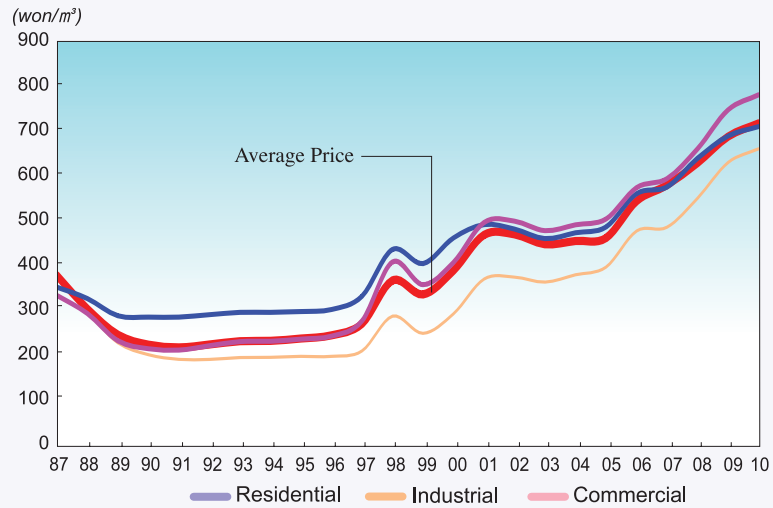
(won / kWh)

	Average	Residential	Industrial	Commercial	Agricultural
1961	3.22	6.09	-	-	1.53
1962	3.47	6.42	-	-	1.55
1963	3.28	6.36	-	-	1.59
1964	3.68	7.04	-	-	1.59
1965	4.72	9.30	-	-	2.16
1966	5.37	10.70	-	-	2.72
1967	5.57	11.64	-	-	2.73
1968	6.04	12.99	-	-	3.10
1969	5.86	12.50	-	-	3.20
1970	6.34	13.33	5.56	6.46	3.55
1971	6.41	13.27	5.56	6.54	3.54
1972	7.36	14.86	6.32	7.60	4.04
1973	7.30	15.14	6.12	9.15	4.17
1974	10.64	23.93	7.99	13.26	6.03
1975	17.10	30.98	13.49	26.82	6.06
1976	19.43	32.99	15.65	32.60	6.94
1977	21.81	32.99	17.84	40.64	10.02
1978	22.38	32.25	18.29	41.33	10.41
1979	32.17	42.13	26.53	61.70	15.74
1980	50.88	59.49	42.99	103.33	22.76
1981	64.31	74.61	53.84	133.53	29.74
1982	69.87	75.19	58.61	149.32	30.38
1983	67.71	73.26	56.79	141.25	33.42
1984	67.42	73.33	56.27	137.89	33.19
1985	67.92	73.42	56.21	137.53	34.26
1986	65.51	71.33	54.54	132.31	34.69
1987	63.48	71.75	52.59	125.78	36.04
1988	59.49	71.94	48.91	109.53	33.48
1989	55.43	69.13	46.94	85.93	32.70
1990	52.94	68.66	44.33	77.12	34.06
1991	54.23	73.03	43.84	81.91	33.80
1992	58.09	81.22	46.00	84.60	33.56
1993	58.90	82.29	46.20	85.13	35.82
1994	60.22	85.95	46.14	86.92	34.59
1995	61.28	86.47	47.14	89.00	36.17
1996	62.99	88.95	48.37	90.32	37.11
1997	65.26	92.05	49.86	93.19	38.96
1998	72.08	96.60	55.01	104.16	44.31
1999	71.59	96.41	54.78	102.45	44.04
2000	74.65	94.72	58.30	106.04	43.04
2001	77.06	91.57	61.56	107.99	43.51
2002	73.88	87.01	59.02	102.66	42.37
2003	74.68	88.00	60.30	100.59	43.45
2004	74.58	90.94	60.23	96.85	41.95
2005	74.46	91.07	60.25	95.24	41.67
2006	76.43	93.70	61.92	97.91	42.96
2007	77.85	94.78	64.56	97.68	42.45
2008	78.76	97.58	66.24	95.30	42.38
2009	83.59	98.07	73.69	98.50	42.13
2010	86.12	103.38	76.63	98.93	42.54

Prices



■ Town Gas

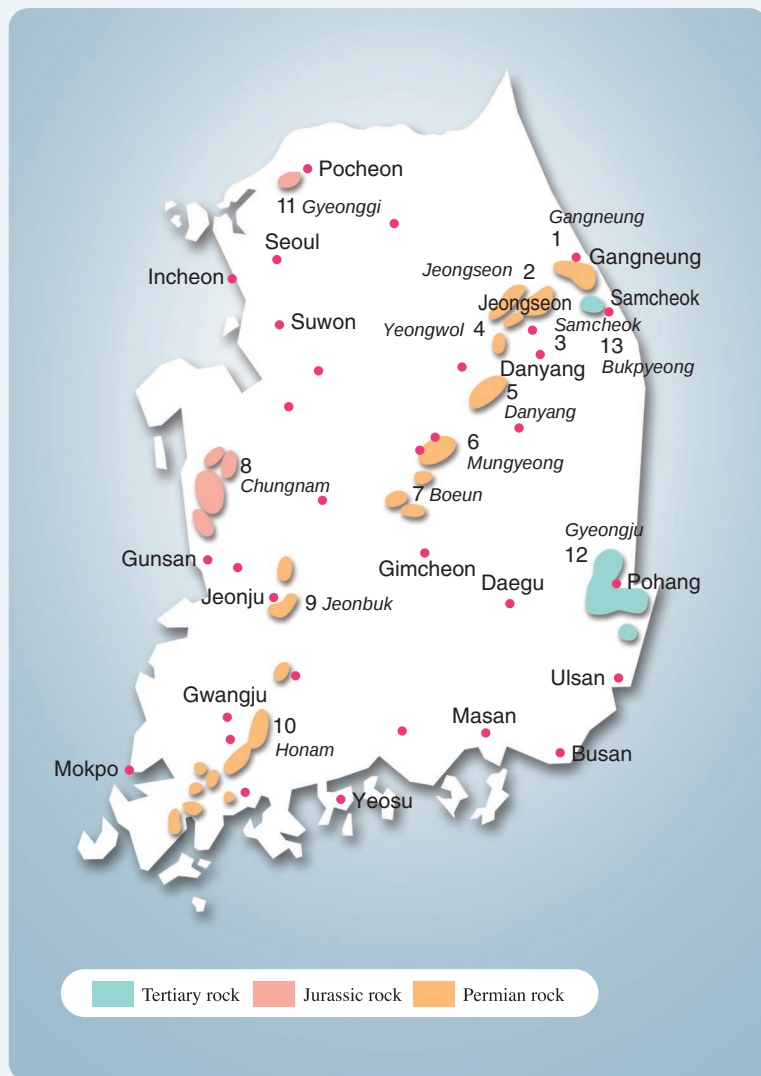
■ 9-3. Town Gas per m³(won / m³)

	Average	Residential	Industrial	Commercial
1980	...	...	...	...
1981	...	...	...	...
1982	...	...	...	...
1983	...	...	...	...
1984	...	...	...	...
1985	...	...	...	...
1986	...	...	...	...
1987	378.4	351.6	332.8	332.8
1988	304.2	326.3	292.7	292.7
1989	247.1	287.9	227.0	232.1
1990	224.9	284.9	200.5	214.4
1991	218.8	284.9	190.0	211.3
1992	225.4	290.4	189.8	221.2
1993	232.7	295.5	194.0	230.4
1994	233.3	295.5	194.5	230.9
1995	238.6	297.2	196.7	236.0
1996	245.7	301.9	196.7	242.4
1997	271.2	331.5	208.8	276.1
1998	367.5	435.5	286.6	407.3
1999	336.3	404.1	248.2	356.7
2000	389.3	461.3	291.8	406.0
2001	468.3	490.9	369.2	494.8
2002	469.5	480.8	373.7	497.8
2003	447.6	459.6	362.5	476.6
2004	454.9	472.7	378.9	489.7
2005	461.4	485.6	396.1	502.6
2006	543.2	559.7	476.5	572.2
2007	578.6	574.6	485.1	592.3
2008	627.7	638.4	549.8	658.5
2009	686.3	688.1	629.4	744.8
2010	715.4	708.9	660.0	778.3

Prices

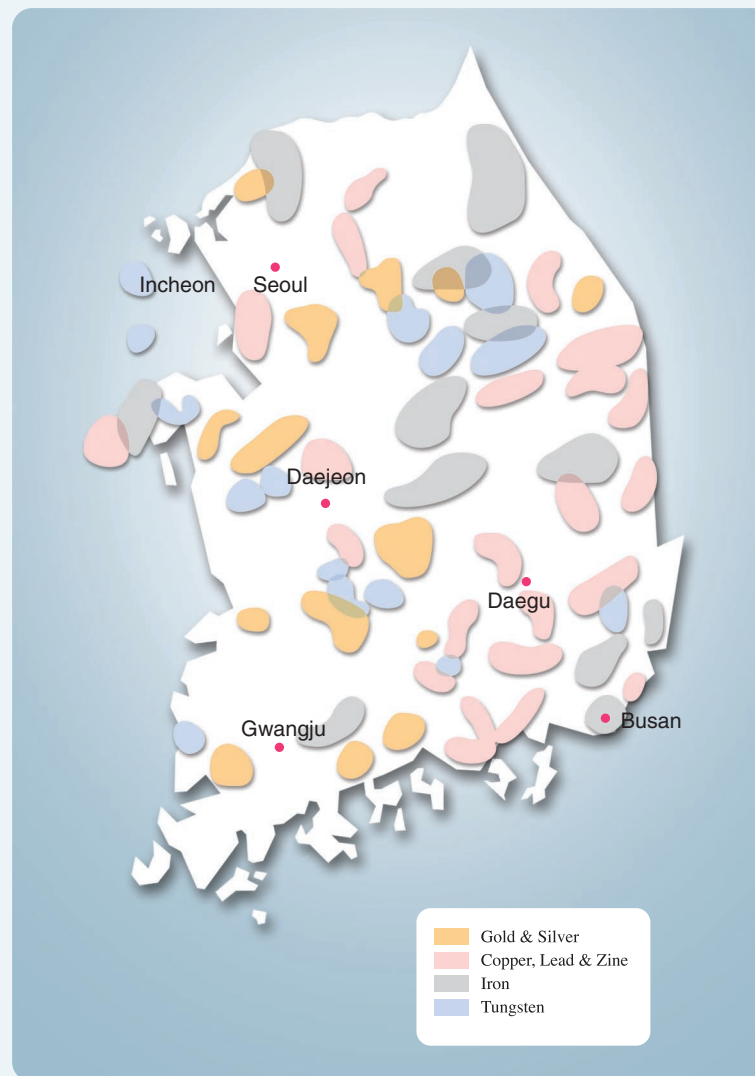


10-1. Major Coal Fields



Source : Korea Resources Corporation

10-2. Metallic Mineral

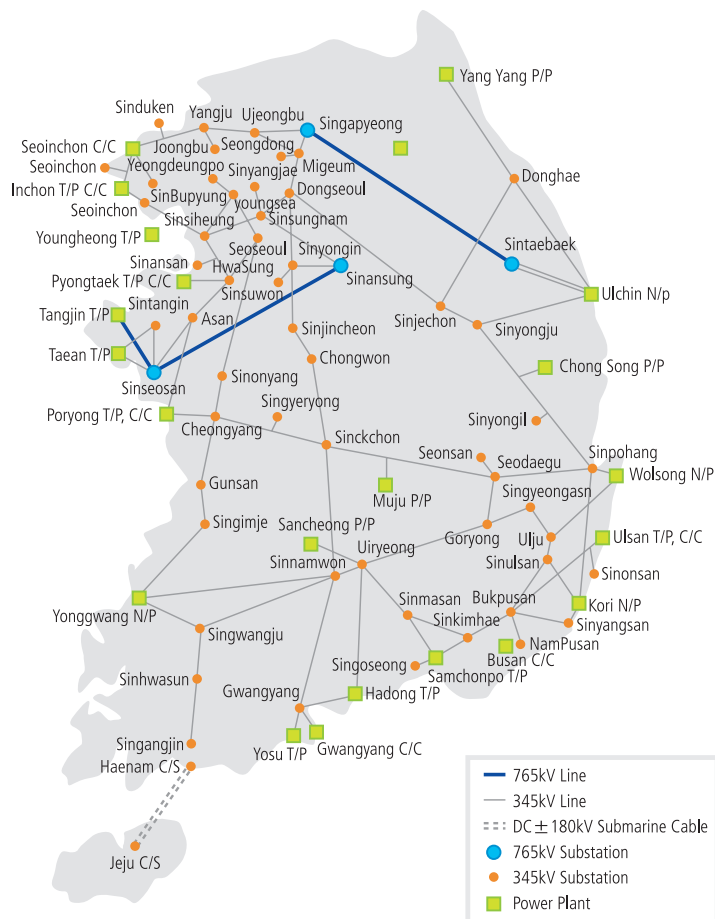


Source : Korea Resources Corporation

Reserves & Distribution Map



10-3. Electric Power Transmission



Source : Korea Resources Corporation

10-4. LNG Pipeline Network

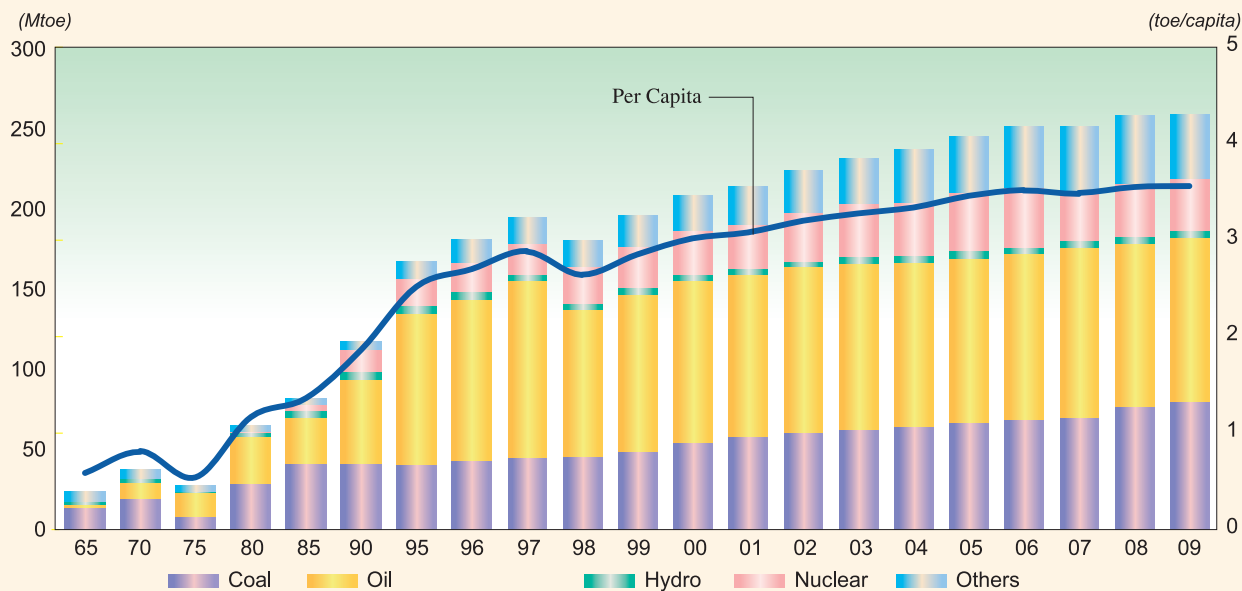


Source : Korea Resources Corporation

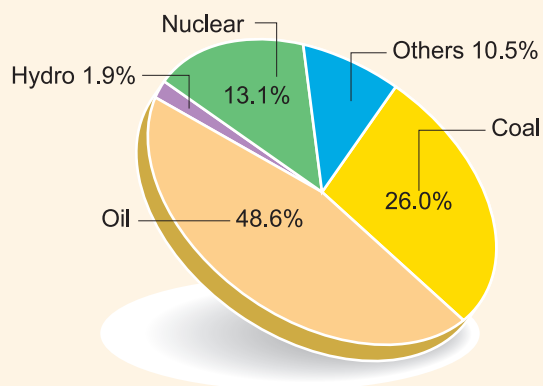
Reserves & Distribution Map



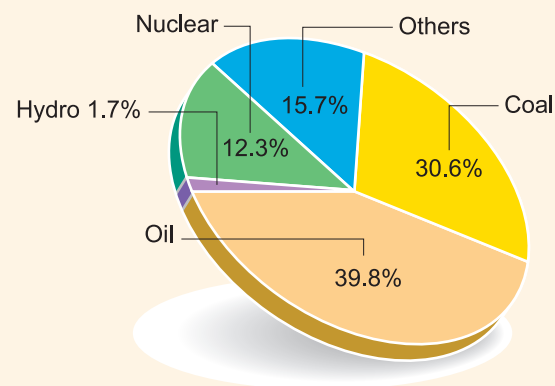
Primary Energy Consumption



1999 196.3 Mtoe



2009 259.2 Mtoe



Energy Consumption in the Korean Peninsula



(1,000 toe)

11-1. Primary Energy Consumption

	R. O. K						Total
	Total	Coal	Oil	Hydro	Nuclear	Others*	
1965	12,012	5,238	1,455	178	-	5,141	11,852
1970	19,678	5,829	9,293	305	-	4,251	18,096
1975	27,553	8,075	15,637	421	-	3,420	-
1980	43,911	13,199	26,830	496	869	2,517	21,013
1985	56,296	22,022	27,142	915	4,186	2,031	24,940
1989	81,660	24,493	40,523	1,140	11,841	3,663	25,120
1990	93,192	24,385	50,175	1,590	13,222	3,820	23,963
1991	103,619	24,535	59,627	1,263	14,078	4,116	21,920
1992	116,010	23,618	71,740	1,216	14,133	5,303	20,450
1993	126,879	25,882	78,495	1,502	14,535	6,465	19,013
1994	137,234	26,680	86,342	1,025	14,663	8,524	17,870
1995	150,437	28,092	93,955	1,369	16,757	10,264	17,280
1996	165,212	32,200	99,898	1,301	18,481	13,332	15,836
1997	180,638	34,799	109,080	1,351	19,272	16,136	14,746
1998	165,932	36,039	90,582	1,525	22,422	15,364	14,030
1999	181,363	38,156	97,270	1,517	25,766	18,654	14,955
2000	192,887	42,911	100,280	1,402	27,241	21,053	15,687
2001	198,409	45,711	100,385	1,038	28,033	23,242	16,230
2002	208,636	49,096	102,414	1,327	29,776	26,023	15,638
2003	215,067	51,116	102,379	1,722	32,415	27,435	16,079
2004	220,238	53,128	100,638	1,465	32,679	32,328	16,535
2005	228,622	54,788	101,526	1,297	36,695	34,316	17,127
2006	233,372	56,687	101,831	1,305	37,187	36,363	17,955
2007	236,454	59,654	105,494	1,084	30,731	39,291	15,594
2008	240,752	66,060	100,170	1,196	32,456	40,869	16,980
2009	243,311	68,604	102,336	1,213	31,771	39,388	15,914
2010	262,609	75,896	104,301	1,392	31,948	49,072	-

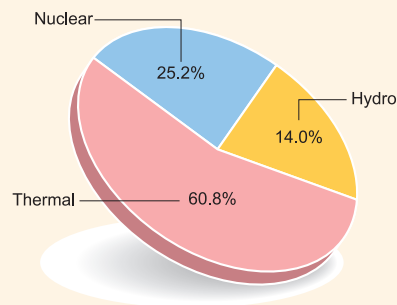
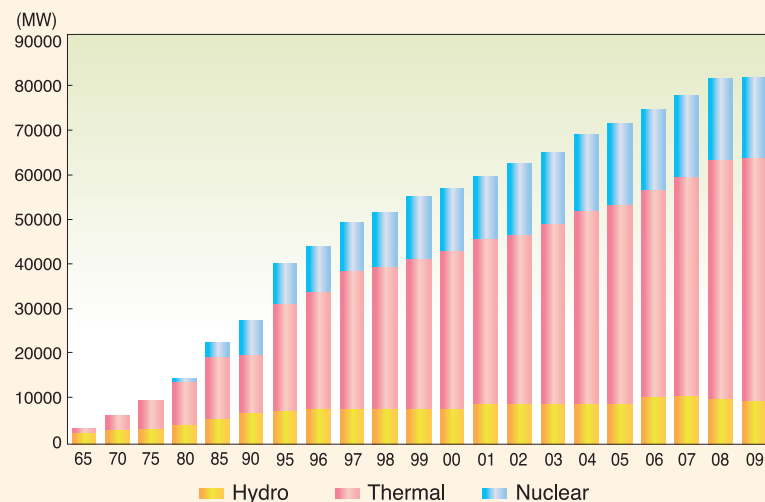
Note : *Includes LNG & Others(new & renewable energy)

Source:KEEI, Ministry of Unification

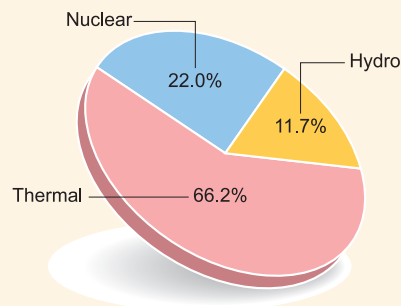
D. P. R. K					toe per capita		
Coal	Oil	Hydro	Nuclear	Others*	R. O. K	D. P. R. K	
8,519	351	1,797	-	1,185	0.42	0.97	1965
13,118	764	2,404	-	1,810	0.61	1.21	1970
-	-	-	-	-	0.78	-	1975
15,135	2,100	2,658	-	1,120	1.15	1.19	1980
18,750	1,960	3,110	-	1,120	1.38	1.31	1985
17,540	2,720	3,740	-	1,120	1.92	1.18	1989
16,575	2,520	3,748	-	1,120	2.17	1.19	1990
15,500	1,890	3,750	-	780	2.39	1.07	1991
14,600	1,520	3,550	-	780	2.65	0.98	1992
13,550	1,360	3,304	-	799	2.87	0.90	1993
12,700	910	3,475	-	785	3.07	0.84	1994
11,850	1,100	3,535	-	795	3.34	0.80	1995
10,500	1,436	3,109	-	791	3.63	0.73	1996
10,300	1,006	2,656	-	784	3.93	0.68	1997
9,300	1,400	2,554	-	776	3.58	0.64	1998
10,500	881	2,794	-	780	3.89	0.68	1999
11,250	1,117	2,540	-	780	4.10	0.71	2000
11,550	1,250	2,650	-	780	4.19	0.73	2001
10,950	1,253	2,655	-	780	4.38	0.70	2002
11,150	1,219	2,930	-	780	4.49	0.71	2003
11,400	1,230	3,125	-	780	4.58	0.73	2004
12,030	1,034	3,283	-	780	4.75	0.75	2005
12,340	790	3,155	-	1,670	4.83	0.78	2006
10,060	944	3,320	-	1,270	4.96	0.67	2007
11,236	967	3,517	-	1,260	4.95	0.73	2008
10,800	738	3,116	-	1,260	4.97	0.66	2009
-	-	-	-	-	5.37	-	2010

Energy
Consumption
in the Korean
Peninsula

■ Generating Facilities



■ 2009 80,398 MW



■ 11-2. Generating Facilities

(MW)

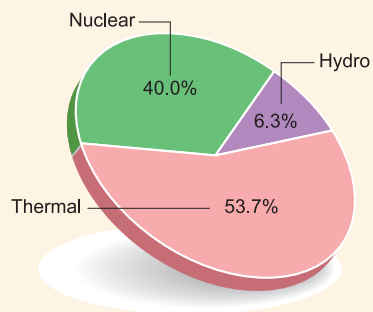
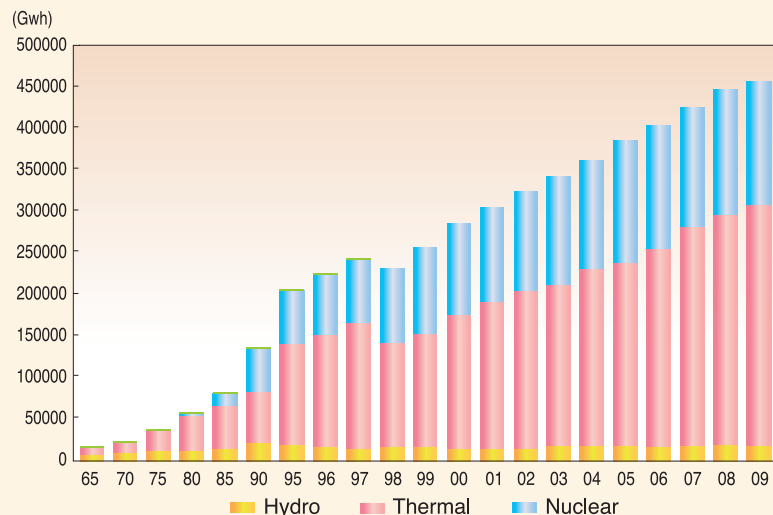
	R. O. K.				D. P. R. K.			
	Total	Hydro	Thermal	Nuclear	Total	Hydro	Thermal	Nuclear
1965	769	215	554	-	2,385	2,105	280	-
1970	2,508	329	2,179	-	3,550	2,550	1,000	-
1975	4,720	621	4,099	-	4,530	2,730	1,800	-
1980	9,391	1,157	7,647	587	5,010	2,910	2,100	-
1985	16,137	2,223	11,048	2,866	5,915	3,310	2,605	-
1989	20,997	2,339	11,043	7,616	6,900	4,050	2,850	-
1990	20,021	2,340	10,065	7,616	7,142	4,292	2,850	-
1991	21,111	2,445	11,050	7,616	7,142	4,292	2,850	-
1992	24,120	2,498	14,007	7,616	7,142	4,292	2,850	-
1993	27,654	2,504	17,534	7,616	7,142	4,292	2,850	-
1994	28,750	2,493	18,641	7,616	7,237	4,337	2,900	-
1995	32,184	3,093	20,475	8,616	7,237	4,337	2,900	-
1996	35,715	3,094	23,005	9,616	7,387	4,437	2,950	-
1997	41,042	3,115	27,612	10,316	7,387	4,437	2,950	-
1998	43,406	3,131	28,259	12,016	7,387	4,437	2,950	-
1999	46,978	3,148	30,114	13,716	7,387	4,437	2,950	-
2000	48,451	3,149	31,586	13,716	7,552	4,592	2,960	-
2001	50,859	3,876	33,267	13,716	7,752	4,792	2,960	-
2002	53,801	3,876	34,209	15,716	7,772	4,812	2,960	-
2003	56,053	3,877	36,460	15,716	7,772	4,812	2,960	-
2004	59,961	3,879	39,366	16,716	7,772	4,812	2,960	-
2005	62,258	3,883	40,660	17,716	7,822	4,812	3,010	-
2006	65,514	5,485	42,314	17,716	7,822	4,812	3,010	-
2007	68,268	5,492	45,060	17,716	7,952	4,942	3,010	-
2008	72,491	5,505	49,270	17,716	7,497	4,487	3,010	-
2009	73,470	5,515	50,239	17,716	6,928	3,918	3,010	-
2010	76,078	5,525	52,838	17,716	-	-	-	-

Note : Thermal(includes alternative & group energy)

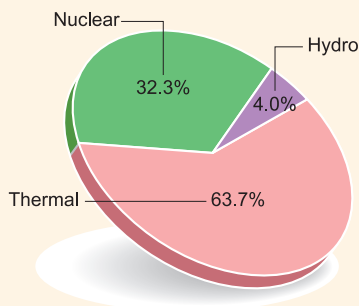
Source : KEEI, Ministry of Unification

Energy
Consumption
in the Korean
Peninsula

■ Electric Power Generation by Facility



■ 2009 457,104 GWh



■ 11-3. Electric Power Generation by Facility

(Gwh)

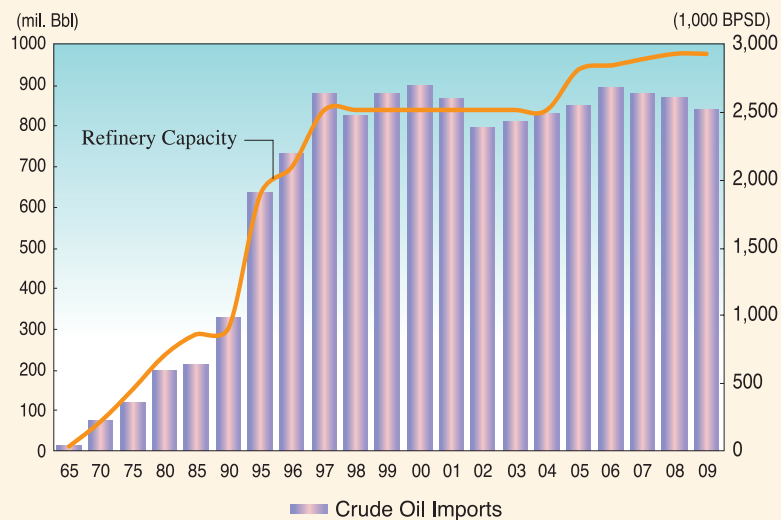
	R. O. K.				D. P. R. K.			
	Total	Hydro	Thermal	Nuclear	Total	Hydro	Thermal	Nuclear
1965	3,250	710	2,540	-	13,200	7,200	6,000	-
1970	9,167	1,221	7,946	-	14,000	9,000	5,000	-
1975	19,837	1,683	18,154	-	18,300	9,800	8,500	-
1980	37,239	1,984	31,778	3,477	21,200	10,600	10,600	-
1985	58,007	3,659	37,603	16,745	25,100	12,300	12,800	-
1989	94,472	4,558	42,549	47,365	29,200	15,000	14,200	-
1990	107,670	6,361	48,422	52,887	27,700	15,600	12,100	-
1991	118,619	5,051	57,257	56,311	26,300	15,030	11,270	-
1992	130,963	4,863	69,570	56,530	24,700	14,200	10,500	-
1993	144,437	6,006	80,293	58,138	22,100	13,300	8,800	-
1994	164,993	4,098	102,244	58,651	23,100	13,800	9,300	-
1995	184,661	5,478	112,154	67,029	23,000	14,200	8,800	-
1996	205,494	5,201	126,369	73,924	21,300	12,500	8,800	-
1997	224,445	5,404	141,955	77,086	19,300	10,700	8,600	-
1998	215,300	6,099	119,512	89,689	17,000	10,200	6,800	-
1999	239,325	6,066	130,195	103,064	18,600	10,300	8,300	-
2000	266,400	5,610	151,826	108,964	19,400	10,200	9,200	-
2001	285,224	4,151	168,940	112,133	20,200	10,600	9,600	-
2002	306,474	5,311	182,060	119,103	19,000	10,600	8,400	-
2003	322,452	6,887	185,893	129,672	19,600	11,700	7,900	-
2004	342,148	5,861	205,572	130,715	20,600	12,500	8,100	-
2005	364,639	5,189	212,671	146,779	21,500	13,100	8,400	-
2006	381,181	5,219	227,213	148,749	22,500	12,600	9,900	-
2007	403,125	5,042	255,146	142,937	23,600	13,300	10,300	-
2008	422,355	5,563	265,834	150,958	25,640	14,070	11,390	-
2009	433,604	5,641	280,192	147,771	23,500	12,500	11,000	-
2010	474,660	6,472	319,592	148,596	-	-	-	-

Note : Thermal(includes alternative & group energy)

Source : KEEI, Ministry of Unification

Energy
Consumption
in the Korean
Peninsula

Refinery Capacity



11-4. Refinery Capacity

	R. O. K			D. P. R. K.		
	Imports		Refining Capacity	Imports		Refining Capacity
	(1,000 Bbl)	(1,000 kd)	(1,000 BPSD)	(1,000 Bbl)	(1,000 kd)	(1,000 BPSD)
1965	11,170	1,776	35	2,842	452	-
1970	69,150	10,995	220	6,190	984	-
1975	117,795	18,729	440	-	-	20
1980	182,861	29,075	640	15,393	2,447	70
1985	198,313	31,532	790	14,369	2,285	70
1989	296,411	47,129	840	19,938	3,170	70
1990	308,368	49,031	840	18,472	2,937	70
1991	399,304	63,489	1,036	13,854	2,203	70
1992	509,377	80,991	1,442	11,142	1,772	70
1993	560,563	89,130	1,675	9,969	1,585	70
1994	573,714	91,220	1,770	6,670	1,061	70
1995	624,945	99,366	1,818	8,063	1,282	70
1996	721,927	114,786	2,018	6,861	1,091	70
1997	873,415	138,873	2,438	3,709	590	70
1998	819,094	130,236	2,438	3,694	587	70
1999	874,090	138,980	2,438	2,325	370	70
2000	893,943	142,137	2,438	2,851	453	70
2001	859,367	136,639	2,438	4,244	675	70
2002	790,992	125,768	2,438	4,376	696	70
2003	804,809	127,965	2,438	4,207	669	70
2004	825,790	131,301	2,438	4,156	661	70
2005	843,203	134,069	2,735	4,068	647	70
2006	888,794	141,318	2,772	3,841	611	70
2007	872,541	138,734	2,812	3,834	610	70
2008	864,872	137,515	2,855	3,878	617	70
2009	835,085	132,779	2,855	3,795	603	70
2010	872,415	138,714	2,855	-	-	-

Source : KEEI, Ministry of Unification

Energy
Consumption
in the Korean
Peninsula

12-1. Energy Indicators-1 (2009)

	Population (mil)	GDP (billion 2000 US \$)	GDP(ppp) (billion 2000 US \$)	Energy Production (Mtoe)	Net Imports (Mtoe)	TPES*** (Mtoe)	Elec.Cons. (TWh)	CO ₂ Emis (MtofCO ₂)
Australia	22.10	535.23	703.82	310.70	172.99	131.07	243.96	394.88
Austria	8.36	218.36	263.22	11.40	20.99	31.66	66.46	63.37
Belgium	10.79	260.83	317.71	15.32	49.59	57.22	85.33	100.70
Canada	33.74	846.83	1,021.09	389.81	141.46	254.12	521.85	520.75
Czech Rep.	10.51	75.87	206.01	31.20	11.38	41.99	64.12	109.84
Denmark	5.52	167.73	161.21	23.91	3.74	18.61	34.50	46.78
Finland	5.34	141.16	153.98	16.55	18.35	33.17	81.37	55.01
France	64.49	1,472.79	1,702.03	129.50	134.38	256.22	483.32	354.30
Germany	81.88	1,998.65	2,243.18	127.09	202.94	318.53	555.19	750.19
Greece	11.28	168.11	265.88	10.08	22.18	29.44	62.51	90.22
Hungary	10.02	56.40	147.51	11.00	14.86	24.86	37.82	48.16
Iceland	0.32	11.22	10.46	4.40	0.96	5.22	37.82	2.00
Ireland	4.47	125.11	141.16	1.53	13.20	14.34	26.91	39.46
Italy	60.19	1,110.68	1,475.11	27.01	141.21	164.63	317.25	389.28
Japan	127.33	4,872.22	3,392.86	93.79	384.46	471.99	997.40	1,092.86
Korea	48.75	752.83	1,140.99	44.31	198.10	229.18	437.73	515.46
(DPR of Korea)	23.91	11.53	40.56	20.26	1.00	19.27	17.76	66.20
Luxembourg	0.50	26.46	30.55	0.11	4.26	3.95	7.18	9.99
Mexico	107.44	724.35	122.95	220.03	42.34	174.64	217.66	399.67
Netherlands	16.53	432.48	525.84	63.05	35.12	78.17	113.99	176.11
New Zealand	4.33	67.48	102.87	15.21	3.45	17.40	40.34	31.31
Norway	4.83	195.96	188.92	213.64	185.51	28.24	113.72	37.31
Poland	38.15	241.67	570.39	67.52	30.23	93.99	137.00	286.76
Portugal	10.63	123.35	191.32	4.89	20.66	24.10	51.19	53.14
Slovak Rep.	5.42	31.32	91.04	5.94	11.25	16.72	26.69	33.17
Spain	45.93	713.36	1,054.60	29.72	110.69	126.52	275.74	283.37
Sweden	9.30	286.27	287.08	30.35	17.76	45.41	131.50	41.71
Switzerland	7.80	286.30	261.12	12.77	15.64	26.95	62.11	42.42
Turkey	71.90	356.96	789.08	30.28	70.25	97.66	165.09	256.31
United Kingdom	61.79	1,677.10	1,742.62	158.91	55.08	196.76	351.80	465.80
United States	307.48	11,357.07	11,357.07	1,686.40	559.01	2,162.92	3,961.56	5,195.02

Note : 1)Gross Production + imports - exports - transmission / losses

2)CO₂emissions from fuel combustion only. Emission are calculated using the IEA's energy balances & the Revised 1996 IPCC Guidelines.

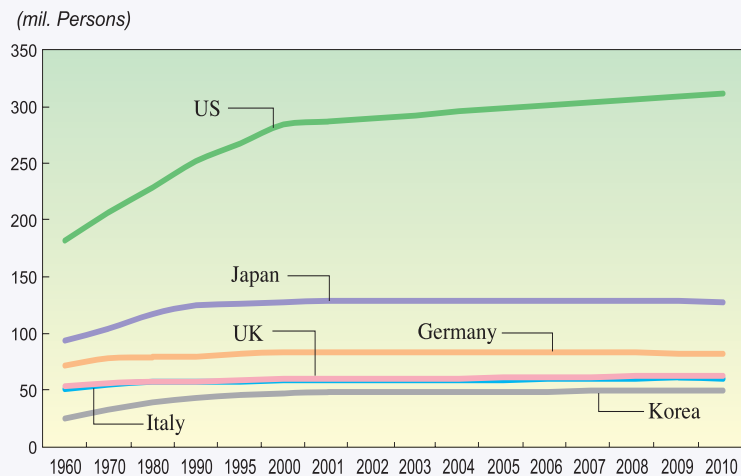
TPES/Pop (toe/capita)	TPES/GDP (toe/1000\$)	TPES/GDP (ppp) (toe/1000\$)	Elec. Cons. /Pop (kWh/capita)	CO ₂ /TPES (t CO ₂ /toe)	CO ₂ /Pop (t CO ₂ /capita)	CO ₂ /GDP (kg CO ₂ /\$)	CO ₂ /GDP (ppp) (kg CO ₂ /\$ppp)	
5.93	0.24	0.19	11,038	3.01	17.87	0.74	0.56	Australia
3.79	0.14	0.12	7,947	2.00	7.58	0.29	0.24	Austria
5.30	0.22	0.18	7,908	1.76	9.33	0.39	0.32	Belgium
7.53	0.30	0.25	15,467	2.05	15.43	0.61	0.51	Canada
4.00	0.55	0.20	6,103	2.62	10.45	1.45	0.53	Czech Rep.
3.37	0.11	0.12	6,248	2.51	8.47	0.28	0.29	Denmark
6.21	0.23	0.22	15,241	1.66	10.30	0.39	0.36	Finland
3.97	0.17	0.15	7,494	1.38	5.49	0.24	0.21	France
3.89	0.16	0.14	6,781	2.36	9.16	0.38	0.33	Germany
2.61	0.18	0.11	5,540	3.06	8.00	0.54	0.34	Greece
2.48	0.44	0.17	3,773	1.94	4.80	0.85	0.33	Hungary
16.38	0.47	0.50	51,179	0.38	6.26	0.18	0.19	Iceland
3.21	0.11	0.10	6,022	2.75	8.83	0.32	0.28	Ireland
2.74	0.15	0.11	5,271	2.36	6.47	0.35	0.26	Italy
3.71	0.10	0.14	7,833	2.32	8.58	0.22	0.32	Japan
4.70	0.30	0.20	8,980	2.25	10.57	0.68	0.45	Korea
0.81	1.67	0.48	743	3.44	2.77	5.74	1.63	(DPR of Korea)
7.95	0.15	0.13	14,447	2.53	20.10	0.38	0.33	Luxembourg
1.63	0.24	0.16	226	2.29	3.72	0.55	0.36	Mexico
4.73	0.18	0.15	697	2.25	10.66	0.41	0.33	Netherlands
4.02	0.26	0.17	911	1.80	7.23	0.46	0.30	New Zealand
5.85	0.14	0.15	2,358	1.32	7.73	0.19	0.20	Norway
2.46	0.39	0.16	391	3.05	7.52	1.19	0.50	Poland
2.27	0.20	0.13	415	2.21	5.00	0.43	0.28	Portugal
3.09	0.53	0.18	4,926	1.98	6.12	1.06	0.36	Slovak Rep.
2.75	0.18	0.12	6,004	2.24	6.17	0.40	0.27	Spain
4.88	0.16	0.16	14,141	0.92	4.48	0.15	0.15	Sweden
3.45	0.09	0.10	7,962	1.57	5.44	0.15	0.16	Switzerland
1.36	0.27	0.12	2,296	2.62	3.57	0.72	0.32	Turkey
3.18	0.12	0.11	5,693	2.37	7.54	0.28	0.27	United Kingdom
7.03	0.19	0.19	12,884	2.40	16.90	0.46	0.46	United States

3) TPES for World includes international aviation & marine bunkers as well as electricity & heat trade.

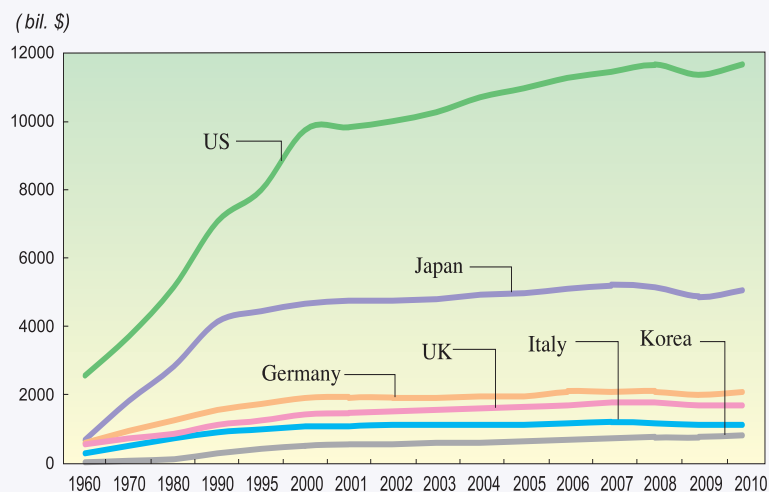
Source : Key World Energy Statistics, IEA, 2011

World
Energy
Statistics

Population by Country



GDP by Country



12-2. Population by Country

(millions)

	Korea	Japan	US	Germany	Italy	UK
1960 ^{e)}	25.01	93.45	180.70	71.22	49.94	52.37
1970	32.24	103.72	205.09	77.71	53.82	55.63
1980	38.12	116.80	227.73	78.30	56.43	56.33
1990	42.87	123.54	250.18	79.36	56.72	57.24
1995	45.09	125.57	266.59	81.66	57.30	58.03
2000	47.01	126.93	282.41	82.19	56.94	58.89
2001	47.35	127.29	285.37	82.34	57.92	59.11
2002	47.62	127.44	288.24	82.48	58.05	59.32
2003	47.85	127.62	291.09	82.52	58.05	59.55
2004	48.08	127.69	293.95	82.50	58.13	59.84
2005	48.14	127.77	296.97	82.46	58.61	60.22
2006	48.30	127.76	299.83	82.37	58.86	60.53
2007	48.46	127.77	301.74	82.26	59.38	60.98
2008	48.61	127.51	304.83	82.12	59.83	61.40
2009	48.75	127.33	307.48	81.88	60.19	61.79
2010 ^{e)}	48.80	126.91	310.47	81.75	60.00	62.21

Source : Energy Balance of OECD Countries, IEA, 2011

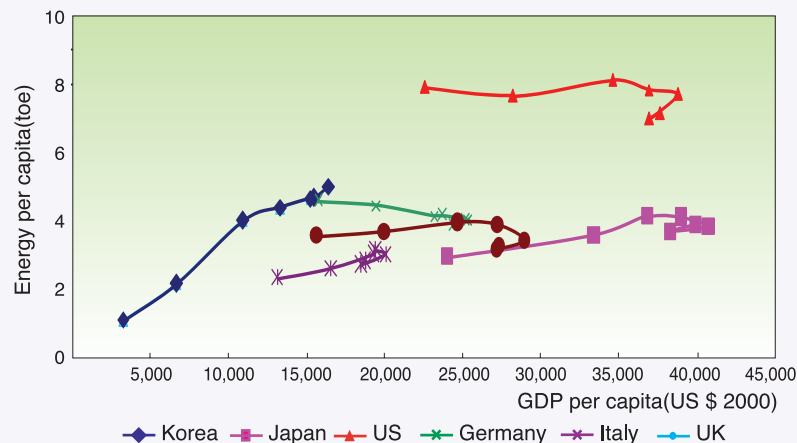
12-3. GDP by Country

(bil. 2000 US\$)

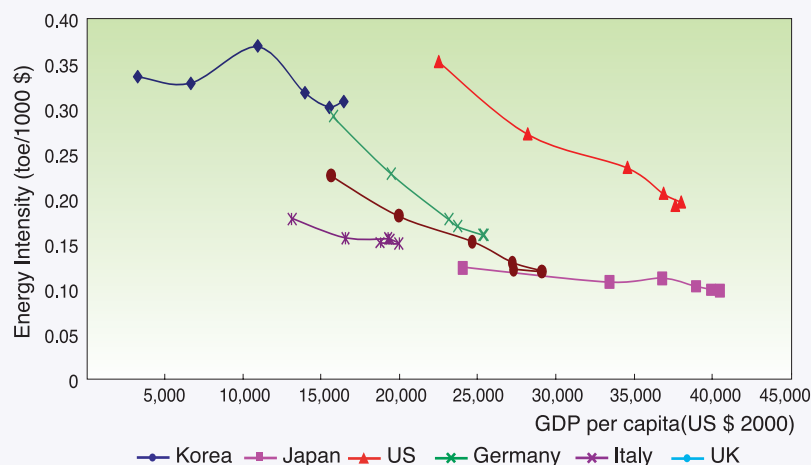
	Korea	Japan	US	Germany	Italy	UK
1960 ^{e)}	28.93	669.76	2,564.68	597.23	292.12	549.34
1970	61.10	1,813.40	3,721.70	935.70	514.40	718.00
1980	128.03	2,800.62	5,142.14	1,225.93	739.13	879.78
1990	295.60	4,122.36	7,063.99	1,543.20	937.60	1,150.27
1995	413.00	4,456.20	7,972.80	1,720.50	977.30	1,230.40
2000	533.38	4,667.47	9,898.80	1,900.22	1,097.34	1,477.51
2001	531.30	4,755.70	9,838.90	1,923.80	1,093.70	1,474.90
2002	568.30	4,741.30	9,997.60	1,924.90	1,097.90	1,504.40
2003	585.90	4,803.20	10,269.30	1,921.30	1,100.70	1,542.20
2004	613.10	4,932.50	10,703.90	1,952.70	1,114.20	1,591.10
2005	639.40	4,978.30	10,950.60	1,955.10	1,135.80	1,638.10
2006	671.30	5,087.10	11,265.20	2,100.20	1,157.00	1,684.70
2007	734.48	5,202.72	11,693.18	2,069.15	1,188.49	1,763.15
2008	751.36	5,140.40	11,668.45	2,097.65	1,171.82	1,763.05
2009	752.83	4,872.22	11,357.07	1,998.65	1,110.68	1,677.10
2010 ^{e)}	799.22	5,064.07	11,681.22	2,071.24	1,125.08	1,698.08

Source : Energy Balance of OECD Countries, IEA, 2011

Energy Intensity by Country



Energy Consumption per capita by Country



12-4. Energy Indicators-2

		1980	1990	2000	2005	2010 ^{e)}
Germany						
Population	millions	78.30	79.36	82.19	82.46	81.75
GDP	bil. 2000 US\$	1,229.50	1,543.40	1,900.20	1,955.10	2,071.24
GDP/Pop.	2000 US \$	15,702.4	19,448.1	23,119.6	23,709.7	25,336.3
TPES	Mtoe	357.18	351.40	337.29	345.27	331.50
TPES/Pop.	toe/capita	4.56	4.43	4.10	4.19	4.06
TPES/GDP	toe/thou. US\$	0.29	0.23	0.18	0.18	0.16

Italy						
Population	millions	56.43	56.72	56.94	58.61	60.00
GDP	bil. 2000 US\$	739.00	937.60	1,097.34	1,135.80	1,125.08
GDP/Pop.	2000 US \$	13,095.9	16,530.3	19,271.9	19,378.9	18,751.3
TPES	Mtoe	130.84	146.56	171.52	185.73	170.20
TPES/Pop.	toe/capita	2.32	2.58	3.01	3.17	2.84
TPES/GDP	toe/thou. US\$	0.18	0.16	0.16	0.16	0.15

Japan						
Population	millions	116.80	123.54	126.93	127.77	126.91
GDP	bil. 2000 US\$	2,800.62	4,122.36	466.47	4,978.30	5,064.07
GDP/Pop.	2000 US \$	23,977.9	33,368.6	3,675.0	38,963.0	39,902.8
TPES	Mtoe	344.52	439.32	518.95	528.38	494.90
TPES/Pop.	toe/capita	2.95	3.56	4.09	4.14	3.90
TPES/GDP	toe/thou. US\$	0.12	0.11	1.11	0.11	0.10

Korea						
Population	millions	38.12	42.87	47.01	48.14	48.80
GDP	bil. 2000 US\$	128.03	295.60	533.38	639.40	799.22
GDP/Pop.	2000 US \$	3,358.6	6,895.3	11,346.1	13,282.1	16,377.5
TPES	Mtoe	41.21	93.09	185.66	212.55	246.50
TPES/Pop.	toe/capita	1.08	2.17	3.95	4.42	5.05
TPES/GDP	toe/thou. US\$	0.32	0.31	0.35	0.33	0.31

United Kingdom						
Population	millions	56.33	57.24	58.89	6,022.00	62.21
GDP	bil. 2000 US\$	879.78	1,150.27	1,477.51	1,638.10	1,698.08
GDP/Pop.	2000 US \$	15,618.3	20,095.6	25,089.3	272.0	27,295.9
TPES	Mtoe	198.43	205.92	222.94	234.53	204.20
TPES/Pop.	toe/capita	3.52	3.60	3.79	0.04	3.28
TPES/GDP	toe/thou. US\$	0.23	0.18	0.15	0.14	0.12

United States						
Population	millions	227.73	250.18	282.41	296.97	310.47
GDP	bil. 2000 US\$	5,142.14	7,063.99	9,898.80	10,950.60	11,681.22
GDP/Pop.	2000 US \$	22,580.0	28,235.6	35,051.2	36,874.4	37,624.3
TPES	Mtoe	1,804.68	1,915.00	2,273.33	2,341.88	2,235.00
TPES/Pop.	toe/capita	7.92	7.65	8.05	7.89	7.20
TPES/GDP	toe/thou. US\$	0.35	0.27	0.23	0.21	0.19

Source : Energy Balances of OECD Countries, IEA, 2011

World
Energy
Statistics

1. Energy Conversion Factors / Oil Equivalent

Energy by Source	Unit	Calorific Values					
		1980	1981	1987	1990	2006	2010
PETROLEUM							
Crude Oil	kcal/kg	10,000	10,000	10,000	10,000	10,750	10,750
Gasoline	kcal/ℓ	8,300	8,300	8,300	8,300	8,000	8,000
Kerosene	kcal/ℓ	8,700	8,700	8,700	8,700	8,800	8,800
Diesel	kcal/ℓ	9,200	9,200	9,200	9,200	9,050	9,050
Bunker-A	kcal/ℓ	9,500	9,400	9,400	9,400	9,300	9,300
Bunker-B	kcal/ℓ	9,200	9,700	9,700	9,700	9,650	9,650
Bunker-C	kcal/ℓ	9,900	9,900	9,900	9,900	9,900	9,900
Jet-Oil	kcal/ℓ	-	8,700	8,700	8,700	8,750	8,750
Solvent	kcal/ℓ	-	-	-	8,200	7,950	7,950
Propane	kcal/kg	12,000	12,000	12,000	12,000	12,050	12,050
Butane	kcal/kg	11,800	11,800	11,800	11,800	11,850	11,850
Naphtha	kcal/ℓ	8,000	8,000	8,000	8,000	8,050	8,050
GAS							
Town Gas(LPG)	Kcal/Nm³	-	-	15,000	15,000	15,000	15,000
Town Gas(LNG)	Kcal/Nm³	7,000	7,000	7,000	7,000	10,550	10,550
LNG	(Kcal/kg)	-	9,500	12,980	13,000	13,000	13,000
COAL							
Domestic Anthracite	kcal/kg	4,600	4,600	4,500	4,500	4,650	4,650
Bituminous	kcal/kg	6,600	6,600	6,600	6,600	7,000	7,000
Cokes	kcal/kg	6,500	6,500	6,500	6,500	7,050	7,050
OTHERS							
Electricity	kcal/kWh	2,500	2,500	2,500	2,500	2,150	2,150
Firewood	kcal/kg	4,500	4,500	4,500	4,500	4,500	4,500

2. Conversion Factors

• Energy

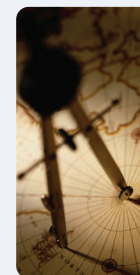
Units	TJ	Gcal	Mtoe	MBtu	GWh
TJ	1	238.8	2.388×10^{-5}	947.8	0.2778
Gcal	4.1868×10^{-3}	1	10^{-7}	3.968	1.163×10^{-3}
Mtoe	4.1868×10^{-4}	10^{-7}	1	3.968×10^{-7}	1.1630
MBtu	1.0551×10^{-3}	0.252	2.52×10^{-8}	1	2.931×10^{-4}
GWh	3.6	860	8.6×10^{-5}	3412	1

• Mass

Units	kg	tonne	Long ton(lt)	Short ton(st)	pound(lb)
kg	1	0.001	9.84×10^{-4}	1.102×10^{-3}	2.2046
tonne	1000	1	0.984	1.1023	2204.6
Long ton(lt)	1016	1.016	1	1.120	2240.0
Short ton(st)	907.2	0.9072	0.893	1	2000.0
pound(lb)	0.454	4.54×10^{-4}	4.46×10^{-4}	5.0×10^{-4}	1

• Volume

Units	m³	liter	ft³	gal(U.S)	gal(U.K)	bbl
m³	1	10³	35.3146	264.1721	219.969	6.2892
liter	10^{-3}	1	0.0353	0.2641	0.2199	6.2892×10^{-3}
ft³	2.8316×10^{-2}	28.3168	1	7.4805	6.2288	0.178
gal(U.S)	3.7854×10^{-3}	3.7854	0.1336	1	0.8326	0.0238
gal(U.K)	0.004561	4.5461	0.1605	1.2009	1	0.0285
bbl	0.1589	158.988	5.6146	42	34.9726	1

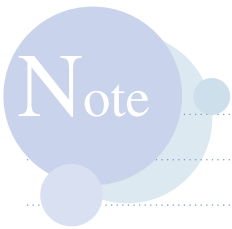
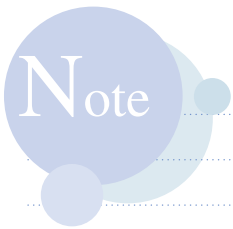


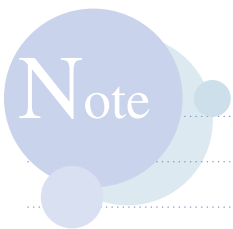
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Note





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