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Operating Data

Company Data (As of March 31, 2008)

Company	Capital Stock (Million yen)	Energy Sales for the Year* (GWh)				Revenues from Energy Sales for the Year* (Million yen)	Installed Generating Capacity (MW)	Service Area (km ²)	Employees
		Residential	Commercial & Industrial	Deregulated Customers	Total				
Hokkaido EPCo	114,291	11,795	2,293	18,356	32,444	542,923	6,505	78,420	5,724
Tohoku EPCo	251,441	25,072	4,345	54,562	84,071	1,586,331	16,798	79,534	12,155
Tokyo EPCo	676,434	97,600	12,784	187,011	297,396	5,169,107	62,473	39,490	38,238
Chubu EPCo	430,777	36,125	7,304	94,053	137,483	2,193,427	32,471	39,131	15,952
Hokuriku EPCo	117,641	7,912	1,529	19,862	29,304	464,911	8,114	12,301	4,611
Kansai EPCo	489,320	50,181	7,008	93,232	150,422	2,422,722	34,364	28,700	22,111
Chugoku EPCo	185,527	18,889	2,905	41,784	63,578	1,019,621	11,826	32,279	10,165
Shikoku EPCo	145,551	9,651	2,055	17,561	29,268	551,632	6,665	18,452	6,030
Kyushu EPCo	237,304	29,549	6,119	52,412	88,081	1,365,701	19,716	42,178	12,459
Okinawa EPCo	7,586	2,944	3,396	1,150	7,490	149,024	1,925	2,275	1,568
Subtotal	2,655,872	289,722	49,742	580,078	919,543	15,465,399	200,858	372,760	129,013
J-POWER	152,499						16,380		2,201
JAPC	120,000						2,617		1,351
Total	2,928,321	289,722	49,742	580,078	919,543	15,465,399	219,855	372,760	132,565

* Figures are for fiscal 2007.
Source: FEPC

Electric Power Generation

(TWh)

	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Thermal	607.8	650.4	669.2	658.5	710.6	745.5	747.1	761.8	755.0	839.0
Electric Utilities	479.3	513.6	526.9	512.7	554.5	580.8	565.7	581.6	577.6	661.0
Industry-owned	128.6	136.8	142.3	145.8	156.1	164.7	181.4	180.3	177.5	177.9
Nuclear	332.3	316.6	322.1	319.9	295.1	240.0	282.4	304.8	303.4	263.8
Electric Utilities	331.3	315.9	321.3	319.6	294.1	240.0	282.4	304.8	303.4	263.8
Industry-owned	1.0	0.7	0.7	0.2	1.0	—	—	—	—	—
Hydroelectric	102.6	95.6	96.8	93.9	91.8	104.1	103.1	86.4	97.3	84.2
Electric Utilities	95.2	88.3	89.3	86.5	84.0	96.1	95.5	79.8	89.0	76.8
Industry-owned	7.3	7.3	7.5	7.4	7.8	8.1	7.6	6.6	8.3	7.3
Geothermal	3.5	3.4	3.3	3.4	3.4	3.5	3.4	3.2	3.1	3.0
Electric Utilities	3.3	3.2	3.1	3.2	3.2	3.2	3.1	3.0	2.9	2.8
Industry-owned	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Fuel Cell	0	—	—	—	0	0	0	0	0.0	0.0
Electric Utilities	—	—	—	—	—	—	—	—	—	—
Industry-owned	0	—	—	—	0	0	0	0	0.0	0.0
Wind Power	0	0	0.1	0.3	0.4	0.8	1.3	1.8	2.2	2.6
Electric Utilities	—	0	0	0	0	0	0	0	0.0	0.0
Industry-owned	0	0	0.1	0.3	0.4	0.8	1.3	1.7	2.2	2.6
Solar Cell	—	—	—	—	0	0	0	0	0.0	0.0
Electric Utilities	—	—	—	—	0	0	0	0	0.0	0.0
Industry-owned	—	—	—	—	—	—	—	—	0.0	0.0
Total	1,046.3	1,066.1	1,091.5	1,075.9	1,101.3	1,094.0	1,137.3	1,157.9	1,161.1	1,192.7
Electric Utilities	909.2	921.0	940.7	922.0	935.8	920.1	946.8	969.1	972.9	1,004.6
Industry-owned	137.1	145.1	150.8	153.9	165.5	173.8	190.6	188.8	188.2	188.1

Source: FEPC

Electric Power Consumption (TWh)

	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Supplied by Electric Utilities	818.3	836.7	858.1	844.3	862.9	858.2	892.1	918.3	927.1	959.6
Residential	240.9	248.2	254.6	254.5	263.4	259.7	272.6	281.3	278.3	289.7
Commercial and Industrial	577.4	588.5	363.6	358.3	362.4	359.7	250.8	52.8	49.4	49.7
Deregulated Customers			239.9	231.5	237.1	238.8	368.8	559.7	575.5	595.5
Customers in Designated Service Districts								17.4	16.3	16.8
Consumption of Power for Station Operation								7.1	7.7	7.8
Consumption of Independently Generated Power	116.3	120.6	124.0	123.4	126.8	126.5	127.3	125.5	121.2	115.9
Total Consumption	934.7	957.4	982.1	967.7	989.7	984.8	1,019.3	1,043.8	1,048.3	1,075.6

Note: Figures for electric utilities since fiscal 1998 include special electric utilities. Figures for electric utilities since fiscal 2000 include specified-scale electricity suppliers.
Source: FEPC

Energy Sales by the EPCos (TWh)

	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Residential	240.9	248.2	254.6	254.5	263.4	259.7	272.5	281.3	278.3	289.7
Commercial	175.0	179.7	157.9	159.2	162.5	162.9	125.0	39.4	36.7	37.2
Small Industrial	111.4	113.5	115.8	112.0	112.4	110.3	112.9	–	–	–
Large Industrial	256.1	259.7	74.8*	72.5	73.2	72.8	–	–	–	–
Others	15.5	15.8	15.0	14.5	14.2	13.5	12.8	13.4	12.8	12.7
Subtotal	799.0	816.9	618.1	612.7	625.8	619.2	523.3	334.1	327.7	339.4
Deregulated Customers			219.8	211.4	215.7	215.1	342.2	548.4	561.7	580.1
Total	799.0	816.9	837.9	824.1	841.5	834.3	865.4	882.6	889.4	919.5

* Figures for large industrial customers from 2000 to 2003 do not include specified-scale electricity suppliers. "Large Industrial" for 2004 is included in the "Deregulated Customers" category.
Source: FEPC

Energy Sales by the EPCos by Industrial Category (TWh)

	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Mining	1.3	1.3	1.3	1.2	1.0	0.9	0.9	1.0	1.0	0.9
Foodstuffs	14.6	15.0	15.3	15.5	15.5	15.4	15.4	15.4	16.1	17.2
Textiles	4.3	4.1	3.9	3.6	3.3	3.1	3.0	3.1	3.2	3.2
Pulp and Paper	10.2	10.3	10.5	10.1	10.3	10.1	9.9	10.3	10.5	11.0
Chemicals	25.6	25.7	25.9	24.5	25.7	25.9	26.9	27.7	29.3	31.3
Oil and Coal Products	1.5	1.4	1.5	1.5	1.4	1.4	1.5	1.5	1.6	1.7
Rubber	3.4	3.5	3.5	3.5	3.6	3.6	3.5	3.4	3.3	3.3
Clay and Stone	11.9	11.7	11.9	11.2	11.0	10.9	10.7	11.0	11.8	12.1
Iron and Steel	33.9	34.7	36.5	33.1	34.7	35.2	36.6	36.2	38.9	39.6
Nonferrous Metals	13.4	13.7	14.2	13.1	13.2	13.1	13.3	14.1	15.1	16.8
Machinery	66.5	67.2	69.8	66.2	67.2	68.4	71.8	74.0	78.6	82.6
Other Manufacturing	25.6	26.2	27.0	26.1	26.4	26.2	27.1	27.6	29.3	30.5
Railways	18.1	18.2	18.2	18.2	18.5	18.4	18.8	19.0	18.7	18.7
Others	25.8	26.7	27.7	28.8	29.5	29.3	29.8	29.6	29.7	30.3
Total	256.1	259.7	267.0	256.4	261.4	261.9	269.1	273.8	287.2	299.3

Note: "Industrial" refers to customers with a contracted demand of 500 kW or above.
Source: FEPC

Installed Generating Capacity

(MW)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Thermal	159,054	161,869	166,648	168,729	172,889	174,721	177,472	175,767	176,339	176,894
Electric Utilities	132,925	134,312	138,163	138,918	140,419	140,386	140,742	139,216	138,890	138,127
Industry-owned	26,129	27,557	28,485	29,810	32,470	34,335	36,730	36,551	37,449	38,767
Nuclear	45,248	45,248	45,248	45,907	45,907	45,742	47,122	49,580	49,467	49,467
Electric Utilities	45,083	45,083	45,083	45,742	45,742	45,742	47,122	49,580	49,467	49,467
Industry-owned	165	165	165	165	165	—	—	—	—	—
Hydroelectric	45,382	45,860	46,324	46,387	46,545	46,781	46,803	47,357	47,375	47,637
Electric Utilities	43,888	44,399	44,852	44,883	44,901	45,197	45,191	45,665	45,685	45,977
Industry-owned	1,494	1,461	1,472	1,503	1,644	1,584	1,612	1,692	1,689	1,660
Geothermal	533	533	533	533	510	535	535	535	532	532
Electric Utilities	497	497	497	497	497	497	497	497	497	497
Industry-owned	36	36	36	36	13	38	38	38	35	35
Fuel Cell	1	—	—	—	0	0	0	0	3	3
Electric Utilities	0	—	—	—	—	—	—	—	—	—
Industry-owned	1	—	—	—	0	0	0	0	3	3
Solar Cell	—	—	—	—	0	0	0	2	9	10
Electric Utilities	—	—	—	—	0	0	0	0	0	0
Industry-owned	—	—	—	—	—	—	—	1	9	10
Wind Power	6	34	84	175	277	508	769	1,227	1,805	1,527
Electric Utilities	0	1	1	1	4	4	4	4	4	4
Industry-owned	6	33	83	174	273	504	765	1,223	1,801	1,523
Total	250,124	253,544	258,837	261,730	266,129	268,287	272,701	274,468	275,529	276,070
Electric Utilities	222,227	224,291	228,596	230,041	231,564	231,826	233,556	234,963	234,544	234,073
Industry-owned	27,897	29,253	30,241	31,689	34,566	36,460	39,145	39,506	40,985	41,998

Note: Figures for industry-owned generation represent the total amount generated by power plants with a generating capacity of 1,000 kW or above.
Source: FEPC

Installed Generating Capacity and Electric Power Generation by Electric Utilities (As of March 31, 2008)

Company	Thermal*		Nuclear		Hydroelectric		Wind		Solar Cell		Total	
	MW	GWh	MW	GWh	MW	GWh	MW	GWh	MW	GWh	MW	GWh
Hokkaido EPCo	4,115	18,956	1,158	9,122	1,231	3,063	—	—	—	—	6,504	31,140
Tohoku EPCo	11,107	50,969	3,274	19,062	2,417	7,892	—	—	—	—	16,798	77,922
Tokyo EPCo	36,179	193,082	17,308	68,307	8,985	12,068	1	0	—	—	62,473	273,457
Chubu EPCo	22,369	103,794	4,884	25,168	5,218	8,158	—	—	—	—	32,471	137,121
Hokuriku EPCo	4,400	25,302	1,898	—	1,816	5,518	—	—	—	—	8,114	30,820
Kansai EPCo	16,407	50,804	9,768	64,339	8,189	12,395	—	—	—	—	34,364	127,539
Chugoku EPCo	7,641	40,081	1,280	8,485	2,905	2,875	—	—	—	—	11,826	51,441
Shikoku EPCo	3,501	14,628	2,022	15,415	1,141	1,666	0	1	0	0	6,665	31,709
Kyushu EPCo	11,778	36,726	5,258	39,641	2,677	3,545	3	6	—	—	19,716	79,918
Okinawa EPCo	1,925	6,681	—	—	—	—	—	—	—	—	1,925	6,681
Subtotal	119,424	541,022	46,850	249,538	34,579	57,179	—	—	—	—	200,857	847,747
J-POWER	7,825	55,872	—	—	8,556	10,428	—	—	0	0	16,380	66,300
JAPC	—	—	2,617	14,294	—	—	—	—	—	—	2,617	14,294
Others	11,375	67,035	—	—	2,843	10,542	—	—	—	—	13,022	76,281
Total	138,659	663,930	49,467	263,832	45,978	76,853	4	6	0	0	234,073	1,004,622

* Thermal includes geothermal.
Source: FEPC

Fossil Fuel Consumed for Power Generation by Electric Utilities

	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Heavy Oil (thousand kl)	13,101	13,098	11,750	8,487	11,110	12,601	10,147	11,673	8,978	14,239
Crude Oil (thousand kl)	9,469	9,184	7,510	4,559	6,579	5,810	6,051	7,799	6,120	11,301
Naphtha (thousand kl)	111	123	113	23	18	5	6	—	—	—
LNG (thousand t)	35,359	37,662	38,663	38,174	37,914	39,063	37,170	34,639	37,178	42,105
Coal* (thousand t)	46,072	51,803	57,785	62,328	67,759	73,460	77,876	82,460	79,523	84,205
Total (thousand kl heavy oil equivalent)**	105,127	111,564	113,985	110,456	118,892	124,387	121,899	124,174	122,753	140,503

* Coal refers to wet coal.

** Total includes small amounts of NGL, gas oil, LPG, natural gas and other gases.

Source: FEPC

Sulfur Content of Fossil Fuels Used by the EPCOs (%)

	FY 1972	1982	1987	1992	1997	2002	2003	2004	2005	2006
Coal	0.56	0.62	0.60	0.59	0.53	0.50	0.49	0.44	0.54	0.55
Heavy Oil	1.01	0.75	0.66	0.78	0.98	0.78	0.69	0.81	0.70	0.93
Crude Oil	0.89	0.10	0.10	0.10	0.11	0.11	0.10	0.11	0.09	0.11
Average: Heavy Oil Equivalent (After desulfurization)	0.95 (0.95)	0.39 (0.18)	0.29 (0.10)	0.30 (0.09)	0.29 (0.06)	0.32 (0.06)	0.32 (0.06)	0.35 (0.07)	0.32 (0.06)	—

Notes: 1. Figures in parentheses indicate the percentage of sulfur content in desulfurized flue gas.

2. Sulfur content for Okinawa EPCo is included after fiscal 1998.

Source: FEPC

Transmission, Transformation and Distribution Facilities of the EPCOs (As of March 31, 2008)

Voltage (kV)	Transmission Lines (km)				Transformers	
	Route Length		Circuit Length		Number	Maximum Output (MVA)
	Overhead	Underground	Overhead	Underground		
500	7,167	89	13,945	177	76	201,860
275	7,443	553	14,676	1,401	156	166,950
220	2,760	56	5,215	123	61	36,440
187	2,845	15	5,446	35	38	15,563
110-154	15,744	934	28,708	1,792	664	145,321
66-77	38,086	6,765	67,989	12,158	4,392	215,598
<55	9,027	3,378	10,260	5,323	1,241	9,532
	Distribution Lines (thousand km)				Distribution Transformers (MVA)	
	925*	40*	3,948	68	296,423 (Overhead) 29,621 (Underground)	

* When high- and low-voltage lines run in parallel, the low-voltage line length is disregarded.

Source: FEPC

Principal Thermal Power Plants Owned by Electric Utilities (1,000 MW or above, as of March 31, 2008)

Plant	Company	Installed Capacity (MW)	Unit Capacity (MW) × No. of Units	Fuel	Year Commissioned
Aioi	Kansai EPCo	1,125	375 × 3	Heavy, crude oil	1982–83
Akita	Tohoku EPCo	1,300	350 × 2 600 × 1	Heavy, crude oil Heavy, crude oil	1972–74 1980
Ako	Kansai EPCo	1,200	600 × 2	Heavy, crude oil	1987
Anan	Shikoku EPCo	1,245	125 × 1 220 × 1 450 × 2	Heavy oil Heavy, crude oil Heavy, crude oil	1963 1969 1975–76
Anegasaki	Tokyo EPCo	3,600	600 × 2 600 × 2 600 × 2	LNG, heavy, crude oil LNG, LPG, heavy, crude oil LNG, LPG	1967–69 1971–72 1977–79
Atsumi	Chubu EPCo	1,900	500 × 1 700 × 2	Heavy, crude oil Heavy, crude oil	1971 1981
Buzen	Kyushu EPCo	1,000	500 × 2	Heavy, crude oil	1977–80
Chiba	Tokyo EPCo	2,880	1,440 × 2	LNG (Combined-cycle)	1998–00
Chita	Chubu EPCo	3,966	375 × 2 500 × 1 700 × 1 700 × 2 154 × 4	LNG Heavy, crude oil, LNG Heavy, crude oil, LNG LNG LNG (Gas turbine)	1966–67 1968 1974 1978 1994–96
Chita No. 2	Chubu EPCo	1,708	700 × 2 154 × 2	LNG LNG (Gas turbine)	1983 1994–96
Futtsu	Tokyo EPCo	3,520	1,000 × 2 1,520 × 1	LNG (Combined-cycle) LNG (Combined-cycle)	1985–88 2003
Gobo	Kansai EPCo	1,800	600 × 3	Heavy, crude oil	1984–85
Goi	Tokyo EPCo	1,886	265 × 2 265 × 2 350 × 2 126 × 1	LNG LNG LNG LNG (Gas turbine)	1963–65 1964–66 1968 1994
Haramachi	Tohoku EPCo	2,000	1,000 × 2	Coal	1997–98
Hekinan	Chubu EPCo	4,100	700 × 3 1,000 × 2	Coal Coal	1991–93 2001–02
Higashi Ohgishima	Tokyo EPCo	2,000	1,000 × 2	LNG	1987–91
Higashi-Niigata	Tohoku EPCo	4,600	600 × 2 1,090 × 1 1,610 × 1 350 × 2	LNG, NG, heavy, crude oil LNG (Combined-cycle) LNG (Combined-cycle) LNG, heavy oil	1977–83 1985 2006 1972–75
Himeji No. 1	Kansai EPCo	1,442	729 × 1 713 × 1	LNG (Combined-cycle) LNG (Combined-cycle)	1995 1996
Himeji No. 2	Kansai EPCo	2,550	250 × 1 325 × 2 450 × 1 600 × 2	LNG LNG LNG LNG	1963 1964–65 1968 1973
Hirono	Tokyo EPCo	3,800	600 × 1 600 × 1 1,000 × 2 600 × 1	Heavy, crude oil NG, heavy, crude oil NG, heavy, crude oil Coal	1980 1980 1989–93 2004
Hitachinaka	Tokyo EPCo	1,000	1,000 × 1	Coal	2003
Isogo No. 1	J-POWER	600	600 × 1	Coal	2002
Kainan	Kansai EPCo	2,100	450 × 2 600 × 2	Heavy, crude oil Heavy, crude oil	1970 1973–74
Kashima	Tokyo EPCo	4,400	600 × 4 1,000 × 2	Heavy, crude oil Heavy, crude oil	1971–72 1974–75
Kashima Kyodo	Kashima Kyodo Electric Power Co.	1,400	350 × 3 350 × 1	Heavy oil, BFG, COG Heavy oil, BFG	1973–82 1973
Kawagoe	Chubu EPCo	4,802	700 × 2 1,701 × 2	LNG LNG (Combined-cycle)	1989–90 1996–97
Matsushima	J-POWER	1,000	500 × 2	Coal	1981
Matsuura	J-POWER	2,000	1,000 × 2	Coal	1990–97
Minami-Yokohama	Tokyo EPCo	1,150	350 × 2 450 × 1	LNG LNG	1970 1973
Misumi	Chugoku EPCo	1,000	1,000 × 1	Coal	1998
Nakoso	Joban Joint Power Co., Ltd.	1,625	175 × 1 250 × 1 600 × 1 600 × 1	Heavy oil Coal, heavy oil Coal, CWM, heavy oil Coal, heavy oil	1966 1970 1983 1983
Nanao Ohta	Hokuriku EPCo	1,200	500 × 1 700 × 1	Coal Coal	1995 1998
Nanko	Kansai EPCo	1,800	600 × 3	LNG	1990–91

(Continued)

Plant	Company	Installed Capacity (MW)	Unit Capacity (MW) × No. of Units	Fuel	Year Commissioned
Nishi Nagoya	Chubu EPCo	1,190	220 × 1	Heavy oil	1970
			220 × 1	Heavy, crude oil	1970
			375 × 2	Heavy, crude oil	1972
Noshiro	Tohoku EPCo	1,200	600 × 2	Coal	1993–94
Ohi	Tokyo EPCo	1,050	350 × 3	Crude oil	1971–73
Reihoku	Kyushu EPCo	1,400	700 × 2	Coal	1995–2003
Sakaide	Shikoku EPCo	1,150	350 × 1	COG, heavy oil	1972
			450 × 1	COG, heavy, crude oil	1973
			350 × 1	COG, heavy, crude oil	1974
Sakaiko	Kansai EPCo	2,000	250 × 8	LNG	1964–71
Sendai	Kyushu EPCo	1,000	500 × 2	Heavy, crude oil	1974–85
Shin Kokura	Kyushu EPCo	1,800	600 × 3	LNG	1978–83
Shin Nagoya	Chubu EPCo	1,458	1,458 × 1	LNG (Combined-cycle)	1998
Shin Oita	Kyushu EPCo	2,295	690 × 1	LNG (Combined-cycle)	1990–91
			870 × 1	LNG (Combined-cycle)	1994–95
			735 × 1	LNG (Combined-cycle)	1998
Shin Onoda	Chugoku EPCo	1,000	500 × 2	Coal	1986–87
Shinagawa	Tokyo EPCo	1,140	1,140 × 1	LNG (Combined-cycle)	2003
Shinchi	Soma Joint Power Co.	2,000	1,000 × 2	Coal	1994–95
Sodegaura	Tokyo EPCo	3,600	600 × 1	LNG	1974
			1,000 × 3	LNG	1975–79
Tachibanawan	J-POWER	2,100	1,050 × 2	Coal	2000
Takehara	J-POWER	1,300	250 × 1	Coal	1967
			350 × 1	Coal	1995
			700 × 1	Coal	1983
Taketoyo	Chubu EPCo	1,125	375 × 3	Heavy, crude oil	1972
Tamashima	Chugoku EPCo	1,200	350 × 2	Heavy, crude oil	1971–72
			500 × 1	Heavy, crude oil	1974
Tanagawa No. 2	Kansai EPCo	1,200	600 × 2	Heavy, crude oil, naphtha	1977
Tomato-Atsuma	Hokkaido EPCo	1,650	350 × 1	Coal	1980
			600 × 1	Coal	1985
			700 × 1	Coal	2002
Toyama Shinko	Hokuriku EPCo	1,500	500 × 2	Heavy, crude oil	1974–81
			250 × 2	Coal, heavy oil	1971–72
Tsuruga	Hokuriku EPCo	1,200	500 × 1	Coal	1991
			700 × 1	Coal	2000
Yanai	Chugoku EPCo	1,400	700 × 2	LNG (Combined-cycle)	1992–96
Yokkaichi	Chubu EPCo	1,245	220 × 3	LNG	1963
			585 × 1	LNG, LPG (Combined-cycle)	1988
Yokohama	Tokyo EPCo	3,325	175 × 1	LNG, heavy, crude oil	1964
			350 × 1	LNG, heavy, crude oil	1968
			1,400 × 2	LNG (Combined-cycle)	1996–98
Yokosuka	Tokyo EPCo	2,130	350 × 6	Heavy, crude oil	1964–70
			30 × 1	Light oil (Gas turbine)	1971

Note: Plants are listed in alphabetical order.

Source: 10 EPCOs, J-POWER, METI

Under Construction (500 MW or above, as of March 31, 2008)

Plant	Company	Unit Capacity (MW)		Fuel	Year Commissioned
Kawasaki	Tokyo EPCo	1,500	500	LNG (Combined-cycle)	2007 (completed)
			500		2008
			500		2009
Shin-Nagoya	Chubu EPCo	1,534	383.6	LNG (Combined-cycle)	2008
			383.6		2008
			383.6		2008
			383.6		2008
Futtsu	Tokyo EPCo	1,520	507	LNG (Combined-cycle)	2008
			507		2009
			507		2010
Sakaiko	Kansai EPCo	2,000	400	LNG (Combined-cycle)	2009
			400		2009
			400		2009
			400		2010
			400		2010
Isogo No. 2	J-POWER	600		Coal	2009
Maizuru	Kansai EPCo	900		Coal	2010
Yoshinoura	Okinawa EPCo	502	251	LNG (Combined-cycle)	2011
			251		2012
Joetsu	Chubu EPCo	1,190		LNG (Combined-cycle)	2012–13
		1,190		LNG (Combined-cycle)	2013–17
Hitachinaka	Tokyo EPCo	1,000		Coal	2014–
Osaki	Chugoku EPCo	500		Coal (PFBC*)	2018
Matsuura	Kyushu EPCo	1,000		Coal	2023–

*PFBC: Pressurized fluidized bed combustion combined-cycle system

Note: Plants are listed in order of the year in which the first generator will be commissioned.

Source: 10 EPCOs, J-POWER

Geothermal Power Plants (5 MW or above, as of March 31, 2008)

Plant	Company	Installed Capacity (MW)	Generation (MW)	Year Commissioned
Hatchobaru	Kyushu EPCo	55	Double-flush	1977
		55	Double-flush	1990
Kakkonda	Tohoku EPCo	50	Single-flush	1978
	Tohoku Hydropower and Geothermal Energy Co.			
	Tohoku EPCo	30	Single-flush	1996
Tohoku Hydropower and Geothermal Energy Co.				
Matsukawa	Tohoku Hydropower and Geothermal Energy Co.	23.5	Dry-steam	1966
Mori	Hokkaido EPCo	50	Double-flush	1982
Ogiri	Kyushu EPCo	30	Single-flush	1996
	Nittetsu Kagoshima Geothermal Co.			
Onikobe	J-POWER	12.5	Single-flush	1975
Onuma	Mitsubishi Material Co.	9.5	Single-flush	1974
Otake	Kyushu EPCo	12.5	Single-flush	1967
Sumikawa	Tohoku EPCo	50	Single-flush	1995
	Mitsubishi Material Co.			
Takigami	Kyushu EPCo	25	Single-flush	1996
	Idemitsu Oita Geothermal Co.			
Uenotai	Tohoku EPCo	28.8	Single-flush	1994
	Akita Geothermal Energy Co.			
Yamagawa	Kyushu EPCo	30	Single-flush	1995
Yanaizu-Nishiyama	Tohoku EPCo	65	Single-flush	1995
	Okuaizu Geothermal Co.			

Note: Plants are listed in alphabetical order.

Sources: FEPC, J-POWER, Thermal and Nuclear Power Engineering Society

Nuclear Power Plants (As of March 31, 2008)

Plant	Company	Installed Capacity (MW)	Unit Number	Type of Reactor	Unit Capacity (MW)	Year Commissioned
Fukushima No. 1	Tokyo EPCo	4,696	No. 1	BWR	460	1971
			No. 2	BWR	784	1974
			No. 3	BWR	784	1976
			No. 4	BWR	784	1978
			No. 5	BWR	784	1978
			No. 6	BWR	1,100	1979
Fukushima No. 2	Tokyo EPCo	4,400	No. 1	BWR	1,100	1982
			No. 2	BWR	1,100	1984
			No. 3	BWR	1,100	1985
			No. 4	BWR	1,100	1987
Genkai	Kyushu EPCo	3,478	No. 1	PWR	559	1975
			No. 2	PWR	559	1981
			No. 3	PWR	1,180	1994
			No. 4	PWR	1,180	1997
Hamaoka	Chubu EPCo	4,884	No. 1	BWR	540	1976
			No. 2	BWR	840	1978
			No. 3	BWR	1,100	1987
			No. 4	BWR	1,137	1993
			No. 5	ABWR	1,267	2005
Higashi-dori	Tohoku EPCo	1,100	No. 1	BWR	1,100	2005
Ikata	Shikoku EPCo	2,022	No. 1	PWR	566	1977
			No. 2	PWR	566	1982
			No. 3	PWR	890	1994
Kashiwazaki Kariwa	Tokyo EPCo	8,212	No. 1	BWR	1,100	1985
			No. 2	BWR	1,100	1990
			No. 3	BWR	1,100	1993
			No. 4	BWR	1,100	1994
			No. 5	BWR	1,100	1990
			No. 6	ABWR	1,356	1996
			No. 7	ABWR	1,356	1997
Mihama	Kansai EPCo	1,666	No. 1	PWR	340	1970
			No. 2	PWR	500	1972
			No. 3	PWR	826	1976
Ohi	Kansai EPCo	4,710	No. 1	PWR	1,175	1979
			No. 2	PWR	1,175	1979
			No. 3	PWR	1,180	1991
			No. 4	PWR	1,180	1993
Onagawa	Tohoku EPCo	2,174	No. 1	BWR	524	1984
			No. 2	BWR	825	1995
			No. 3	BWR	825	2002
Sendai	Kyushu EPCo	1,780	No. 1	PWR	890	1984
			No. 2	PWR	890	1985
Shika	Hokuriku EPCo	1,898	No. 1	BWR	540	1993
			No. 2	ABWR	1,358	2006
Shimane	Chugoku EPCo	1,280	No. 1	BWR	460	1974
			No. 2	BWR	820	1989
Takahama	Kansai EPCo	3,392	No. 1	PWR	826	1974
			No. 2	PWR	826	1975
			No. 3	PWR	870	1985
			No. 4	PWR	870	1985
Tokai No. 2	JAPC	1,100		BWR	1,100	1978
Tomari	Hokkaido EPCo	1,158	No. 1	PWR	579	1989
			No. 2	PWR	579	1991
Tsuruga	JAPC	1,517	No. 1	BWR	357	1970
			No. 2	PWR	1,160	1987

Note: Plants are listed in alphabetical order.
Source: 10 EPCOs, JAPC

Under Construction (As of March 31, 2008)

Plant	Company	Unit Number	Type of Reactor	Unit Capacity (MW)	Year Commissioned
Tomari	Hokkaido EPCo	No. 3	PWR	912	2009
Shimane	Chugoku EPCo	No. 3	ABWR	1,373	2011

Note: Plants are listed in order of the year in which the first generator will be commissioned.
Source: 10 EPCOs, JAPC

Principal Hydroelectric Power Plants Owned by Electric Utilities (360 MW or above, as of March 31, 2008)

Plant	Company	Type	Installed Capacity (MW)	Maximum Discharge (m ³ /sec)	Effective Head (m)	Year Commissioned
Azumi	Tokyo EPCo	Pumped-storage	623	540	136	1969
Hongawa	Shikoku EPCo	Pumped-storage	615	140	528	1984
Imaichi	Tokyo EPCo	Pumped-storage	1,050	240	524	1988
Kannagawa	Tokyo EPCo	Pumped-storage	470	510	653	2005
Kazunogawa No. 1, No. 2	Tokyo EPCo	Pumped-storage	800	140	714	1999
Kisenyama	Kansai EPCo	Pumped-storage	466	248	220	1970
Matanogawa	Chugoku EPCo	Pumped-storage	1,200	300	489	1996
Nabara	Chugoku EPCo	Pumped-storage	620	254	294	1976
Numappara	J-POWER	Pumped-storage	675	173	478	1973
Numazawa No. 2	Tohoku EPCo	Pumped-storage	460	250	214	1982
Ohira	Kyushu EPCo	Pumped-storage	500	124	490	1975
Okawachi	Kansai EPCo	Pumped-storage	1,280	382	395	1995
Okukiyotsu	J-POWER	Pumped-storage	1,000	260	470	1982
Okukiyotsu No. 2	J-POWER	Pumped-storage	600	154	470	1996
Okumino	Chubu EPCo	Pumped-storage	1,500	375	486	1994
Okutadami	J-POWER	Conventional	560	249	170	2003
Okutataragi	Kansai EPCo	Pumped-storage	1,932	594	388	1998
Okuyahagi No. 2	Chubu EPCo	Pumped-storage	780	234	405	1980
Okuyoshino	Kansai EPCo	Pumped-storage	1,206	288	505	1980
Shimogo	J-POWER	Pumped-storage	1,000	314	387	1991
Shin Takasegawa	Tokyo EPCo	Pumped-storage	1,280	644	229	1979
Shin Toyone	J-POWER	Pumped-storage	1,125	645	203	1973
Shiobara	Tokyo EPCo	Pumped-storage	900	324	338	1994
Tagokura	J-POWER	Conventional	385	420	105	1961
Tambara	Tokyo EPCo	Pumped-storage	1,200	276	518	1982
Tenzan	Kyushu EPCo	Pumped-storage	600	140	520	1987

Notes: 1. Plants are listed in alphabetical order.

2. "Year Commissioned" refers to the date operation began with the installed capacity indicated in the chart.

Sources: 10 EPCOs, J-POWER

Under Construction (360 MW or above, as of March 31, 2008)

Plant	Company	Type	Installed Capacity (MW)	Maximum Discharge (m ³ /sec)	Effective Head (m)	Year Commissioned	
Omarugawa	Kyushu EPCo	Pumped-storage	1,200	300	222	646	2007 (completed)
			300				2009
			300				2010
			300				2011
Kannagawa	Tokyo EPCo	Pumped-storage	2,350	470	510	653	2012
			1,880				
Kyogoku	Hokkaido EPCo	Pumped-storage	600	200	(190.5)	(369)	2015
				400			
Kazunogawa No. 3, No. 4	Tokyo EPCo	Pumped-storage	800		(140)	(714)	2017-

Note: Plants are listed in order of the year in which the first generator will be commissioned.

Source: 10 EPCOs, J-POWER

Peak Capacity, Peak Load, Energy Requirement, Reserve Margin and Load Factor

	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Peak Capacity (GW)	194.1	195.9	194.0	194.0	196.5	192.6	198.3	198.7	198.6	194.5
Peak Load (GW)	168.2	168.0	172.3	177.5	176.7	167.3	175.8	174.9	175.5	181.3
Energy Requirement (TWh)	866.3	884.2	905.2	889.7	912.6	906.0	942.1	961.9	970.8	1,004.5
Reserve (GW)	25.9	27.8	21.7	16.4	19.8	25.3	22.5	23.8	23.4	13.2
Reserve Margin (%)	15.4	16.6	12.6	9.3	11.2	15.1	12.8	13.6	13.2	7.3
Load Factor (%)	58.8	59.9	60.0	57.2	59.0	61.5	61.2	62.8	63.2	63.1

Notes: 1. Peak capacity and peak load are for all electric utilities in Japan. Peak capacity is the largest possible supply capacity; peak load is the average value of the three highest daily loads at the transmission end occurring during the month in which the annual peak is recorded.

2. Energy requirement is the total annual demand for electric utilities in Japan.

3. Reserve = Peak Capacity – Peak Load

$$\text{Reserve Margin} = \frac{\text{Reserve} \times 100}{\text{Peak Load}}$$

4. Load Factor = $\frac{\text{Energy Requirement} \times 100}{\text{Peak Load} \times 365 \text{ (366) days} \times 24 \text{ hours}}$

Source: Japan Electric Power Survey Committee

Balance of Electricity Supply and Demand (Electric Utilities)

	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Electric Energy Requirement (TWh)										
At Transmission End	866.4	884.3	905.1	889.7	912.6	906.0	942.1	961.9	970.8	1,004.5
At Customer End	818.3	836.7	858.1	844.3	862.9	858.2	893.0	913.3	922.3	955.2
Annual Peak Balance (GW)										
Peak Capability										
Thermal Power Plants*	116.7	119.9	120.9	121.9	119.3	125.8	125.4	124.4	123.9	124.9
Nuclear Power Plants	39.4	38.6	36.8	35.0	40.2	26.6	34.4	35.0	35.5	31.3
Hydroelectric Power Plants	36.2	35.8	34.7	35.2	35.0	37.8	35.7	36.3	36.9	34.9
Others	1.8	1.6	1.7	1.8	1.9	2.4	2.9	3.0	3.4	3.3
Total Peak Capacity	194.1	195.9	194.0	194.0	196.5	192.6	198.3	198.7	198.6	194.5
Peak Load	168.2	168.0	172.3	177.5	176.7	167.3	175.8	174.9	175.5	181.3
Reserve	25.9	27.8	21.7	16.4	19.8	25.3	22.5	23.8	23.2	13.2
Reserve Margin (%)	15.4	16.6	12.6	9.3	11.2	15.1	12.8	13.6	13.2	7.3
Total Generating Capacity (GW)										
Thermal Power Plants*	135.2	137.9	142.2	142.8	146.3	147.8	149.9	148.1	147.9	147.5
Nuclear Power Plants	44.9	44.9	44.9	45.7	45.7	45.7	47.1	49.6	49.5	49.5
Hydroelectric Power Plants	43.9	44.4	44.9	45.0	45.0	45.4	45.4	45.9	45.9	46.2
Total	224.1	227.0	232.0	233.5	237.0	238.9	242.4	243.7	243.3	243.2

*Includes geothermal power plants.

Source: Japan Electric Power Survey Committee

Long-Term Energy Supply (As of March 2006)

Fuel Type (Million kl oil equivalent)	FY1990 (Actual)		FY2000 (Actual)		FY2030 (Projected)					
					Reference Case	Energy Saving Measures Case		New Energy Promotion Measures Case		
Oil	290	(57)%	293	(50)%	256	(42)%	215	(40)%	253	(41)%
Coal	86	(17)	107	(18)	106	(17)	93	(17)	102	(17)
Natural Gas	53	(10)	79	(13)	108	(18)	86	(16)	95	(16)
Nuclear	49	(10)	75	(13)	90	(15)	95	(18)	91	(15)
Hydroelectric	22	(4)	20	(3)	20	(3)	20	(4)	20	(3)
Geothermal	0	(0)	1	(0)	1	(0)	1	(0)	1	(0)
New Energy	12	(2)	14	(2)	27	(2)	27	(5)	46	(8)
Total	512	(100)%	588	(100)%	607	(100)%	536	(100)%	607	(100)%

Notes: 1. Oil includes LPG.

2. "Reference Case" assumes that trends observed in the past will continue in the future.

3. "Energy Saving Measures Case" assumes development of energy-saving equipment, new technologies, heat pumps and distributed power plants.

4. "New Energy Promotion Measures Case" assumes that the share of new energy in the primary energy supply will be approximately 10% in fiscal 2030.

Source: METI

Financial Data

Revenues and Expenditures for the EPCOs										
	(Billion yen)									
	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Revenues										
Residential	5,633	5,724	5,875	5,799	5,751	5,582	5,783	5,848	5,768	6,022
Commercial and Industrial	8,878	8,796	9,008	8,804	8,318	8,088	8,154	8,124	8,322	8,601
Intercompany Power Sales	627	600	618	615	528	477	448	485	503	506
Power Sales to Other Utilities	18	16	20	19	22	34	48	72	88	104
Others	198	238	235	282	305	296	360	479	584	570
Total	15,356	15,376	15,758	15,521	14,927	14,478	14,796	15,010	15,266	15,803
Expenditures										
Personnel	1,931	1,835	1,816	1,758	1,883	1,796	1,665	1,502	1,389	1,266
Fuel	1,603	1,698	2,008	1,911	2,021	2,044	2,178	2,755	3,117	4,471
Maintenance	1,793	1,768	1,701	1,588	1,392	1,362	1,422	1,410	1,509	1,513
Interest Charges	1,298	1,152	1,052	883	737	616	574	474	442	406
Depreciation	2,971	2,897	2,791	2,761	2,617	2,477	2,376	2,302	2,136	2,155
Taxes and Public Charges	1,060	1,050	1,063	1,052	1,041	1,017	1,020	1,003	998	986
Intercompany Power Purchases	627	600	618	615	528	477	448	484	514	493
Power Purchases	1,107	1,078	1,186	1,231	1,297	1,277	1,360	1,420	1,444	1,576
Provision for (Reversal of) Reserve for Fluctuations in Water Levels	14	(4)	—	(7)	(3)	32	33	(29)	10	(29)
Income Taxes	350	196	359	364	339	348	416	436	426	63
Others	2,282	2,759	2,528	2,713	2,477	2,398	2,575	2,494	2,608	2,988
Total	15,041	15,033	15,125	14,873	14,332	13,849	14,074	14,256	14,603	15,744
Net Income	314	342	633	647	595	628	722	754	663	59

Note: The figures may not add up to the totals shown due to rounding.
Source: FEPC

Balance Sheet for the EPCOs										
	(Billion yen)									
	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Assets										
Property	39,109	38,972	38,591	37,899	36,834	35,567	34,166	32,793	31,686	31,046
Thermal Power Plants	5,619	5,265	5,183	5,152	4,856	4,843	4,751	4,297	3,964	3,645
Nuclear Power Plants	3,867	3,510	3,203	3,229	2,894	2,619	2,670	3,068	2,813	2,575
Hydroelectric Power Plants	2,629	2,859	2,792	2,671	2,565	2,448	2,337	2,497	2,402	2,449
Transmission, Transformation and Distribution Equipment	19,056	19,589	19,741	19,512	18,934	18,394	17,828	17,373	16,924	16,512
Construction in Progress	4,714	4,422	4,276	3,756	3,821	3,406	2,746	1,775	1,924	2,189
Nuclear Fuel	1,799	1,934	2,015	2,125	2,314	2,391	2,463	2,437	2,406	2,462
Other Property	1,423	1,390	1,377	1,452	1,447	1,463	1,368	1,343	1,249	1,214
Investment and Other Assets	1,896	2,659	3,230	3,210	3,315	3,508	3,669	4,949	5,281	5,657
Current Assets	1,473	1,591	1,602	1,635	1,534	1,493	1,616	1,827	2,053	2,363
Total	42,479	43,223	43,425	42,746	41,684	40,570	39,453	39,570	39,020	39,066
Liabilities and Net Assets										
Long-Term Debt, Less Current Maturities	25,489	24,873	23,363	22,687	21,873	20,878	19,273	18,391	17,514	18,009
Liability for Severance Payments	639	1,086	—	—	—	—	—	—	—	—
Liability for Retirement Benefits	—	—	1,456	1,480	1,598	1,673	1,647	1,508	1,408	1,319
Reserve for Reprocessing of Irradiated Nuclear Fuel	1,638	1,799	1,981	2,351	2,538	2,699	2,917	2,970	3,106	3,018
Reserve for Decommissioning of Nuclear Power Units	712	765	828	870	919	926	951	1,020	1,067	1,268
Current Liabilities	7,910	7,846	8,293	7,727	6,951	6,116	5,934	6,245	6,095	6,181
Reserves	46	41	40	32	29	61	95	65	81	71
Shareholders' Equity	6,043	6,809	7,461	7,594	7,772	8,214	8,633	9,368	9,747	9,200
Common Stock	2,599	2,599	2,599	2,599	2,599	2,599	2,559	2,655	2,655	2,655
Capital Surplus	270	270	270	270	270	271	271	331	332	329
Retained Earnings	3,173	3,940	4,271	4,563	4,868	5,211	5,643	6,102	6,452	6,175
Unrealized Gain on Securities	—	—	320	172	84	222	227	409	454	219
Treasury Stock	—	—	—	(11)	(50)	(90)	(108)	(130)	(147)	(178)
Total	42,479	43,223	43,425	42,746	41,684	40,570	39,453	39,570	39,020	39,066

Note: The figures may not add up to the totals shown due to rounding.
Source: FEPC

Uses and Sources of Funds for the EPCOs

(Billion yen)

	FY 1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Investments*	3,553	3,258	2,927	2,632	2,075	1,770	1,512	1,497	1,529	1,854
Debt Redemption	8,999	9,328	10,483	12,205	11,601	12,385	10,425	8,361	8,697	8,005
Total Required Funds	12,552	12,586	13,410	14,838	13,677	14,155	11,937	9,859	10,226	9,859
Sources of Funds										
Internal Funds	3,480	3,812	3,761	3,733	3,473	3,419	3,551	2,001	2,452	1,710
Bonds	2,358	1,800	1,738	1,761	1,661	1,125	737	921	1,051	1,661
Loans	6,712	6,973	7,910	9,343	8,543	9,610	7,648	6,936	6,723	6,488
Total Sources of Funds	12,552	12,586	13,410	14,838	13,677	14,155	11,937	9,859	10,226	9,859

* Includes nuclear fuel.

Note: The figures may not add up to the totals shown due to rounding.

Source: FEPC

Summarized Comparative Table Classified by Country in the Year 2006

	Canada	USA	UK	France	Germany	Italy	Russia	China	Korea	Japan
Total Installed Capacity (MW)	123,792	1,067,019	83,045	116,066	113,869	89,449	221,400	517,185	70,384	275,529
Hydroelectric	72,661	96,931	4,150	25,681	10,140	21,072	46,100	117,388	5,485	47,375
Thermal	36,324	970,088*	65,757	24,578	82,515	66,467	151,500	391,376	47,184	176,339
Nuclear	13,345		10,969	63,260	21,214	–	23,700	6,846	17,716	49,467
Total Energy Production (GWh)	585,097	4,054,688	398,327	549,102	591,290	314,090	996,000	2,497,526	404,737	1,161,112
Hydroelectric	351,084	263,029	8,458	60,987	23,936	43,425	175,000	396,396	5,219	97,340
Thermal	141,595	3,791,659*	296,624	53,848	400,084	267,692	665,000	2,043,730	251,148	755,049
Nuclear	92,419		75,451	428,665	167,269	–	156,000	53,088	148,749	303,426
Capacity Factor (%)	53.0	48.4	52.8	54.0	59.3	40.1	49.9	61.9	66.9	–
Total Energy Production per Capital (kWh)	17,741	13,679	6,573	8,950	7,178	5,334	7,004	1,910	8,380	9,088
Domestic Energy Supplies (GWh)	567,914	4,079,413	400,926	478,383	524,280	337,459	980,000	–	386,610	937,439
Energy Sales (GWh)	477,507	3,660,969	328,298	–	–	297,364	–	–	348,719	889,423
Residential	148,631	1,359,227	116,449	–	–	–	–	–	52,521	278,311
Commercial and Industrial	183,288	2,294,235	180,804	–	–	–	–	–	287,509	611,112
Others	145,588	7,506	31,045	–	–	–	–	–	8,689	–
Number of Customers (At year-end; thousands)	–	138,367	29,085	–	–	–	–	–	17,625	82,592
Residential	–	120,761	–	–	–	–	–	–	13,112	74,228
Commercial and Industrial	–	17,606	–	–	–	–	–	–	–	8,365
Others	–	1	–	–	–	–	–	–	–	–
Maximum Demand (MW)	93,740	747,332	59,071	86,300	72,138	55,619	143,500	–	58,994	174,984
Annual Load Factor (%)	65.5	59.3	69.2	63.3	83.8	60.0	74.8	–	73.8	62.9
Thermal Efficiency (%)	32.4	34.0	36.3	–	39.3	43.4	36.9	35.9	41.0	39.4
Loss Factor (Transmission and distribution) (%)	7.1	6.7	8.6	6.6	5.4	5.9	11.0	7.2	4.0	5.0
Total Consumption per Capital (kWh)	16,002	–	5,798	7,286	6,551	5,283	6,135	1,895	7,702	6,970

* Sum of thermal and nuclear capacities.

Source: JEPIC