

October 29, 2010

Electricity Supply & Demand Report for the 1st half of FY2010

1. Electricity demand (See Table 1)

Electricity sales for the 1st half of FY2010 totaled 41.096 billion kWh, which was 109.6% compared with the same period of the previous year, and it reached a record high. Sales by customer segment were as follows:

– Non-Specified Scale Demand (Excluding deregulated segment)

Power demand in the lighting sector was 109.5% compared to the same period of the previous year.

This was primarily because of a record heat wave in this summer, resulting in a higher demand for air-conditioning, and an increase in all-electric housing.

Non-specified scale demand in total was 109.7% of the same period of the previous year.

– Specified Scale Demand (Deregulated segment)

Electric power sold for commercial use was 105.9% of the same period of the previous year.

This was primarily because of a record heat wave in this summer, which created a higher demand for air-conditioning.

Overall power demand in the specified-scale sectors totaled 109.6% of the same period of the previous year.

In the industrial and other sectors, power demand mostly came from large-scale industrial customers, as described in the reference below.

[Reference]

– Large-scale industrial demand

Large-scale industrial demand in total was 112.0% year-on-year. This was because of rebound from the decrease in output in the same period of previous year, and a recovery of production level specifically for non-ferrous metals, steel, machinery and chemical.

2. Electricity supply (See Table 2)

The total amount of electricity generated and purchased for the 1st half of FY2010 hit an all-time high of 44.305 billion kWh, 108.9% compared to the same period of the previous year.

(Power generated by our own hydro power plants)

Due to high precipitation around plant area, there was ample during this period with a high water flow rate of 103.0%. Hydropower generation totaled 4.634 billion kWh, an increase of 602 million kWh from the same period of the previous year.

(Power generated by our own thermal power plants)

Due to an increase of nuclear power generated, thermal power generated at our own plants totaled 18.124 billion kWh, a decrease of 3.949 billion kWh from the same period of the previous year.

(Power generated by our own nuclear power plants)

Due to different operational conditions of the Nuclear Power Plants compared to the same period of the previous year, total power generation rose to 11.887 billion kWh, an increase of 3.730 billion kWh from the same period of the previous year.

(Power generated by our own renewable power plants)[★]

Due to different operational conditions of the Geothermal Power Plants compared to the same period of the previous year, total power generation fell to 451 million kWh, a decrease of 106 million kWh from the same period of the previous year.

(Power purchased)

Due to an increase in purchase of electricity generated by thermal power, total power purchased from others rose to 11.696 billion kWh, an increase of 788 million kWh from the same period of the previous year.

[★] METI Ordinance No.20, March 31, 2010, prescribes that new energy, which is generated by wind, solar and geothermal energy, should be reported separately from other energy resources to the government. According to this new rule, we have categorized geothermal power generation as “renewable”.

(Table 1)

Power demand during the 1st half of FY 2010

(Units: million kWh; %)

Segments		Actual kWh, Current year (A)	Actual kWh, Previous year (B)	Year-to-year percentage (A/B)	Planned kWh, Current year (C)	Actual over planned (A/C)
Non-Specified Scale Demand	Lighting	12,169	11,109	109.5	11,148	109.2
	Power	2,118	1,920	110.4	1,920	110.4
	Subtotal	14,287	13,029	109.7	13,068	109.3
Specified Scale Demand	Commercial	8,648	8,164	105.9	-	-
	Industrial and others	18,161	16,296	111.4	-	-
	Subtotal	26,809	24,460	109.6	25,082	106.9
Total power sold		41,096	37,489	109.6	38,150	107.7

(Reference)

Sold to large-scale industrial customers

(Units: million kWh; %)

	Actual kWh, Current year (A)	Actual kWh, Previous year (B)	Year-to-year percentage (A/B)
Large-scale industrial customers	13,785	12,306	112.0

Year-to-year percentage by sectors (%), Large-scale industrial customers

Foodstuffs	104.5	Pulp and paper	107.2	Chemicals	111.8
Ceramics, stone and clay	113.3	Steel	129.4	Non-ferrous metals	123.9
Machinery	108.6				

(Table 2)

Overview of power supply during the 1st half of FY 2010

(Units: million kWh; %)

Segments			Actual kWh, Current year (A)	Actual kWh, Previous year (B)	Difference (A-B)	Year-to-year percentage (A/B)
Power by our own plants	Hydroelectr	Natural inflow	4,288	3,708	580	115.7
		Reservoir/pumped-storage	346	324	22	106.6
		Subtotal	4,634	4,032	602	114.9
	Thermal		18,124	22,073	-3,949	82.1
	Nuclear		11,887	8,157	3,730	145.7
	Renewable		451	557	-106	81.1
	Subtotal		35,096	34,819	277	100.8
Power purchased from others			11,696	10,908	788	107.2
Interchange power			-2,410	-4,999	2,589	48.2
Pumping-up power			-77	-30	-47	254.8
Total			44,305	40,698 (41,630)	3,607	108.9 (106.4)
Water flow rate			103.0	83.5	19.5	-

(): Planned kWh, current month