

October 29, 2010

## **Electricity Supply & Demand Report for September 2010**

### 1. Electricity demand (See Table 1)

Electric power sold in September totaled 7.217 billion kWh, which was 115.7% compared to 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 124.0% compared to the same period of the previous year.

This was primarily because of continuous higher temperature from August to mid-September, resulting in a higher demand for air-conditioning, and longer time span for meter reading than the previous year.

Non-specified scale demand in total was 125.1% of the same period of the previous year.

#### – Specified Scale Demand (Deregulated segment)

Electric power sold for commercial use was 112.8% of the same period of the previous year.

This was primarily because of continuous higher temperature from August to mid-September which created a higher demand for air-conditioning.

Overall power demand in the specified-scale sectors totaled 111.2% 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 109.3% year-on-year, which exceeded the result of the previous year for the tenth consecutive month. This was because of a rebound from significant decrease in September 2009 compared to the result of the previous year in addition to a recovery movement of production.

## 2. Electricity supply (See Table 2)

Electricity generated and purchased in September totaled 7.258 billion kWh, 109.2% compared to the same period of the previous year.

(Power generated by our own hydro power plants)

Due to high precipitation, there was ample during this period with a high water flow rate of 108.1%. Hydropower generation totaled 590 million kWh, an increase of 188 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 3.442 billion kWh, a decrease of 252 million 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 1.775 billion kWh, an increase of 439 million kWh from the same period of the previous year.

(Power generated by our own renewable power plants)<sup>★</sup>

Due to different operational conditions of the Geothermal Power Plants compared to the same period of the previous year, total power generation fell to 73 million kWh, a decrease of 27 million kWh from the same period of the previous year.

(Power purchased)

Due to different operational conditions of others, total power purchased from others fell to 1.682 billion kWh, a decrease of 82 million kWh from the same period of the previous year.

<sup>★</sup> 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 September 2010

(Units: million kWh; %)

Segments		Actual kWh, Current month (A)	Actual kWh, Previous year (B)	Year-to-year percentage (A/B)	Planned kWh, Current month (C)	Actual over planned (A/C)
Non-Specified Scale Demand	Lighting	2,109	1,701	124.0	1,807	116.7
	Power	407	310	131.4	333	122.3
	Subtotal	2,516	2,011	125.1	2,140	117.6
Specified Scale Demand	Commercial	1,584	1,404	112.8	-	-
	Industrial and others	3,117	2,823	110.4	-	-
	Subtotal	4,701	4,227	111.2	4,325	108.7
Total power sold		7,217	6,238	115.7	6,465	111.6

## (Reference)

## Sold to large-scale industrial customers

(Units: million kWh; %)

	Actual kWh, Current month (A)	Actual kWh, Previous year (B)	Year-to-year percentage (A/B)
Large-scale industrial customers	2,333	2,134	109.3

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

Foodstuffs	108.0	Pulp and paper	102.5	Chemicals	101.7
Ceramics, stone and clay	118.2	Steel	121.0	Non-ferrous metals	116.6
Machinery	106.9				

(Table 2)

## Overview of power supply during September 2010

(Units: million kWh; %)

Segments			Actual kWh, Current month (A)	Actual kWh, Previous year (B)	Difference (A-B)	Year-to-year percentage (A/B)
Power by our own plants	Hydroelectr	Natural inflow	546	365	181	149.8
		Reservoir/pumped-storage	44	37	7	118.7
		Subtotal	590	402	188	146.9
	Thermal		3,442	3,694	-252	93.2
	Nuclear		1,775	1,336	439	132.8
	Renewable★		73	100	-27	72.8
	Subtotal		5,880	5,532	348	106.3
Power purchased from others			1,682	1,764	-82	95.3
Interchange power			-275	-648	373	42.4
Pumping-up power			-29	-1	-28	-
Total			7,258	6,647 (6,772)	611	109.2 (107.2)
Water flow rate			108.1	60.6	47.5	-

( ): Planned kWh, current month

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