

November 29, 2011

## **Electricity Supply & Demand Report for October 2011**

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

Electric power sold in October totaled 5.778 billion kWh, which was 90.1% compared to the same period of the previous year, and which fell below the result of the previous year for the eighth consecutive month because of the Great East Japan Earthquake. Sales by customer segment were as follows:

#### – Non-Specified Scale Demand (Excluding deregulated segment)

Power demand in the lighting (residential) sector was 94.3% compared to the same period of the previous year because of the Great East Japan Earthquake.

Non-specified scale demand in total was 93.9% of the same period of the previous year.

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

Electric power sold for commercial use was 84.0% year-on-year, and which fell below the result of the previous year because of the Great East Japan Earthquake.

Overall power demand in the specified-scale sectors totaled 88.3% 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 89.5% year-on-year because of the Great East Japan Earthquake, and which fell below the result of the previous year for the eighth consecutive month.

## 2. Electricity supply (See Table 2)

Electricity generated and purchased in October totaled 6.346 billion kWh, 89.9% compared to the same period of the previous year, and which fell below the result of the previous year for the eighth consecutive month because of the Great East Japan Earthquake.

(Power generated by our own hydro power plants)

The flow rate was 93.9% during this period.

Due to shut down of several plants caused by the heavy rainfall in Niigata and Fukushima, hydropower generation totaled 354 million kWh, which was decreased 190 million kWh compared to the same period of the previous year.

(Power generated by our own thermal power plants)

Because of the Great East Japan Earthquake, undamaged thermal power plants operated higher than the previous year to offset thermal power generation of damaged power plants. And due to different operational conditions of the thermal power plants, thermal power generated at our own plants totaled 4.123 billion kWh, which was increased 735 million kWh compared to the same period of the previous year.

(Power generated by our own nuclear power plants)

All units of Onagawa and unit 1 of Higashidori nuclear power station have been shut down because of the regular inspection. So, there was no nuclear power generated by our own nuclear power plants.

(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 generated rose to 88 million kWh, which was increased 19 million kWh compared to the same period of the previous year.

(Power purchased)

Because of the Great East Japan Earthquake, power purchased from other thermal power stations was increased to offset power generation of damaged power plants. And due to different operational conditions of others, total power purchased from others rose to 1.690 billion kWh, which was increased 173 million kWh compared to the same period of the previous year.

(Table 1)

## Power demand during October 2011

(Units: million kWh; %)

Segments		Actual kWh, Current month (A)	Actual kWh, Previous year (B)	Year-to-year percentage (A/B)
Non-Specified Scale Demand	Lighting (Residential)	1,687	1,789	94.3
	Power	279	304	91.7
	Subtotal	1,966	2,093	93.9
Specified Scale Demand	Commercial	1,083	1,290	84.0
	Industrial and others	2,729	3,029	90.1
	Subtotal	3,812	4,319	88.3
Total power sold		5,778	6,412	90.1

(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	2,096	2,342	89.5

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

Foodstuffs	86.5	Pulp and paper	64.9	Chemicals	97.7
Ceramics, stone and clay	80.9	Steel	92.5	Non-ferrous metals	86.7
Machinery	91.9				

(Table 2)

## Overview of power supply during October 2011

(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	317	433	-116	73.3
		Reservoir/pumped-storage	37	30	7	124.3
		Subtotal	354	463	-109	76.6
	Thermal	4,123	3,388	735	121.7	
	Nuclear	0	1,854	-1,854	0.0	
	Renewable	88	69	19	125.9	
	Subtotal	4,565	5,774	-1,209	79.1	
Power purchased from others		1,609	1,436	173	112.1	
Interchange power		192	-149	341	-128.9	
Pumping-up power		-20	-1	-19	1,570.8	
Total		6,346	7,060	-714	89.9	
Water flow rate		93.9	88.4	5.5	—	