

January 29, 2013

## **Electricity Supply & Demand Report for December 2012**

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

Electric power sold in December totaled 6,728 GWh, which was 103.2% as compared with the same period of the previous year. This was because of a rebound in sales after the impact of the Great East Japan Earthquake and the lower temperature, resulting in a higher demand for heating. It exceeded the results of the previous year for 10 consecutive months.

Electric power sold in the previous year was significantly decreased by the Great East Japan Earthquake, so for your information, the comparison of the year before last year is also shown in Table 1.

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

Due to a demand for earthquake disaster reconstruction and a higher demand for heating because of the lower temperature, power demand in the lighting (residential) sector was 104.8% as compared with the same period of the previous year, and which exceeded the result of the previous year for 5 consecutive months.

Non-specified scale demand in total was 105.1% of the same period of the previous year.

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

Due to a rebound in sales after the impact of the Great East Japan Earthquake and a higher demand for heating because of the lower temperature, electric power sold for commercial use was 107.0% year-on-year. It exceeded the results of the previous year for 10 consecutive months.

Overall power demand in the specified-scale sectors totaled 101.9% 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 98.9% year-on-year. Due to a low operating rate mainly at export-oriented companies by the slowdown in overseas economy, large-scale industrial demand fell behind the performance of the previous year for 2 consecutive months.

## **2. Electricity supply (See Table 2)**

Electricity generated and purchased in December totaled 8,018 GWh, 102.5% as compared with the same period of the previous year, and it has exceeded the performance of the previous year for 11 consecutive months.

Electricity generated and purchased in the previous year was significantly decreased by the Great East Japan Earthquake, so for your information, the comparison of the year before the last year is also shown in Table 2.

(Power generated by our own hydro power stations)

The flow rate was 72.8% during this period.

Since hydro power stations had been shut down last year because of the heavy rainfall in Niigata and Fukushima, hydropower generation totaled 406 GWh, an increase of 3 GWh from the same period of the previous year.

(Power generated by our own thermal power stations)

Due to the increase of the purchased power, generated output totaled 5,289 GWh, an increase of 137 GWh from the same period of the previous year.

(Power generated by our own nuclear power stations)

All units of Onagawa nuclear power station and unit 1 of Higashidori nuclear power station have been shut down because of regular inspection, so there was no nuclear power generation.

(Power generated by our own renewable power stations)

Since operation of geothermal power stations was different from that of the same period of the previous year, generated output totaled 64 GWh, a decrease of 36 GWh, year-on-year.

(Power purchased)

Due to shutdown of power stations caused by the Great East Japan Earthquake last year, total power purchased from others totaled 2,481 GWh, an increase of 497 GWh from the same period of the previous year.

(Table 1)

## Power demand during December 2012

(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 percentage (A/C)	Reference	
							Actual kWh, The year before last year (D)	The year before last year percentage (A/D)
Non-Specified Scale Demand	Lighting (Residential)	2,361	2,253	104.8	2,305	102.4	2,312	102.1
	Power	319	298	106.7	284	112.0	303	105.1
	Subtotal	2,680	2,551	105.1	2,589	103.5	2,615	102.5
Specified Scale Demand	Commercial	1,338	1,250	107.0	-	-	1,365	98.0
	Industrial and others	2,710	2,722	99.6	-	-	3,010	90.1
	Subtotal	4,048	3,972	101.9	4,162	97.3	4,375	92.5
Total power sold		6,728	6,523	103.2	6,751	99.7	6,990	96.3

(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)	Actual kWh, The year before last year (C)	The year before last year percentage (A/C)
Large-scale industrial customers	2,036	2,057	98.9	2,315	88.0

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

(The year before last year)

Foodstuffs	105.5 (95.3)	Pulp and paper	108.2 (69.6)	Chemicals	92.7 (81.3)
Ceramics, stone and clay	117.6 (109.7)	Steel	114.7 (92.2)	Non-ferrous metals	87.3 (79.0)
Machinery	94.7 (85.5)				

(Table 2)

## Overview of power supply during December 2012

(Units: million kWh; %)

(Units: million kWh, %)

Segments			Actual kWh,	Actual kWh,	Difference	Year-to-year	Reference (The year before last year)		
			Current	Previous			percentage	Actual kWh	Difference
			month	year	(A-B)	(A/B)	(C)	(A-C)	(A/C)
			(A)	(B)					
Power by our own plants	Hydroelectric	Natural inflow	391	358	33	109.2	692	(301)	56.5
		Reservoir/pumped-storage	15	45	(30)	31.8	50	(35)	29.0
		Subtotal	406	403	3	100.5	742	(336)	54.7
	Thermal		5,289	5,152	137	102.7	4,199	1,090	125.9
	Nuclear		0	0	0	-	1,850	(1,850)	0.0
	Renewable		64	100	(36)	64.2	73	(9)	88.4
	Subtotal		5,759	5,655	104	101.8	6,864	(1,105)	83.9
	Power purchased from others		2,481	1,984	497	125.1	2,082	399	119.2
Interchange power		(216)	234	(450)	(92.3)	(789)	573	27.3	
Pumping-up power		(6)	(48)	42	13.0	(1)	(5)	816.1	
Total		8,018	7,825	193	102.5	8,156	(138)	98.3	
Water flow rate		72.8	86.6	(13.8)	-	114.5	(41.7)	-	