



April 30, 2014

## **Electricity Supply & Demand Report for FY2013**

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

Despite a post-quake reconstruction and a recovery of operational rate in large industrial sector, electric power sold in FY2013 totaled 77,452 GWh, which was 99.5% compared with the previous fiscal year, because of a lower temperature in summer and higher temperature in winter resulting in lower demand for air-conditioning.

Sales by customer segment were as follows.

For your information, the comparison with FY2010 is also shown in Table 1.

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

Despite a post-quake reconstruction, power demand in the lighting (residential) sector was 98.7% compared with the previous fiscal year, because of a lower temperature in summer and higher temperature in winter resulting in lower demand for air-conditioning.

Non-specified scale demand in total was 98.0% of the previous fiscal year.

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

Due to a post-quake reconstruction, electric power sold for commercial use was 100.6% year-on-year.

Overall power demand in the specified-scale sectors totaled 100.4% of the previous fiscal 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**

In spite of a lower operating rate mainly at export-oriented companies in the 1st half of FY2013, due to a recovery of operational rate in large industrial sector in the 2nd half of FY2013, large-scale industrial demand in total was 100.5% year-on-year.

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

Electricity generated and purchased in FY2013 totaled 85,169 GWh, 100.1% as compared with the previous fiscal year. It exceeded the performance of the previous year for 2 consecutive years.

For your information, the comparison with FY2010 is also shown in Table 2.

(Power generated by our own hydro power stations)

Since the flow rate was 105.5% due to plentiful rainfall and hydro power stations damaged by the heavy rainfall in Niigata and Fukushima restarted to operate, Hydro power generation increased 1,475 GWh, year-on-year, to 7,432 GWh.

(Power generated by our own thermal power stations)

Since operation of Haramachi thermal power station was different from the previous year, thermal power generation totaled 61,014 GWh, an increase of 8,257 GWh from 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 the previous year, generated output totaled 877 GWh, a decrease of 67 GWh from the previous year.

(Power purchased)

Since operation of power stations was different from that of the previous year, total power purchased from others totaled 23,941 GWh, an increase of 2,657 GWh from the previous year.

(Table 1)

## Power demand during FY2013

(Units: GWh; %)

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 percentage (A/C)	Reference	
							Actual kWh, FY2010 (D)	FY2010 percentage (A/D)
Non-Specified Scale Demand	Lighting (Residential)	24,815	25,153	98.7	24,633	100.7	26,324	94.3
	Power	3,784	4,017	94.2	3,707	102.1	4,284	88.3
	Subtotal	28,599	29,170	98.0	28,340	100.9	30,608	93.4
Specified Scale Demand	Commercial	15,697	15,609	100.6	-	-	16,837	93.2
	Industrial and others	33,156	33,054	100.3	-	-	35,261	94.0
	Subtotal	48,853	48,663	100.4	49,689	98.3	52,098	93.8
Total power sold		77,452	77,833	99.5	78,029	99.3	82,706	93.6

## (Reference)

## Sold to large-scale industrial customers

(Units: GWh; %)

	Actual kWh, Current year (A)	Actual kWh, Previous year (B)	Year-to-year percentage (A/B)	Actual kWh, FY2010 (C)	FY2010 percentage (A/C)
Large-scale industrial customers	24,988	24,871	100.5	26,787	93.3

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

## (Comparison with FY2010)

Foodstuffs	102.8 (97.7)	Pulp and paper	98.1 (76.6)	Chemicals	99.7 (87.3)
Ceramics, stone and clay	103.8 (121.7)	Steel	104.7 (106.6)	Non-ferrous metals	97.0 (88.8)
Machinery	98.8 (88.0)				

(Table 2)

## Overview of power supply during FY2013

(Units: GWh; %)

Segments			Actual kWh, Current year (A)	Actual kWh, Previous year (B)	Difference (A-B)	Year-to-year percentage (A/B)	Reference (FY2010)		
			Actual kWh (C)	Difference (A-C)	percentage (A/C)				
Power by our own plants	Hydroelectric	Natural inflow	6,875	5,461	1,414	125.9	7,658	(783)	89.8
		Reservoir/pumped-storage	557	496	61	112.4	575	(18)	97.0
		Subtotal	7,432	5,957	1,475	124.8	8,233	(801)	90.3
	Thermal		61,014	52,757	8,257	115.6	42,883	18,131	142.3
	Nuclear		0	0	0	-	20,690	(20,690)	0.0
	Renewable		877	944	(67)	93.0	851	26	103.1
	Subtotal		69,323	59,658	9,665	116.2	72,657	(3,334)	95.4
Power purchased from others			23,941	26,598	(2,657)	90.0	22,541	1,400	106.2
Interchange power			(8,045)	(1,081)	(6,964)	744.1	(4,809)	(3,236)	167.3
Pumping-up power			(50)	(69)	19	71.5	(99)	49	50.2
Total			85,169	85,106	63	100.1	90,290	(5,121)	94.3
Water flow rate			105.5	89.4	16.1	-	102.2	3.3	-