

## Electricity Demand in November 2015 (Confirmed Report)

### Demand Overview (Total Sales of 10 Power Companies)

- Electricity demand in November 2015, measured in terms of the total electricity sales of the ten power companies, was down year on year, decreasing by 3.8% to 60.7 billion kWh.

- Outside the liberalized segment, lighting demand dropped by 4.1%, due principally to decreased heating demands caused by relatively higher temperatures in mid-November than the previous year, in addition to a generally shorter meter-reading period compared with a year ago.

Commercial demand in the liberalized segment declined by 5.4%.

Lighting Demand (down 4.1% on the year, 19.29 billion kWh in total)

Commercial Demand (down 5.4% on the year, 12.84 billion kWh in total)

(Reference)

Large industrial user demand declined year on year for the nineteenth consecutive month, decreasing by 2.6%.

This was mainly due to a year-on-year decrease in all major industries.

Large Industrial Demand (down 2.6% on the year, 20.93 billion kWh in total)

### Demand Change by Use

By Use		Year-on-year Change (%)													
		FY2014	Nov. 2014	Dec.	Jan. 2015	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Other than Eligible Customers' Use	Lighting Total	-4.0	-5.2	-1.5	0.9	-3.0	-4.6	4.1	-4.0	-2.7	-2.3	3.5	-0.9	-2.0	-4.1
	Power	-5.4	-5.6	-1.5	1.0	-4.6	-6.3	2.0	-1.2	-1.9	-4.3	1.6	-3.7	-5.2	-3.4
	Lighting & Power Total	-4.1	-5.3	-1.5	0.9	-3.2	-4.8	3.8	-3.6	-2.6	-2.6	3.2	-1.3	-2.5	-4.0
Eligible Customers' Use	Commercial Power	-4.0	-4.1	-2.0	-1.1	-3.2	-4.0	-2.6	-1.5	-3.9	-5.7	-2.9	-5.1	-6.3	-5.4
	Industrial Power	-1.3	-1.6	-0.7	-1.5	-2.4	-2.5	-1.9	-3.0	-2.5	-2.0	-1.8	-3.0	-3.9	-2.7
	Eligible Customers' Use Total	-2.3	-2.4	-1.2	-1.3	-2.7	-3.1	-2.2	-2.5	-3.0	-3.3	-2.2	-3.8	-4.8	-3.6
Total Electricity Sales		-3.0	-3.5	-1.3	-0.3	-3.0	-3.8	0.1	-2.9	-2.9	-3.1	-0.2	-2.9	-4.0	-3.8

### Demand Change by Company and Use (% change on year)

By Use		By Company											
		Hokkaido	Tohoku	Tokyo	Chubu	Hokuriku	Kansai	Chugoku	Shikoku	Kyushu	9-Co. Total	Okinawa	10-Co. Total
Other than Eligible Customers' Use	Lighting	-0.7	-0.7	-4.1	-5.6	-4.4	-5.9	-7.4	-4.1	-1.9	-4.1	-2.9	-4.1
	Power	-0.1	-0.9	-4.7	-4.8	-5.1	-5.2	-7.6	-3.9	-1.5	-3.9	0.8	-3.4
	Lighting & Power Total	-0.6	-0.7	-4.1	-5.5	-4.5	-5.8	-7.4	-4.1	-1.8	-4.1	-0.8	-4.0
Eligible Customers' Use	Commercial Power	-6.0	-2.4	-7.7	-0.5	-1.0	-8.1	-2.8	-1.6	-4.7	-5.4	12.5	-5.4
	Industrial Power	-6.1	-1.7	-5.6	0.9	-0.0	-4.4	-0.4	-3.0	-1.9	-2.7	-5.3	-2.7
	Sub-total	-6.1	-2.0	-6.4	0.6	-0.3	-5.7	-1.0	-2.5	-2.9	-3.6	3.9	-3.6
Total Electricity Sales		-3.5	-1.5	-5.6	-1.3	-1.6	-5.8	-3.2	-3.1	-2.5	-3.8	-0.1	-3.8
(Large Industry)		-6.1	-1.7	-5.7	1.5	0.2	-3.8	-0.2	-3.8	-2.3	-2.5	-4.2	-2.6

### (Reference) Large Industry Demand Change by Sector

By Sector		Year-on-year Change (%)													
		FY2014	Nov. 2014	Dec.	Jan. 2015	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Textiles		-2.1	-2.4	0.4	-2.7	1.2	1.9	-1.5	-2.8	-1.1	-5.6	-1.1	-5.9	-3.8	-2.9
Paper & Pulp		-4.8	3.8	2.1	-7.8	-7.8	-6.7	-8.5	-4.2	-6.1	-6.7	-7.2	-6.1	-4.1	-9.4
Chemicals		-1.1	2.4	-2.5	-1.5	-0.8	-2.1	-1.5	-3.5	-3.6	0.2	-0.5	-3.4	-2.3	-9.5
Ceramics		-2.7	-1.8	-3.1	-2.7	-2.7	-5.0	-6.1	-10.5	-8.2	-3.1	-2.6	-4.1	-2.9	-3.3
Steel		-1.9	-3.0	-3.8	-7.4	-8.5	-7.3	-7.6	-7.0	-9.5	-6.5	-6.4	-8.9	-8.1	-2.4
Non-Ferrous Metals		2.1	2.5	1.9	4.1	1.0	-1.0	-0.4	-1.5	-0.7	4.4	-2.7	-2.9	-1.8	-2.6
Machinery		-0.4	-1.6	0.9	-0.3	-0.7	0.2	1.0	-2.4	-0.7	-1.3	-1.5	-2.3	-3.7	-0.9
Large Industry Total		-1.2	-1.2	-0.6	-1.8	-2.6	-2.3	-2.0	-3.3	-2.8	-1.7	-2.0	-3.3	-3.6	-2.6

# Lighting & Power Demand Volume and Change by Company and Use (November 2015)

FEPC

## 1) Sales Volume and Change

By Company		Hokkaido	Tohoku	Tokyo	Chubu	Hokuriku	Kansai	Chugoku	Shikoku	Kyushu	9-Co. Total	Okinawa	10-Co. Total
By Use													
Sales Volume (MWh)	Lighting	956,465	1,764,454	6,246,187	2,387,443	574,831	3,189,895	1,283,339	636,902	2,025,337	19,064,853	223,876	19,288,729
	<Residential Lighting>	567,938	1,058,825	4,092,082	1,366,588	222,762	1,922,289	648,351	347,987	1,071,736	11,298,558	186,660	11,485,218
	Power	156,579	225,445	601,965	369,922	72,781	346,214	144,384	105,017	318,074	2,340,381	295,284	2,635,665
	<Low Voltage>	90,764	185,255	509,040	278,853	58,725	297,771	108,036	72,069	273,159	1,873,672	36,587	1,910,259
	Lighting & Power Total	1,113,044	1,989,899	6,848,153	2,757,365	647,612	3,536,109	1,427,723	741,919	2,343,411	21,405,235	519,160	21,924,395
	Eligible Customers' Use	1,217,678	3,812,320	11,593,012	6,728,216	1,442,040	6,095,230	2,910,907	1,198,520	3,687,396	38,685,319	106,957	38,792,276
	<Commercial Power>	597,374	1,138,876	4,499,709	1,577,683	374,074	2,107,977	763,474	416,088	1,303,555	12,778,810	59,496	12,838,306
	<Industrial Power>	620,304	2,673,444	7,093,303	5,150,533	1,067,966	3,987,253	2,147,433	782,432	2,383,841	25,906,509	47,461	25,953,970
Total Electricity Sales		2,330,722	5,802,219	18,441,165	9,485,581	2,089,652	9,631,339	4,338,630	1,940,439	6,030,807	60,090,554	626,117	60,716,671
Yea-on-year Basis (%)	Lighting	99.3	99.3	95.9	94.4	95.6	94.1	92.6	95.9	98.1	95.9	97.1	95.9
	Power	99.9	99.1	95.3	95.2	94.9	94.8	92.4	96.1	98.5	96.1	100.8	96.6
	<Low Voltage>	98.9	99.9	95.6	96.3	95.5	95.3	93.2	97.7	99.0	96.7	100.7	96.7
	Lighting & Power Total	99.4	99.3	95.9	94.5	95.5	94.2	92.6	95.9	98.2	95.9	99.2	96.0
	Eligible Customers' Use	93.9	98.0	93.6	100.6	99.7	94.3	99.0	97.5	97.1	96.4	103.9	96.4
	<Commercial Power>	94.0	97.6	92.3	99.5	99.0	91.9	97.2	98.4	95.3	94.6	112.5	94.6
	<Industrial Power>	93.9	98.3	94.4	100.9	100.0	95.6	99.6	97.0	98.1	97.3	94.7	97.3
	Total Electricity Sales		96.5	98.5	94.4	98.7	98.4	94.2	96.8	96.9	97.5	96.2	99.9

## 2) Contracted Electricity Volume (kW) & Number of Contracts

By Company		Hokkaido	Tohoku	Tokyo	Chubu	Hokuriku	Kansai	Chugoku	Shikoku	Kyushu	9-Co. Total	Okinawa	10-Co. Total
By Use													
Contracted Electricity & Number of Contracts	Residential Lighting (Number of Contracts)	2,508,651	4,609,123	20,173,236	6,403,670	984,561	9,007,262	3,146,041	1,710,094	5,377,101	53,919,739	707,268	54,627,007
	Power Total (kW)	2,359,849	4,523,742	13,210,371	7,339,079	1,602,103	7,139,956	2,873,940	2,110,032	6,034,678	47,193,750	1,373,120	48,566,870
	<Low Voltage (kW)>	1,346,606	3,824,972	11,708,224	5,721,180	1,297,624	6,336,096	2,369,966	1,609,750	5,009,826	39,224,244	426,306	39,650,550
	Lighting & Power Total (Number of Contracts)	3,947,402	7,716,039	29,384,896	10,695,086	2,122,266	13,750,989	5,295,987	2,861,716	8,774,774	84,549,155	900,408	85,449,563

Remarks : 1. Figures in < > indicate breakdown.  
2. Figures may not add up due to rounding.

## Demand Volume and Change by Large Industry Sector (November 2015)

FEPC

Sales Volume and Change

By Sector		By Company	Hokkaido	Tohoku	Tokyo	Chubu	Hokuriku	Kansai	Chugoku	Shikoku	Kyushu	9-Co. Total	Okinawa	10-Co. Total	
Sales Volume (MWh)	Mining & Manufacturing	Mining	7,560	13,558	13,493	3,022	75	7,850	11,784	4,011	13,493	74,846	499	75,345	
		Manufacturing	Foodstuffs	92,600	130,277	469,478	227,826	17,146	182,454	90,066	39,226	186,597	1,435,670	9,798	1,445,468
			Textiles		6,458	18,991	61,614	80,198	51,018	32,116	33,778	24,162	308,335	0	308,335
			Paper & Pulp	44,061	65,163	173,561	128,264	22,249	55,989	36,363	95,116	27,077	647,843	409	648,252
			Chemical	18,884	161,230	730,893	222,819	114,135	297,243	214,339	89,359	213,042	2,061,944	1,335	2,063,279
			Oil/Coal	1,040	1,587	31,287	15,057	438	29,796	44,980	25,744	15,127	165,056	849	165,905
			Rubber Products		25,640	46,829	49,708	1,716	24,523	24,987	4,510	46,163	224,076	0	224,076
			Ceramics	4,639	79,261	174,373	203,040	31,194	206,205	61,983	1,379	80,866	842,940	6,315	849,255
			Steel	42,154	234,481	621,158	585,449	62,258	668,449	466,795	72,734	208,624	2,962,102	10,961	2,973,063
			Non-Ferrous Metals	3,938	278,832	295,073	110,398	79,875	151,418	119,457		123,259	1,162,250	497	1,162,747
			Machinery	50,578	570,777	1,141,439	1,726,559	267,464	585,965	391,482	148,092	526,624	5,408,980	0	5,408,980
			Others	31,224	175,460	716,449	432,423	119,523	347,985	102,429	54,178	139,005	2,118,676	2,304	2,120,980
	Manufacturing Total	289,118	1,729,166	4,419,530	3,763,157	796,196	2,601,045	1,584,997	564,116	1,590,546	17,337,871	32,468	17,370,339		
	Mining & Manufacturing Total		296,678	1,742,724	4,433,023	3,766,179	796,271	2,608,895	1,596,781	568,127	1,604,039	17,412,717	32,967	17,445,684	
	Others	Railways	27,653	110,634	436,213	213,874	24,570	335,875	99,722	7,457	85,394	1,341,392	718	1,342,110	
Other than Railways		48,920	177,891	936,564	238,476	47,622	338,078	103,204	39,756	169,457	2,099,968	38,121	2,138,089		
Others Total		76,573	288,525	1,372,777	452,350	72,192	673,953	202,926	47,213	254,851	3,441,360	38,839	3,480,199		
Total		373,251	2,031,249	5,805,800	4,218,529	868,463	3,282,848	1,799,707	615,340	1,858,890	20,854,077	71,806	20,925,883		

Remarks: 1. Figures may not add up due to rounding.

## Demand Volume and Change by Large Industry Sector (November 2015)

FEPC

Sales Volume and Change

By Sector		By Company		Hokkaido	Tohoku	Tokyo	Chubu	Hokuriku	Kansai	Chugoku	Shikoku	Kyushu	9-Co. Total	Okinawa	10-Co. Total	
		Mining	Manufacturing													
Year-on-year Basis (%)	Mining & Manufacturing	Mining		94.4	91.2	93.5	90.3		90.9	99.5	88.7	91.7	93.1	105.8	93.2	
		Manufacturing	Foodstuffs		96.8	102.5	102.7	107.9	103.1	99.2	103.5	99.7	98.3	102.0	104.6	102.0
			Textiles			102.4	65.0	89.3	97.9	109.4	93.6	141.6	91.4	97.1	0.0	97.1
			Paper & Pulp		91.5	92.6	86.8	103.1	88.8	89.7	106.1	76.9	101.7	90.6	92.1	90.6
			Chemical		84.8	94.0	87.9	101.8	94.9	83.2	90.3	100.5	92.7	90.5	106.6	90.5
			Oil/Coal		73.6	108.0	94.4	128.9	85.2	72.9	86.4	101.9	102.4	91.1	24.0	89.8
			Rubber Products			96.8	97.7	91.4	103.8	95.3	99.1	105.4	94.2	95.5	0.0	95.5
			Ceramics		60.5	98.2	94.9	99.8	102.2	95.8	105.7	93.2	89.4	96.7	96.8	96.7
			Steel		80.1	98.1	88.9	106.1	90.2	98.9	99.6	93.5	104.1	97.6	88.1	97.6
			Non-Ferrous Metals		85.5	94.0	96.9	98.8	104.1	108.3	104.6		85.4	97.4	103.2	97.4
			Machinery		101.1	99.3	93.6	100.9	103.1	96.6	103.8	99.3	103.5	99.1	0.0	99.1
			Others		94.9	101.5	96.0	100.6	99.6	95.8	102.2	99.1	96.2	97.9	110.1	97.9
	Manufacturing Total		91.7	97.8	93.0	101.8	99.3	95.7	99.7	95.9	97.9	97.1	89.8	97.1		
	Mining & Manufacturing Total		91.8	97.8	93.0	101.7	99.3	95.7	99.7	95.8	97.8	97.1	90.0	97.1		
	Others	Railways		104.0	98.9	97.5	101.1	132.1	98.6	97.8	98.9	98.6	99.2	102.4	99.2	
Other than Railways			103.2	103.4	99.2	98.9	103.2	98.2	102.1	100.7	95.8	99.4	101.3	99.4		
Others Total			103.5	101.6	98.7	99.9	111.5	98.4	100.0	100.4	96.7	99.3	101.3	99.3		
Total			93.9	98.3	94.3	101.5	100.2	96.2	99.8	96.2	97.7	97.5	95.8	97.4		

Remarks: 1. Figures may not add up due to rounding.