

Energy and Economy Indicators of Japan

Updated 2017/2/28

(Quarterly)

Quarterly Statistics	2015Q4	2016Q1	2016Q2	2016Q3	2016Q4	Growth Rate: Annual or quarterly				
						2015Q4	2016Q1	2016Q2	2016Q3	2016Q4
						%	%	%	%	%
Economy										
RGDP (Billion yen in 2005 price)	515,361	518,904	521,242	522,963	-	(-0.4)	(0.7)	(0.5)	(0.3)	-
GDP (Billion yen)	531,314	535,393	536,688	537,302	-	(-0.3)	(0.8)	(0.2)	(0.1)	-
IIP (2010=100)	97.1	96.1	96.3	97.6	99.6	(0.1)	(-1.0)	(0.2)	(1.3)	(2.0)
Raw Materials Production (1,000t)										
Crude Steel	26,335	25,839	26,210	26,339	26,386	-4.4	-3.4	1.4	0.5	0.2
Ethylene	1,785	1,665	1,483	1,475	1,657	0.8	-5.8	-7.4	-14.7	-7.2
Cement	14,600	13,028	12,369	13,332	14,530	-4.3	-4.3	-5.1	-1.8	-0.5
Paper & Pulp	6,675	6,575	6,520	6,511	-	0.6	0.1	0.4	0.3	-
Domestic Corporate Goods PI (2010=100)	101.2	99.8	99.2	98.9	99.2	-3.7	-3.5	-4.3	-3.6	-2.0
CPI (2010=100)	100.0	99.6	99.9	99.7	100.3	0.2	0.0	-0.3	-0.5	0.3
Exchange Rate (¥/\$)	121.48	115.45	108.17	102.40	109.32	(-0.6)	(-5.0)	(-6.3)	(-5.3)	(6.8)
Crude Oil Price (CIF, \$/Bbl)	46.21	33.07	41.02	46.24	47.28	(-20.7)	(-28.4)	(24.1)	(12.7)	(2.2)
LNG Price (CIF, \$/MMBtu)	463.23	394.43	311.93	345.78	379.74	(-3.0)	(-14.9)	(-20.9)	(10.9)	(9.8)
Steaming Coal (CIF, \$/t)	73.11	69.71	68.68	70.14	83.47	(-5.6)	(-4.7)	(-1.5)	(2.1)	(19.0)
Heating Degree Day	211	624	23	0	263	-31.2	-3.7	-42.2	-	-
Cooling Degree Day	0	0	29	393	9	-100.0	-	64.7	29.0	#DIV/0!
Energy										
Total Primary Energy Supply (ktoe)	112,089	125,169	105,068	114,030	119,432	-5.0	-0.7	-0.7	-1.7	6.6
Coal	29,255	33,574	26,382	32,631	31,715	-6.0	3.7	-3.1	-3.0	8.4
Oil	48,992	52,579	43,476	43,828	51,175	-4.7	-4.9	-3.8	-6.5	4.5
Crude Oil	44,250	47,388	42,572	43,762	45,351	-1.9	-1.0	4.1	-3.0	2.5
Petroleum Products	4,742	5,192	905	66	5,823	-25.1	-29.9	-79.0	-96.3	22.8
Natural Gas	724	857	678	681	721	6.8	-0.8	3.9	4.6	-0.4
LNG	26,899	30,950	24,616	27,613	27,680	-8.2	-2.5	-0.8	0.6	2.9
Hydro	3,574	3,902	5,561	4,641	3,959	-0.1	4.1	-4.0	-8.5	10.8
Nuclear	744	1,019	817	997	841	-	-	-	412.4	13.0
New Energies	1,900	2,288	3,538	3,638	3,340	0.6	13.0	71.2	73.4	75.8
CO ₂ Emission (Mt. CO ₂)	281.6	317.9	253.9	284.0	301.0	-6.2	-1.2	-2.9	-3.2	6.9
Electricity										
Total Power Supply (Million kWh)	229,694	252,588	224,182	260,500	-	-5.6	-1.9	2.1	-	-
Power Generation (Million kWh)	186,407	204,503	200,760	237,997	-	-5.2	-2.2	15.1	-	-
Hydro	14,291	16,157	24,329	22,031	-	0.3	5.9	4.5	-	-
Thermal	167,903	182,757	169,775	208,487	-	-7.7	-5.4	12.8	-	-
Nuclear	3,586	4,913	3,939	4,809	-	-	-	-	-	-
New Energies	628	676	2,649	2,600	-	3.7	-4.1	328.7	-	-
Fuel Consumption										
Coal (1,000t)	20,665	21,967	22,853	30,099	-	0.4	-0.1	43.1	-	-
Crude Oil (1,000kl)	1,409	1,716	643	687	-	-15.6	-16.6	-57.5	-	-
Fuel Oil (1,000kl)	1,502	2,181	980	2,086	-	-37.9	-33.1	-57.6	-	-
LNG (1,000t)	13,220	14,049	12,003	14,326	-	-10.2	-5.6	-3.0	-	-
Electricity Sale (Million kWh)	196,595	228,341	194,462	222,778	-	-3.0	-2.2	-1.8	-	-
Low voltage	64,998	91,813	66,427	-	-	-4.7	-3.9	1.4	-	-
Lighting Contract	59,248	84,309	58,435	65,270	-	-4.5	-3.7	-1.9	-	-
Power Contract	5,750	7,504	7,993	10,609	-	-5.9	-5.4	34.5	-	-
High voltage ※ ¹	71,635	76,583	70,731	85,183	-	-2.0	-0.6	-1.2	-	-
Extra-High Voltage	56,483	55,277	56,789	61,055	-	-2.5	-1.3	-1.1	-	-
Electric Power Demand ※ ² (Million kWh)			199,176	233,234	218,699					
Natural Gas										
City Gas Sale (Million m ³)	8,504	11,031	8,647	8,540	9,002	-2.1	-2.8	1.6	1.4	5.9
Residential	2,061	3,664	2,269	1,185	2,154	-4.1	-5.3	-0.3	-4.4	4.5
Commercial	915	1,205	925	1,175	961	-3.2	-3.7	-2.6	1.0	5.0
Industrial	4,955	5,227	4,887	5,336	5,223	-0.5	-0.4	3.8	2.2	5.4
Others	573	934	566	844	663	-6.3	-4.1	-0.8	6.0	15.7
Oil										
Fuel Type Product Sale (1,000kl)	46,633	49,181	40,238	41,529	47,253	-5.4	-2.8	-3.6	-3.4	1.3
Gasoline	13,431	12,641	12,702	14,096	13,404	-2.0	0.1	-1.0	-0.9	-0.2
Naphtha	11,980	11,745	10,629	10,510	11,761	-1.5	-2.7	-2.1	-9.8	-1.8
Kerosene	4,986	7,353	2,022	1,526	5,441	-13.1	0.9	-0.5	-3.0	9.1
Diesel Gas Oil	8,684	8,319	7,871	8,460	8,761	-1.0	-0.6	-4.0	0.5	0.9
Fuel Oil A	3,156	3,789	2,680	2,412	3,289	-3.3	1.0	3.6	3.2	4.2
Fuel Oil B/C	3,156	4,005	2,984	3,174	3,299	-28.7	-23.6	-24.2	0.9	4.5
for Power Generation	1,501	2,063	880	1,091	-	-31.4	-37.3	-59.8	-29.6	-
LPG (1,000t)	3,035	3,507	3,155	3,190	3,584	-18.5	-14.1	6.6	9.0	18.1
Crude Oil										
Import (1,000kl)	48,232	50,279	47,863	46,739	47,843	-0.6	-2.6	3.4	-6.0	-0.8
Middle East Ratio (%)	79.6	85.2	88.3	85.7	87.4	[-1.1]	[2.4]	[6.6]	[2.5]	[7.8]
Crude Oil Processing (1,000kl)	47,050	50,194	46,037	47,361	47,527	-1.9	-0.6	5.7	-1.9	1.0

Note: Growth Rate in (xx) shows the growth rate from the previous quarter, and in [xx] shows the difference from the previous year.

※¹ The data until FY 2015 include regulated demand figures.

※² Indicates figures are retrieved from Organization for Cross-regional Coordination of Transmission Operators, Japan "Electric Power Demand".

Source: IEEJ Databank. Original statistics are sourced and compiled from statistics of METI, MOF and Bank of Japan.

(Fiscal Year)

Fiscal Year (April - March)	2011FY	2012FY	2013FY	2014FY	2015FY	Annual Growth Rate				
						2011FY	2012FY	2013FY	2014FY	2015FY
Economy						%	%	%	%	%
RGDP (Billion yen in 2005 price)	495,054	499,634	512,651	510,421	517,146	0.5	0.9	2.6	-0.4	1.3
GDP (Billion yen)	493,853	494,674	507,401	517,867	532,185	-1.1	0.2	2.6	2.1	2.8
IIP (2010=100)	98.7	95.8	98.9	98.4	97.4	-0.7	-2.9	3.2	-0.5	-1.0
Raw Materials Production (1,000t)										
Crude Steel	106,462	107,305	111,524	109,844	104,229	-3.9	0.8	3.9	-1.5	-5.1
Ethylene	6,474	6,261	6,764	6,687	6,780	-7.5	-3.3	8.0	-1.1	1.4
Cement	52,643	55,072	58,827	56,882	54,242	3.4	4.6	6.8	-3.3	-4.6
Paper and Paperboard	26,532	25,731	26,667	26,295	23,903	-3.0	-3.0	3.6	-1.4	-9.1
Domestic Corporate Goods PI (2010=100)	101.6	100.5	102.4	105.2	101.8	1.3	-1.0	1.8	2.8	-3.2
CPI (2010=100)	99.8	99.5	100.4	103.4	103.6	-0.1	-0.3	0.9	3.0	0.2
Exchange Rate (¥/\$)	79.05	83.08	100.23	109.92	120.13	-7.7	5.1	20.6	9.7	9.3
Crude Oil Price (CIF, \$/Bbl)	114.10	114.19	110.11	89.21	48.87	36.1	0.1	-3.6	-19.0	-45.2
LNG Price (CIF, \$/MMBtu)	822.61	865.65	837.35	797.26	452.05	40.8	5.2	-3.3	-4.8	-43.3
Steaming Coal (CIF, \$/t)	143.51	126.97	107.93	92.62	75.55	25.8	-11.5	-15.0	-14.2	-18.4
Heating Degree Day	1,100	1,060	1,024	994	875	2.0	-3.6	-3.4	-2.9	-11.9
Cooling Degree Day	472	462	511	363	322	-15.5	-2.2	10.7	-29.1	-11.3
Energy										
Total Primary Energy Supply (ktoe)	488,522	481,648	484,633	467,394	533,256	-4.5	-1.4	0.6	-3.6	14.1
Coal	112,749	117,753	125,917	124,396	123,425	-5.4	4.4	6.9	-1.2	-0.8
Oil	217,907	221,555	214,559	198,962	243,296	2.8	1.7	-3.2	-7.3	22.3
Crude Oil	190,780	192,448	191,859	178,285	221,126	-2.4	0.9	-0.3	-7.1	24.0
Petroleum Products	27,019	29,987	19,522	20,509	18,613	53.6	11.0	-34.9	5.1	-9.2
Natural Gas	2,750	2,889	3,263	3,541	3,875	2.2	5.1	12.9	8.5	9.4
LNG	76,213	75,536	75,544	82,577	89,093	6.4	-0.9	0.0	9.3	7.9
Hydro	18,321	16,584	16,834	17,535	16,240	1.2	-9.5	1.5	4.2	-7.4
Nuclear	21,417	3,355	1,930	0	55,526	-64.7	-84.3	-42.5	-100.0	-
New Energies	6,387	6,587	7,009	7,594	1,395	6.4	3.1	6.4	8.3	-81.6
CO ₂ Emission (Mt- CO ₂)	1,167.6	1,206.1	1,231.4	1,188.2	1,225.3	2.8	3.3	2.1	-3.5	3.1
Electricity (10 Major Electric Companies)										
Total Power Supply (Million kWh)	937,338	923,895	923,039	893,611	864,335	-5.1	-1.4	-0.1	-3.2	-3.3
Power Generation (Million kWh)	776,765	742,288	743,691	712,264	679,578	-5.5	-4.4	0.2	-4.2	-4.6
Hydro	62,814	57,023	58,850	60,537	63,791	-0.1	-9.2	3.2	2.9	5.4
Thermal	610,670	666,757	672,996	649,213	603,826	25.8	9.2	0.9	-3.5	-7.0
Nuclear	100,696	15,939	9,303	0	9,437	-62.9	-84.2	-41.6	-100.0	-
New Energies	2,584	2,569	2,542	2,513	2,524	6.3	-0.6	-1.0	-1.1	0.4
Fuel Consumption										
Coal (1,000t)	49,160	50,077	59,854	59,559	58,794	-3.6	1.9	19.5	-0.5	-1.3
Crude Oil (1,000kl)	11,569	13,476	11,576	6,764	5,702	143.1	16.5	-14.1	-41.6	-15.7
Fuel Oil (1,000kl)	12,412	16,657	13,229	9,957	7,495	97.1	34.2	-20.6	-24.7	-24.7
LNG (1,000t)	52,996	55,967	56,244	56,676	53,328	27.0	5.6	0.5	0.8	-5.9
Electricity Sale (Million kWh)	859,809	851,590	848,541	822,999	797,057	-5.1	-1.0	-0.4	-3.0	-3.2
Lighting	288,946	286,220	284,341	273,103	266,850	-5.0	-0.9	-0.7	-4.0	-2.3
Power	570,863	565,370	564,201	549,896	530,207	-5.2	-1.0	-0.2	-2.5	-3.6
Commercial	188,123	190,600	189,222	181,669	172,583	-8.4	1.3	-0.7	-4.0	-5.0
Industry	337,808	330,839	332,197	327,754	318,474	-3.3	-2.1	0.4	-1.3	-2.8
Demand of Large Users (million kWh)	271,515	265,124	266,478	263,193	255,926	-3.2	-2.4	0.5	-1.2	-2.8
Foods	17,394	17,454	17,872	17,785	17,909	-1.8	0.3	2.4	-0.5	0.7
Paper & Pulp	9,229	8,525	8,462	8,052	7,515	-6.6	-7.6	-0.7	-4.8	-6.7
Chemical	27,004	26,168	26,397	26,102	25,313	-3.3	-3.1	0.9	-1.1	-3.0
Ceramics & Cement	11,479	11,144	10,711	10,422	9,921	-0.6	-2.9	-3.9	-2.7	-4.8
Iron & Steel	36,426	35,919	37,308	36,593	34,071	0.3	-1.4	3.9	-1.9	-6.9
Non-Ferrous	15,673	15,150	14,280	14,582	14,408	-2.2	-3.3	-5.7	2.1	-1.2
Machinery	71,102	68,485	68,790	68,494	67,315	-3.9	-3.7	0.4	-0.4	-1.7
Natural Gas										
City Gas Sale (Million m ³)	35,912	36,323	36,694	37,100	36,462	1.8	1.1	1.0	1.1	-1.7
Residential	9,791	9,799	9,554	9,582	9,242	0.0	0.1	-2.5	0.3	-3.5
Commercial	4,480	4,500	4,472	4,315	4,233	-5.5	0.4	-0.6	-3.5	-1.9
Industrial	18,671	19,026	19,631	20,254	20,113	5.9	1.9	3.2	3.2	-0.7
Others	2,970	2,999	3,037	2,949	2,874	-5.0	1.0	1.3	-2.9	-2.5
Oil										
Fuel Type Product Sale (1,000kl)	196,380	197,770	193,596	182,715	180,524	0.2	0.7	-2.1	-5.6	-1.2
Gasoline	57,209	56,207	55,477	52,981	53,127	-1.6	-1.8	-1.3	-4.5	0.3
Naphtha	43,718	43,172	45,739	43,923	46,234	-6.4	-1.2	5.9	-4.0	5.3
Kerosene	19,623	18,884	17,911	16,662	15,946	-3.6	-3.8	-5.2	-7.0	-4.3
Diesel Gas Oil	32,872	33,391	34,089	33,583	33,619	-0.1	1.6	2.1	-1.5	0.1
Fuel Oil A	14,680	13,759	13,438	12,316	11,871	-4.8	-6.3	-2.3	-8.3	-3.6
Fuel Oil B/C	24,080	28,382	21,890	17,930	14,241	38.8	17.9	-22.9	-18.1	-20.6
for Power Generation	12,388	16,472	12,602	9,495	7,302	100.8	33.0	-23.5	-24.7	-
LPG (1,000t)	15,879	15,847	14,927	14,574	12,426	10.4	-0.2	-5.8	-2.4	-14.7
Crude Oil										
Import (1,000kl)	209,173	211,026	210,345	195,169	194,515	-2.4	0.9	-0.3	-7.2	-0.3
Middle East Ratio (%)	85.1	83.2	83.6	82.7	82.5	[-1.5]	[-1.9]	[0.5]	[-0.9]	[-0.3]
Crude Oil Processing (1,000kl)	197,026	197,643	200,434	189,001	189,060	-5.7	0.3	1.4	-5.7	0.0

Note: Growth Rate in [xx] shows the difference from the previous year.

Source: IEEJ Databank. Original statistics are sourced and compiled from statistics of METI, MOF and Bank of Japan.

Other statistics are available at IEEJ website and more for members of the EDMC Databank.