

# Energy and Economy Indicators of Japan

Updated 2018/5/15

(Quarterly)

To be updated in Aug. 2018

Quarterly	1Q2017	2Q2017	3Q2017	4Q2017	1Q2018	Growth Rate: Y-o-Y				
						1Q2017	2Q2017	3Q2017	4Q2017	1Q2018
<b>Economy</b>						%	%			
Real GDP (Billion yen in 2011 price)	527,137	530,225	533,344	535,480	-	(0.5)	(0.6)	(0.6)	(0.4)	-
GDP (Billion yen)	540,734	545,484	549,187	550,675	-	(0.3)	(0.9)	(0.7)	(0.3)	-
IIP (2010=100)	100.0	102.1	102.5	103.9	102.4	(0.2)	(2.1)	(0.4)	(1.4)	(-1.4)
Raw Materials Production (1,000t)										
Crude Steel	26,230	26,095	25,942	26,395	26,406	1.5	-0.4	-1.5	0.0	0.7
Ethylene	1,672	1,566	1,607	1,685	1,601	0.4	5.6	9.0	1.7	-4.3
Cement	13,369	13,036	13,940	14,851	13,116	2.6	5.4	4.6	2.2	-1.9
Paper & Pulp	6,638	6,591	6,532	6,755	-	1.0	1.1	0.3	1.2	-
Domestic Corporate Price Index (2015=100)	97.9	98.4	98.8	99.7	100.3	1.0	2.1	2.8	3.4	2.5
CPI (2015=100)	99.9	100.3	100.3	100.9	101.2	0.3	0.4	0.6	0.6	1.3
Exchange Rate (¥/\$)	113.6	111.1	111.0	113.0	113.0	(3.9)	(-2.2)	(-0.0)	(1.7)	(0.0)
Crude Oil Price (CIF, \$/Bbl)	54.97	53.34	49.57	58.62	66.43	(16.2)	(-3.0)	(-7.1)	(18.2)	(13.3)
LNG Price (CIF, \$/MMBtu)	397.06	433.00	428.93	412.85	469.02	(4.6)	(9.1)	(-0.9)	(-3.7)	(13.6)
Steam Coal (CIF, \$/t)	96.09	98.58	97.66	103.99	109.04	(14.4)	(2.6)	(-0.9)	(6.5)	(4.9)
Cooling Degree Days	679	37	0	345	690	8.8	58.6	-	31.2	1.5
Cooling Degree Day	0	18	377	2	0	-	-38.2	-3.9	-74.5	-
<b>Energy</b>										
Total Primary Energy Supply (ktoe)	124,384	106,966	114,402	118,650	123,927	0.4	1.8	0.7	1.6	-0.4
Coal	31,534	28,341	32,446	32,136	30,864	-3.8	7.4	0.3	2.4	-2.1
Oil	51,044	43,325	43,560	48,171	50,264	-2.7	-0.5	-0.6	-2.0	-1.5
Crude Oil	45,940	39,903	43,449	42,720	43,768	-2.9	-6.4	-0.7	-2.3	-4.7
Petroleum Products	5,105	3,422	111	5,451	6,496	-0.8	289.8	48.3	0.1	27.3
Natural Gas	914	768	716	801	816	6.7	13.3	5.1	10.1	-10.8
LNG	32,582	22,983	26,104	27,754	32,527	6.3	-5.6	-4.7	1.4	-0.2
Hydro	3,116	4,678	4,356	3,697	3,118	-20.1	-4.0	8.5	6.8	0.1
Nuclear	982	1,535	2,098	1,714	1,340	-3.6	80.9	101.4	96.2	36.4
New Energies ※ <sup>1</sup>	4,211	5,335	5,122	4,377	4,999	-	20.6	18.5	17.3	18.7
CO <sub>2</sub> Emission (Mt- CO <sub>2</sub> )	309.2	257.4	278.9	292.6	304.3	-1.8	1.4	-1.5	0.0	-1.6
<b>Electricity</b> ※ <sup>2</sup>										
Total Power Supply (Billion Wh)	265,708	226,973	267,433	259,893	-	-	1.0	2.7	6.8	-
Power Generation (Billion Wh)	243,843	199,849	236,115	229,925	-	-	-0.9	-1.0	2.7	-
Hydro	17,151	24,486	24,012	20,126	-	-	0.4	8.9	10.0	-
Thermal	218,227	164,104	198,616	198,069	-	-	-3.4	-4.7	-0.1	-
Nuclear	4,535	7,032	9,638	7,869	-	-	78.5	100.4	95.8	-
New Energies	3,865	4,164	3,779	3,782	-	-	22.1	22.8	13.7	-
Fuel Consumption										
Coal (1,000t)	29,117	24,186	30,905	29,558	-	-	5.8	2.7	2.7	-
Crude Oil (Million l)	873	253	237	430	-	-	-60.6	-65.4	-26.6	-
Fuel Oil (Million l)	2,159	1,058	1,481	1,523	-	-	8.0	-29.0	-26.4	-
LNG (1,000t)	15,833	11,044	13,400	13,409	-	-	-8.0	-6.5	-0.8	-
Electricity Sales (Billion Wh)	242,837	209,159	236,298	217,968	-	-	1.4	0.3	1.3	-
Low voltage	-	-	-	-	-	-	1.8	0.2	2.3	-
Lighting Contract	85,712	59,497	65,432	64,060	-	-	1.8	0.3	2.7	-
Power Contract	10,766	8,110	10,558	8,273	-	-	1.5	-0.5	-0.0	-
High voltage	77,269	71,486	84,953	74,434	-	-	1.1	-0.2	0.3	-
Extra-High Voltage	56,251	57,301	61,549	58,077	-	-	0.9	0.8	1.3	-
Electric Power Demand ※ <sup>3</sup> (Billion Wh)	239,825	200,099	232,547	224,934	243,561	-	0.5	-0.3	2.9	1.6
<b>Natural Gas</b>										
City Gas Sales (Million m <sup>3</sup> )	11,512	9,045	8,344	9,169	11,531	4.4	4.6	-2.3	1.9	0.2
Residential	3,797	2,371	1,189	2,319	3,852	3.6	4.5	0.3	7.6	1.4
Commercial	1,232	944	1,156	960	1,258	2.2	2.1	-1.6	-0.1	2.1
Industrial	5,510	5,138	5,155	5,225	5,426	5.4	5.1	-3.4	0.0	-1.5
Others	972	591	844	665	995	4.1	4.5	-0.0	0.2	2.3
<b>Oil</b>										
Fuel Oil Sales (Million l)	47,791	40,028	41,332	46,359	46,978	-2.7	-0.8	-0.5	-1.9	-1.7
Gasoline	12,301	12,577	13,868	13,158	12,230	-2.7	-1.0	-1.6	-1.9	-0.6
Naphtha	11,928	10,982	11,039	11,904	11,081	1.6	3.1	5.6	1.2	-7.1
Kerosene	7,246	2,063	1,607	5,727	7,243	-1.5	2.1	5.3	5.2	-0.0
Diesel/Gas Oil	8,249	8,170	8,540	8,716	8,405	-0.6	3.9	1.1	-0.5	1.9
Fuel Oil A	3,605	2,519	2,269	3,127	3,593	-4.9	-6.0	-5.9	-4.9	-0.3
Fuel Oil B/C	3,159	2,440	2,530	2,559	3,347	-21.1	-21.3	-21.4	-22.4	6.0
for Power Generation	2,046	1,304	1,370	1,319	-	-0.8	-29.8	-32.2	-33.3	-
LPG (1,000t)	3,697	2,983	2,755	3,161	3,598	5.5	1.9	-2.2	-1.4	-2.7
<b>Crude Oil</b>										
Imports (Million l)	48,602	43,942	47,426	47,668	46,055	-3.3	-8.2	1.5	-0.4	-5.2
Middle East Ratio (%)	87.4	84.0	87.1	88.5	89.5	[2.2]	[-4.3]	[1.4]	[1.1]	[2.1]
Crude Oil Processing (Million l)	49,640	43,309	47,261	46,576	47,082	-1.1	-5.9	-0.2	-2.0	-5.2

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

※<sup>1</sup> The scope of the data has been modified since April 2016, so growth rates at 2017 Q1 are not presented.

※<sup>2</sup> The scope of the survey is Electric Utilities.

※<sup>3</sup> Indicates figures are retrieved from Organization for Cross-regional Coordination of Transmission Operators, Japan "Electric Power Demand", and the scope of the statistics has been modified since April 2016. Thus, growth rates at 2017 Q1 are not presented.

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

(Fiscal Year)

Updated 2018/5/15

To be updated in Aug. 2018

Fiscal Year (April - March)	2013FY	2014FY	2015FY	2016FY	2017FY	Annual Growth Rate				
						2013FY	2014FY	2015FY	2016FY	2017FY
<b>Economy</b>						%	%	%	%	%
Real GDP (Billion yen in 2011 price)	512,523	510,962	518,326	524,327	-	2.6	-0.3	1.4	1.2	-
GDP (Billion yen)	507,246	518,469	533,904	539,255	-	2.6	2.2	3.0	1.0	-
IIP (2010=100)	98.9	98.4	97.5	98.5	102.5	3.2	-0.5	-0.9	1.0	4.1
Raw Materials Production (1,000t)										
Crude Steel	111,524	109,844	104,229	105,165	104,837	3.9	-1.5	-5.1	0.9	-0.3
Ethylene	6,764	6,687	6,780	6,286	6,459	8.0	-1.1	1.4	-7.3	2.7
Cement	58,827	56,882	54,242	53,600	54,944	6.8	-3.3	-4.6	-1.2	2.5
Paper and Paperboard	26,667	26,295	26,234	26,343	-	3.6	-1.4	-0.2	0.4	-
Domestic Corporate Goods PI (2010=100)	99.7	102.5	99.1	96.7	99.3	1.8	2.8	-3.3	-2.4	2.7
CPI (2010=100)	96.9	99.8	100.0	100.0	100.7	0.8	3.0	0.2	-0.0	0.7
Exchange Rate (¥/\$)	100.23	109.92	120.13	108.37	110.80	20.6	9.7	9.3	-9.8	2.2
Crude Oil Price (CIF, \$/Bbl)	110.11	89.21	48.91	47.69	57.00	-3.6	-19.0	-45.2	-2.5	19.5
LNG Price (CIF, \$/MMBtu)	837.35	797.26	451.75	363.07	437.09	-3.3	-4.8	-43.3	-19.6	20.4
Steaming Coal (CIF, \$/t)	107.93	92.62	75.56	80.91	102.43	-15.0	-14.2	-18.4	7.1	26.6
Heating Degree Days	1,024	994	875	966	1,072	-3.4	-2.9	-12.0	10.4	11.0
Cooling Degree Days	511	363	322	431	397	10.7	-29.1	-11.3	33.8	-7.8
<b>Energy</b>										
Total Primary Energy Supply (ktoe)	483,578	466,272	457,822	459,811	463,945	0.4	-3.6	-1.8	0.4	0.9
Coal	125,917	124,396	123,707	121,648	123,786	6.9	-1.2	-0.6	-1.7	1.8
Oil	214,558	198,948	193,536	187,574	185,320	-3.2	-7.3	-2.7	-3.1	-1.2
Crude Oil	191,859	178,285	177,679	174,537	169,530	-0.3	-7.1	-0.3	-1.8	-2.9
Petroleum Products	19,522	20,514	15,521	10,958	15,782	-34.9	5.1	-24.3	-29.4	44.0
Natural Gas	3,143	2,901	2,869	2,961	3,105	-4.2	-7.7	-1.1	3.2	4.9
LNG	114,188	114,899	108,113	109,984	109,188	1.5	0.6	-5.9	1.7	-0.7
Hydro	16,834	17,535	18,341	15,470	15,850	1.5	4.2	4.6	-15.7	2.5
Nuclear	1,930	0	1,958	3,746	6,687	-42.5	-100.0	-	91.4	78.5
New Energies ※ <sup>1</sup>	7,009	7,594	8,354	16,687	19,833	6.4	8.3	10.0	-	18.9
CO <sub>2</sub> Emission (Mt- CO <sub>2</sub> )	1,232.7	1,189.6	1,155.5	1,139.0	1,133.3	2.2	-3.5	-2.9	-1.4	-0.5
<b>Electricity ※<sup>2</sup></b>										
Total Power Supply (Million kWh)				994,136	-					
Power Generation (Million kWh)				907,853	-					
Hydro				81,870	-					
Thermal				794,735	-					
Nuclear				17,300	-					
New Energies				13,680	-					
Fuel Consumption										
Coal (1,000t)				110,862	-					
Crude Oil (1,000kl)				2,789	-					
Fuel Oil (1,000kl)				7,295	-					
LNG (1,000t)				55,672	-					
Electricity Sales (Million kWh)				899,746	-					
Low voltage				309,458	-					
Lighting Contract				271,811	-					
Power Contract				37,647	-					
High voltage				307,340	-					
Extra-High Voltage				231,442	-					
Electric Power Demand ※ <sup>3</sup> (Billion Wh)			895,555	890,934	901,141					1.1
<b>Natural Gas</b>										
City Gas Sale (Million m <sup>3</sup> )	36,694	37,100	36,462	37,701	38,089	1.0	1.1	-1.7	3.4	1.0
Residential	9,554	9,582	9,242	9,406	9,731	-2.5	0.3	-3.5	1.8	3.5
Commercial	4,472	4,315	4,233	4,292	4,317	-0.6	-3.5	-1.9	1.4	0.6
Industrial	19,631	20,254	20,113	20,957	20,945	3.2	3.2	-0.7	4.2	-0.1
Others	3,037	2,949	2,874	3,046	3,095	1.3	-2.9	-2.5	6.0	1.6
<b>Oil</b>										
Fuel Type Product Sale (Million l)	193,596	182,715	180,476	176,924	174,697	-2.1	-5.6	-1.2	-2.0	-1.3
Gasoline	55,477	52,981	53,127	52,508	51,833	-1.3	-4.5	0.3	-1.2	-1.3
Naphtha	45,739	43,923	46,235	44,797	45,006	5.9	-4.0	5.3	-3.1	0.5
Kerosene	17,911	16,662	15,946	16,235	16,640	-5.2	-7.0	-4.3	1.8	2.5
Diesel Gas Oil	34,089	33,583	33,594	33,326	33,832	2.1	-1.5	0.0	-0.8	1.5
Fuel Oil A	13,438	12,316	11,871	11,986	11,508	-2.3	-8.3	-3.6	1.0	-4.0
Fuel Oil B/C	21,890	17,930	14,241	12,778	10,876	-22.9	-18.1	-20.6	-10.3	-14.9
for Power Generation	12,602	9,495	7,302	7,903	-	-23.5	-24.7	-23.1	8.2	-
LPG (1,000t)	14,927	14,574	12,422	12,650	12,496	-5.8	-2.4	-14.8	1.8	-1.2
<b>Crude Oil</b>										
Import (Million l)	210,345	195,169	194,515	191,047	185,091	-0.3	-7.2	-0.3	-1.8	-3.1
Middle East Ratio (%)	83.6	82.7	82.5	87.2	87.3	[0.5]	[-0.9]	[-0.3]	[4.7]	[0.1]
Crude Oil Processing (Million l)	200,434	189,001	189,060	190,565	184,228	1.4	-5.7	0.0	0.8	-3.3

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

※<sup>1</sup> The scope of the data has been modified since April 2016, so growth rates for 2016FY/2015FY are not presented.

※<sup>2</sup> The scope of the survey is Electric Utilities.

※<sup>3</sup> indicates figures are retrieved from Organization for Cross-regional Coordination of Transmission Operators, Japan "Electric Power Demand", and the figures in 2015 exclude the amount of Okinawa area. so growth rates for 2016FY/2015FY are not presented.

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.**