

Energy and Economy Indicators of Japan

Updated 2017/8/22

(Quarterly)

Quarterly	2016Q2	2016Q3	2016Q4	2017Q1	2017Q2	Growth Rate: Annual or quarterly				
						2016Q2	2016Q3	2016Q4	2017Q1	2017Q2
						%	%	%	%	%
Economy										
RGDP (Billion yen in 2011 price)	520,618	522,249	524,484	526,393	531,531	(0.3)	(0.3)	(0.4)	(0.4)	(1.0)
GDP (Billion yen)	536,162	536,661	539,413	539,200	545,352	(0.0)	(0.1)	(0.5)	(-0.0)	(1.1)
IIP (2010=100)	96.3	98.0	99.8	100.0	101.9	(0.2)	(1.8)	(1.8)	(0.2)	(1.9)
Raw Materials Production (1,000t)										
Crude Steel	26,210	26,339	26,386	26,230	26,095	1.4	0.5	0.2	1.5	-0.4
Ethylene	1,483	1,475	1,657	1,672	1,566	-7.4	-14.7	-7.2	0.4	5.6
Cement	12,369	13,332	14,530	13,369	13,036	-5.1	-1.8	-0.5	2.6	5.4
Paper & Pulp	6,520	6,511	6,673	6,638	6,591	0.4	0.3	-0.0	1.0	1.1
Domestic Corporate Goods PI (2010=100)	96.4	96.1	96.5	98.0	98.4	-7.0	-6.3	-2.1	1.0	2.1
CPI (2010=100)	99.9	99.7	100.3	99.9	100.3	-0.3	-0.5	0.3	0.3	0.4
Exchange Rate (¥/\$)	108.17	102.40	109.32	113.60	111.06	(-6.3)	(-5.3)	(6.8)	(3.9)	(-2.2)
Crude Oil Price (CIF, \$/Bbl)	41.02	46.22	47.01	54.93	53.35	(24.1)	(12.7)	(1.7)	(16.8)	(-2.9)
LNG Price (CIF, \$/MMBtu)	311.93	346.03	378.70	396.52	433.19	(-20.9)	(10.9)	(9.4)	(4.7)	(9.2)
Steaming Coal (CIF, \$/t)	68.68	70.05	83.46	96.57	99.52	(-1.5)	(2.0)	(19.1)	(15.7)	(3.1)
Heating Degree Day	23	0	263	679	37	-42.4	-100.0	24.9	8.8	58.6
Cooling Degree Day	29	393	9	0	18	64.7	29.0	-	-	-38.2
Energy										
Total Primary Energy Supply (ktoe)	105,383	113,897	117,188	124,697	109,209	-0.4	-1.8	3.8	0.4	3.6
Coal	26,385	32,336	31,389	31,534	29,526	-3.1	-3.9	4.4	-3.8	11.9
Oil	43,590	43,856	49,365	51,044	43,420	-3.7	-6.4	0.7	-2.7	-0.4
Crude Oil	42,645	43,762	43,722	45,940	39,903	4.3	-3.0	-1.2	-2.9	-6.4
Petroleum Products	944	94	5,644	5,105	3,517	-78.3	-94.6	18.3	-1.2	272.5
Natural Gas	678	681	727	914	768	3.9	4.6	0.4	6.7	13.3
LNG	24,585	27,645	27,636	32,895	23,859	-0.9	0.7	2.7	6.3	-3.0
Hydro	4,875	4,016	3,463	3,116	4,726	-15.9	-20.8	-3.1	-20.1	-3.1
Nuclear	849	1,041	874	982	1,535	-	435.0	17.5	-3.6	80.9
New Energies ※ ¹	4,422	4,321	3,734	4,211	5,375	-	-	-	-	21.5
CO ₂ Emission (Mt- CO ₂)	253.8	283.0	293.0	308.8	262.5	-2.9	-3.6	2.9	-1.8	3.4
Electricity										
Total Power Supply (Million kWh)	224,679	260,469	243,280	265,708	-	-	-	-	-	-
Power Generation (Million kWh)	201,618	238,504	223,889	243,843	-	-	-	-	-	-
Hydro	24,383	22,043	18,293	17,151	-	-	-	-	-	-
Thermal	169,819	208,502	198,186	218,227	-	-	-	-	-	-
Nuclear	3,939	4,809	4,018	4,535	-	-	-	-	-	-
New Energies	3,409	3,078	3,327	3,865	-	-	-	-	-	-
Fuel Consumption	-	-	-	-	-	-	-	-	-	-
Coal (1,000t)	22,853	30,099	28,793	29,117	-	-	-	-	-	-
Crude Oil (1,000kl)	643	687	586	873	-	-	-	-	-	-
Fuel Oil (1,000kl)	980	2,086	2,070	2,159	-	-	-	-	-	-
LNG (1,000t)	12,003	14,326	13,511	15,833	-	-	-	-	-	-
Electricity Sale (Million kWh)	206,302	235,493	215,114	242,837	-	-	-	-	-	-
Low voltage	66,431	-	-	-	-	-	-	-	-	-
Lighting Contract	58,438	65,260	62,402	85,712	-	-	-	-	-	-
Power Contract	7,993	10,612	8,277	10,766	-	-	-	-	-	-
High voltage	70,736	85,136	74,199	77,269	-	-	-	-	-	-
Extra-High Voltage	56,787	61,056	57,347	56,251	-	-	-	-	-	-
Electric Power Demand ※ ² (Million kWh)	199,176	233,234	218,699	239,825	200,099	-	-	-	-	0.5
Natural Gas										
City Gas Sale (Million m ³)	8,647	8,540	9,002	11,512	9,051	1.6	1.4	5.9	4.4	4.7
Residential	2,269	1,185	2,154	3,797	2,372	-0.3	-4.4	4.5	3.6	4.5
Commercial	925	1,175	961	1,232	944	-2.6	1.0	5.0	2.2	2.1
Industrial	4,887	5,336	5,223	5,510	5,145	3.8	2.2	5.4	5.4	5.3
Others	566	844	663	972	591	-0.8	6.0	15.7	4.1	4.5
Oil										
Fuel Type Product Sale (1,000kl)	40,238	41,529	47,243	47,791	40,028	-3.6	-3.4	1.3	-2.8	-0.5
Gasoline	12,702	14,096	13,404	12,301	12,577	-1.0	-0.9	-0.2	-2.7	-1.0
Naphtha	10,629	10,510	11,761	11,928	10,982	-2.1	-9.8	-1.8	1.6	3.3
Kerosene	2,022	1,526	5,441	7,246	2,063	-0.5	-3.0	9.1	-1.5	2.1
Diesel Gas Oil	7,871	8,460	8,761	8,249	8,170	-4.0	0.5	0.9	-0.8	3.8
Fuel Oil A	2,680	2,412	3,289	3,605	2,519	3.6	3.2	4.2	-4.9	-6.0
Fuel Oil B/C	2,984	3,174	3,299	3,159	2,440	-24.2	0.9	4.5	-21.1	-18.2
for Power Generation	1,858	2,021	1,978	2,046	-	-15.1	30.5	31.8	-0.8	-
LPG (1,000t)	2,927	2,819	3,333	3,697	2,983	-1.1	-3.6	9.8	5.6	1.9
Crude Oil										
Import (1,000kl)	47,863	46,739	47,843	48,602	43,942	3.4	-6.0	-0.8	-3.3	-8.2
Middle East Ratio (%)	88.3	85.7	87.4	87.4	84.0	[6.6]	[2.5]	[7.8]	[2.2]	[-4.3]
Crude Oil Processing (1,000kl)	46,037	47,361	47,527	49,640	43,309	5.7	-1.9	1.0	-1.1	-5.9

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 scope of the data has been modified since April 2016, so growth rates before 2017 Q1 are not presented.

※² 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 before 2017 Q1 are not presented.

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

To be updated in November 2017

Updated 2017/8/22

(Calendar Year)

Calendar Year	2012	2013	2014	2015	2016	Annual Growth Rate							
							2012	2013	2014	2015	2016		
							%	%	%	%	%	%	
Economy													
RGDP (Billion yen in 2011 price)	498,803	508,781	510,489	516,172	521,497		1.5	2.0	0.3	1.1	1.0		
GDP (Billion yen)	494,957	503,176	513,698	530,157	537,057		0.7	1.7	2.1	3.2	1.3		
IIP (2010=100)	97.8	97.0	99.0	97.8	97.7		0.6	-0.8	2.1	-1.2	-0.1		
Raw Materials Production (1,000t)													
Crude Steel	107,232	110,595	110,666	105,134	104,774		-0.3	3.1	0.1	-5.0	-0.3		
Ethylene	6,145	6,696	6,647	6,883	6,279		-8.1	9.0	-0.7	3.5	-8.8		
Cement	54,737	57,962	57,913	54,827	53,259		6.7	5.9	-0.1	-5.3	-2.9		
Paper and Paperboard	25,957	26,241	26,479	26,228	26,279		-2.5	1.1	0.9	-0.9	0.2		
Domestic Corporate Goods PI (2010=100)	98.0	99.2	102.4	100.0	96.5		-3.5	1.2	3.2	-2.3	-3.5		
CPI (2010=100)	96.2	96.6	99.2	100.0	99.9		-0.1	0.4	2.7	0.8	-0.1		
Exchange Rate (¥/\$)	79.81	97.63	105.85	121.03	108.84		-0.0	22.3	8.4	14.3	-10.1		
Crude Oil Price (CIF, \$/Bbl)	114.89	110.41	104.72	55.02	41.44		5.8	-3.9	-5.2	-47.5	-24.7		
LNG Price (CIF, \$/MMBtu)	864.35	832.89	842.88	536.03	361.64		13.4	-3.6	1.2	-36.4	-32.5		
Steaming Coal (CIF, \$/t)	134.00	111.42	97.79	79.57	73.20		-2.4	-16.9	-12.2	-18.6	-8.0		
Heating Degree Day	1,153	1,026	1,022	900	910		6.6	-11.0	-0.4	-11.9	1.2		
Cooling Degree Day	462	512	363	322	431		-2.2	10.7	-29.1	-11.3	33.8		
Energy													
Total Primary Energy Supply (ktoe)	486,711	483,500	470,549	459,873	463,699		-0.6	-0.7	-2.7	-2.3	0.8		
Coal	117,859	123,899	124,238	122,502	124,302		4.5	5.1	0.3	-1.4	1.5		
Oil	223,950	215,923	202,541	196,353	191,059		5.4	-3.6	-6.2	-3.1	-2.7		
Crude Oil	193,974	193,364	181,583	178,131	179,073		2.5	-0.3	-6.1	-1.9	0.5		
Petroleum Products	29,976	22,559	20,958	18,222	11,986		28.7	-24.7	-7.1	-13.1	-34.2		
Natural Gas	3,383	3,150	2,997	2,892	2,937		-1.7	-6.9	-4.8	-3.5	1.6		
LNG	114,590	113,655	116,182	110,911	110,859		12.1	-0.8	2.2	-4.5	-0.0		
Hydro	16,629	16,922	17,165	18,187	18,063		-7.2	1.8	1.4	6.0	-0.7		
Nuclear	3,786	3,045	0	938	3,674		-89.0	-19.6	-100.0	-	291.5		
New Energies ※ ¹	6,513	6,907	7,426	8,091	12,805		4.0	6.1	7.5	8.9	-		
CO ₂ Emission (Mt- CO ₂)	1,218.2	1,221.4	1,198.0	1,158.4	1,156.9		7.0	0.3	-1.9	-3.3	-0.1		
Electricity													
Total Power Supply (Million kWh)					981,016								
Power Generation (Million kWh)					868,513								
Hydro					80,876								
Thermal					759,264								
Nuclear					17,678								
New Energies					10,490								
Fuel Consumption													
Coal (1,000t)					103,711								
Crude Oil (1,000k)					3,632								
Fuel Oil (1,000k)					7,316								
LNG (1,000t)					53,888								
Electricity Sale (Million kWh)					885,250								
Low voltage					304,794								
Lighting Contract					270,408								
Power Contract					34,386								
High voltage					306,654								
Extra-High Voltage					230,467								
Demand of Electricity ※ ² (Million kWh)				898,451	885,260								
Natural Gas													
City Gas Sale (Million m ³)	36,690	36,263	37,188	36,775	37,220		4.5	-1.2	2.5	-1.1	1.2		
Residential	9,911	9,521	9,612	9,448	9,273		2.6	-3.9	1.0	-1.7	-1.9		
Commercial	4,525	4,460	4,335	4,280	4,266		2.1	-1.4	-2.8	-1.3	-0.3		
Industrial	19,221	19,265	20,294	20,133	20,674		6.3	0.2	5.3	-0.8	2.7		
Others	3,033	3,017	2,946	2,914	3,007		3.6	-0.5	-2.4	-1.1	3.2		
Oil													
Fuel Type Product Sale (1,000k)	200,534	193,196	185,450	182,410	178,202		3.8	-3.7	-4.0	-1.6	-2.3		
Gasoline	57,094	55,234	53,608	53,107	52,844		0.4	-3.3	-2.9	-0.9	-0.5		
Naphtha	42,822	45,336	43,651	46,561	44,645		-4.1	5.9	-3.7	6.7	-4.1		
Kerosene	19,939	18,010	17,214	15,883	16,343		2.9	-9.7	-4.4	-7.7	2.9		
Diesel Gas Oil	33,402	33,753	33,789	33,665	33,411		2.3	1.1	0.1	-0.4	-0.8		
Fuel Oil A	14,299	13,428	12,741	11,887	12,170		-2.2	-6.1	-5.1	-6.7	2.4		
Fuel Oil B/C	29,012	22,559	19,232	15,900	13,461		40.6	-22.2	-14.8	-17.3	-15.3		
for Power Generation	16,486	12,642	10,690	7,838	-		75.1	-23.3	-15.4	-26.7	-		
LPG (1,000t)	16,111	15,233	14,685	13,005	13,436		7.3	-5.5	-3.6	-11.4	3.3		
Crude Oil													
Import (1,000k)	212,538	210,583	199,697	195,873	192,724		2.7	-0.9	-5.2	-1.9	-1.6		
Middle East Ratio (%)	83.4	83.1	83.0	81.8	86.6		[-3.5]	[-0.2]	[-0.2]	[-1.1]	[4.8]		
Crude Oil Processing (1,000k)	198,137	200,636	191,144	189,354	191,120		-0.0	1.3	-4.7	-0.9	0.9		

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

※¹ The scope of the data has been modified since April 2016, so growth rates for 2015-2016 are not presented.

※² 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.

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

To be updated in November 2017

Updated 2017/8/22

(Fiscal Year)

Fiscal Year (April - March)	2012FY	2013FY	2014FY	2015FY	2016FY	Annual Growth Rate				
						2012FY	2013FY	2014FY	2015FY	2016FY
Economy						%	%	%	%	%
RGDP (Billion yen in 2005 price)	499,634	512,652	510,302	516,792	523,474	0.9	2.6	-0.5	1.3	1.3
GDP (Billion yen)	494,674	507,401	517,755	531,977	537,935	0.2	2.6	2.0	2.7	1.1
IIP (2010=100)	95.8	98.9	98.4	97.5	98.6	-2.9	3.2	-0.5	-0.9	1.1
Raw Materials Production (1,000t)										
Crude Steel	107,305	111,524	109,844	104,229	105,165	0.8	3.9	-1.5	-5.1	0.9
Ethylene	6,261	6,764	6,687	6,780	6,286	-3.3	8.0	-1.1	1.4	-7.3
Cement	55,072	58,827	56,882	54,242	53,600	4.6	6.8	-3.3	-4.6	-1.2
Paper and Paperboard	25,731	26,667	26,295	26,234	26,343	-3.0	3.6	-1.4	-0.2	0.4
Domestic Corporate Goods PI (2010=100)	97.9	99.7	102.5	99.1	96.8	-3.6	1.8	2.8	-3.3	-2.4
CPI (2010=100)	96.1	96.9	99.8	100.0	100.0	-3.7	0.8	3.0	0.2	-0.0
Exchange Rate (¥/\$)	83.08	100.23	109.92	120.13	108.37	5.1	20.6	9.7	9.3	-9.8
Crude Oil Price (CIF, \$/Bbl)	114.19	110.11	89.21	48.89	47.66	0.1	-3.6	-19.0	-45.2	-2.5
LNG Price (CIF, \$/MMBtu)	865.65	837.35	797.26	452.05	362.76	5.2	-3.3	-4.8	-43.3	-19.8
Steaming Coal (CIF, \$/t)	126.97	107.93	92.62	75.55	80.66	-11.5	-15.0	-14.2	-18.4	6.8
Heating Degree Day	1,060	1,024	994	875	966	-3.6	-3.4	-2.9	-12.0	10.4
Cooling Degree Day	462	511	363	322	431	-2.2	10.7	-29.1	-11.3	33.8
Energy										
Total Primary Energy Supply (ktoe)	481,648	484,633	467,394	458,969	463,547	-1.4	0.6	-3.6	-1.8	1.0
Coal	117,753	125,917	124,396	123,687	121,764	4.4	6.9	-1.2	-0.6	-1.6
Oil	221,555	214,559	198,962	193,642	189,652	1.7	-3.2	-7.3	-2.7	-2.1
Crude Oil	192,448	191,859	178,285	177,679	176,174	0.9	-0.3	-7.1	-0.3	-0.8
Petroleum Products	29,987	19,522	20,509	15,543	11,489	11.0	-34.9	5.1	-24.2	-26.1
Natural Gas	3,279	3,143	2,901	2,869	2,961	-5.6	-4.2	-7.7	-1.1	3.2
LNG	112,535	115,243	116,007	109,154	111,043	3.9	2.4	0.7	-5.9	1.7
Hydro	16,584	16,834	17,535	18,341	15,818	-9.5	1.5	4.2	4.6	-13.8
Nuclear	3,355	1,930	0	1,958	3,618	-84.3	-42.5	-100.0	-	84.8
New Energies ※ ¹	6,587	7,009	7,594	8,354	17,573	3.1	6.4	8.3	10.0	-
CO ₂ Emission (Mt- CO ₂)	1,206.1	1,231.4	1,188.2	1,154.5	1,143.1	3.3	2.1	-3.5	-2.8	-1.0
Electricity (10 Major Electric Companies)										
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 Sale (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					-
Demand of Electricity ※ ² (Million kWh)				895,555	890,934					-
Natural Gas										
City Gas Sale (Million m ³)	36,323	36,694	37,100	36,462	37,701	1.1	1.0	1.1	-1.7	3.4
Residential	9,799	9,554	9,582	9,242	9,406	0.1	-2.5	0.3	-3.5	1.8
Commercial	4,500	4,472	4,315	4,233	4,292	0.4	-0.6	-3.5	-1.9	1.4
Industrial	19,026	19,631	20,254	20,113	20,957	1.9	3.2	3.2	-0.7	4.2
Others	2,999	3,037	2,949	2,874	3,046	1.0	1.3	-2.9	-2.5	6.0
Oil										
Fuel Type Product Sale (1,000kl)	197,770	193,596	182,715	180,524	176,801	0.7	-2.1	-5.6	-1.2	-2.1
Gasoline	56,207	55,477	52,981	53,127	52,503	-1.8	-1.3	-4.5	0.3	-1.2
Naphtha	43,172	45,739	43,923	46,234	44,828	-1.2	5.9	-4.0	5.3	-3.0
Kerosene	18,884	17,911	16,662	15,946	16,235	-3.8	-5.2	-7.0	-4.3	1.8
Diesel Gas Oil	33,391	34,089	33,583	33,619	33,341	1.6	2.1	-1.5	0.1	-0.8
Fuel Oil A	13,759	13,438	12,316	11,871	11,986	-6.3	-2.3	-8.3	-3.6	1.0
Fuel Oil B/C	28,382	21,890	17,930	14,241	12,615	17.9	-22.9	-18.1	-20.6	-11.4
for Power Generation	16,472	12,602	9,495	7,302	-	33.0	-23.5	-24.7	-23.1	-
LPG (1,000t)	15,847	14,927	14,574	12,422	12,776	-0.2	-5.8	-2.4	-14.8	2.9
Crude Oil										
Import (1,000kl)	211,026	210,345	195,169	194,515	191,047	0.9	-0.3	-7.2	-0.3	-1.8
Middle East Ratio (%)	83.2	83.6	82.7	82.5	87.2	[-1.9]	[0.5]	[-0.9]	[-0.3]	[4.7]
Crude Oil Processing (1,000kl)	197,643	200,434	189,001	189,060	190,565	0.3	1.4	-5.7	0.0	0.8

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

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

※² indicates to exclude the amount of Okinawa area in 2015FY.

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.