

1.01 Population, area, gross prefectural product and electricity consumed by prefecture (1)

Prefecture	Population				Total land area 2015 (km ²)	Forest area (As of Feb.1, 2015) (Thousand ha)
	2000	2005	2010	2015		
Nationwide	126,925,843	127,767,994	128,057,352	127,110,047	377,970.75	24,433
Hokkaido	5,683,062	5,627,737	5,506,419	5,383,579	83,424.31	5,322
Aomori	1,475,728	1,436,657	1,373,339	1,308,649	9,645.59	616
Iwate	1,416,180	1,385,041	1,330,147	1,279,814	15,275.01	1,144
Miyagi	2,365,320	2,360,218	2,348,165	2,334,215	* 7,282.22	407
Akita	1,189,279	1,145,501	1,085,997	1,022,839	11,637.54	820
Yamagata	1,244,147	1,216,181	1,168,924	1,122,957	* 9,323.15	641
Fukushima	2,126,935	2,091,319	2,029,064	1,913,606	13,783.74	936
Ibaraki	2,985,676	2,975,167	2,969,770	2,917,857	6,097.06	189
Tochigi	2,004,817	2,016,631	2,007,683	1,974,671	6,408.09	341
Gunma	2,024,852	2,024,135	2,008,068	1,973,476	6,362.28	406
Saitama	6,938,006	7,054,243	7,194,556	7,261,271	* 3,797.75	121
Chiba	5,926,285	6,056,462	6,216,289	6,224,027	* 5,157.65	157
Tokyo	12,064,101	12,576,601	13,159,388	13,513,734	* 2,190.93	76
Kanagawa	8,489,974	8,791,597	9,048,331	9,127,323	2,415.83	94
Niigata	2,475,733	2,431,459	2,374,450	2,305,098	* 12,584.10	799
Toyama	1,120,851	1,111,729	1,093,247	1,066,883	* 4,247.61	240
Ishikawa	1,180,977	1,174,026	1,169,788	1,154,343	4,186.09	276
Fukui	828,944	821,592	806,314	787,099	4,190.49	310
Yamanashi	888,172	884,515	863,075	835,165	* 4,465.27	347
Nagano	2,215,168	2,196,114	2,152,449	2,099,759	* 13,561.56	1,023
Gifu	2,107,700	2,107,226	2,080,773	2,032,533	* 10,621.29	839
Shizuoka	3,767,393	3,792,377	3,765,007	3,701,181	* 7,777.42	491
Aichi	7,043,300	7,254,704	7,410,719	7,484,094	* 5,172.48	218
Mie	1,857,339	1,866,963	1,854,724	1,815,827	* 5,774.40	371
Shiga	1,342,832	1,380,361	1,410,777	1,413,184	* 4,017.38	203
Kyoto	2,644,391	2,647,660	2,636,092	2,610,140	4,612.19	342
Osaka	8,805,081	8,817,166	8,865,245	8,838,908	1,905.14	57
Hyogo	5,550,574	5,590,601	5,588,133	5,536,989	8,400.96	561
Nara	1,442,795	1,421,310	1,400,728	1,365,008	3,690.94	283
Wakayama	1,069,912	1,035,969	1,002,198	963,850	4,724.69	361
Tottori	613,289	607,012	588,667	573,648	3,507.05	257
Shimane	761,503	742,223	717,397	694,188	6,708.24	520
Okayama	1,950,828	1,957,264	1,945,276	1,922,181	* 7,114.50	484
Hiroshima	2,878,915	2,876,642	2,860,750	2,844,963	8,479.45	609
Yamaguchi	1,527,964	1,492,606	1,451,338	1,405,007	6,112.30	437
Tokushima	824,108	809,950	785,491	756,063	4,146.65	312
Kagawa	1,022,890	1,012,400	995,842	976,756	* 1,876.72	87
Ehime	1,493,092	1,467,815	1,431,493	1,385,840	5,676.11	399
Kochi	813,949	796,292	764,456	728,461	7,103.93	592
Fukuoka	5,015,699	5,049,908	5,071,968	5,102,871	* 4,986.40	222
Saga	876,654	866,369	849,788	833,245	2,440.68	110
Nagasaki	1,516,523	1,478,632	1,426,779	1,377,780	4,132.09	241
Kumamoto	1,859,344	1,842,233	1,817,426	1,786,969	* 7,409.35	448
Oita	1,221,140	1,209,571	1,196,529	1,166,729	* 6,340.71	448
Miyazaki	1,170,007	1,153,042	1,135,233	1,104,377	* 7,735.31	587
Kagoshima	1,786,194	1,753,179	1,706,242	1,648,752	* 9,186.94	582
Okinawa	1,318,220	1,361,594	1,392,818	1,434,138	2,281.12	105

Note: When a prefecture shares an area of which boundaries are not yet fixed with other prefecture(s), that prefecture is indicated with *, and the figure for it is for reference purpose.

Source: Population: Compiled using data in "Population Census" and "Population Estimates" by Population Census Division, Statistical Survey Department, Statistics Bureau, Ministry of Internal Affairs and Communications, Government of Japan
As for 2010, compiled using data in "Population Census Report 2010 Population Basic Statistics, Also, for 2015, compiled using data from "2015 Population Census of Japan -- Results of Preliminary Counts of the Population and Households."

Total land area: Compiled from "Municipalities Area Statistics of Japan, 2015" Ministry of Land, Infrastructure, Transport and Tourism, Geospatial Information Authority of Japan, WEBSITE/GIS Information of the territory (<http://www.gsi.go.jp/KOKUJYOHO/MENCHO/201510/opening.htm>)

Forrest area: Compiled from "World Census of Agriculture Forestry 2015" (As of Feb. 1, 2015) (http://www.maff.go.jp/j/tokei/census/afc/2015/kekka_gaisuuti.html)

1.01 Population, area, gross prefectural product and electricity consumed by prefecture (2)

Prefecture	Land use						Natural park area (April 15, 2016) (ha)	City park area (The end of March, 2015) (ha)
	Area of private land							
	FY2014 (km2)	# Building lot	# Paddy fields	# Field	# Forest and mountains			
Nationwide	161,812	16,834	26,083	24,101	79,336	5,519,570	97,206	
Hokkaido	27,353	1,041	2,368	8,569	10,923	867,540	11,386	
Aomori	3,954	295	869	720	1,541	114,085	2,019	
Iwate	7,729	311	971	663	5,159	72,061	1,407	
Miyagi	3,623	384	1,095	302	1,657	171,199	2,304	
Akita	4,340	252	1,311	232	1,938	123,801	1,551	
Yamagata	3,534	252	1,002	338	1,645	155,509	1,838	
Fukushima	5,586	409	993	715	2,994	179,096	2,230	
Ibaraki	4,172	683	927	1,001	1,211	90,896	2,646	
Tochigi	3,186	437	969	358	1,120	133,443	2,691	
Gunma	2,456	419	263	592	911	88,864	2,457	
Saitama	2,266	679	401	495	480	124,582	4,306	
Chiba	3,516	735	840	615	926	28,537	3,151	
Tokyo	1,037	573	3	94	298	79,889	3,070	
Kanagawa	1,248	593	47	191	283	55,138	2,122	
Niigata	4,944	461	1,585	349	2,185	316,891	2,158	
Toyama	1,362	238	597	59	375	125,554	1,599	
Ishikawa	1,603	190	403	145	764	52,564	1,504	
Fukui	1,527	161	387	52	860	61,910	1,163	
Yamanashi	1,319	170	107	267	651	121,153	779	
Nagano	4,714	473	646	688	2,279	278,548	2,508	
Gifu	4,495	359	453	186	3,231	195,093	1,931	
Shizuoka	4,086	557	282	603	2,272	84,041	2,004	
Aichi	2,644	843	477	394	698	88,881	4,054	
Mie	2,740	344	500	211	1,497	201,896	1,636	
Shiga	1,574	226	502	57	687	149,957	1,244	
Kyoto	1,541	221	265	93	870	94,589	1,252	
Osaka	886	513	111	40	148	20,039	2,965	
Hyogo	3,935	571	710	123	2,270	166,015	4,131	
Nara	1,377	151	189	80	878	63,328	1,727	
Wakayama	2,293	151	146	246	1,695	49,552	666	
Tottori	1,350	107	253	153	673	49,061	647	
Shimane	3,330	136	371	158	2,516	40,496	1,048	
Okayama	4,045	352	617	254	2,600	80,664	1,317	
Hiroshima	4,186	359	508	256	2,851	37,853	2,030	
Yamaguchi	3,411	272	467	166	2,320	42,667	1,865	
Tokushima	1,745	132	215	173	1,188	38,706	528	
Kagawa	1,177	179	275	131	536	20,534	1,542	
Ehime	3,234	227	282	462	2,180	41,121	1,493	
Kochi	3,196	102	251	144	2,625	47,504	682	
Fukuoka	2,775	629	701	281	896	88,101	2,085	
Saga	1,581	160	448	223	632	26,884	818	
Nagasaki	2,035	200	273	445	919	74,091	1,407	
Kumamoto	3,688	327	703	582	1,748	155,636	731	
Oita	2,741	213	447	271	1,466	174,391	1,193	
Miyazaki	2,459	242	382	391	1,241	91,919	1,989	
Kagoshima	4,777	365	459	1,074	2,419	89,129	1,880	
Okinawa	1,044	140	13	459	80	66,162	1,453	

Note: "#" indicates major items whose values were included in total.

Source: Area of private land Ministry of Internal Affairs and Communications WEBSITE/ Statistic on local taxes (http://www.soumu.go.jp/main_sosiki/jichi_zeisei/czaisei/czaisei_seido/ichiran08.html)
Compiled using data from "Outline (land) of the record prices of fixed assets FY2014 (tentative translation)"

Natural parks' area:
National Park Division WEBSITE/Nature conservation data
Nature Conservation Bureau, Ministry of the Environment
Compiled using data from "Review of Natural Parks' Area by prefecture," (<http://www.env.go.jp/park/doc/data>)

Urban parks' area:
"A table of improvement status of urban parks,"
Urban park database, (http://www.mlit.go.jp/crd/park/joho/database/t_kokuen/index.html)
a web of Parks and Green Spaces Division, City and Regional Development Bureau,
Ministry of Land, Infrastructure, Transport and Tourism, the Government of Japan

1.01 Population, area, gross prefectural product and electricity consumed by prefecture (3)

Prefecture	Cultivated land area (2015) 1)							Cultivated rate	(%) 4) Paddy field rate
	Total of Paddy fields and Upland filed (ha)	# 2) Field proper	Paddy field	Field	Ordinary field	Land under permanent crops	Short-time Meadow		
Nationwide	4,496,000	4,315,000	2,446,000	2,050,000	1,152,000	291,400	606,500	12.1	54.4
Hokkaido	1,147,000	1,130,000	223,000	924,500	414,900	2,910	506,700	14.6	19.4
Aomori	153,300	149,100	81,200	72,100	34,500	22,700	14,900	15.9	53.0
Iwate	151,100	143,100	94,600	56,500	25,200	3,660	27,700	9.9	62.6
Miyagi	129,400	124,800	106,100	23,300	16,100	1,370	5,830	17.8	82.0
Akita	149,500	143,900	130,400	19,000	12,100	2,430	4,500	12.8	87.2
Yamagata	121,100	116,000	95,500	25,600	12,400	10,700	2,500	13.0	78.9
Fukushima	144,000	138,100	100,800	43,200	30,700	6,980	5,550	10.4	70.0
Ibaraki	170,900	168,400	99,000	71,900	64,600	6,940	376	28.0	57.9
Tochigi	124,500	121,200	97,100	27,400	22,500	2,330	2,570	19.4	78.0
Gunma	71,900	69,300	27,100	44,900	39,900	3,380	1,560	11.3	37.7
Saitama	76,300	75,000	42,300	34,000	30,800	3,120	68	20.1	55.4
Chiba	126,800	123,100	74,400	52,300	48,300	3,510	516	24.6	58.7
Tokyo	7,130	7,030	277	6,860	5,180	1,620	64	3.3	3.9
Kanagawa	19,600	19,000	3,850	15,700	11,900	3,730	72	8.1	19.6
Niigata	172,000	162,500	152,400	19,500	16,300	2,370	856	13.7	88.6
Toyama	58,800	56,700	56,300	2,500	1,490	743	269	13.8	95.7
Ishikawa	42,100	40,900	35,100	7,000	5,190	1,310	504	10.1	83.4
Fukui	40,600	39,600	36,800	3,770	2,720	782	263	9.7	90.6
Yamanashi	24,200	23,400	8,040	16,200	4,940	10,400	857	5.4	33.2
Nagano	108,900	99,100	54,000	54,900	36,100	15,500	3,300	8.0	49.6
Gifu	56,900	53,500	43,700	13,200	8,700	3,390	1,160	5.4	76.8
Shizuoka	67,900	65,400	22,700	45,200	15,800	28,200	1,170	8.7	33.4
Aichi	76,900	73,200	43,600	33,300	27,100	5,780	392	14.9	56.7
Mie	60,200	57,300	45,400	14,800	8,640	6,160	26	10.4	75.4
Shiga	52,600	50,300	48,500	4,100	2,990	1,040	66	13.1	92.2
Kyoto	31,000	29,100	24,200	6,760	3,670	3,020	68	6.7	78.1
Osaka	13,200	12,600	9,420	3,800	1,750	2,050	-	6.9	71.4
Hyogo	75,000	68,700	68,500	6,490	4,490	1,660	340	8.9	91.3
Nara	21,800	20,100	15,500	6,270	2,530	3,700	40	5.9	71.1
Wakayama	33,700	32,100	9,870	23,900	2,440	21,400	32	7.1	29.3
Tottori	34,700	32,000	23,600	11,100	8,580	1,700	869	9.9	68.0
Shimane	37,500	34,200	30,200	7,270	5,270	1,480	526	5.6	80.5
Okayama	66,400	60,200	51,900	14,500	10,000	3,720	694	9.3	78.2
Hiroshima	56,000	50,800	41,600	14,400	7,720	5,840	849	6.6	74.3
Yamaguchi	48,400	43,700	39,600	8,890	5,430	3,080	384	7.9	81.8
Tokushima	30,100	29,200	20,300	9,810	5,640	4,060	105	7.3	67.4
Kagawa	31,000	28,800	25,800	5,280	2,220	3,040	20	16.5	83.2
Ehime	50,400	47,200	23,200	27,200	6,190	20,800	196	8.9	46.0
Kochi	28,100	26,600	21,200	6,950	2,990	3,750	214	4.0	75.4
Fukuoka	84,500	80,500	66,800	17,600	8,140	9,280	227	16.9	79.1
Saga	53,000	50,400	43,100	9,910	4,240	5,630	51	21.7	81.3
Nagasaki	49,100	45,300	22,700	26,400	19,800	6,250	300	11.9	46.2
Kumamoto	114,100	106,000	70,000	44,100	22,100	15,100	6,830	15.4	61.3
Oita	56,600	52,500	40,300	16,300	8,920	4,610	2,780	8.9	71.2
Miyazaki	67,900	64,500	36,900	31,000	25,200	4,660	1,150	8.8	54.3
Kagoshima	120,800	113,500	38,700	82,100	65,100	13,700	3,230	13.1	32.0
Okinawa	38,600	37,300	850	37,700	29,900	1,940	5,840	16.9	2.2

Notes:

- 1) Cultivated land : Land area intended for cultivation and including attached dyke.
- 2) Land proper is used to grow crops and attached dyke is excluded.
- 3) Cultivated rate: Percentage (%) of cultivated land area (paddy field area + upland field) to total land area.
Total land area is by Geospatial Information Authority of Japan
- 4) Paddy field rate: Percentage of paddy field in cultivated land area (paddy field area + upland field).

Source: Compiled using data from "Arable land and cropping area statistics" (published on February 18, 2016) by Minister's Secretariat Statistics Department, Ministry of Agriculture, Forestry and Fisheries.
(<http://www.e-stat.go.jp/SG1/estat/List.do?lid=000001118102>)

1.01 Population, area, gross prefectural product and electricity consumed by prefecture (4)

Prefecture	Gross Prefectural Product (Nominal) (Unit: million yen)							Quantity of electricity used (Unit: million kWh) 1) 2)		
	FY 2010	FY 2011	FY 2013	Primary industries	Secondary industries	Tertiary industries	Taxes and duties on import goods	FY 2012	FY 2013	FY 2014
Nationwide	495,637,724	497,411,060	508,645,648	5,356,097	122,523,203	377,336,447	5,987,295	286,220	284,341	273,103
Hokkaido	18,428,392	18,263,055	18,268,793	719,640	3,022,132	14,469,940	150,316	11,818	11,595	11,237
Aomori	4,474,760	4,404,529	4,411,514	172,354	945,032	3,308,128	10,451	2,911	2,867	2,768
Iwate	4,096,965	4,179,680	4,516,178	152,261	1,216,745	3,109,204	59,938	2,889	2,876	2,819
Miyagi	8,045,272	7,632,961	8,816,646	108,100	2,020,732	6,671,988	61,761	5,006	5,000	4,921
Akita	3,526,125	3,463,505	3,477,343	115,506	674,088	2,686,703	17,973	2,346	2,305	2,227
Yamagata	3,739,070	3,650,352	3,830,374	139,174	1,016,638	2,646,557	50,893	2,573	2,518	2,470
Fukushima	7,126,334	6,432,386	7,174,617	123,741	2,374,307	4,622,515	95,320	4,187	4,145	4,106
Ibaraki	11,188,477	11,462,562	11,511,260	237,169	3,990,750	7,199,873	152,956	6,285	6,221	6,021
Tochigi	7,807,794	7,813,595	8,232,227	147,029	3,236,411	4,791,029	108,574	4,385	4,337	4,202
Gunma	7,427,842	7,644,016	7,824,950	107,349	3,067,533	4,584,542	103,857	4,499	4,438	4,278
Saitama	20,108,381	20,370,029	20,678,194	122,517	5,196,500	15,171,521	274,257	14,675	14,576	13,971
Chiba	19,005,963	18,799,527	19,811,204	221,843	4,438,387	14,984,710	262,940	12,571	12,457	11,917
Tokyo	91,139,263	92,387,777	93,128,268	48,461	10,461,782	82,555,888	435,041	29,984	29,784	28,509
Kanagawa	29,757,052	30,422,165	30,218,541	59,430	6,659,884	23,252,501	401,160	18,175	18,055	17,263
Niigata	8,606,775	8,712,110	8,833,568	177,387	2,366,559	6,214,357	117,224	5,242	5,103	4,955
Toyama	4,370,400	4,463,522	4,356,581	46,526	1,432,341	2,844,488	57,866	3,076	3,051	2,997
Ishikawa	4,264,966	4,217,520	4,544,888	42,907	1,189,520	3,275,253	60,333	3,322	3,298	3,237
Fukui	3,302,825	3,235,861	3,127,077	31,418	911,158	2,157,583	41,978	2,354	2,334	2,291
Yamanashi	3,123,259	3,143,441	3,129,857	57,760	972,444	2,074,902	41,561	1,982	1,986	1,915
Nagano	8,024,077	7,950,268	7,752,205	147,597	2,346,572	5,197,129	102,945	5,085	5,009	4,884
Gifu	7,093,400	7,123,625	7,119,761	71,913	2,113,004	4,875,197	94,497	4,681	4,633	4,454
Shizuoka	15,765,640	15,564,207	15,876,309	158,658	6,265,874	9,316,697	210,690	8,189	8,134	7,853
Aichi	31,642,329	31,881,502	35,447,523	163,776	13,642,453	21,378,662	469,633	16,117	16,062	15,322
Mie	7,368,128	7,091,928	7,688,880	89,221	3,103,615	4,442,868	101,405	4,270	4,265	4,074
Shiga	6,013,854	5,750,090	5,968,096	42,136	2,448,850	3,424,160	79,172	3,439	3,401	3,274
Kyoto	9,372,569	9,845,602	9,825,395	41,774	2,484,729	7,216,302	130,404	6,345	6,255	5,947
Osaka	36,384,314	36,600,004	37,314,976	39,456	6,531,717	30,183,142	804,190	20,039	19,771	18,656
Hyogo	18,346,170	18,313,629	19,232,538	100,623	5,178,298	13,809,778	255,493	12,957	12,746	12,095
Nara	3,551,806	3,500,992	3,520,619	22,901	718,110	2,750,649	41,014	3,231	3,197	3,037
Wakayama	3,503,380	3,541,483	3,583,311	68,801	1,224,590	2,258,367	47,539	2,663	2,649	2,528
Tottori	1,836,172	1,765,961	1,767,569	39,836	315,985	1,395,788	23,445	1,457	1,450	1,398
Shimane	2,325,350	2,395,905	2,350,799	44,652	546,847	1,739,374	31,198	1,818	1,817	1,756
Okayama	7,064,698	7,222,681	7,273,433	71,708	2,280,480	4,860,734	96,542	4,907	4,888	4,707
Hiroshima	10,808,039	11,061,197	10,842,876	83,537	2,916,796	7,815,231	81,157	7,071	7,050	6,789
Yamaguchi	5,752,238	5,643,005	5,778,917	42,525	2,109,528	3,577,434	76,687	3,514	3,531	3,387
Tokushima	2,819,974	2,863,274	2,937,090	61,161	933,654	1,916,057	38,964	1,996	1,990	1,912
Kagawa	3,571,168	3,731,428	3,647,003	45,569	901,860	2,694,081	22,688	2,540	2,542	2,440
Ehime	4,887,896	5,100,033	4,776,672	99,907	1,168,294	3,480,144	53,599	3,458	3,457	3,318
Kochi	2,158,415	2,164,634	2,262,669	83,131	327,891	1,833,173	30,036	1,804	1,798	1,733
Fukuoka	18,041,898	17,945,938	18,189,907	138,282	3,436,528	14,464,465	239,958	11,401	11,539	10,943
Saga	2,867,595	2,673,583	2,681,129	68,881	763,708	1,820,272	38,531	1,938	1,948	1,870
Nagasaki	4,377,020	4,409,382	4,393,001	114,369	806,377	3,433,548	58,344	3,161	3,166	3,035
Kumamoto	5,559,799	5,611,936	5,566,376	188,991	1,244,647	4,085,956	73,302	4,026	4,062	3,906
Oita	4,293,466	4,255,542	4,182,168	89,558	1,208,451	2,768,761	138,162	2,791	2,813	2,705
Miyazaki	3,496,699	3,498,167	3,605,957	158,039	818,531	2,598,284	47,848	2,491	2,514	2,440
Kagoshima	5,446,148	5,438,005	5,286,586	189,020	954,554	4,101,007	70,670	3,702	3,750	3,620
Okinawa	3,725,567	3,795,466	3,881,803	59,503	538,317	3,277,505	24,783	2,852	2,955	2,917

Notes:

- Quantity of electricity used is a sum of data from 10 electric companies.
- Due to rounding up/down, each number and totals may not be consistent.

Source: Prefectural gross product:
 "Annual Report of Prefectural Accounts FY2014"
 Economic and Social Research Institute, Cabinet Office, Government of Japan
 Energy use:
 "Handbook of Electric Utilities FY2015" by Statistics Committee Federation of Electric Utility Companies.

Annual Report on Environmental Statistics 2016

1.02 Population by city (2015)

(Unit : Thousand person)

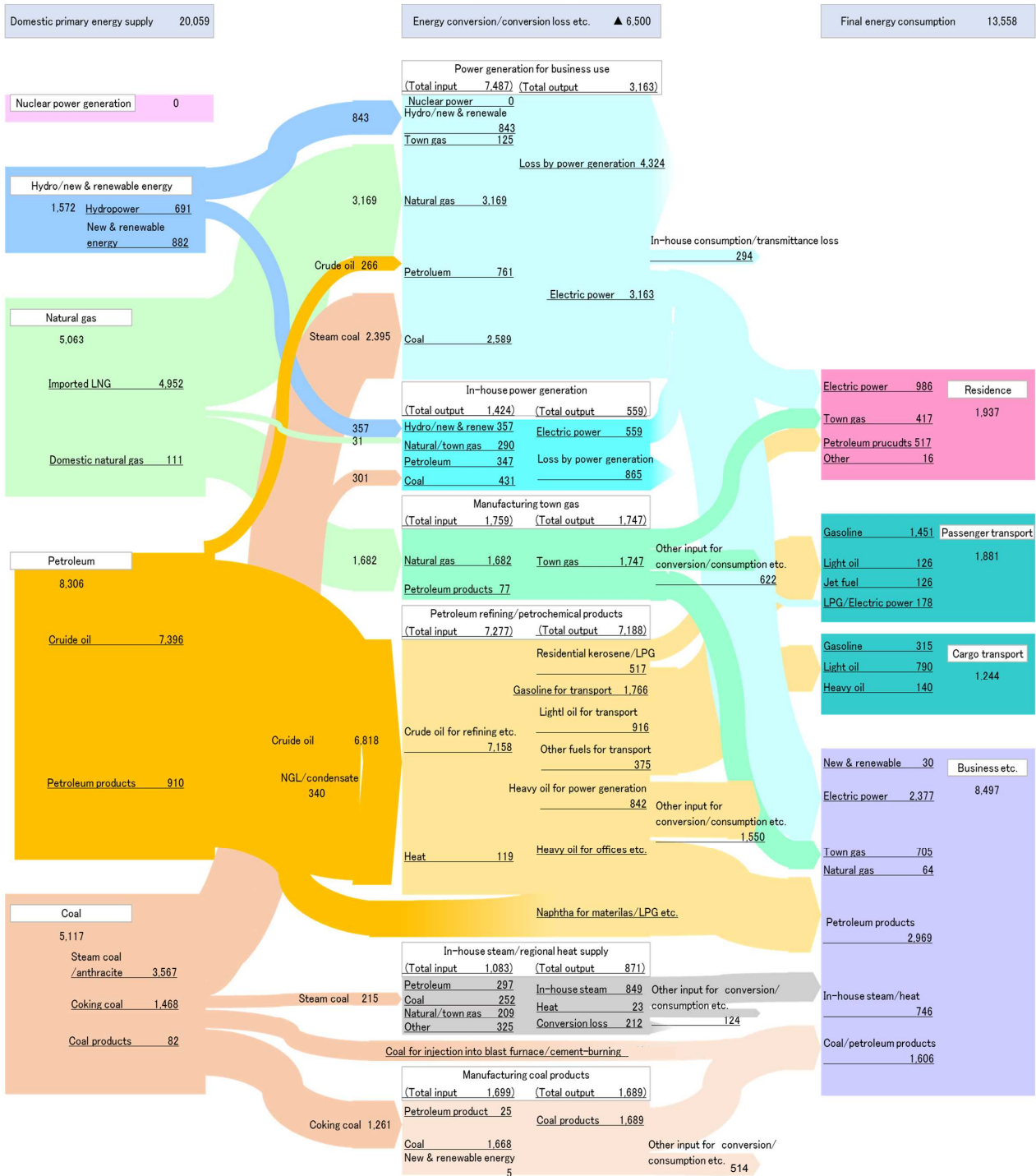
City (ku)	Population	City (ku)	Population	City (ku)	Population	City (ku)	Population	City (ku)	Population	City (ku)	Population
Hokkaido											
Sapporo	1,936	Kawagoe	349	Nishi-ku	98	Kita-ku	95	Abeno-ku	107	Saeki-ku	138
Chuo-ku	227	Kumagaya	202	Naka-ku	150	Hamakita-ku	97	Sumiyoshi-ku	154	Kure	236
Kita-ku	282	Kawaguchi	589	Minami-ku	199	Tenryu-ku	32	Higashi Sumiyosi-Ku	131	Onomichi	144
Higashi-ku	258	Tokorozawa	343	Hodogaya-ku	204	Numazu	203	Nishinari-ku	110	Fukuyama	472
Shiraishi-ku	210	Kazo	115	Isogo-ku	166	Mishima	112	Tsurumi-ku	113	Higashi Hiroshima	185
Yohohira-ku	218	Kasukabe	238	Kanazawa-ku	203	Fujinomiya	135	Suminoe-ku	125	Hatsukaichi	117
Minami-ku	142	Sayama	154	Kohoku-ku	337	Shimada	101	Hirano-ku	201		
Nishi-ku	212	Kounosu	119	Totsuka-ku	276	Fuji	258	Kita-ku	115	Yamaguchi	
Atsubetu-ku	129	Fukaya	146	Konan-ku	218	Iwata	171	Chuo-ku	92	Shimonoseki	275
Teine-ku	141	Ageo	228	Asahi-ku	250	Yaizu	143	Sakai	848	Ube	171
Kiyota-ku	115	Souka	245	Midori-ku	179	Kakegawa	118	Sakai-ku	146	Yamaguchi	195
Hakodate	271	Koshigaya	334	Seya-ku	127	Fujieda	147	Naka-ku	125	Hofu	118
Otaru	125	Toda	133	Sakae-ku	124			Higashi-Ku	87	Iwakuni	142
Asahikawa	347	Iruma	150	Izumi-ku	156	Aichi		Nishi-ku	138	Shunan	148
Kushiro	178	Asaka	134	Aoba-ku	307	Nagoya	2,260	Minami-ku	152		
Obihiro	169	Niza	163	Tsuzuki-ku	211	Chigusa-ku	158	Kita-ku	159	Tokushima	
Kitami	122	Kuki	155	Kawasaki	1,445	Higashi-ku	75	Mihara-ku	40	Tokushima	257
Tomakomai	174	Fujimi	109	Kawasaki-ku	223	Kita-ku	164	Kishiwada	200		
Ebetsu	120	Misato	137	Saiwai-ku	159	Nishi-ku	145	Toyonaka	401	Kagawa	
		Sakato	101	Nakahara-ku	240	Nakamura-ku	132	Ikeda	103	Takamatsu	429
		Fujimino	112	Takatsu-ku	222	Naka-ku	80	Suita	363	Marugame	113
				Tama-ku	204	Showa-ku	101	Takatsuki	356		
Aomori				Miyamae-ku	225	Mizuho-ku	105	Moriguchi	145	Ehime	
Aomori	296	Chiba		Aso-ku	173	Atsuta-ku	65	Hirakata	408	Matsuyama	517
Hirosaki	179	Chiba	962	Sagamihara	715	Nakagawa-ku	220	Ibaragi	279	Imagari	166
Hachinohe	238	Chuo-ku	201	Midori-ku	174	Minato-ku	149	Yao	270	Niihama	123
		Hanamigawa-ku	178	Inage-ku	156	Chuo-ku	268	Izumisano	101	Saijo	113
Iwate		Wakaba-ku	151	Minami-ku	273	Moriyama-ku	172	Tondabayashi	116		
Morioka	295	Midori-ku	127	Yokosuka	418	Midori-ku	242	Neyagawa	241	Kochi	
Ichinoseki	124	Hiratsuka	149	Hiratsuka	258	Meito-ku	161	Kawachi Nagano	211	Kochi	337
Oshu	122	Mihama-ku	473	Kamakura	177	Tenpaku-ku	156	Matsubara	123		
		Ichikawa	623	Fujisawa	423	Toyoashi	389	Daito	124	Fukuoka	
Miyagi		Funabashi	133	Odawara	195	Okazaki	381	Izumi	187	Kita kyushu	977
Sendai	1,054	Kisarazu	487	Chigasaki	240	Ichinomiya	387	Minoh	135	Moji-ku	104
Aoba-ku	291	Matsudo	156	Hatano	164	Seto	131	Habikino	115	Wakamatsu-ku	86
Miyagino-ku	188	Noda	131	Atsugi	225	Handa	119	Kadoma	127	Tobata-ku	59
Wakabayashi	131	Narita	178	Yamato	234	Kasugai	310	Higashi Osaka	499	Kokura Kita-ku	182
Taihaku-ku	226	Sakura	167	Ebina	130	Toyokawa	185			Kokura Minami-ku	216
Izumi-ku	217	Narashino	406	Zama	130	Kariya	149	Hyogo		Yawata Higashi-ku	71
Isinomaki	150	Kashiwa	280	Nagareyama	173	Nigata		Kobe	1,551	Yawata Nishi-ku	260
Ohsaki	135	Ichihara	194	Yachiyo	194	Nigata	804	Higashi Nada-ku	213	Fukuoka	1,486
		Nagareyama	133	Abiko	110	Kita-ku	77	Nada-ku	170	Nishio	233
Akita		Yachiyo	110	Kamagaya	139	Higashi-ku	139	Hyoogo-ku	109	Hakata-ku	298
Akita	319	Urayasu	163	Chuo-ku	177	Konnan	101	Nagata-ku	102	Chuo-ku	215
		Tokyo		Konan-ku	69	Komaki	154	Suma-ku	166	Minami-ku	254
Yamagata		Districts of Tokyo	9,103	Akiba-ku	78	Inazawa	139	Tarumi-ku	225	Nishi-ku	201
Yamagata	251	Chida-ku	57	Minami-ku	47	Tokai	113	Kita-ku	226	Jonan-ku	123
Tsuruoka	133	Nishi-ku	158	Mie				Chuo-ku	129	Sawara-ku	216
Sakata	108	Chuo-ku	138	Nishikan-ku	60	Tsu	285	Nishi-ku	249	Omuta	121
		Minato-ku	241	Nagaoka	279	Yokkaichi	313	Himeji	543	Kurume	306
Fukushima		Shinjuku-ku	328	Sanjo	102	Ise	131	Amagasaki	465	Izuka	131
Fukushima	285	Bunkyo-ku	207	Shibata	101	Matuzaka	169	Akashi	298	Tsukushino	102
Aizu Wakamatsu	124	Taito-ku	190	Joetsu	200	Kuwana	143	Nishinomiya	483	Kasuga	112
Koriyama	327	Sumida-ku	258	Toyama		Suzuka	201	Itami	202	Itohima	100
Iwaki	334	Koto-ku	494	Toyama	420	Shiga		Kakogawa	271		
		Shinagawa-ku	372	Toyama	176	Otsu	343	Takarazuka	234	Saga	
Ibaraki		Meguro-ku	270	Takaoka	176	Hikone	113	Kawanishi	161	Saga	236
Mito	273	Ota-ku	707	Ishikawa		Nagahama	122	Sanda	115	Karatsu	128
Hitachi	189	Setagaya-ku	874	Kanazawa	453	Kusatsu	129	Nara			
Tsuchiura	145	Shibuya-ku	217	Komatsu	109	Higashi Omi	116	Nara	364	Nagasaki	
Koga	145	Nakano-ku	317	Hakusan	113	Kyoto	1,419	Kashihara	125	Sasebo	260
Toride	109	Suginami-ku	547	Kyoto		Kyoto		Ikoma	121	Isahaya	141
Tsukuba	221	Toshima-ku	276	Fukui		Kita-ku	112	Wakayama			
Hitachinaka	159	Kita-ku	338	Arakawa-ku	209	Arakawa-ku	77	Wakayama	377	Kumamoto	
Chikusei	109	Itabashi-ku	544	Nerima-ku	715	Nerima-ku	674	Tottori		Kumamoto	735
		Adachi-ku	674	Kofu	194	Higashiyama-ku	37	Tottorhi	193	Chuo-ku	176
Tochigi		Katsushika-ku	450	Nagano		Shimogyo-ku	77	Yonago	150	Higashi-ku	191
Utsunomiya	520	Edogawa-ku	680	Nagano	384	Ukyo-ku	98	Shimane		Nishi-ku	93
Ashikaga	153	Hachioji	563	Matsumoto	242	Fushimi-ku	196	Matsue	206	Minami-ku	128
Tochigi	164	Tachikawa	179	Ueda	160	Yamashina-ku	278	Izumo	175	Kita-ku	146
Sano	122	Musashino	142	Ida	105	Nishikyoku-ku	152	Okayama		Yatsushiro	131
Kanuma	101	Mitaka	137	Gifu		Uji	191	Okayama	706	Oita	
Oyama	166	Ome	255	Gifu	416	Osaka		Okayama	293	Oita	479
Nasu Shibar	119	Fuchu	224	Ogaki	163	Osaka	2,671	Kita-ku	293	Beppu	121
		Akishima	427	Tajimi	114	Miyakojima-ku	103	Naka-ku	145	Miyazaki	
Gumma		Koganei	117	Kagamihara	148	Fukushima-ku	70	Higashi-Ku	97	Miyakonojo	406
Maebashi	340	Kodaira	187	Kani	101	Konohana-ku	68	Minami-ku	171	Noeoka	169
Takasaki	375	Hino	181	Shizuoka		Nishi-ku	88	Kurashiki	484	Kagoshima	
Kiryu	119	Higashimurayama	151	Shizuoka	716	Minato-ku	83	Tsuyama	105	Kagoshima	608
Iseaki	211	Kokubunji	119	Aol-ku	258	Taisho-ku	68	Hiroshima		Kagoshima	105
Ohta	222	Higashikurume	116	Suruga-ku	212	Tennoji-ku	72	Hiroshima	1,188	Kanoya	128
		Tama	147	Shimizu-ku	245	Naniwa-ku	62	Naka-ku	129	Okinawa	
Saitama		Chuo-ku	198	Hamamatsu	810	Higashiyodogawa-ku	97	Higahi-ku	129	Naha	323
Saitama	1,261	Sakura-ku	96	Naka-ku	240	Higashiyodogawa-ku	171	Minami-ku	141	Urasoe	114
Nishi-ku	86	Urawa-ku	153	Higashi-ku	130	Higashinari-ku	81	Nishi-ku	189	Okinawa	139
Kita-ku	145	Minami-ku	179	Nishi-ku	113	Ikuno-ku	129	Asa Minami-ku	240	Uruma	122
Ohmiya-ku	114	Midori-ku	118	Minami-ku	104	Asahi-ku	91	Asa Kita-ku	150		
Minuma-ku	161	Iwatsuki-ku	111			Joto-ku	167	Aki-ku	81		

Notes: Only cities with population of 100 thousand or more are shown.

Source: "Statistical Yearbook 2016," Statistical Bureau, Ministry of Internal Affairs and Communications

1.03 Chart of Japan's energy balance flow (FY2014)

(Unit: 10¹⁵ j)



Notes:

- This chart presents the outline of Japan's energy flow, and does not show the detail of the flows.
- "Petroleum" includes petroleum products, in addition to crude oil, NGL, and condensate.
- "Coal" includes coal products in addition to steam coal and anthracite.

Source: "Energy White Paper 2016," Agency for Natural Resources and Energy, METI

1.04 Trends in total amount of domestic primary energy supply

(Unit : 1015J)

	Total	Comparison with the previous year (%)	Breakdown												
			Crude oil	Coal	Coal products	Oil products	Natural gas	Nuclear power	Hydroelectric power for business	Unutilized energy	Solar energy	Geothermal energy	Biomass energy	Natural temperature fluctuate power	Wind energy
FY 1990	20,202.0	-	9,163.7	3,352.0	15.4	2,341.2	2,059.2	1,884.5	809.5	304.2	57.8	16.2	198.5	0.0	0.0
			45.4%	16.6%	0.1%	11.6%	10.2%	9.3%	4.0%	1.5%	0.3%	0.1%	1.0%	0.0%	0.0%
1991	20,412.8	1.0%	9,161.7	3,476.0	19.3	2,134.5	2,165.6	1,986.9	886.4	310.3	56.0	16.5	199.8	0.0	0.0
			44.9%	17.0%	0.1%	10.5%	10.6%	9.7%	4.3%	1.5%	0.3%	0.1%	1.0%	0.0%	0.0%
1992	20,900.0	2.4%	9,816.9	3,366.7	13.1	2,083.0	2,220.9	2,075.4	749.6	309.4	53.3	16.6	195.0	0.0	0.0
			47.0%	16.1%	0.1%	10.0%	10.6%	9.9%	3.6%	1.5%	0.3%	0.1%	0.9%	0.0%	0.0%
1993	21,206.2	1.5%	9,847.6	3,383.3	12.6	1,917.1	2,284.2	2,322.3	869.5	314.2	52.8	16.6	186.0	0.0	0.0
			46.4%	16.0%	0.1%	9.0%	10.8%	11.0%	4.1%	1.5%	0.2%	0.1%	0.9%	0.0%	0.0%
1994	22,292.5	5.1%	10,517.2	3,610.4	12.6	2,050.5	2,411.0	2,497.6	609.5	323.6	52.4	19.2	188.5	0.0	0.0
			47.2%	16.2%	0.1%	9.2%	10.8%	11.2%	2.7%	1.5%	0.2%	0.1%	0.8%	0.0%	0.0%
1995	22,712.2	1.9%	10,204.0	3,736.1	18.0	2,226.3	2,479.5	2,694.5	741.5	335.6	51.5	29.4	195.8	0.0	0.0
			44.9%	16.4%	0.1%	9.8%	10.9%	11.9%	3.3%	1.5%	0.2%	0.1%	0.9%	0.0%	0.0%
1996	23,014.9	1.3%	10,134.5	3,793.1	24.1	2,315.7	2,628.7	2,774.8	722.1	342.4	49.2	33.7	196.6	0.0	0.0
			44.0%	16.5%	0.1%	10.1%	11.4%	12.1%	3.1%	1.5%	0.2%	0.1%	0.9%	0.0%	0.0%
1997	23,336.8	1.4%	10,269.2	3,887.4	49.8	2,065.2	2,735.8	2,899.0	796.1	350.1	47.6	34.1	202.5	0.0	0.0
			44.0%	16.7%	0.2%	8.8%	11.7%	12.4%	3.4%	1.5%	0.2%	0.1%	0.9%	0.0%	0.0%
1998	22,702.0	-2.7%	9,756.0	3,688.5	24.9	2,025.9	2,796.7	2,997.7	814.0	341.0	39.4	31.8	186.1	0.0	0.1
			43.0%	16.2%	0.1%	8.9%	12.3%	13.2%	3.6%	1.5%	0.2%	0.1%	0.8%	0.0%	0.0%
1999	22,857.0	0.7%	9,532.9	3,867.0	59.2	2,268.6	2,941.6	2,822.8	752.3	352.3	35.7	30.8	193.5	0.0	0.3
			41.7%	16.9%	0.3%	9.9%	12.9%	12.3%	3.3%	1.5%	0.2%	0.1%	0.8%	0.0%	0.0%
2000	23,600.2	3.3%	9,761.3	4,210.7	76.2	2,252.2	3,060.7	2,859.1	756.7	354.7	37.9	29.7	199.9	0.0	1.0
			41.4%	17.8%	0.3%	9.5%	13.0%	12.1%	3.2%	1.5%	0.2%	0.1%	0.8%	0.0%	0.0%
2001	22,855.4	-3.2%	9,177.8	4,329.3	50.7	2,063.8	3,075.0	2,823.7	726.2	359.0	35.0	30.3	182.4	0.0	2.2
			40.2%	18.9%	0.2%	9.0%	13.5%	12.4%	3.2%	1.6%	0.2%	0.1%	0.8%	0.0%	0.0%
2002	22,959.7	0.5%	9,258.7	4,439.9	70.1	2,168.8	3,119.0	2,577.3	703.5	364.4	34.8	29.5	190.0	0.0	3.6
			40.3%	19.3%	0.3%	9.4%	13.6%	11.2%	3.1%	1.6%	0.2%	0.1%	0.8%	0.0%	0.0%
2003	22,951.4	0.0%	9,297.1	4,574.2	73.3	2,149.7	3,315.1	2,093.9	807.2	379.5	29.9	30.4	194.1	0.0	7.2
			40.5%	19.9%	0.3%	9.4%	14.4%	9.1%	3.5%	1.7%	0.1%	0.1%	0.8%	0.0%	0.0%
2004	23,640.2	3.0%	9,227.6	4,965.1	93.3	2,151.2	3,291.9	2,470.7	803.9	375.3	27.3	29.5	193.0	0.0	11.4
			39.0%	21.0%	0.4%	9.1%	13.9%	10.5%	3.4%	1.6%	0.1%	0.1%	0.8%	0.0%	0.0%
2005	23,755.1	0.5%	9,506.1	4,747.7	81.3	2,127.6	3,288.5	2,661.7	667.9	373.5	26.7	28.2	230.8	0.0	15.3
			40.0%	20.0%	0.3%	9.0%	13.8%	11.2%	2.8%	1.6%	0.1%	0.1%	1.0%	0.0%	0.1%
2006	23,773.1	0.1%	9,111.0	4,806.4	58.7	2,065.0	3,600.6	2,645.6	763.1	417.7	25.9	26.9	233.3	0.0	18.9
			38.3%	20.2%	0.2%	8.7%	15.1%	11.1%	3.2%	1.8%	0.1%	0.1%	1.0%	0.0%	0.1%
2007	23,794.9	0.1%	9,255.8	5,010.1	64.2	1,940.2	3,892.4	2,306.1	646.9	361.6	24.6	26.6	243.6	0.0	22.9
			38.9%	21.1%	0.3%	8.2%	16.4%	9.7%	2.7%	1.5%	0.1%	0.1%	1.0%	0.0%	0.1%
2008	23,150.4	-2.7%	8,929.1	4,932.4	44.5	1,836.4	3,882.6	2,237.1	662.5	323.3	23.7	23.8	229.4	0.0	25.5
			38.6%	21.3%	0.2%	7.9%	16.8%	9.7%	2.9%	1.4%	0.1%	0.1%	1.0%	0.0%	0.1%
2009	21,686.4	-6.3%	8,065.9	4,391.3	12.6	1,764.9	3,781.3	2,398.1	659.2	326.2	21.4	24.7	209.8	0.0	31.0
			37.2%	20.2%	0.1%	8.1%	17.4%	11.1%	3.0%	1.5%	0.1%	0.1%	1.0%	0.0%	0.1%
2010	23,199.5	7.0%	8,162.0	4,967.5	29.9	1,926.1	4,001.7	2,464.8	703.0	520.9	20.2	22.6	346.9	0.0	33.9
			35.2%	21.4%	0.1%	8.3%	17.2%	10.6%	3.0%	2.2%	0.1%	0.1%	1.5%	0.0%	0.1%
2011	22,047.1	-5.0%	8,011.2	4,661.3	26.2	2,102.3	4,695.7	875.0	715.4	535.9	19.2	23.0	342.8	0.0	39.2
			36.3%	21.1%	0.1%	9.5%	21.3%	4.0%	3.2%	2.4%	0.1%	0.1%	1.6%	0.0%	0.2%
2012	21,720.5	-1.5%	8,049.3	4,873.8	29.2	2,199.8	4,890.7	137.1	649.1	467.3	18.4	22.4	342.7	0.0	40.6
			37.1%	22.4%	0.1%	10.1%	22.5%	0.6%	3.0%	2.2%	0.1%	0.1%	1.6%	0.0%	0.2%
2013	21,979.6	1.2%	8,028.9	5,249.5	64.2	2,016.4	4,953.5	80.0	671.3	452.4	26.8	22.3	370.5	0.0	43.7
			36.5%	23.9%	0.3%	9.2%	22.5%	0.4%	3.1%	2.1%	0.1%	0.1%	1.7%	0.0%	0.2%
2014	21,056.0	-4.2%	7,413.5	5,034.3	98.4	1,974.5	4,963.1	0.0	690.6	393.9	47.2	21.8	376.1	0.0	42.5
			35.2%	23.9%	0.5%	9.4%	23.6%	0.0%	3.3%	1.9%	0.2%	0.1%	1.8%	0.0%	0.2%

Source: "Comprehensive Energy Statistics," Agency for Natural Resources and Energy

1.05 Trends in final domestic energy consumption

(Unit : 1015J)

	Total	Comparison with the previous year (%)	Breakdown			
			Industry	Home	Business and others	Transportation
FY 1990	13,540.1	-	7,020.1	1,683.0	1,788.8	3,048.1
			51.8%	12.4%	13.2%	22.5%
1991	13,736.4	1.4%	6,962.8	1,721.9	1,820.6	3,231.0
			50.7%	12.5%	13.3%	23.5%
1992	13,856.6	0.9%	6,882.3	1,797.6	1,855.6	3,321.1
			49.7%	13.0%	13.4%	24.0%
1993	14,006.7	1.1%	6,771.7	1,890.5	1,972.5	3,371.9
			48.3%	13.5%	14.1%	24.1%
1994	14,505.0	3.4%	6,999.4	1,896.9	2,100.4	3,508.3
			48.3%	13.1%	14.5%	24.2%
1995	14,964.1	3.1%	7,105.1	2,004.8	2,216.8	3,637.5
			47.5%	13.4%	14.8%	24.3%
1996	15,203.3	1.6%	7,210.7	2,013.6	2,245.0	3,734.0
			47.4%	13.2%	14.8%	24.6%
1997	15,316.6	0.7%	7,199.9	2,007.4	2,352.8	3,756.5
			47.0%	13.1%	15.4%	24.5%
1998	15,113.5	-1.3%	6,777.1	2,024.7	2,582.9	3,728.8
			44.8%	13.4%	17.1%	24.7%
1999	15,488.0	2.4%	6,963.9	2,079.4	2,659.8	3,784.9
			45.0%	13.4%	17.2%	24.4%
2000	15,655.2	1.1%	7,037.6	2,142.4	2,706.4	3,768.8
			45.0%	13.7%	17.3%	24.1%
2001	15,455.1	-1.3%	6,822.8	2,084.7	2,718.6	3,829.1
			44.1%	13.5%	17.6%	24.8%
2002	15,680.5	1.4%	6,994.0	2,156.8	2,761.3	3,768.4
			44.6%	13.8%	17.6%	24.0%
2003	15,531.7	-1.0%	7,004.8	2,094.3	2,726.0	3,706.6
			45.1%	13.5%	17.6%	23.9%
2004	15,738.1	1.3%	7,077.5	2,119.6	2,919.5	3,621.5
			45.0%	13.5%	18.6%	23.0%
2005	15,670.5	-0.4%	6,962.3	2,204.9	2,967.3	3,536.0
			44.4%	14.1%	18.9%	22.6%
2006	15,713.8	0.3%	7,217.4	2,127.9	2,878.1	3,490.4
			45.9%	13.5%	18.3%	22.2%
2007	15,446.2	-1.7%	7,138.7	2,157.4	2,701.8	3,448.3
			46.2%	14.0%	17.5%	22.3%
2008	14,359.2	-7.6%	6,338.4	2,079.1	2,618.0	3,323.7
			44.1%	14.5%	18.2%	23.1%
2009	14,089.4	-1.9%	6,187.7	2,057.5	2,569.3	3,275.0
			43.9%	14.6%	18.2%	23.2%
2010	14,698.0	4.1%	6,682.4	2,173.9	2,556.4	3,285.3
			45.5%	14.8%	17.4%	22.4%
2011	14,300.1	-2.8%	6,526.7	2,082.4	2,451.0	3,240.0
			45.6%	14.6%	17.1%	22.7%
2012	14,115.4	-1.3%	6,376.5	2,065.1	2,362.2	3,311.6
			45.2%	14.6%	16.7%	23.5%
2013	14,009.1	-0.8%	6,230.9	2,012.2	2,531.0	3,235.0
			44.5%	14.4%	18.1%	23.1%
2014	13,558.4	-3.3%	6,078.4	1,936.6	2,418.1	3,125.3
			44.8%	14.3%	17.8%	23.1%

Source: "Comprehensive Energy Statistics," Agency for Natural Resources and Energy

1.06 Fuel consumption for residential and commercial industry use

(Unit : 1015J)

	Total	Residential			Commercial industry				
		Oil products	Town gas	Electricity	Oil products	Town gas	Electricity		
FY 1990	3,472	1,683	613	343	663	1,789	1,000	79	525
1995	4,222	2,005	722	499	827	2,217	1,087	103	797
2000	4,848	2,142	755	419	928	2,706	1,186	177	1,047
2005	5,172	2,205	722	436	1,019	2,967	1,253	230	1,152
2010	4,730	2,174	626	427	1,099	2,556	832	278	1,278
2011	4,533	2,082	91	427	1,045	2,451	859	257	1,169
2012	4,432	2,065	586	426	1,034	2,367	679	294	1,203
2013	4,539	2,012	558	410	1,027	2,527	744	327	1,263

Source: "JAPAN STATISTICAL YEARBOOK 2016," Statistics Bureau, Ministry of Internal Affairs and Communication

1.07 Supply and demand of food

	Domestic production (Thousand t)	Foreign trade		Changes in stock 1)	Supplies for domestic consumption (Thousand t)			Net food supply per capita					Self-sufficiency ratio (%)
		Imports (Thousand t)	Exports (Thousand t)		For process (Thousand t)	Net food (Thousand t)	Quantity Per year (kg)	Per day					
								Quantity (g)	Calories (kcal)	Protein (g)	Lipid (g)		
[Rice]													
FY2000	9,490	879	462	-76	9,790	489	8,198	64.6	177.0	630.0	10.8	1.6	95
2005	8,998	978	179	252	9,222	328	7,845	61.4	168.2	598.9	10.3	1.5	95
2010	8,554	831	201	-240	9,018	322	7,620	59.5	163.0	580.4	9.9	1.5	97
2011	8,566	997	171	-217	9,018	373	7,390	57.8	158.0	562.5	9.6	1.4	96
2012	8,692	848	132	358	8,667	374	7,173	56.3	154.1	548.7	9.4	1.4	96
2013	8,718	833	100	266	8,697	383	7,243	56.9	155.9	555.0	9.5	1.4	96
[Wheat]													
FY2000	688	5,688	0	65	6,311	383	4,133	32.6	89.2	328.3	9.8	1.9	11
2005	875	5,292	0	-46	6,213	357	4,054	31.7	86.9	319.9	9.6	1.8	14
2010	571	5,473	0	-340	6,384	324	4,185	32.7	89.5	329.5	9.8	1.9	9
2011	746	6,480	0	525	6,701	322	4,189	32.8	89.6	329.6	9.9	1.9	11
2012	858	6,578	0	269	7,167	322	4,201	32.9	90.3	332.2	9.9	1.9	12
2013	812	5,737	0	-443	6,992	312	4,164	32.7	89.6	329.8	9.9	1.9	12
[Barley]													
FY2000	192	2,438	0	24	2,606	1,143	38	0.3	0.8	2.8	0.1	0.0	7
2005	171	2,030	0	-64	2,265	976	26	0.2	0.6	1.9	0.0	0.0	8
2010	149	1,902	0	-36	2,087	930	22	0.2	0.5	1.6	0.0	0.0	7
2011	158	1,970	0	-14	2,142	910	33	0.3	0.7	2.4	0.0	0.0	7
2012	160	1,895	0	0	2,055	924	26	0.2	0.6	1.9	0.0	0.0	8
2013	168	1,880	0	-15	2,063	925	27	0.2	0.6	2.0	0.0	0.0	8
[Miscellaneous cereals]													
FY2000	30	18,634	0	328	18,336	3,936	130	1.0	2.8	10.3	0.3	0.1	0
2005	34	18,642	0	749	17,927	3,805	157	1.2	3.3	12.3	0.3	0.2	0
2010	31	17,831	0	598	17,264	3,558	132	1.0	2.8	10.4	0.3	0.1	0
2011	33	16,972	0	97	16,908	3,621	147	1.2	3.1	11.5	0.3	0.1	0
2012	46	16,597	0	331	16,312	3,453	147	1.2	3.2	11.6	0.3	0.1	0
2013	34	16,429	0	245	16,218	3,405	156	1.2	3.4	12.3	0.3	0.1	0
[Sweet potatoes]													
FY2000	1,073	11	0	0	1,084	283	620	4.9	13.4	17.7	0.2	0.0	99
2005	1,053	85	1	0	1,137	392	626	4.9	13.4	17.7	0.2	0.0	93
2010	864	65	2	0	927	348	487	3.8	10.4	13.8	0.1	0.0	93
2011	886	71	1	0	956	342	530	4.1	11.3	15.0	0.1	0.0	93
2012	876	72	2	0	946	344	523	4.1	11.2	14.8	0.1	0.0	93
2013	942	78	3	0	1,017	395	538	4.2	11.6	15.3	0.1	0.0	93
[Irish potatoes]													
FY2000	2,898	820	3	0	3,715	1,023	2,059	16.2	44.4	33.8	0.7	0.0	78
2005	2,752	807	1	0	3,558	1,058	1,895	14.8	40.6	30.9	0.7	0.0	77
2010	2,290	959	2	0	3,247	745	1,889	14.8	40.4	30.7	0.6	0.0	71
2011	2,387	1,009	2	0	3,394	787	2,029	15.9	43.4	33.0	0.7	0.0	70
2012	2,500	1,028	2	0	3,526	867	2,084	16.3	44.8	34.0	0.7	0.0	71
2013	2,415	970	3	0	3,382	813	1,992	15.6	42.9	32.6	0.7	0.0	71
[Pulses] 2)													
FY2000	366	5,165	0	106	5,425	3,967	1,148	9.0	24.8	105.0	7.5	4.9	7
2005	352	4,482	0	44	4,790	3,313	1,186	9.3	25.4	107.6	7.8	5.0	7
2010	317	3,748	0	30	4,035	2,696	1,082	8.4	23.1	98.4	7.1	4.7	8
2011	310	3,134	0	-137	3,581	2,290	1,058	8.3	22.6	96.2	7.0	4.6	9
2012	340	3,015	0	-64	3,419	2,154	1,036	8.1	22.3	94.3	6.8	4.4	10
2013	300	3,038	0	-46	3,384	2,120	1,040	8.2	22.4	94.7	6.9	4.4	9
[Vegetables] 3)													
FY2000	13,704	3,124	2	0	16,826	0	12,998	102.4	280.6	82.9	3.4	0.6	81
2005	12,492	3,367	10	0	15,849	0	12,302	96.3	263.8	77.6	3.3	0.5	79
2010	11,730	2,783	5	0	14,508	0	11,286	88.1	241.5	70.4	3.0	0.5	81
2011	11,821	3,094	5	0	14,910	0	11,613	90.9	248.3	72.3	3.0	0.5	79
2012	12,012	3,302	4	0	15,310	0	11,921	93.5	256.1	74.4	3.1	0.5	78
2013	11,946	3,137	8	0	15,075	0	11,751	92.3	252.9	73.2	3.1	0.5	79
[Fruits] 4)													
FY2000	3,847	4,843	68	-69	8,691	25	5,271	41.5	113.8	66.0	0.9	0.7	44
2005	3,703	5,437	64	40	9,036	17	5,503	43.1	118.0	70.2	0.9	1.0	41
2010	2,960	4,756	42	-45	7,719	14	4,682	36.6	100.2	62.6	0.8	1.0	38
2011	2,954	4,960	34	43	7,837	13	4,743	37.1	101.4	62.9	0.8	1.0	38
2012	3,062	5,007	26	27	8,016	17	4,878	38.3	104.8	66.0	0.9	1.1	38
2013	3,010	4,711	38	22	7,661	18	4,674	36.7	100.6	63.6	0.9	1.1	39
[Meat]													
FY2000	2,982	2,755	3	51	5,683	0	3,651	28.8	78.8	171.1	14.4	11.7	52
2005	3,045	2,703	2	97	5,649	0	3,636	28.5	78.0	166.7	14.3	11.3	54
2010	3,215	2,588	13	21	5,796	0	3,722	29.1	79.6	169.8	14.6	11.5	56
2011	3,168	2,735	6	41	5,856	0	3,779	29.6	80.8	172.5	14.8	11.7	54
2012	3,273	2,636	9	-24	5,924	0	3,826	30.0	82.2	174.5	15.1	11.8	55
2013	3,283	2,635	12	-16	5,922	0	3,826	30.1	82.3	174.9	15.1	11.8	55
< Beef >													
FY2000	521	1,055	0	22	1,554	0	959	7.6	20.7	57.3	3.5	4.5	34
2005	497	654	0	0	1,151	0	711	5.6	15.2	42.8	2.6	3.4	43
2010	512	731	1	24	1,218	0	752	5.9	16.1	45.4	2.7	3.6	42
2011	505	737	1	-9	1,250	0	772	6.0	16.5	46.5	2.8	3.7	40
2012	514	722	1	8	1,227	0	757	5.9	16.3	45.8	2.7	3.6	42
2013	506	765	1	31	1,239	0	765	6.0	16.5	46.4	2.8	3.7	41
< Pork >													
FY2000	1,256	952	0	20	2,188	0	1,351	10.6	29.2	66.6	5.3	4.7	57
2005	1,242	1,298	0	46	2,494	0	1,540	12.1	33.0	75.4	6.0	5.3	50
2010	1,277	1,143	1	3	2,416	0	1,492	11.7	31.9	72.9	5.8	5.1	53
2011	1,277	1,198	1	13	2,461	0	1,520	11.9	32.5	74.2	5.9	5.2	52
2012	1,295	1,141	1	-12	2,447	0	1,511	11.8	32.5	74.1	5.9	5.2	53
2013	1,310	1,113	2	-18	2,439	0	1,506	11.8	32.4	74.0	5.9	5.2	54

1.07 Supply and demand of food

	Domestic production (Thousand t)	Foreign trade		Changes in stock 1)	Supplies for domestic consumption (Thousand t)			Net food supply per capita					Self-sufficiency ratio (%)
		Imports (Thousand t)	Exports (Thousand t)		For process (Thousand t)	Net food (Thousand t)	Quantity Per year (kg)	Per day					
								Quantity (g)	Calories (kcal)	Protein (g)	Lipid (g)		
<Chicken>													
FY2000	1,195	686	3	13	1,865	0	1,298	10.2	28.0	45.6	5.4	2.4	64
2005	1,293	679	2	51	1,919	0	1,336	10.5	28.6	46.6	5.5	2.5	67
2010	1,417	674	11	-7	2,087	0	1,452	11.3	31.1	50.5	6.0	2.7	68
2011	1,378	763	4	38	2,099	0	1,460	11.4	31.2	50.8	6.0	2.7	66
2012	1,457	736	7	-18	2,204	0	1,534	12.0	33.0	53.6	6.4	2.9	66
2013	1,459	717	9	-28	2,195	0	1,527	12.0	32.9	53.5	6.3	2.9	66
[Hen eggs]													
FY2000	2,535	121	0	0	2,656	0	2,154	17.0	46.5	70.2	5.7	4.8	95
2005	2,469	151	1	0	2,619	0	2,120	16.6	45.5	68.6	5.6	4.7	94
2010	2,506	114	1	0	2,619	0	2,119	16.5	45.3	68.5	5.6	4.7	96
2011	2,495	138	0	0	2,633	0	2,131	16.7	45.6	68.8	5.6	4.7	95
2012	2,502	123	1	0	2,624	0	2,124	16.7	45.6	68.9	5.6	4.7	95
2013	2,522	124	1	0	2,645	0	2,141	16.8	46.1	69.6	5.7	4.7	95
[Cow milk and milk products]													
FY2000	8,414	3,952	13	44	12,309	0	11,960	94.2	258.2	165.2	8.3	9.0	68
2005	8,293	3,836	8	-23	12,144	0	11,728	91.8	251.5	160.9	8.0	8.8	68
2010	7,631	3,528	24	-231	11,366	0	11,064	86.4	236.7	151.5	7.6	8.3	67
2011	7,534	4,025	8	-84	11,635	0	11,324	88.6	242.1	154.9	7.7	8.5	65
2012	7,608	4,194	9	72	11,721	0	11,412	89.5	245.2	156.9	7.8	8.6	65
2013	7,448	4,058	15	-144	11,635	0	11,328	89.0	243.8	156.0	7.8	8.5	64
[Fishes and shellfishes] 4)													
FY2000	5,736	5,883	264	543	10,812	0	4,717	37.2	101.8	135.8	19.4	5.5	53
2005	5,152	5,782	647	86	10,201	0	4,426	34.6	94.9	137.0	18.3	6.2	51
2010	2,782	4,841	706	216	8,701	0	3,768	29.4	80.6	110.3	15.9	4.5	55
2011	4,328	4,482	530	32	8,248	0	3,644	28.5	77.9	107.3	15.4	4.4	52
2012	4,325	4,586	540	74	8,297	0	3,680	28.9	79.1	105.6	15.7	4.1	52
2013	4,286	4,081	680	-162	7,849	0	3,443	27.0	74.1	97.3	14.6	3.7	55
[Seaweeds] 4) 5)													
FY2000	130	78	2	0	206	30	176	1.4	3.8	6.1	1.1	0.1	63
2005	123	70	3	0	190	32	158	1.2	3.4	5.4	1.0	0.1	65
2010	106	47	2	0	151	25	126	1.0	2.7	4.1	0.7	0.1	70
2011	88	55	2	0	141	23	118	0.9	2.5	3.7	0.6	0.1	62
2012	108	51	1	0	158	24	134	1.1	2.9	4.3	0.7	0.1	68
2013	101	48	2	0	147	24	123	1.0	2.6	3.9	0.7	0.1	69
[Sugar] 6)													
FY2000	2,413	500	3	3	2,907	142	2,565	20.2	55.4	212.3	0.0	0.0	29
2005	2,315	567	2	28	2,852	116	2,548	19.9	54.6	209.5	0.0	0.0	34
2010	2,152	538	7	-26	2,709	144	2,425	18.9	51.9	199.0	0.0	0.0	26
2011	2,147	581	2	43	2,683	131	2,412	18.8	51.6	197.8	0.0	0.0	26
2012	2,093	571	1	2	2,661	124	2,398	18.8	51.5	197.6	0.0	0.0	28
2013	2,120	573	1	-3	2,695	100	2,418	19.0	52.0	199.6	0.0	0.0	29
[Fats and oils] 4)													
FY2000	2,200	725	18	11	2,896	269	1,922	15.1	41.5	382.9	0.0	41.5	14
2005	2,037	964	19	-13	2,995	351	1,862	14.6	39.9	368.3	0.0	39.9	13
2010	1,980	929	14	-25	2,920	417	1,726	13.5	36.9	340.5	0.0	36.9	13
2011	1,946	967	12	-4	2,905	393	1,731	13.5	37.0	341.3	0.0	37.0	13
2012	1,950	985	13	6	2,916	394	1,732	13.6	37.2	343.2	0.0	37.2	13
2013	1,946	966	14	-55	2,953	365	1,734	13.6	37.3	344.2	0.0	37.3	13
<Vegetable oils and fats>													
FY2000	1,862	579	17	10	2,414	165	1,738	13.7	37.5	345.5	0.0	37.5	3
2005	1,715	838	17	-13	2,549	224	1,720	13.5	36.9	339.7	0.0	36.9	2
2010	1,657	846	12	-22	2,513	280	1,623	12.7	34.7	319.8	0.0	34.7	2
2011	1,635	881	9	8	2,499	264	1,625	12.7	34.7	320.0	0.0	34.7	3
2012	1,640	886	11	7	2,508	263	1,626	12.8	34.9	321.8	0.0	34.9	3
2013	1,622	903	11	-35	2,549	242	1,625	12.8	35.0	322.1	0.0	35.0	3
<Animal oils and fats>													
FY2000	338	146	1	1	482	104	184	1.4	4.0	37.4	0.0	4.0	70
2005	322	126	2	0	446	127	142	1.1	3.0	28.6	0.0	3.0	72
2010	323	83	2	-3	407	137	103	0.8	2.2	20.7	0.0	2.2	79
2011	311	86	3	-12	406	129	106	0.8	2.3	21.3	0.0	2.3	77
2012	310	99	2	-1	408	131	106	0.8	2.3	21.4	0.0	2.3	76
2013	324	63	3	-20	404	123	109	0.9	2.3	22.1	0.0	2.3	80
[Soy sauce]													
FY2000	1,061	0	11	1	1,049	0	1,046	8.2	22.6	16.0	1.7	0.0	-
2005	939	1	18	-1	923	0	920	7.2	19.7	14.0	1.5	0.0	-
2010	845	1	18	-1	829	0	827	6.5	17.7	12.6	1.4	0.0	-
2011	821	1	19	-1	804	0	802	6.3	17.1	12.2	1.3	0.0	-
2012	802	2	17	-1	788	0	786	6.2	16.9	12.0	1.3	0.0	-
2013	808	2	20	0	790	0	788	6.2	17.0	12.0	1.3	0.0	-

Notes:

1. Differences in stocks between the beginning and the end of the fiscal year
2. For soy beans, calendar year is applied.
3. For imports and exports, calendar year is applied.
4. Calendar year
5. Seaweeds are indicated in dry weight
6. Total of refined sugar, brown sugar and un-centrifugal sugar.

Source: "JAPAN STATISTICAL YEARBOOK 2016," Statistic Bureau, Ministry of Internal Affairs and Communications.

1.08 Supply and demand of iron and steel products

(Unit : 1,000 t)

	Pig iron						
	Production			Consumption		Sales	Stock
	For steel-making	Foundry	1) 2)	LD converter			
2010	82,283	81,954	329	78,582	78,486	3,617	711
2011	81,028	80,715	313	76,867	76,757	3,348	1,068
2012	81,405	81,152	254	77,901	77,805	3,391	820
2013	83,849	83,567	282	80,113	80,026	3,552	571
2014	83,872	83,555	318	80,127	79,992	3,117	760

	Ferroalloy					Crude steel				
	Production	Receipt	Consumption	Sales	Stock	Production		Consumption	Stock	
		1) 3)	1) 3)		3)	Ordinary steel	Special steel	4)		
2010	893	204	296	912	142	109,599	84,929	24,670	109,972	84
2011	834	186	302	827	157	107,601	83,217	24,385	107,982	90
2012	908	214	300	933	164	107,232	83,241	23,992	107,597	78
2013	938	186	314	933	165	110,595	86,102	24,493	110,866	99
2014	923	172	242	951	156	110,666	85,403	25,263	110,870	95

	Semi-finished steel			
	Production	Consumption	Sales	Stock
2010	106,960	102,943	8,865	3,241
2011	104,594	99,975	8,258	3,916
2012	104,571	100,317	7,750	3,614
2013	107,991	102,525	8,536	3,828
2014	107,856	102,719	8,679	3,739

Notes:

- 1) By consumers only
- 2) In 2013 or before, only for steel-making
- 3) In 2013 or before, figures include the quantity that was received as material and consumed without manufacturing the item.
- 4) In 2013 or before, figures include the entities that received the item as material and consumed it without manufacturing.

Source: "JAPAN STATISTICAL YEARBOOK 2016," Statistic Bureau, Ministry of Internal Affairs and Communications.

1.09 Gross domestic expenditure (2005 Standard National Accounts: Chain-linked method)

FY	Real (Chained (2005) one billion yen)										Nominal GDP (one billion yen)	GDP deflator (2005 = 100)
	Gross Domestic Product (GDP)	Private consumption	Government consumption	Residential investment	Non- residential investment	Public investment	Change in inventory	Exports of goods & services	Imports of goods & services	Growth rates (%)		
1965	107,516		66,318 ¹	21,594 ¹	7,182 ¹	8,842 ¹	8,589 ¹	3,550 ¹	3,796 ¹	5,860	34,180	31.8
1970	177,077	6.6 ¹	102,868 ¹	26,750 ¹	14,226 ¹	24,662 ¹	15,221 ¹	4,521 ¹	8,373 ¹	13,050	76,362	43.1
1975	224,912	5.1 ¹	133,202 ¹	34,849 ¹	18,727 ¹	24,963 ¹	20,403 ¹	3,559 ¹	12,872 ¹	17,170	156,018	69.4
1980	272,021	1.1 ¹	161,026 ¹	42,607 ¹	18,199 ¹	32,216 ¹	25,147 ¹	1,377 ¹	20,251 ¹	21,069	251,046	92.3
1985	336,949	6.2 ¹	192,972 ¹	51,854 ¹	17,072 ¹	43,481 ¹	24,649 ¹	2,148 ¹	28,706 ¹	21,929	333,876	99.1
1990	430,139	6.0 ¹	242,301 ¹	61,911 ¹	25,565 ¹	73,101 ¹	30,251 ¹	1,659 ¹	34,992 ¹	38,174	455,965	106.0
1991	440,923	2.5 ¹	248,008 ¹	64,106 ¹	23,205 ¹	73,023 ¹	31,666 ¹	2,563 ¹	36,857 ¹	37,690	479,803	108.8
1992	443,832	0.7 ¹	251,363 ¹	65,891 ¹	22,512 ¹	68,397 ¹	36,898 ¹	11 ¹	38,305 ¹	36,907	490,110	110.4
1993	443,005	-0.2 ¹	255,394 ¹	68,144 ¹	23,331 ¹	59,566 ¹	39,878 ¹	67 ¹	38,175 ¹	37,433	491,019	110.8
1994	447,167	0.9 ¹	259,854 ¹	70,602 ¹	25,023 ¹	58,500 ¹	39,088 ¹	-912 ¹	40,053 ¹	40,700	495,612	110.8
1995	459,058	2.7 ¹	265,891 ¹	73,617 ¹	23,609 ¹	60,326 ¹	41,704 ¹	1,291 ¹	41,807 ¹	46,316	504,594	109.9
1996	471,311	2.7 ¹	272,379 ¹	75,224 ¹	26,746 ¹	63,376 ¹	40,741 ¹	1,668 ¹	44,905 ¹	51,683	515,944	109.5
1997	472,006	0.1 ¹	269,627 ¹	75,678 ¹	21,693 ¹	66,873 ¹	37,851 ¹	3,283 ¹	48,831 ¹	50,888	521,295	110.4
1998	464,970	-1.5 ¹	270,990 ¹	77,206 ¹	19,401 ¹	61,679 ¹	38,589 ¹	-285 ¹	46,900 ¹	47,488	510,919	109.9
1999	467,481	0.5 ¹	274,219 ¹	80,120 ¹	20,090 ¹	61,997 ¹	37,344 ¹	-3,350 ¹	49,645 ¹	50,675	506,599	108.4
2000	476,723	2.0 ¹	275,056 ¹	83,960 ¹	20,080 ¹	64,986 ¹	35,071 ¹	341 ¹	54,246 ¹	56,333	510,835	107.2
2001	474,685	-0.4 ¹	279,345 ¹	87,239 ¹	18,633 ¹	62,906 ¹	32,972 ¹	-1,154 ¹	50,032 ¹	54,361	501,711	105.7
2002	479,871	1.1 ¹	282,579 ¹	89,069 ¹	18,241 ¹	61,551 ¹	31,291 ¹	-1,456 ¹	56,008 ¹	56,692	498,009	103.8
2003	490,756	2.3 ¹	284,902 ¹	90,979 ¹	18,194 ¹	64,678 ¹	29,020 ¹	364 ¹	61,643 ¹	58,497	501,889	102.3
2004	497,913	1.5 ¹	287,100 ¹	92,030 ¹	18,470 ¹	67,609 ¹	25,857 ¹	1,503 ¹	68,497 ¹	63,145	502,761	101.0
2005	507,158	1.9 ¹	292,579 ¹	92,363 ¹	18,345 ¹	70,599 ¹	24,113 ¹	807 ¹	74,323 ¹	65,974	505,349	99.6
2006	516,038	1.8 ¹	295,036 ¹	92,696 ¹	18,357 ¹	74,781 ¹	22,358 ¹	531 ¹	80,789 ¹	68,460	509,106	98.7
2007	525,470	1.8 ¹	297,443 ¹	93,826 ¹	15,695 ¹	77,015 ¹	21,262 ¹	1,784 ¹	88,387 ¹	70,075	513,023	97.6
2008	505,795	-3.7 ¹	291,446 ¹	93,438 ¹	15,520 ¹	71,076 ¹	19,847 ¹	1,848 ¹	79,005 ¹	66,752	489,520	96.8
2009	495,559	-2.0 ¹	295,033 ¹	95,951 ¹	12,268 ¹	62,516 ¹	22,124 ¹	-5,070 ¹	71,413 ¹	59,629	473,996	95.6
2010	512,720	3.5 ¹	299,721 ¹	97,886 ¹	12,534 ¹	64,876 ¹	20,715 ¹	-136 ¹	83,930 ¹	66,764	480,528	93.7
2011	514,695	0.4 ¹	303,974 ¹	99,068 ¹	12,936 ¹	68,005 ¹	20,054 ¹	-1,285 ¹	82,603 ¹	70,340	474,171	92.1
2012	519,540	0.9 ¹	309,166 ¹	100,579 ¹	13,678 ¹	68,647 ¹	20,263 ¹	-1,071 ¹	81,430 ¹	72,861	474,404	91.3
2013	529,810	2.0 ¹	316,182 ¹	102,194 ¹	14,886 ¹	70,679 ¹	22,354 ¹	-2,646 ¹	85,024 ¹	77,746	482,430	91.1
2014	524,664	-1.0 ¹	307,053 ¹	102,312 ¹	13,141 ¹	70,717 ¹	21,766 ¹	308 ¹	91,689 ¹	80,345	489,623	93.3

Notes:

- Total of the breakdown and grand total are not consistent due to the difference.
- Figures in 1979 or before were estimated by EDMC.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," Energy Data and Modelling Center (EDMC), Institute of Energy Economics, Japan (IEEJ).

1.10 Population, Labor and Prices

	Population as of October 1st (thousand)	Number of households at fiscal year – end (thousand households)	Labor force (thousand)	Totally unemployed	Rate of unemployment (%)	Average wage per worker (thousand yen)	Corporate Goods Price Indices (2010 = 100)			Consumer Price Index (2010 = 100)		
							Growth rates (%)	Export	Import		Growth rates (%)	
FY 1965	98,275	25,520	48,163	623	1.29	518	50.7	1.3	125.0	47.9	N.A.	N.A.
1970	103,720	30,027	51,709	612	1.18	1,004	56.3	2.1	134.2	50.9	33.2	N.A.
1975	111,940	33,911	53,442	1,044	1.97	2,317	86.9	2.3	180.1	108.0	57.2	10.4
1980	117,060	36,347	56,708	1,183	2.08	3,320	114.4	12.5	190.7	161.6	78.4	7.5
1985	121,049	38,988	59,748	1,582	2.64	4,034	112.5	-1.7	181.9	146.1	88.8	2.0
1990	123,611	41,797	64,144	1,342	2.10	4,783	108.2	1.2	156.7	102.5	95.4	3.1
1991	124,101	42,458	65,322	1,371	2.09	4,964	108.7	0.4	149.1	91.5	98.0	2.7
1992	124,567	43,077	65,833	1,461	2.22	4,978	107.5	-1.1	143.5	87.7	99.6	1.6
1993	124,938	43,666	66,291	1,747	2.63	5,012	105.7	-1.7	132.0	76.8	100.9	1.3
1994	125,265	44,236	66,494	1,943	2.93	5,072	104.2	-1.4	128.4	75.6	101.2	0.3
1995	125,570	44,831	66,720	2,156	3.23	5,134	103.1	-1.1	129.0	75.6	101.0	-0.2
1996	125,859	45,498	67,368	2,253	3.34	5,151	101.6	-1.5	133.7	84.8	101.4	0.4
1997	126,157	46,157	67,938	2,365	3.49	5,175	102.6	1.0	135.6	86.9	103.5	2.1
1998	126,472	46,812	67,891	2,944	4.34	5,085	100.4	-2.1	134.4	81.2	103.7	0.2
1999	126,667	47,420	67,750	3,200	4.73	5,027	99.6	-0.8	121.9	77.4	103.2	-0.5
2000	126,926	48,015	67,723	3,193	4.71	5,025	99.1	-0.6	118.7	80.5	102.6	-0.6
2001	127,316	48,638	67,370	3,479	5.18	4,949	96.6	-2.5	121.9	81.3	101.5	-1.1
2002	127,486	49,261	66,773	3,598	5.39	4,841	95.0	-1.7	118.0	80.6	100.9	-0.6
2003	127,694	49,838	66,618	3,418	5.13	4,738	94.5	-0.6	114.0	79.2	100.7	-0.2
2004	127,787	50,382	66,393	3,077	4.64	4,709	96.0	1.7	114.0	84.9	100.6	-0.1
2005	127,768	51,102	66,553	2,895	4.35	4,711	97.7	1.8	116.7	98.3	100.4	-0.2
2006	127,901	51,713	66,693	2,715	4.08	4,674	99.7	2.0	120.4	108.8	100.6	0.2
2007	128,033	52,325	66,859	2,548	3.83	4,629	102.0	2.3	120.2	117.5	101.0	0.4
2008	128,084	52,878	66,740	2,751	4.14	4,585	105.2	3.2	111.2	117.9	102.1	1.1
2009	128,032	53,363	66,430	3,428	5.18	4,427	99.8	-5.1	102.7	95.7	100.4	-1.7
2010	128,057	53,783	66,300	3,284	4.98	4,435	100.2	0.4	99.4	101.2	99.9	-0.5
2011	127,799	54,171	65,776	2,978	4.53	4,460	101.6	1.3	97.1	108.3	99.8	-0.1
2012	127,515	55,578	65,554	2,800	4.28	4,468	100.5	-1.0	98.0	110.1	99.5	-0.3
2013	127,298	55,952	65,778	2,556	3.89	4,463	102.4	1.8	108.1	125.0	100.4	0.9
2014	127,083	56,412	65,929	2,333	3.54	4,513	105.3	2.8	111.2	125.3	103.4	3.0

Notes:

- The number of households in FY2012 and onward includes foreigners who the Basic Resident Registration Act is applied to. Since FY2013, data are ones as of the beginning of each year due to the alteration of the reference date.
- For the figures of labor force and the totally unemployed, those in Okinawa Prefecture were excluded in FY1972 and before.
- For average wage per worker in FY 1989 or before, data were taken from EDMC estimations.
- The figures for Labor force and the totally unemployed in FY2010 and FY2011 include complement estimates for Iwate, Miyagi and Fukushima prefectures that were affected by The Great East Japan Earthquake.

Source: 2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN, the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.11 Energy consumption by manufacturing industry (by industry type)

(Unit : 1010 kcal)

FY	Manufacturing industry											
		Raw materials						Non-raw materials				
		Iron & Steel	Chemicals	Ceramics and cement	Paper and pulp			Foods and tobacco	Textile	Non-ferrous metals	Machinery	Others
1965	62,737	48,636	19,210	16,484	7,737	5,205	14,103	2,974	2,767	1,860	2,383	4,119
1970	125,837	100,058	43,082	36,854	12,073	8,049	25,779	3,960	5,454	3,819	4,593	7,953
1975	138,083	105,899	49,698	35,346	12,192	8,663	32,185	4,640	6,494	3,889	3,818	13,344
1980	132,978	99,240	44,766	32,645	13,357	8,472	33,738	4,561	4,891	4,411	4,653	15,222
1985	125,058	90,704	39,431	32,335	10,947	7,991	34,355	4,212	4,105	3,137	7,244	15,657
1990	142,762	102,992	42,118	39,048	11,946	9,880	39,770	4,878	3,448	3,965	9,571	17,909
1991	144,298	104,122	40,937	41,380	12,304	9,501	40,176	4,910	3,287	4,148	9,522	18,309
1992	141,131	101,817	39,216	40,801	12,278	9,522	39,312	5,036	3,313	3,917	9,388	17,658
1993	141,315	101,573	38,948	40,789	12,300	9,536	39,742	4,985	3,328	3,967	9,274	18,188
1994	147,549	107,402	40,116	44,839	12,586	9,861	40,146	5,100	3,332	3,984	9,516	18,214
1995	150,864	109,687	40,441	46,172	12,645	10,429	41,179	5,341	3,383	3,772	9,666	19,017
1996	153,422	110,874	41,305	46,778	12,578	10,213	42,548	5,411	3,176	3,595	9,892	20,474
1997	155,591	113,578	42,723	48,041	12,395	10,419	42,013	5,424	3,061	3,551	10,247	19,730
1998	152,318	109,816	40,753	47,510	11,942	9,611	42,501	5,519	3,015	3,393	9,988	20,586
1999	160,005	114,902	41,698	51,473	11,641	10,090	45,101	5,536	3,150	3,519	10,164	22,732
2000	162,552	117,218	43,220	52,283	11,143	10,572	45,334	5,562	2,973	3,462	10,426	22,911
2001	151,599	107,670	39,469	48,805	10,618	8,778	43,929	5,382	2,736	3,190	8,961	23,660
2002	154,100	109,096	40,327	50,072	9,857	8,840	45,004	5,470	2,614	3,177	9,203	24,540
2003	155,756	110,287	40,477	51,415	9,629	8,766	45,469	5,494	2,561	3,095	9,330	24,989
2004	155,949	110,722	40,255	52,185	9,748	8,534	45,227	5,519	2,416	3,110	9,729	24,453
2005	155,819	110,206	40,324	51,719	9,607	8,556	45,613	5,581	2,474	3,222	10,282	24,054
2006	157,648	111,355	40,841	52,548	9,717	8,249	46,293	5,699	2,399	3,281	11,233	23,681
2007	157,375	111,863	41,869	52,467	9,622	7,905	45,512	5,731	1,998	3,439	11,319	23,025
2008	142,695	99,825	37,028	46,233	9,191	7,373	42,870	5,576	1,945	3,256	10,090	22,003
2009	137,643	97,268	35,131	47,468	8,505	6,164	40,375	5,491	1,984	2,952	9,324	20,624
2010	146,261	103,777	39,716	48,719	8,738	6,604	42,484	5,793	2,214	3,033	10,132	21,312
2011	140,619	98,284	39,353	44,729	8,333	5,869	42,355	5,756	2,255	3,043	9,740	21,541
2012	137,288	96,121	38,727	43,823	8,129	5,442	41,167	5,732	2,241	2,912	9,450	20,832
2013	139,865	99,474	40,454	45,081	8,447	5,492	40,391	5,529	1,796	2,883	9,249	20,934
2014	136,680	96,834	39,543	43,710	8,046	5,535	39,846	5,430	1,772	2,917	8,995	20,732

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.12 Indices of production in Manufacturing (Value-added weights)

(Year 2010 = 100)

	Manufacturing (9978.9)													Petroleum & coal products (175.8)	
	Raw-materials (2221.7)						Non-raw materials (7581.4)								
	Iron and steel (391.1)	Chemicals (1311.2)	Ceramics and cement (315.8)	Paper and pulp (203.6)			Foods and tobacco (613.9)	Textile (149.6)	Non-ferrous metals (232.5)	Machinery (5553.3)	Fabricated metals (418.1)	Machinery industry (5135.2)	Others (1032.1)		
FY 1965	23.1	25.5	33.6	15.1	62.3	28.9	21.6	59.0	382.3	25.2	10.6	43.0	8.8	57.0	36.6
1970	48.2	53.3	76.8	33.3	111.6	50.6	45.5	79.3	499.6	51.4	28.3	102.8	23.6	99.8	84.1
1975	52.7	57.2	82.4	37.5	111.5	52.9	49.2	87.2	481.6	57.9	31.2	107.7	26.9	100.3	102.4
1980	71.3	73.9	99.7	50.4	142.7	66.2	69.2	98.2	492.0	75.0	50.7	138.7	45.2	117.6	101.8
1985	85.0	81.5	102.5	62.3	139.0	76.8	85.4	101.3	479.4	77.6	69.8	137.5	65.0	119.7	86.5
1990	107.4	102.6	115.0	84.1	165.1	102.1	108.5	107.9	435.6	101.7	95.2	170.1	89.5	143.9	93.7
1991	106.6	101.6	111.0	84.6	160.8	103.3	107.8	108.3	428.8	102.6	94.8	169.4	89.1	140.6	97.3
1992	100.2	98.2	102.8	84.2	151.4	100.5	99.9	109.1	398.7	100.2	86.2	159.4	81.0	134.9	99.7
1993	96.6	96.4	98.2	84.2	146.5	99.0	96.0	109.4	358.5	99.3	82.7	155.8	76.8	130.2	103.1
1994	99.6	101.1	102.2	89.6	150.2	102.7	98.5	110.2	345.2	102.7	86.4	160.1	80.4	128.3	106.6
1995	101.7	103.0	101.9	92.9	148.5	106.1	100.8	109.3	319.0	104.0	90.4	159.9	84.6	126.6	107.3
1996	105.1	104.5	102.3	94.7	151.0	107.3	104.9	110.4	311.8	109.0	95.3	162.0	89.5	130.0	107.6
1997	106.3	105.1	103.8	95.8	147.2	109.8	106.3	108.6	298.5	109.4	97.9	155.2	92.7	128.3	110.1
1998	99.0	97.9	90.9	91.8	131.0	105.9	99.4	106.9	264.6	100.0	91.1	144.2	86.2	120.7	109.2
1999	101.6	100.7	94.2	95.7	129.1	109.1	101.9	107.9	251.2	103.8	94.7	144.7	90.0	119.6	109.4
2000	106.0	103.2	102.2	97.2	128.6	110.8	107.0	107.7	229.5	111.0	102.1	143.5	98.1	117.6	110.2
2001	96.3	98.8	96.2	94.6	118.9	106.8	95.3	106.3	206.9	106.6	88.7	130.7	84.7	108.3	110.0
2002	99.0	100.8	102.8	97.0	114.5	108.2	98.2	105.0	186.2	108.4	93.2	124.6	90.0	107.5	110.8
2003	102.0	102.8	106.4	99.5	113.6	107.9	101.5	105.9	170.7	111.3	97.8	121.1	95.4	107.2	109.5
2004	105.9	104.6	109.5	101.2	113.2	109.2	106.1	106.7	157.9	111.4	104.2	121.0	102.5	107.8	108.1
2005	107.6	103.6	108.2	99.6	113.9	110.3	108.6	104.3	145.6	113.5	108.0	119.5	106.8	108.4	110.9
2006	112.5	107.0	112.9	103.7	115.0	110.4	114.1	102.6	139.4	116.6	115.1	118.5	114.7	112.2	107.2
2007	115.6	107.8	115.4	103.7	114.4	111.3	117.9	104.7	131.1	118.0	120.0	116.9	120.3	112.7	108.5
2008	101.0	97.4	97.4	95.9	99.3	104.1	102.0	102.7	113.8	98.8	101.7	110.7	101.0	101.8	104.1
2009	91.3	94.3	85.6	97.3	90.1	97.9	90.3	100.8	95.4	92.8	87.9	98.6	87.0	95.6	99.5
2010	99.4	100.0	100.4	99.8	100.4	99.9	99.2	98.2	101.7	98.9	99.3	99.9	99.2	99.5	99.4
2011	98.8	97.8	97.5	98.3	95.8	97.8	99.1	97.3	102.8	97.5	99.4	98.8	99.5	98.4	93.9
2012	95.8	96.5	96.4	96.5	97.0	95.3	95.7	96.7	99.5	96.6	95.1	98.2	94.9	97.3	93.4
2013	99.0	98.9	99.0	98.3	101.5	98.9	99.0	98.9	99.0	97.3	99.1	100.1	99.0	99.3	95.2
2014	98.5	96.8	97.9	95.2	101.9	97.4	99.2	96.2	97.0	97.9	100.1	96.3	100.4	96.5	90.5

Notes:

- In parentheses is weight of industrial group when it assumes the industrial-production index to be 10000.
- Manufacturing includes "petroleum and coal products", and others include "Plastic product industry", respectively.
- "Chemical fiber" is included in "chemicals", not "textile."
- "Watches" are not included in "others" but "machinery."

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.13 Energy intensity of manufacturing (IIP basis)

(FY 1973 = 100)

	Manufacturing											
	Raw-materials						Non-raw materials					
		Iron & steel	Chemicals	Ceramics & cement	Paper and pulp		Foods and tobacco	Fiber	Non-ferrous metals	Machinery	Others	
FY 1965	107.8	105.5	103.2	108.1	117.9	113.1	112.6	93.0	60.5	112.7	168.2	69.7
1970	103.8	103.8	101.4	109.7	102.7	100.1	97.4	92.1	91.2	113.2	121.0	76.8
1973	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1975	104.3	102.4	109.0	93.5	103.8	102.9	112.5	98.1	112.7	102.5	91.1	128.2
1980	74.2	74.2	81.1	64.2	88.9	80.4	83.9	85.7	83.0	89.6	68.5	124.8
1985	58.5	61.5	69.5	51.4	74.8	65.4	69.2	76.7	71.5	61.7	77.3	126.1
1990	52.9	55.5	66.2	46.0	68.7	60.8	63.0	83.4	66.1	59.4	74.9	119.9
1991	53.9	56.6	66.7	48.4	72.7	57.8	64.1	83.6	64.0	61.6	74.9	125.5
1992	56.0	57.3	69.0	48.0	77.0	59.5	67.7	85.1	69.4	59.6	81.2	126.2
1993	58.2	58.2	71.7	48.0	79.8	60.5	71.2	84.0	77.6	60.9	83.6	134.7
1994	58.9	58.7	70.9	49.5	79.6	60.4	70.1	85.4	80.6	59.2	82.1	136.8
1995	59.0	58.9	71.7	49.2	80.9	61.8	70.3	90.1	88.6	55.3	79.7	144.8
1996	58.1	58.6	73.0	48.9	79.1	59.9	69.8	90.4	85.1	50.3	77.4	151.8
1997	58.2	59.7	74.4	49.7	80.0	59.7	68.0	92.1	85.7	49.5	78.1	148.2
1998	61.2	62.0	81.1	51.3	86.6	57.1	73.5	95.2	95.2	51.8	81.7	164.4
1999	62.6	63.1	80.0	53.3	85.6	58.1	76.1	94.6	104.8	51.7	80.0	183.3
2000	61.0	62.8	76.4	53.3	82.3	60.0	72.9	95.2	108.2	47.6	76.1	187.8
2001	62.7	60.2	74.1	51.1	84.8	51.7	79.3	93.4	110.5	45.6	75.3	210.5
2002	61.9	59.8	70.9	51.1	81.8	51.4	78.8	96.1	117.3	44.7	73.6	220.1
2003	60.8	59.3	68.8	51.1	80.5	51.1	77.1	95.7	125.4	42.4	71.1	224.6
2004	58.6	58.5	66.4	51.0	81.8	49.1	73.3	95.4	127.8	42.6	69.6	218.7
2005	57.6	58.8	67.3	51.4	80.1	48.7	72.2	98.6	141.9	43.3	70.9	213.9
2006	55.8	57.5	65.4	50.2	80.3	47.0	69.8	102.4	143.8	42.9	72.7	203.5
2007	54.2	57.3	65.6	50.1	79.9	44.6	66.4	101.0	127.3	44.5	70.3	196.9
2008	56.2	56.7	68.7	47.8	87.9	44.5	72.3	100.1	142.7	50.2	73.9	208.3
2009	59.8	57.0	74.2	48.2	89.7	39.6	76.3	99.7	162.1	48.5	79.1	206.6
2010	58.3	57.3	71.5	48.3	82.7	41.6	72.8	107.0	162.4	46.8	76.1	204.9
2011	56.4	55.5	72.9	45.0	82.6	37.7	72.4	106.8	158.3	47.6	73.0	209.4
2012	56.9	55.0	72.6	44.9	79.6	35.9	73.7	106.7	158.9	46.0	74.0	209.7
2013	56.3	55.5	72.5	45.7	78.6	37.4	70.6	103.2	150.8	44.8	68.3	207.8
2014	55.2	55.3	73.0	45.5	75.0	35.7	69.1	104.1	152.6	45.4	67.0	207.1

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.14 Residential energy consumption by use

	Energy consumption by use (1010 kcal)						Growth rates (%)					
	Space cooling	Space heating	Water heating	Cooking	Power, etc.	Total	Space cooling	Space heating	Water heating	Cooking	Power, etc.	Total
FY 1965	55	3,279	3,619	1,709	2,034	10,696	-	-	-	-	-	8.8
1970	163	7,004	4,868	2,466	3,828	18,329	24.8	15.9	5.4	0.3	15.3	10.6
1975	285	7,529	7,987	3,523	6,252	25,575	18.0	2.8	2.4	3.5	11.3	4.9
1980	223	8,234	10,280	3,550	7,833	30,120	-42.1	-8.0	-3.4	-7.1	0.8	-4.6
1985	643	10,547	12,402	3,713	9,578	36,883	25.4	12.7	-0.9	3.6	3.5	4.7
1990	950	10,439	14,677	3,806	12,508	42,380	50.8	-0.8	-0.2	-1.6	5.8	2.0
1991	748	10,546	14,948	3,752	13,333	43,327	-21.3	1.0	1.9	-1.4	6.6	2.2
1992	836	11,150	15,978	3,776	13,633	45,373	11.8	5.7	6.9	0.6	2.3	4.7
1993	523	12,012	17,033	3,794	13,947	47,310	-37.4	7.7	6.6	0.5	2.3	4.3
1994	1,475	12,157	15,276	3,967	14,491	47,366	181.9	1.2	-10.3	4.6	3.9	0.1
1995	1,199	13,509	16,466	4,047	15,352	50,573	-18.7	11.1	7.8	2.0	5.9	6.8
1996	969	12,661	16,929	3,878	16,092	50,529	-19.2	-6.3	2.8	-4.2	4.8	-0.1
1997	1,058	11,778	17,338	3,972	16,290	50,437	9.3	-7.0	2.4	2.4	1.2	-0.2
1998	1,231	12,572	14,825	4,107	16,740	49,474	16.3	6.7	-14.5	3.4	2.8	-1.9
1999	1,329	13,581	14,714	4,203	17,054	50,881	8.0	8.0	-0.7	2.4	1.9	2.8
2000	1,391	13,928	15,688	4,283	17,398	52,688	4.7	2.6	6.6	1.9	2.0	3.6
2001	1,237	12,721	15,979	4,081	17,594	51,611	-11.1	-8.7	1.9	-4.7	1.1	-2.0
2002	1,289	14,350	15,976	4,142	18,047	53,804	4.2	12.8	0.0	1.5	2.6	4.2
2003	957	12,670	16,266	4,231	17,911	52,035	-25.8	-11.7	1.8	2.1	-0.8	-3.3
2004	1,461	13,639	15,924	4,285	18,100	53,409	52.6	7.6	-2.1	1.3	1.1	2.6
2005	1,349	15,038	16,509	4,227	18,512	55,635	-7.6	10.3	3.7	-1.4	2.3	4.2
2006	1,206	12,805	16,677	4,280	18,703	53,672	-10.6	-14.8	1.0	1.3	1.0	-3.5
2007	1,405	13,586	16,275	4,249	18,891	54,407	16.5	6.1	-2.4	-0.7	1.0	1.4
2008	1,134	12,756	15,150	4,280	18,788	52,108	-19.3	-6.1	-6.9	0.7	-0.5	-4.2
2009	920	12,842	14,781	4,251	18,876	51,671	-18.9	0.7	-2.4	-0.7	0.5	-0.8
2010	1,582	14,563	15,150	4,275	19,094	54,664	71.8	13.4	2.5	0.6	1.2	5.8
2011	1,184	14,014	14,881	4,321	18,343	52,743	-25.1	-3.8	-1.8	1.1	-3.9	-3.5
2012	1,136	13,533	14,381	4,306	18,279	51,635	-4.1	-3.4	-3.4	-0.4	-0.3	-2.1
2013	1,233	12,779	13,711	4,342	18,203	50,268	8.5	-5.6	-4.7	0.8	-0.4	-2.6
2014	943	12,270	13,428	4,338	17,782	48,761	-23.5	-4.0	-2.1	-0.1	-2.3	-3.0

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.15 Residential energy consumption by energy

	Energy consumption by energy (1010kcal)							Growth rates						
	Coal, etc.	Kerosene	LPG	City gas	Electricity	Solar heat	Total	Coal, etc.	Kerosene	LPG	City gas	Electricity	Solar heat	Total
FY 1965	3,776	1,614	1,288	1,580	2,438	-	10,696	-1.1	19.8	13.8	16.4	12.0	-	8.8
1970	2,404	5,717	2,686	2,943	4,579	-	18,329	-13.2	22.8	4.5	12.7	15.5	-	10.6
1975	861	7,568	4,658	4,544	7,808	136	25,575	-38.6	3.5	9.3	4.7	10.6	-	4.9
1980	529	8,565	5,065	5,649	9,947	365	30,120	-10.5	-12.3	-10.0	3.7	0.2	71.4	-4.6
1985	357	10,959	5,719	6,743	12,263	842	36,883	-12.7	8.7	2.0	3.0	3.9	8.4	4.7
1990	222	10,925	6,526	7,764	15,819	1,124	42,380	-10.1	-2.7	-1.1	-0.4	7.8	13.3	2.0
1991	208	10,837	6,558	8,163	16,481	1,080	43,327	-6.3	-0.8	0.5	5.1	4.2	-3.9	2.2
1992	199	11,844	6,757	8,492	17,045	1,036	45,373	-4.3	9.3	3.0	4.0	3.4	-4.1	4.7
1993	192	12,797	6,808	8,987	17,515	1,011	47,310	-3.5	8.0	0.8	5.8	2.8	-2.4	4.3
1994	175	12,033	6,838	8,398	18,930	992	47,366	-8.9	-6.0	0.4	-6.6	8.1	-1.9	0.1
1995	157	13,311	7,386	9,035	19,714	970	50,573	-10.3	10.6	8.0	7.6	4.1	-2.2	6.8
1996	144	12,803	7,504	9,170	19,976	932	50,529	-8.3	-3.8	1.6	1.5	1.3	-3.9	-0.1
1997	128	12,771	7,271	9,058	20,277	932	50,437	-11.1	-0.2	-3.1	-1.2	1.5	0.0	-0.2
1998	120	12,528	6,005	9,031	20,965	825	49,474	-6.3	-1.9	-17.4	-0.3	3.4	-11.5	-1.9
1999	123	13,333	5,826	9,278	21,570	750	50,881	2.2	6.4	-3.0	2.7	2.9	-9.1	2.8
2000	107	13,897	6,307	9,491	22,100	786	52,688	-12.7	4.2	8.2	2.3	2.5	4.7	3.6
2001	101	12,926	6,454	9,355	22,049	726	51,611	-5.6	-7.0	2.3	-1.4	-0.2	-7.6	-2.0
2002	95	13,758	6,819	9,673	22,793	666	53,804	-5.9	6.4	5.7	3.4	3.4	-8.3	4.2
2003	90	12,501	6,685	9,706	22,435	618	52,035	-5.3	-9.1	-2.0	0.3	-1.6	-7.2	-3.3
2004	80	13,110	6,689	9,463	23,488	579	53,409	-11.1	4.9	0.1	-2.5	4.7	-6.3	2.6
2005	76	13,867	6,915	9,928	24,301	548	55,635	-5.0	5.8	3.4	4.9	3.5	-5.4	4.2
2006	74	12,339	6,948	9,765	24,026	520	53,672	-2.6	-11.0	0.5	-1.6	-1.1	-5.1	-3.5
2007	73	12,033	6,944	9,873	24,992	492	54,407	-1.4	-2.5	-0.1	1.1	4.0	-5.4	1.4
2008	72	11,029	6,303	9,646	24,590	468	52,108	-1.4	-8.3	-9.2	-2.3	-1.6	-4.9	-4.2
2009	66	10,904	6,070	9,629	24,574	428	51,671	-8.3	-1.1	-3.7	-0.2	-0.1	-8.5	-0.8
2010	68	11,895	6,273	9,789	26,244	395	54,664	3.0	9.1	3.3	1.7	6.8	-7.7	5.8
2011	66	11,486	6,069	9,791	24,970	361	52,743	-2.9	-3.4	-3.3	0.0	-4.9	-8.6	-3.5
2012	59	10,920	5,764	9,799	24,765	328	51,635	-10.6	-4.9	-5.0	0.1	-0.8	-9.1	-2.1
2013	60	10,206	5,511	9,554	24,640	297	50,268	1.7	-6.5	-4.4	-2.5	-0.5	-9.5	-2.6
2014	60	9,679	5,424	9,582	23,746	270	48,761	0.0	-5.2	-1.6	0.3	-3.6	-9.1	-3.0

Note:

"Coal, etc." is a total of coal, briquettes, firewood, charcoal and others.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.16 Residential energy consumption per household by use

	Consumption per household (thousand kcal / household)						Growth rates					
	Space cooling	Space heating	Water heating	Cooking	Power, etc.	Total	Space cooling	Space heating	Water heating	Cooking	Power, etc.	Total
FY 1965	22	1,330	1,468	693	825	4,338	-	-	-	-	-	-
1970	56	2,403	1,670	846	1,313	6,289	20.7	12.1	2.0	-2.9	11.6	7.0
1975	85	2,260	2,398	1,058	1,877	7,678	15.6	0.7	0.3	1.4	9.0	2.8
1980	62	2,298	2,869	991	2,186	8,406	-42.9	-9.2	-4.7	-8.3	-0.5	-5.9
1985	167	2,743	3,225	966	2,491	9,591	23.7	11.2	-2.3	2.2	2.1	3.3
1990	231	2,537	3,566	925	3,039	10,297	48.6	-2.2	-1.6	-3.0	4.3	0.6
1991	179	2,523	3,576	898	3,190	10,366	-22.5	-0.5	0.3	-2.9	5.0	0.7
1992	197	2,626	3,763	889	3,211	10,686	10.1	4.1	5.2	-0.9	0.7	3.1
1993	121	2,789	3,954	881	3,238	10,983	-38.3	6.2	5.1	-1.0	0.8	2.8
1994	338	2,784	3,498	909	3,319	10,847	178.1	-0.2	-11.5	3.2	2.5	-1.2
1995	271	3,054	3,722	915	3,470	11,433	-19.8	9.7	6.4	0.7	4.6	5.4
1996	216	2,824	3,776	865	3,590	11,271	-20.3	-7.5	1.4	-5.4	3.4	-1.4
1997	233	2,589	3,811	873	3,580	11,085	7.7	-8.3	0.9	0.9	-0.3	-1.6
1998	267	2,724	3,212	890	3,627	10,719	14.6	5.2	-15.7	1.9	1.3	-3.3
1999	284	2,901	3,143	898	3,643	10,869	6.5	6.5	-2.1	0.9	0.4	1.4
2000	293	2,937	3,308	903	3,669	11,111	3.4	1.2	5.3	0.6	0.7	2.2
2001	258	2,649	3,328	850	3,664	10,749	-12.2	-9.8	0.6	-5.9	-0.1	-3.3
2002	265	2,950	3,285	852	3,710	11,062	2.9	11.4	-1.3	0.2	1.3	2.9
2003	194	2,572	3,302	859	3,636	10,563	-26.7	-12.8	0.5	0.9	-2.0	-4.5
2004	293	2,737	3,195	860	3,632	10,717	50.9	6.4	-3.2	0.1	-0.1	1.5
2005	268	2,985	3,277	839	3,674	11,043	-8.6	9.1	2.6	-2.4	1.2	3.0
2006	236	2,506	3,264	838	3,660	10,503	-11.8	-16.0	-0.4	-0.2	-0.4	-4.9
2007	272	2,627	3,147	822	3,653	10,521	15.1	4.8	-3.6	-1.9	-0.2	0.2
2008	217	2,438	2,895	818	3,591	9,959	-20.2	-7.2	-8.0	-0.5	-1.7	-5.3
2009	174	2,429	2,795	804	3,570	9,772	-19.7	-0.4	-3.5	-1.7	-0.6	-1.9
2010	296	2,729	2,839	801	3,578	10,244	70.3	12.4	1.6	-0.3	0.2	4.8
2011	220	2,606	2,767	803	3,411	9,807	-25.7	-4.5	-2.5	0.3	-4.7	-4.3
2012	210	2,498	2,655	795	3,374	9,532	-4.8	-4.1	-4.1	-1.1	-1.1	-2.8
2013	222	2,299	2,467	781	3,275	9,045	5.8	-8.0	-7.1	-1.7	-2.9	-5.1
2014	168	2,193	2,400	775	3,178	8,715	-24.0	-4.6	-2.7	-0.8	-3.0	-3.6

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.17 Residential energy consumption per household (by use and by energy)

(FY1970) (Thousand kcal / household, %)

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electric power	83	56	46	72	1,313	1,571	(25.0)
City gas	186	-	649	174	-	1,010	(16.1)
LPG	31	-	380	511	-	922	(14.7)
Kerosene	1,672	-	278	11	-	1,962	(31.2)
Coal, etc.	430	-	318	77	-	825	(13.1)
Solar heat	-	-	-	-	-	-	-
Total	2,403	56	1,670	846	1,313	6,289	(100.0)
Shares	(38.2)	(0.9)	(26.6)	(13.5)	(20.9)	(100.0)	

(FY1980)

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electric power	83	62	352	93	2,186	2,776	(33.0)
City gas	282	-	1,026	269	-	1,577	(18.8)
LPG	66	-	760	587	-	1,414	(16.8)
Kerosene	1,812	-	556	23	-	2,390	(28.4)
Coal, etc.	55	-	73	19	-	148	(1.8)
Solar heat	-	-	102	-	-	102	(1.2)
Total	2,298	62	2,869	991	2,186	8,406	(100.0)
Shares	(27.3)	(0.7)	(34.1)	(11.8)	(26.0)	(100.0)	

(FY1990)

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electric power	182	231	264	128	3,039	3,844	(37.3)
City gas	365	-	1,187	335	-	1,886	(18.3)
LPG	92	-	1,062	431	-	1,586	(15.4)
Kerosene	1,886	-	746	23	-	2,655	(25.8)
Coal, etc.	11	-	34	9	-	54	(0.5)
Solar heat	-	-	273	-	-	273	(2.7)
Total	2,537	231	3,566	925	3,039	10,297	(100.0)
Shares	(24.6)	(2.2)	(34.6)	(9.0)	(29.5)	(100.0)	

(FY2000)

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electric power	297	293	243	158	3,669	4,661	(41.9)
City gas	445	-	1,217	340	-	2,002	(18.0)
LPG	84	-	852	394	-	1,330	(12.0)
Kerosene	2,109	-	814	8	-	2,931	(26.4)
Coal, etc.	2	-	17	3	-	23	(0.2)
Solar heat	-	-	166	-	-	166	(1.5)
Total	2,937	293	3,308	903	3,669	11,111	(100.0)
Shares	(26.4)	(2.6)	(29.8)	(8.1)	(33.0)	(100.0)	

(FY2010)

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electric power	443	296	386	214	3,578	4,918	(48.0)
City gas	434	-	1,112	289	-	1,834	(17.9)
LPG	109	-	770	296	-	1,176	(11.5)
Kerosene	1,744	-	486	-	-	2,229	(21.8)
Coal, etc.	-	-	11	2	-	13	(0.1)
Solar heat	-	-	74	-	-	74	(0.7)
Total	2,729	296	2,839	801	3,578	10,244	(100.0)
Shares	(26.6)	(2.9)	(27.7)	(7.8)	(34.9)	(100.0)	

(FY2014)

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electric power	357	168	330	210	3,178	4,244	(48.7)
City gas	408	-	1,022	283	-	1,713	(19.7)
LPG	78	-	612	280	-	969	(11.1)
Kerosene	1,351	-	379	-	-	1,730	(19.8)
Coal, etc.	-	-	9	1	-	11	(0.1)
Solar heat	-	-	48	-	-	48	(0.6)
Total	2,193	168	2,400	775	3,178	8,715	(100.0)
Shares	(25.2)	(1.9)	(27.5)	(8.9)	(36.5)	(100.0)	

Note:

"Coal etc." is a total of coal, briquettes, firewood, charcoal and others.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.18 Penetration and ownership of home appliances

			Penetration Rates (%), Ownership Rates (=units /100 households)															
Use	Appliances	FY1965	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999		
Penetration Rates	Air conditioner	Oil stove	45.8	82.0	89.5	91.3	84.0	75.3	72.3	72.1	68.9	67.7	66.1	65.7	61.2	60.4	60.4	
		Heater	-	-	-	18.4	42.3	61.2	63.6	63.4	65.2	66.3	67.0	67.9	67.8	68.3	69.4	
		Electric carpet	-	-	-	-	-	50.2	54.4	58.2	61.5	63.1	65.3	66.1	66.3	68.7	67.9	
		Air conditioner	2.0	7.7	19.5	41.2	54.6	68.1	69.8	72.3	74.2	77.2	77.2	79.3	81.9	84.4	86.2	
	Cooling and heating	Cooling	-	-	-	-	43.8	46.3	44.7	44.6	44.4	43.7	41.3	40.1	39.7	38.1	35.3	
		Cooling and heating	-	-	-	-	20.0	38.0	40.0	47.2	48.5	53.4	56.7	60.2	64.9	67.0	71.7	
	Water heating	Gas water boiler	-	46.0	69.1	77.3	69.3	62.1	62.9	58.4	60.1	58.3	55.0	54.9	52.3	52.0	51.2	
		Water heater	-	-	-	-	24.8	37.0	30.0	31.1	30.4	30.4	30.3	30.8	31.7	32.5	33.4	
	Cooking	Microwave oven	-	3.0	20.8	37.4	45.3	75.6	79.2	81.3	84.3	87.2	88.4	90.8	91.7	93.3	94.0	
		Refrigerator	61.6	91.2	96.1	99.2	98.4	98.9	98.1	98.0	97.9	97.8	98.4	98.7	98.1	98.4	98.0	
	Ownership rates	Washing machine	(Automatic)	-	-	-	33.9	42.7	45.8	49.3	53.4	58.0	61.9	67.3	72.4	75.3	78.6	
			(Others)	-	-	-	68.0	61.1	57.8	54.6	50.5	46.5	42.6	38.4	31.7	29.1	26.3	
		Clothes dryer	(Washing machine integrated)	-	-	-	9.7	15.8	16.6	18.1	20.1	19.4	19.8	20.8	20.9	20.8	21.7	
			(Others)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Others	Blanket dryer	-	-	-	17.8	19.5	30.6	34.4	35.8	36.2	38.1	37.4	38.7	37.1	37.8	36.5
			Color TV set	0.3	42.3	93.7	98.5	98.9	99.3	99.0	99.1	99.0	98.9	99.1	99.2	99.2	98.9	99.0
		VTR	(Over 29 inches)	-	-	-	-	-	-	30.5	33.6	38.0	37.9	39.2	43.1	45.7	48.0	49.0
			(Others)	-	-	-	-	-	-	89.1	88.7	87.3	86.9	87.0	86.4	85.4	83.9	84.3
		Stereo set	16.7	33.9	53.8	58.5	60.5	57.9	61.0	61.3	60.1	57.7	58.2	56.3	55.2	54.6	55.5	
		CD player	-	-	-	-	-	41.0	47.5	54.3	53.8	55.9	56.8	57.9	59.9	60.1	61.8	
Vacuum cleaner		41.2	74.3	92.7	95.4	98.2	98.7	98.1	98.4	98.3	98.3	98.2	98.1	98.3	98.6	98.2		
Personal Computer		-	-	-	-	-	11.5	12.2	11.9	13.9	15.6	17.3	22.1	25.2	29.5	38.6		
Ownership rates		Oil stove	-	109.2	157.1	174.9	161.0	145.6	134.9	133.1	123.5	121.4	118.2	117.7	107.4	105.8	105.0	
		Fan heater	-	-	-	-	40.5	74.7	81.2	86.2	91.1	94.1	99.0	103.1	103.6	105.3	107.9	
	Air conditioner	-	8.8	24.8	57.9	88.0	126.5	131.2	147.5	151.6	160.3	166.1	179.3	191.7	200.7	207.6		
	Refrigerator	-	94.4	108.9	115.2	114.3	119.4	117.2	119.0	119.6	121.0	119.4	120.5	120.7	120.7	121.6		
	Color TV set	-	43.5	117.2	150.9	174.7	201.3	203.6	208.8	213.5	212.7	215.1	219.8	224.6	224.0	226.2		
	(Cathode Ray Tube)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	(Thin type)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Optical disk player & recorder	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Personal Computer	-	-	-	-	-	12.7	13.2	13.6	15.8	17.8	20.2	25.7	30.0	36.7	48.6		
	Wash toilet	-	-	-	-	-	-	16.0	19.9	24.2	27.6	30.8	35.7	41.0	44.2	49.2		
Use	Appliances	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014		
Penetration Rates	Air conditioner	Oil stove	58.9	57.7	56.7	54.1	-	-	-	-	-	-	-	-	-	-		
		Heater	69.5	71.8	72.5	72.8	-	-	-	-	-	-	-	-	-	-		
		Electric carpet	68.3	68.6	67.1	65.2	-	-	-	-	-	-	-	-	-	-		
		Air conditioner	86.2	87.2	88.8	87.1	87.0	88.2	88.6	89.0	87.9	89.0	89.2	90.0	90.5	90.6	91.2	
	Cooling and heating	Cooling	33.6	32.7	30.1	25.9	-	-	-	-	-	-	-	-	-	-		
		Cooling and heating	72.9	74.5	78.1	78.8	-	-	-	-	-	-	-	-	-	-		
	Water heating	Gas water boiler	49.0	49.3	48.5	46.0	-	-	-	-	-	-	-	-	-	-		
		Water heater	33.0	36.0	35.3	35.3	50.7	50.9	49.0	52.3	52.7	54.9	55.8	58.0	57.1	56.5	58.9	
	Cooking	Microwave oven	95.3	95.7	95.8	96.5	-	-	-	-	-	-	-	-	-	-		
		Refrigerator	98.4	98.4	98.9	98.4	-	-	-	-	-	-	-	-	-	-		
	Washing machine	(Automatic)	99.3	99.3	99.6	99.0	-	-	-	-	-	-	-	-	-	-		
		(Others)	82.0	83.8	85.6	86.6	-	-	-	-	-	-	-	-	-	-		
	Clothes dryer	(Washing machine integrated)	22.6	21.1	19.1	16.8	-	-	-	-	-	-	-	-	-	-		
		(Others)	21.7	22.8	22.7	22.4	25.9	27.3	28.6	31.1	29.2	30.1	29.8	32.2	31.7	55.2	58.3	
	Others	Blanket dryer	37.0	36.5	36.5	38.1	-	-	-	-	-	-	-	-	-	-		
		Color TV set	99.2	99.3	99.4	99.0	99.3	99.4	99.5	99.7	99.4	99.5	99.6	99.4	99.3	96.5	97.5	
	VTR	(Over 29 inches)	50.9	51.3	53.1	54.0	-	-	-	-	-	-	-	-	-	-		
		(Others)	83.5	83.4	82.6	82.2	-	-	-	-	-	-	-	-	-	-		
	Stereo set	79.3	79.6	81.4	82.6	-	-	-	-	-	-	-	-	-	-			
	CD player	52.9	54.9	55.2	55.5	-	-	-	-	-	-	-	-	-	-			
Vacuum cleaner	62.1	60.5	60.3	60.9	-	-	-	-	-	-	-	-	-	-				
Personal Computer	98.3	98.2	98.1	98.1	-	-	-	-	-	-	-	-	-	-				
Wash toilet	50.1	57.2	63.3	65.7	64.6	68.3	71.0	73.1	73.2	74.6	76.0	77.3	78.0	78.7	78.0			
Ownership rates	Oil stove	101.0	100.6	96.3	91.0	-	-	-	-	-	-	-	-	-	-			
	Fan heater	111.2	115.1	119.8	120.5	134.7	131.9	130.0	122.1	121.3	125.9	116.4	126.1	114.9	108.3	106.9		
	Air conditioner	217.4	229.9	245.4	245.3	248.6	255.3	255.5	257.1	256.0	263.1	259.9	268.0	264.3	275.8	274.7		
	Refrigerator	121.4	124.8	126.3	125.6	-	-	-	-	-	-	-	-	-	-	-		
	Color TV set	230.6	235.0	237.8	238.4	252.0	250.3	248.0	241.5	243.1	243.0	239.6	232.4	225.9	208.1	211.3		
	(Cathode Ray Tube)	-	-	-	-	237.8	226.4	210.5	182.9	164.6	134.5	75.9	34.6	25.7	-	-		
	(Thin type)	-	-	-	-	14.2	23.9	37.4	58.6	78.5	108.5	163.7	197.8	200.2	208.1	211.3		
	Optical disk player & recorder	-	21.9	28.4	39.6	70.1	90.8	97.5	108.5	113.3	119.9	133.1	140.4	144.1	121.5	128.5		
	Personal Computer	65.8	78.4	87.9	92.6	95.8	104.1	107.0	110.1	111.8	118.2	122.9	129.9	128.1	131.2	126.8		
	Wash toilet	53.0	59.1	66.9	69.7	78.2	82.1	86.7	91.7	93.5	96.7	95.9	100.1	102.9	105.9	108.4		

Notes:

- In FY1980 and onward, figures are as of the end of fiscal year, and before FY1975, they are as of the previous month to the end of fiscal year (Feb.).
- Water heaters include solar water heater since FY1990.
- Survey on TV sets with CRT was discontinued in FY 2012.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS IN JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.19 Commercial energy consumption by use

	Energy consumption by use (1010kcal)						Growth rates (%)					
	Space cooling	Space heating	Water heating	Cooking	Power, etc.	Total	Space cooling	Space heating	Water heating	Cooking	Power, etc.	Total
FY 1965	213	3,155	2,862	685	1,089	8,004	-	-	-	-	-	-
1970	568	6,948	5,722	847	2,249	16,335	19.1	14.0	11.4	3.6	16.6	13.0
1975	1,202	10,040	7,908	1,018	3,822	23,989	10.9	-6.6	1.8	7.4	13.7	0.4
1980	1,181	9,960	7,531	1,467	6,223	26,362	-16.8	-0.8	-6.7	3.1	4.9	-1.9
1985	1,760	9,321	7,356	1,850	8,625	28,913	-4.3	1.7	-1.6	3.4	8.8	2.5
1990	2,946	9,548	9,221	2,314	12,438	36,467	27.2	7.7	4.3	4.9	7.1	7.8
1991	2,950	10,171	10,466	2,461	13,328	39,376	0.1	6.5	13.5	6.3	7.2	8.0
1992	2,920	11,017	10,098	2,492	14,000	40,528	-1.0	8.3	-3.5	1.3	5.0	2.9
1993	2,617	10,668	9,013	2,693	14,564	39,556	-10.4	-3.2	-10.7	8.1	4.0	-2.4
1994	3,898	10,488	9,635	2,785	15,498	42,304	48.9	-1.7	6.9	3.4	6.4	6.9
1995	3,724	11,507	9,439	2,952	15,986	43,608	-4.4	9.7	-2.0	6.0	3.1	3.1
1996	3,604	10,581	9,417	3,141	16,939	43,682	-3.2	-8.0	-0.2	6.4	6.0	0.2
1997	4,043	10,238	9,695	3,181	17,457	44,613	12.2	-3.2	3.0	1.3	3.1	2.1
1998	4,296	10,670	9,713	3,135	18,231	46,045	6.3	4.2	0.2	-1.5	4.4	3.2
1999	4,893	10,463	9,144	3,268	18,641	46,410	13.9	-1.9	-5.9	4.3	2.2	0.8
2000	5,167	10,605	8,988	3,515	18,698	46,973	5.6	1.4	-1.7	7.5	0.3	1.2
2001	5,351	9,238	8,808	3,546	19,347	46,290	3.6	-12.9	-2.0	0.9	3.5	-1.5
2002	5,710	10,500	8,210	3,494	19,483	47,397	6.7	13.7	-6.8	-1.4	0.7	2.4
2003	4,363	9,923	9,050	3,933	20,170	47,438	-23.6	-5.5	10.2	12.5	3.5	0.1
2004	5,757	9,802	8,537	3,804	20,547	48,447	31.9	-1.2	-5.7	-3.3	1.9	2.1
2005	5,228	10,095	8,100	3,924	19,762	47,110	-9.2	3.0	-5.1	3.1	-3.8	-2.8
2006	5,066	8,212	8,044	3,914	20,016	45,253	-3.1	-18.7	-0.7	-0.2	1.3	-3.9
2007	5,083	7,648	6,898	3,827	20,535	43,990	0.3	-6.9	-14.3	-2.2	2.6	-2.8
2008	5,044	6,679	6,372	3,742	20,324	42,161	-0.8	-12.7	-7.6	-2.2	-1.0	-4.2
2009	4,596	7,026	6,235	3,842	19,945	41,644	-8.9	5.2	-2.2	2.7	-1.9	-1.2
2010	5,519	7,151	6,020	3,905	21,620	44,215	20.1	1.8	-3.4	1.6	8.4	6.2
2011	4,807	7,159	5,787	3,784	20,345	41,882	-12.9	0.1	-3.9	-3.1	-5.9	-5.3
2012	4,794	7,215	5,729	3,813	20,537	42,087	-0.3	0.8	-1.0	0.8	0.9	0.5
2013	4,855	6,454	5,329	3,829	20,509	40,977	1.3	-10.5	-7.0	0.4	-0.1	-2.6
2014	4,282	6,090	4,987	3,786	20,342	39,487	-11.8	-5.7	-6.4	-1.1	-0.8	-3.6

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.20 Commercial energy consumption by energy

	Energy consumption by energy (1010kcal)						Growth rates (%)					
	Coal	Oil	Gas	Electricity	Heat	Total	Coal	Oil	Gas	Electricity	Heat	Total
FY 1965	1,163	4,320	1,209	1,312	-	8,004	-	-	-	-	-	-
1970	525	11,119	1,904	2,782	5	16,335	-18.7	14.9	8.7	17.1	25.0	13.0
1975	154	16,180	2,611	4,990	54	23,989	-32.8	-3.3	3.1	13.5	170.0	0.4
1980	736	14,884	3,224	7,411	107	26,362	-3.4	-4.1	2.9	0.5	12.6	-1.9
1985	1,014	13,458	3,904	10,357	180	28,913	-2.0	-0.1	3.3	6.3	5.9	2.5
1990	745	15,363	5,342	14,757	260	36,467	5.7	6.0	6.0	10.2	22.1	7.8
1991	658	17,118	5,754	15,534	312	39,376	-11.7	11.4	7.7	5.3	20.0	8.0
1992	644	17,523	5,981	16,053	327	40,528	-2.1	2.4	3.9	3.3	4.8	2.9
1993	736	15,543	6,368	16,559	350	39,556	14.3	-11.3	6.5	3.1	7.0	-2.4
1994	926	15,903	6,723	18,326	426	42,304	25.8	2.3	5.6	10.7	21.7	6.9
1995	1,089	16,053	7,131	18,835	500	43,608	17.6	0.9	6.1	2.8	17.4	3.1
1996	1,069	15,136	7,416	19,524	537	43,682	-1.8	-5.7	4.0	3.7	7.4	0.2
1997	976	15,056	7,695	20,306	580	44,613	-8.7	-0.5	3.8	4.0	8.0	2.1
1998	1,055	15,523	7,556	21,311	600	46,045	8.1	3.1	-1.8	4.9	3.4	3.2
1999	894	14,589	8,403	21,895	629	46,410	-15.3	-6.0	11.2	2.7	4.8	0.8
2000	943	14,000	8,848	22,524	658	46,973	5.5	-4.0	5.3	2.9	4.6	1.2
2001	978	12,571	8,975	23,105	661	46,290	3.7	-10.2	1.4	2.6	0.5	-1.5
2002	1,060	12,807	9,194	23,663	673	47,397	8.4	1.9	2.4	2.4	1.8	2.4
2003	1,030	12,836	9,442	23,462	668	47,438	-2.8	0.2	2.7	-0.8	-0.7	0.1
2004	1,006	12,186	9,769	24,774	712	48,447	-2.3	-5.1	3.5	5.6	6.6	2.1
2005	955	11,924	10,138	23,381	712	47,110	-5.1	-2.2	3.8	-5.6	0.0	-2.8
2006	1,041	10,261	9,990	23,276	685	45,253	9.0	-13.9	-1.5	-0.4	-3.8	-3.9
2007	806	8,694	10,009	23,776	705	43,990	-22.6	-15.3	0.2	2.1	2.9	-2.8
2008	665	7,374	9,803	23,651	668	42,161	-17.5	-15.2	-2.1	-0.5	-5.2	-4.2
2009	582	7,425	9,815	23,178	644	41,644	-12.5	0.7	0.1	-2.0	-3.6	-1.2
2010	615	7,229	10,193	25,508	670	44,215	5.7	-2.6	3.9	10.1	4.0	6.2
2011	580	7,255	9,785	23,648	614	41,882	-5.7	0.4	-4.0	-7.3	-8.4	-5.3
2012	616	7,158	9,854	23,831	628	42,087	6.2	-1.3	0.7	0.8	2.3	0.5
2013	606	5,946	9,948	23,839	638	40,977	-1.6	-16.9	1.0	0.0	1.6	-2.6
2014	613	5,280	9,574	23,411	609	39,487	1.2	-11.2	-3.8	-1.8	-4.5	-3.6

Notes:

- "Gas" includes city gas and LP gas.
- "Thermal" includes geothermal and solar thermal.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.21 Commercial energy consumption by business type

	Energy consumption by business type (1010kcal)									
	Office & Buildings	Department stores & Supermarkets	Wholesales & retails	Restaurants	Schools	Hotels & Inns	Hospitals	Theater & Amusement places	Others	Total
FY 1965	1,122	51	1,067	873	1,165	1,226	910	134	1,457	8,004
1970	2,700	120	2,317	1,759	2,376	3,048	2,203	328	1,486	16,335
1975	4,257	272	3,529	2,597	3,061	4,334	3,020	782	2,137	23,989
1980	4,514	341	4,276	2,798	3,206	3,773	2,998	722	3,734	26,362
1985	5,129	372	5,074	2,643	3,180	3,628	3,191	843	4,853	28,913
1990	6,911	493	6,455	3,239	3,564	4,778	4,222	1,022	5,785	36,467
1991	7,420	536	6,858	3,436	3,787	5,316	4,769	1,103	6,152	39,376
1992	7,718	552	7,261	3,465	3,831	5,391	4,788	1,189	6,332	40,528
1993	7,661	557	7,283	3,500	3,588	5,105	4,437	1,169	6,256	39,556
1994	8,301	639	7,727	3,642	3,700	5,467	4,738	1,267	6,823	42,304
1995	8,490	658	8,131	3,705	3,726	5,481	4,800	1,332	7,286	43,608
1996	8,494	672	8,174	3,799	3,626	5,474	4,803	1,328	7,312	43,682
1997	8,639	733	8,282	3,851	3,620	5,634	5,008	1,375	7,470	44,613
1998	8,791	758	8,723	3,872	3,650	5,715	5,261	1,428	7,847	46,045
1999	8,903	746	8,901	3,950	3,653	5,661	5,305	1,491	7,800	46,410
2000	8,931	764	9,120	4,060	3,633	5,626	5,393	1,496	7,951	46,973
2001	8,845	778	8,835	4,027	3,520	5,535	5,336	1,453	7,962	46,290
2002	8,923	786	9,297	4,016	3,585	5,451	5,480	1,557	8,302	47,397
2003	8,667	765	9,223	4,190	3,549	5,570	5,648	1,485	8,343	47,438
2004	9,097	818	9,423	4,156	3,585	5,538	5,745	1,577	8,509	48,447
2005	8,669	766	9,385	4,047	3,451	5,272	5,675	1,551	8,293	47,110
2006	8,559	763	8,673	3,916	3,318	5,136	5,456	1,437	7,995	45,253
2007	8,733	781	8,542	3,810	3,272	4,862	5,099	1,426	7,465	43,990
2008	8,656	721	8,154	3,665	3,155	4,653	4,811	1,362	6,984	42,161
2009	8,510	709	8,214	3,644	3,139	4,580	4,749	1,337	6,762	41,644
2010	9,302	786	8,781	3,779	3,397	4,727	4,941	1,474	7,028	44,215
2011	8,716	726	8,375	3,551	3,219	4,436	4,730	1,377	6,751	41,882
2012	8,821	733	8,419	3,522	3,294	4,371	4,740	1,383	6,803	42,087
2013	8,840	735	7,981	3,414	3,345	4,214	4,528	1,354	6,567	40,977
2014	8,617	715	7,677	3,281	3,296	3,984	4,290	1,296	6,330	39,487

	Growth rates (%)									
	Office & Buildings	Department stores & Supermarkets	Wholesales & retails	Restaurants	Schools	Hotels & Inns	Hospitals	Theater & Amusement places	Others	Total
FY 1965	-	-	-	-	-	-	-	-	-	-
1970	16.2	19.3	14.9	12.5	12.1	13.3	14.0	16.9	4.0	13.0
1975	2.5	7.8	2.3	0.6	-6.2	0.6	-0.3	-0.4	2.7	0.4
1980	-2.7	-3.7	1.2	-0.9	0.6	-6.8	-3.4	-2.5	-0.7	-1.9
1985	3.8	2.1	4.7	-1.2	2.2	0.2	0.9	5.4	3.6	2.5
1990	8.9	8.3	9.5	6.3	5.8	7.2	7.7	8.9	6.8	7.8
1991	7.4	8.8	6.2	6.1	6.3	11.3	13.0	7.9	6.4	8.0
1992	4.0	3.0	5.9	0.9	1.2	1.4	0.4	7.8	2.9	2.9
1993	-0.7	0.9	0.3	1.0	-6.3	-5.3	-7.3	-1.7	-1.2	-2.4
1994	8.4	14.6	6.1	4.1	3.1	7.1	6.8	8.4	9.1	6.9
1995	2.3	2.9	5.2	1.7	0.7	0.3	1.3	5.1	6.8	3.1
1996	0.0	2.2	0.5	2.5	-2.7	-0.1	0.1	-0.3	0.4	0.2
1997	1.7	9.0	1.3	1.4	-0.2	2.9	4.3	3.5	2.2	2.1
1998	1.8	3.5	5.3	0.6	0.8	1.4	5.0	3.8	5.0	3.2
1999	1.3	-1.7	2.0	2.0	0.1	-0.9	0.8	4.5	-0.6	0.8
2000	0.3	2.5	2.5	2.8	-0.6	-0.6	1.7	0.3	1.9	1.2
2001	-1.0	1.8	-3.1	-0.8	-3.1	-1.6	-1.1	-2.9	0.1	-1.5
2002	0.9	1.0	5.0	-0.2	1.8	-1.3	2.8	7.0	4.3	2.4
2003	-2.9	-2.7	-0.6	4.3	-1.0	2.0	2.9	-4.5	0.5	0.1
2004	5.0	7.0	2.2	-0.8	1.0	-0.6	1.7	6.2	2.0	2.1
2005	-4.7	-6.3	-0.4	-2.6	-3.7	-4.8	-1.2	-1.6	-2.5	-2.8
2006	-1.3	-0.5	-7.6	-3.2	-3.9	-2.6	-3.9	-7.4	-3.6	-3.9
2007	2.0	2.4	-1.5	-2.7	-1.4	-5.3	-6.5	-0.7	-6.6	-2.8
2008	-0.9	-7.7	-4.6	-3.8	-3.6	-4.3	-5.7	-4.5	-6.4	-4.2
2009	-1.9	-2.0	-1.3	-1.7	-1.1	-3.1	-3.8	-3.3	-5.1	-2.6
2010	9.2	10.8	6.3	3.3	8.0	2.8	3.5	9.9	3.4	5.8
2011	-6.4	-7.8	-5.6	-6.5	-5.4	-6.8	-5.3	-7.2	-4.8	-5.9
2012	1.0	0.8	0.9	-1.0	2.0	-1.4	0.6	0.6	1.1	0.6
2013	0.3	0.5	-2.9	-1.9	2.0	-2.2	-1.9	-0.6	-1.4	-1.2
2014	-2.5	-2.7	-3.8	-3.9	-1.5	-5.4	-5.3	-4.3	-3.6	-3.6

Notes:

- "Others" includes welfare facilities, libraries, museums, gyms, assembly facilities and the like.
- "Amusement spot" includes play houses, motion picture theaters, halls, civic auditoriums, and so forth.

Source: "2016 EDMC HANDBOOK OF ENERGY & ECONOMIC STATISTICS IN JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.22 Commercial energy consumption per floor space by use

	Energy consumption by purpose (1000 kcal/m ²)						Growth rates (%)					
	Space cooling	Space heating	Water heating	Cooking	Power, etc.	Total	Space cooling	Space heating	Water heating	Cooking	Power, etc.	Total
FY 1965	5.1	75.7	68.6	16.4	26.1	191.9	-	-	-	-	-	-
1970	10.1	124.1	102.2	15.1	40.2	291.7	11.4	6.7	4.3	-3.1	9.1	5.7
1975	15.9	133.2	104.9	13.5	50.7	318.2	4.9	-11.6	-3.7	1.6	7.6	-5.1
1980	12.6	106.4	80.4	15.7	66.5	281.6	-20.3	-5.0	-10.7	-1.2	0.4	-6.1
1985	16.0	84.5	66.7	16.8	78.2	262.1	-7.0	-1.3	-4.4	0.4	5.7	-0.4
1990	22.9	74.3	71.8	18.0	96.8	283.8	23.8	4.8	1.5	2.1	4.2	4.9
1991	22.2	76.6	78.8	18.5	100.4	296.5	-3.1	3.1	9.9	2.9	3.7	4.5
1992	21.4	80.7	73.9	18.2	102.5	296.8	-3.8	5.3	-6.2	-1.5	2.1	0.1
1993	18.6	75.8	64.0	19.1	103.5	281.0	-13.0	-6.0	-13.4	4.9	0.9	-5.3
1994	26.8	72.1	66.3	19.2	106.6	290.9	44.1	-4.8	3.5	0.1	3.0	3.5
1995	24.9	76.8	63.0	19.7	106.7	291.0	-7.3	6.5	-4.9	2.9	0.1	0.0
1996	23.6	69.2	61.6	20.5	110.7	285.5	-5.2	-9.9	-2.3	4.2	3.8	-1.9
1997	25.8	65.4	62.0	20.3	111.6	285.2	9.7	-5.4	0.7	-0.9	0.8	-0.1
1998	26.8	66.7	60.7	19.6	113.9	287.7	3.8	1.9	-2.1	-3.7	2.1	0.9
1999	30.0	64.1	56.1	20.0	114.3	284.5	11.8	-3.8	-7.6	2.3	0.3	-1.1
2000	31.2	64.1	54.3	21.2	112.9	283.7	4.0	-0.2	-3.2	5.9	-1.2	-0.3
2001	31.7	54.8	52.2	21.0	114.8	274.6	1.7	-14.4	-3.7	-0.9	1.6	-3.2
2002	33.5	61.7	48.2	20.5	114.5	278.5	5.7	12.6	-7.7	-2.4	-0.3	1.4
2003	25.3	57.6	52.6	22.8	117.1	275.5	-24.5	-6.6	9.0	11.3	2.3	-1.1
2004	33.1	56.4	49.1	21.9	118.1	278.5	30.6	-2.2	-6.6	-4.2	0.8	1.1
2005	29.7	57.4	46.0	22.3	112.3	267.8	-10.2	1.8	-6.2	2.0	-4.9	-3.9
2006	28.5	46.2	45.3	22.0	112.7	254.8	-4.0	-19.4	-1.6	-1.2	0.4	-4.8
2007	28.4	42.7	38.5	21.4	114.7	245.6	-0.5	-7.7	-15.0	-3.1	1.7	-3.6
2008	27.8	36.9	35.2	20.7	112.2	232.7	-1.9	-13.7	-8.7	-3.3	-2.2	-5.3
2009	25.2	38.6	34.2	21.1	109.5	228.6	-9.4	4.6	-2.7	2.1	-2.4	-1.7
2010	30.2	39.1	32.9	21.3	118.2	241.6	19.5	1.3	-3.9	1.2	7.9	5.7
2011	26.3	39.2	31.7	20.7	111.3	229.2	-12.8	0.3	-3.7	-3.0	-5.8	-5.1
2012	26.1	39.3	31.2	20.8	112.0	229.4	-0.7	0.4	-1.4	0.4	0.5	0.1
2013	26.3	35.0	28.9	20.7	111.1	222.0	0.7	-11.1	-7.5	-0.2	-0.7	-3.2
2014	23.1	32.8	26.9	20.4	109.6	212.8	-12.3	-6.2	-7.0	-1.7	-1.4	-4.2

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.23 Commercial energy consumption per floor space by use and energy

FY 1970

(Unit : 1,000 kcal/m², %)

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electricity	2.6	7.0	-	-	40.2	49.7	(17.0)
Gas	6.7	-	14.3	13.0	-	34.0	(11.7)
Oil	113.3	3.2	82.1	-	-	198.5	(68.1)
Coal	1.5	-	5.8	2.1	-	9.4	(3.2)
Heat	-	-	0.1	-	-	0.1	(0.0)
Total	124.1	10.1	102.2	15.1	40.2	291.7	(100.0)
Shares	(42.5)	(3.5)	(35.0)	(5.2)	(13.8)	(100.0)	

FY 1980

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electricity	3.1	9.6	-	-	66.5	79.2	(28.1)
Gas	5.8	0.3	14.4	13.9	-	34.4	(12.2)
Oil	96.2	2.7	60.0	-	-	159.0	(56.5)
Coal	1.3	-	4.8	1.8	-	7.9	(2.8)
Heat	-	-	1.1	-	-	1.1	(0.4)
Total	106.4	12.6	80.4	15.7	66.5	281.6	(100.0)
Shares	(37.8)	(4.5)	(28.6)	(5.6)	(23.6)	(100.0)	

FY 1990

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electricity	2.1	15.2	0.3	0.4	96.8	114.8	(40.5)
Gas	5.5	4.4	15.4	16.3	-	41.6	(14.6)
Oil	65.6	3.0	51.0	-	-	119.5	(42.1)
Coal	0.9	-	3.6	1.3	-	5.8	(2.0)
Heat	0.1	0.4	1.5	-	-	2.0	(0.7)
Total	74.3	22.9	71.8	18.0	96.8	283.8	(100.0)
Shares	(26.2)	(8.1)	(25.3)	(6.3)	(34.1)	(100.0)	

FY 2000

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electricity	4.1	16.4	1.0	1.6	112.9	136.0	(48.0)
Gas	7.9	11.1	16.0	18.4	-	53.4	(18.8)
Oil	50.6	2.2	31.8	-	-	84.6	(29.8)
Coal	0.9	-	3.5	1.3	-	5.7	(2.0)
Heat	0.5	1.5	2.0	-	-	4.0	(1.4)
Total	64.1	31.2	54.3	21.2	112.9	283.7	(100.0)
Shares	(22.6)	(11.0)	(19.1)	(7.5)	(39.8)	(100.0)	

FY 2010

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electricity	3.7	13.4	1.7	2.5	118.2	139.4	(57.7)
Gas	9.1	13.9	14.6	18.1	-	55.7	(23.1)
Oil	25.2	1.2	13.1	-	-	39.5	(16.3)
Coal	0.5	-	2.1	0.8	-	3.4	(1.4)
Heat	0.6	1.6	1.4	-	-	3.7	(1.5)
Total	39.1	30.2	32.9	21.3	118.2	241.6	(100.0)
Shares	(16.2)	(12.5)	(13.6)	(8.8)	(48.9)	(100.0)	

FY 2014

	Space heating	Space cooling	Water heating	Cooking	Power, etc.	Total	Shares
Electricity	3.4	8.9	1.7	2.5	109.6	126.1	(59.3)
Gas	9.2	11.7	13.6	17.1	-	51.6	(24.2)
Oil	19.2	0.9	8.3	-	-	28.4	(13.4)
Coal	0.5	-	2.1	0.7	-	3.3	(1.6)
Heat	0.6	1.5	1.2	-	-	3.3	(1.5)
Total	32.8	23.1	26.9	20.4	109.6	212.8	(100.0)
Shares	(15.4)	(10.8)	(12.6)	(9.6)	(51.5)	(100.0)	

Notes:

- "Gas" includes town gas and liquefied petroleum gas (LP gas).
- "Thermal" includes geothermal and solar thermal.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.24 Floor space in the commercial sector by business type

	Total floor area (million m ²)
FY 1965	417
1970	560
1975	754
1980	936
1985	1,103
1990	1,285
1991	1,328
1992	1,366
1993	1,407
1994	1,454
1995	1,498
1996	1,530
1997	1,564
1998	1,601
1999	1,631
2000	1,656
2001	1,686
2002	1,702
2003	1,722
2004	1,739
2005	1,759
2006	1,776
2007	1,791
2008	1,812
2009	1,821
2010	1,830
2011	1,827
2012	1,834
2013	1,846
2014	1,856

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.25 Transportation energy consumption (by mode)

(Unit : 10¹⁰kcal)

	Passenger								Freight					Total transport		
	Total	Growth rates (%)	Private vehicle	Business Vehicle	Bus	Rail	Internal navigation	Domestic aviation	Total	Growth rates (%)	Vehicle	Rail	Internal navigation	Domestic aviation	Total transport	Growth rates (%)
FY 1965	7,914	-	3,546	1,491	905	1,462	65	445	11,121	-	7,014	2,124	1,964	20	19,055	7.9
1970	15,988	14.7	10,409	1,951	1,189	1,374	109	956	18,285	10.3	12,763	1,216	4,240	66	34,273	12.3
1975	23,805	7.4	17,040	2,089	1,414	1,456	140	1,665	22,491	3.1	15,690	407	6,268	126	46,295	5.3
1980	29,728	0.9	22,515	1,870	1,339	1,513	130	2,360	25,274	-3.7	18,901	320	5,833	221	55,003	-1.2
1985	34,016	3.6	26,651	2,113	1,297	1,520	99	2,336	24,864	0.9	19,574	198	4,769	323	58,880	2.4
1990	44,922	8.0	36,153	2,384	1,530	1,847	167	2,840	29,464	-0.5	25,278	160	3,613	414	74,386	4.5
1991	47,186	5.0	38,038	2,657	1,476	1,877	203	2,935	30,591	3.8	26,211	160	3,794	426	77,776	4.6
1992	48,836	3.5	39,741	2,494	1,478	1,893	188	3,041	30,646	0.2	26,398	164	3,644	440	79,482	2.3
1993	49,764	1.9	41,171	1,914	1,472	1,898	180	3,129	30,445	-0.7	26,146	156	3,675	468	80,209	0.9
1994	52,400	5.3	43,556	1,806	1,518	1,941	163	3,417	31,603	3.8	27,398	152	3,556	496	84,005	4.7
1995	54,192	3.4	45,168	1,735	1,505	1,947	140	3,697	32,448	2.7	27,977	154	3,794	523	86,640	3.1
1996	56,028	3.4	46,713	2,089	1,473	1,936	205	3,612	32,887	1.4	28,153	149	4,076	509	88,916	2.6
1997	57,498	2.6	47,930	2,300	1,468	1,952	209	3,639	32,733	-0.5	27,864	149	4,207	514	90,233	1.5
1998	58,497	1.7	48,975	2,252	1,447	1,966	181	3,676	32,764	0.1	27,232	142	4,849	541	91,261	1.1
1999	59,657	2.0	50,179	2,341	1,468	1,929	244	3,496	33,133	1.1	27,345	144	5,104	540	92,788	1.7
2000	58,100	-2.6	49,572	1,532	1,378	1,941	208	3,469	32,639	-1.5	26,657	134	5,279	570	90,740	-2.2
2001	58,896	1.4	49,929	1,582	1,392	1,928	212	3,853	32,097	-1.7	26,205	137	5,229	526	90,993	0.3
2002	58,849	-0.1	50,286	1,606	1,365	1,901	175	3,516	31,771	-1.0	25,790	135	5,325	521	90,620	-0.4
2003	58,796	-0.1	50,320	1,583	1,407	1,940	145	3,401	31,468	-1.0	25,636	137	5,148	547	90,264	-0.4
2004	59,530	1.2	50,681	1,499	1,499	1,921	179	3,751	31,761	0.9	26,207	136	4,869	550	91,291	1.1
2005	59,041	-0.8	49,925	1,494	1,503	2,007	173	3,940	31,459	-1.0	25,970	140	4,792	557	90,500	-0.9
2006	57,845	-2.0	48,537	1,483	1,533	1,983	156	4,154	31,489	0.1	26,376	138	4,404	572	89,334	-1.3
2007	56,762	-1.9	47,033	1,439	1,531	1,995	167	4,599	30,303	-3.8	25,835	134	3,746	588	87,065	-2.5
2008	54,788	-3.5	45,379	1,375	1,456	1,983	165	4,430	29,006	-4.3	24,928	132	3,400	546	83,794	-3.8
2009	54,266	-1.0	45,264	1,344	1,452	1,967	145	4,094	27,857	-4.0	24,100	126	3,093	538	82,123	-2.0
2010	54,872	1.1	45,826	1,284	1,623	1,987	144	4,007	28,058	0.7	24,371	124	3,051	511	82,929	1.0
2011	53,096	-3.2	45,129	1,206	1,548	1,884	147	3,183	27,915	-0.5	24,319	120	2,977	498	81,011	-2.3
2012	52,189	-1.7	44,384	1,189	1,599	1,885	145	2,986	27,973	0.2	24,351	122	3,002	498	80,163	-1.0
2013	51,108	-2.1	42,261	1,154	1,702	1,977	154	3,860	28,489	1.8	25,023	128	2,811	526	79,598	-0.7
2014	49,245	-3.6	40,401	1,072	1,569	1,938	155	4,110	28,200	-1.0	24,664	126	2,883	526	77,446	-2.7

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.26 Energy intensity by mode

	Passenger (kcal / passenger- km)								Freight (kcal / ton- km)					
	Total	Growth rates (%)	Private vehicle	Business vehicle	Bus	Rail	Internal navigation	Domestic aviation	Total	Growth rates (%)	Vehicle	Rail	Internal navigation	Domestic aviation
FY 1965	191	-	563	1,655	113	57	167	1,507	648	-	2,051	375	243	9,519
1970	228	2.0	375	1,258	116	48	164	1,026	591	-0.6	1,341	194	280	8,951
1975	297	5.6	518	1,671	128	45	204	870	700	7.7	1,733	87	341	8,313
1980	335	0.4	544	1,434	121	48	212	795	657	-2.5	1,514	86	263	7,631
1985	341	-0.3	522	1,669	124	46	172	705	669	1.4	1,365	91	232	6,688
1990	347	5.4	497	1,898	139	48	267	550	639	-6.9	1,340	59	148	5,178
1991	355	2.5	511	2,061	136	47	328	530	649	1.5	1,342	59	153	5,250
1992	362	1.8	519	1,985	139	47	309	537	653	0.7	1,362	62	147	5,469
1993	368	1.7	533	1,572	143	47	297	548	677	3.7	1,378	61	157	5,728
1994	384	4.4	552	1,561	152	49	273	558	689	1.7	1,404	62	149	5,694
1995	391	1.9	560	1,566	155	49	249	569	695	0.9	1,382	61	159	5,662
1996	399	1.9	567	1,959	155	48	363	523	689	-0.9	1,341	60	169	5,286
1997	406	1.9	571	2,234	158	49	391	497	692	0.5	1,325	60	177	5,236
1998	411	1.3	575	2,272	160	51	393	484	717	3.5	1,320	62	214	5,492
1999	419	2.0	587	2,406	166	50	545	441	715	-0.3	1,299	64	222	5,200
2000	410	-2.3	582	1,582	158	50	484	435	681	-4.7	1,245	60	218	5,301
2001	414	1.0	583	1,669	161	50	530	473	666	-2.2	1,225	62	214	5,296
2002	414	-0.1	587	1,680	158	50	450	419	673	1.0	1,210	61	226	5,259
2003	413	-0.2	588	1,648	163	50	360	408	682	1.2	1,167	60	236	5,323
2004	420	1.8	596	1,611	174	50	463	458	682	0.0	1,172	60	222	5,198
2005	419	-0.3	599	1,620	171	51	430	473	678	-0.5	1,137	61	226	5,179
2006	413	-1.5	594	1,612	173	50	412	484	672	-0.9	1,116	59	212	5,223
2007	402	-2.5	574	1,614	172	49	435	545	646	-3.9	1,069	57	185	5,125
2008	393	-2.2	563	1,620	162	49	469	547	648	0.4	1,055	59	181	5,059
2009	396	0.8	565	1,648	166	50	472	544	668	3.0	1,056	61	185	5,149
2010	402	1.3	571	1,647	189	51	480	543	625	-6.4	984	61	170	4,942
2011	390	-3.0	561	1,654	190	48	483	447	647	3.6	1,033	60	170	5,014
2012	367	-5.9	524	1,648	193	47	470	383	681	5.2	1,152	60	169	4,898
2013	351	-4.3	488	1,639	210	48	471	459	674	-1.0	1,160	61	152	4,782
2014	329	-6.3	446	1,547	197	47	471	473	676	0.3	1,165	60	157	4,681

Source: "2016 EDMC HANDBOOK OF ENERGY & ECONOMIC STATISTICS IN JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.27 Trends in proportion of power generation by energy source

(Unit : %)

	Thermal power	Hydroelectric generation and others	Nuclear power
FY 1990	60.5	12.1	27.3
1991	59.3	12.9	27.8
1992	60.2	10.9	28.9
1993	55.3	12.7	32.0
1994	59.1	8.6	32.3
1995	55.5	10.5	34.0
1996	55.2	10.2	34.6
1997	53.2	11.2	35.6
1998	51.8	11.3	36.8
1999	55.2	10.3	34.5
2000	55.5	10.2	34.3
2001	55.2	10.2	34.6
2002	59.0	9.8	31.2
2003	63.1	11.3	25.7
2004	60.1	10.9	29.1
2005	60.1	9.1	30.8
2006	59.5	10.0	30.5
2007	65.9	8.6	25.6
2008	65.2	8.8	26.0
2009	61.4	9.4	29.2
2010	61.8	9.7	28.6
2011	78.9	10.4	10.7
2012	88.4	10.0	1.7
2013	88.4	10.7	1.0
2014	87.8	12.2	0.0

Source: "Environmental Action Plan by the Japanese Electric Utility Industry" (September , 2015), The Federation of Electric Power Companies of Japan

1.28 Trends in rate of utilization for nuclear power plants

	Rate of Utilization (%)
FY 1990	72.7
1991	73.8
1992	74.2
1993	75.4
1994	76.6
1995	80.2
1996	80.8
1997	81.3
1998	84.2
1999	80.1
2000	81.7
2001	80.5
2002	73.4
2003	59.7
2004	68.9
2005	71.9
2006	69.9
2007	60.7
2008	60.0
2009	65.7
2010	67.3
2011	23.7
2012	3.9
2013	2.3
2014	0.0

Source: "Outline of Demand and Supply for Electric Power" by Electricity and Gas Industry Department, Agency for Natural Resources and Energy, METI; "Prompt Report on Power Received and Generated" by The Federation of Electric Power Companies of Japan"

1.29 Trend in CO₂ emissions per unit of user-end electricity

	CO ₂ emissions intensity (kgCO ₂ / kWh)
FY 1990	0.417
1991	0.408
1992	0.416
1993	0.386
1994	0.412
1995	0.389
1996	0.382
1997	0.366
1998	0.354
1999	0.373
2000	0.376
2001	0.376
2002	0.404
2003	0.433
2004	0.418
2005	0.423
2006	0.410
2007	0.453
2008	0.444(0.373)
2009	0.412(0.351)
2010	0.413(0.350)
2011	0.510(0.476)
2012	0.571(0.487)
2013	0.570
2014	0.556

Note:

- Parenthesized figures are the values reflecting Kyoto Mechanisms Credit.

Source: the Council on Industrial Structure and the Federation of Electric Power Companies of Japan

1.30 New energy supply

	New energy supply (10 ¹⁰ kcal)			Growth rates (%)		
	Solar heat	Geothermal	Waste	Solar heat	Geothermal	Waste
FY 1965	-	-	5	-	-	0.0
1970	-	66	10	-	20.0	11.1
1975	136	96	34	-	29.7	17.2
1980	370	290	107	73.7	3.9	40.8
1985	878	398	227	8.5	6.4	8.1
1990	1,167	465	407	13.3	26.4	19.0
1991	1,129	506	437	-3.3	8.8	7.4
1992	1,077	510	465	-4.6	0.8	6.4
1993	1,051	504	491	-2.4	-1.2	5.6
1994	1,031	589	516	-1.9	16.9	5.1
1995	1,006	922	631	-2.4	56.5	22.3
1996	958	1,071	756	-4.8	16.2	19.8
1997	958	1,097	896	0.0	2.4	18.5
1998	845	1,031	1,007	-11.8	-6.0	12.4
1999	768	1,008	1,047	-9.1	-2.2	4.0
2000	808	964	1,012	5.2	-4.4	-3.3
2001	747	999	1,148	-7.5	3.6	13.4
2002	684	990	1,303	-8.4	-0.9	13.5
2003	635	1,017	1,482	-7.2	2.7	13.7
2004	600	984	1,470	-5.5	-3.2	-0.8
2005	569	943	1,431	-5.2	-4.2	-2.7
2006	540	899	1,451	-5.1	-4.7	1.4
2007	513	889	1,440	-5.0	-1.1	-0.8
2008	489	802	1,400	-4.7	-9.8	-2.8
2009	444	843	1,388	-9.2	5.1	-0.9
2010	411	769	1,455	-7.4	-8.8	4.8
2011	376	783	1,511	-8.5	1.8	3.8
2012	348	764	1,569	-7.4	-2.4	3.8
2013	317	759	1,591	-8.9	-0.7	1.4
2014	291	753	1,589	-8.2	-0.8	-0.1

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.31 Installed capacity of cogeneration system

(Unit: kW)

	Residential and commercial									
	Gas turbine		Gas engine		Diesel engine		Steam turbine + fuel cell		Total	
	Unit	Capacity	Unit	Capacity	Unit	Capacity	Unit	Capacity	Unit	Capacity
FY 1970	-	-	-	-	-	-	-	-	-	-
1975	-	-	-	-	2	300	-	-	2	300
1980	-	-	-	-	9	12,796	-	-	9	12,796
1985	8	4,580	53	9,679	46	21,912	-	-	107	36,171
1990	24	25,900	380	85,491	624	181,258	-	-	1,028	292,649
1991	33	37,980	463	101,812	772	232,874	-	-	1,268	372,666
1992	38	49,900	528	120,884	883	263,146	-	-	1,449	433,930
1993	48	102,750	613	143,500	958	286,236	-	-	1,619	532,486
1994	55	115,420	690	166,093	1,059	312,492	-	-	1,804	594,005
1995	61	121,440	752	180,970	1,162	345,785	-	-	1,975	648,195
1996	72	158,110	870	204,970	1,292	390,370	-	-	2,234	753,450
1997	78	175,710	1,016	247,364	1,398	426,149	-	-	2,492	849,223
1998	95	218,232	1,169	284,053	1,485	456,377	-	-	2,749	958,662
1999	109	257,914	1,382	325,035	1,571	492,972	-	-	3,062	1,075,921
2000	167	289,852	1,600	387,968	1,709	543,067	-	-	3,476	1,220,887
2001	234	354,745	1,901	431,358	1,798	571,813	-	-	3,933	1,357,916
2002	335	382,399	2,361	483,993	1,878	609,379	-	-	4,574	1,475,771
2003	426	404,934	2,894	519,989	1,930	639,011	-	-	5,250	1,563,934
2004	495	425,715	3,565	579,739	1,969	653,531	-	-	6,029	1,658,985
2005	506	448,975	4,303	629,467	1,984	664,794	-	-	6,793	1,743,236
2006	521	461,819	5,049	700,828	1,988	667,509	-	-	7,558	1,830,156
2007	528	473,185	5,590	746,630	1,989	667,009	-	-	8,107	1,886,824
2008	523	497,958	6,062	783,651	1,985	664,969	-	-	8,570	1,946,578
2009	344	492,063	4,843	802,672	1,130	671,788	2	620	6,319	1,967,143
2010	538	487,676	6,552	829,229	1,997	671,684	70	11,162	9,157	1,999,751
2011	521	496,947	6,811	835,888	1,997	671,684	54	8,333	9,383	2,012,852
2012	513	492,628	7,545	896,589	1,982	662,084	58	8,738	10,098	2,060,039
2013	500	489,319	8,216	925,327	1,932	646,179	60	8,988	10,708	2,069,813
2014	498	489,308	8,794	957,121	1,925	642,099	69	10,289	11,286	2,098,817

	Industry									
	Gas turbine		Gas engine		Diesel engine		Steam turbine + fuel cell		Total	
	Unit	Capacity	Unit	Capacity	Unit	Capacity	Unit	Capacity	Unit	Capacity
FY 1970	1	7,260	-	-	11	60,500	-	-	12	67,760
1975	2	32,260	-	-	13	71,500	-	-	15	103,760
1980	3	36,110	-	-	15	81,500	-	-	18	117,610
1985	12	96,720	22	2,170	24	94,854	-	-	58	193,744
1990	122	817,617	187	50,439	537	865,066	-	-	846	1,733,122
1991	158	991,157	218	60,563	639	939,948	-	-	1,015	1,991,668
1992	180	1,082,937	238	71,772	713	1,001,016	-	-	1,131	2,155,725
1993	207	1,237,265	257	93,335	755	1,044,577	-	-	1,219	2,375,177
1994	229	1,361,290	278	113,127	816	1,105,505	-	-	1,323	2,579,922
1995	259	1,522,805	310	121,049	904	1,191,886	-	-	1,473	2,835,740
1996	305	1,819,770	326	131,833	999	1,286,726	-	-	1,630	3,238,329
1997	347	2,023,510	353	155,035	1,075	1,358,253	-	-	1,775	3,536,798
1998	388	2,212,830	370	161,436	1,158	1,427,402	-	-	1,916	3,801,668
1999	427	2,395,249	389	171,457	1,253	1,510,130	-	-	2,069	4,076,836
2000	567	2,524,165	437	189,009	1,398	1,664,228	-	-	2,402	4,377,402
2001	622	2,745,762	478	209,135	1,513	1,760,729	-	-	2,613	4,715,626
2002	669	2,881,378	538	279,215	1,709	1,901,279	-	-	2,916	5,061,872
2003	720	3,001,215	648	402,359	1,932	2,054,362	-	-	3,300	5,457,936
2004	750	3,175,024	780	649,411	2,238	2,303,733	-	-	3,768	6,128,168
2005	771	3,315,259	934	966,126	2,292	2,384,425	-	-	3,997	6,665,810
2006	778	3,376,246	1,083	1,284,089	2,289	2,380,825	-	-	4,150	7,041,160
2007	784	3,555,202	1,136	1,472,211	2,282	2,377,950	-	-	4,202	7,405,363
2008	782	3,563,701	1,165	1,499,200	2,279	2,382,650	-	-	4,226	7,445,551
2009	487	3,557,736	640	1,494,063	993	2,382,650	5	38,220	2,125	7,472,669
2010	760	3,555,067	1,123	1,520,149	2,230	2,283,110	28	43,750	4,141	7,402,076
2011	762	3,666,226	1,159	1,536,608	2,220	2,286,835	29	42,835	4,170	7,532,504
2012	785	3,761,359	1,366	1,719,455	2,134	2,170,389	40	140,880	4,325	7,792,083
2013	777	3,726,734	1,494	1,813,587	2,066	2,122,815	48	309,241	4,385	7,972,377
2014	775	3,796,894	1,590	1,882,899	2,033	2,101,399	58	322,919	4,456	8,104,111

Note:

A cogeneration system includes a system comprised of a steam turbine and steam boiler, and that of fuel cell.

However, a set of standalone fuel cell for a residence (Ene-firm) and a gas-engine system (Eco-will) are not included.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS IN JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.32 Sales amount of solar system

(Unit)

	Detached house	Apartment house	Residential and commercial		Industry	Total
				(Public)		
1975-1991	378,376	666	6,293	2,223	304	385,639
1992	16,300	5	42	21	3	16,350
1993	19,540	4	48	25	3	19,595
1994	23,141	5	88	57	2	23,236
1995	24,142	3	62	40	66	24,273
1996	24,341	5	87	47	62	24,495
1997	22,171	6	108	70	3	22,288
1998	15,971	8	124	72	0	16,103
1999	17,168	0	125	82	1	17,294
2000	14,957	10	131	76	2	15,100
2001	12,739	12	104	72	5	12,860
2002	14,538	0	92	53	0	14,630
2003	10,940	2	110	54	1	11,053
2004	9,554	2	110	61	0	9,666
2005	10,158	0	88	40	1	10,247
2006	6,618	0	56	24	0	6,674
2007	4,193	0	69	26	2	4,264
2008	4,605	0	52	20	9	4,666
2009	3,481	0	65	26	7	3,553
2010	5,670	10	68	39	1	5,749
2011	4,652	1	87	34	5	4,745
2012	4,632	390	98	27	18	5,138
2013	4,517	80	85	23	9	4,691
2014	3,781	197	70	24	5	4,053
Cumulative	656,185	1,406	8,262	3,236	509	666,362

Notes:

- Years are indicated by calendar year.
- Data for "Public" are included in "Residential and commercial".

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.33 Sales amount of solar system by use

(Unit)

1975 - 2014	Water heating	Space heating	Space cooling	Others	Cumulative Total
Detached house	637,421	18,595	88	81	656,185
Apartment house	1,380	12	11	3	1,406
Residential and commercial	6,965	702	421	174	8,262
(Public)	(2,572)	(352)	(212)	(100)	(3,236)
Industry	373	30	17	89	509
Total	646,139	19,339	537	347	666,362
Shares	96.97	2.90	0.08	0.05	100.00

Note:

Space heating includes water heating. Space cooling includes water cooling, water heating & cooling and heating & cooling system.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.34 Deployment of solar power, wind power and waste power generation

(ten thousand kW)

	Photovoltaic power generation	Wind power generation	Power generation from waste materials + Biomass generation
FY1994	-	1	54
1995	-	1	65
1996	-	1	76
1997	-	2	82
1998	-	4	93
1999	21	8	98
2000	33	14	110
2001	45	31	118
2002	64	46	162
2003	86	68	174
2004	113	93	201
2005	142	109	215
2006	171	149	210
2007	192	168	216
2008	214	185	237
2009	263	219	237
2010	362	244	240
2011	491	256	243
2012	689	264	244
2013	1,393	267	253
2014	2,332	289	263

Note:

Data in after FY2012 and onward are estimated by EDMC.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.35 Installed capacity and utilization of new energy

	Power						Heat					Total 10,000 KL	Share in TPES
	Photovoltaics		Wind		Waste+ biomass		Biomass	Solar	Waste	Unutilized energy*	Black liquor and waste wood		
	10,000 KL	10,000 KW	10,000 KL	10,000 KW	10,000 KL	10,000 KW	10,000 KL	10,000 KL	10,000 KL	10,000 KL	10,000 KL		
FY 1990	0.3		0.04	0.1	44	-	N.A.	132	2.7	0.8	477	657	1.2%
1991	0.4		0.1	0.3	47	-	N.A.	135	3.2	1.1	490	677	1.3%
1992	0.5		0.1	0.3	50	-	N.A.	136	3.6	1.3	478	670	1.2%
1993	0.6		0.2	0.5	53	-	N.A.	137	3.6	1.4	462	658	1.2%
1994	0.8		0.3	0.5	66	54	N.A.	138	3.5	2.4	449	660	1.1%
1995	1.1		0.4	1.0	81	65	N.A.	135	3.8	3.0	472	696	1.2%
1996	1.5		0.6	1.4	91	76	N.A.	130	4.4	3.3	477	708	1.2%
1997	2.3		0.9	2.2	101	82	N.A.	122	4.6	3.7	493	728	1.2%
1998	3.4		1.6	3.8	114	93	N.A.	110	4.4	4.1	457	695	1.2%
1999	5.3	20.9	3.5	8.3	120	98	N.A.	98	4.4	4.1	457	693	1.2%
2000	8.1	33.0	5.9	14.4	120	110	N.A.	89	4.5	4.5	490	722	1.2%
2001	11.0	45.2	12.7	31.2	130	118	N.A.	82	4.5	4.4	446	690	1.2%
2002	15.6	63.7	18.9	46.4	175	162	68.0	74	164.0	4.6	471	991	1.7%
2003	21.0	86.0	27.6	67.8	214	174	79.0	69	161.0	4.2	478	1,054	1.8%
2004	27.7	113.2	37.8	92.7	227	201	122.0	65	165.0	4.6	470	1,119	N.A.
2005	34.7	142.2	44.2	108.5	252	215	142.0	61	149.0	4.9	470	1,159	N.A.
2006	41.8	170.9	60.7	149.1	291	210	156.3	58	150.1	4.7	499	1,262	N.A.
2007	46.9	191.9	68.2	167.5	269	216	197.8	55	151.8	5.0	499	1,293	N.A.
2008	52.4	214.4	75.3	185.0	314	237	175.3	51	148.1	4.6	486	1,307	N.A.
2009	64.2	262.7	89.0	218.6	312	237	170.9	48	146.9	4.5	447	1,282	N.A.
2010	88.4	361.8	99.4	244.2	327	240	173.7	44	137.8	4.7	492	1,368	N.A.
2011	120.0	491.0	104.1	255.5	333	243	178.5	41	136.4	4.2	464	1,381	N.A.
2012	168.4	689.0	107.6	264.0	335	244	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2013	340.4	1,393.0	108.8	267.0	347	253	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2014	569.9	2,332.0	117.8	289.1	361	263	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Notes:

- * includes Snow/ice heat energy thermal utilization.
- Data in FY2012 and onward are estimated by EDMC.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.36 Population, Area and GDP by country and region

Country (region)	Notes	World Population and Area							
		Census population (1,000 people)			Mid-year population estimates (1,000 people)		Area (km ²)	Population density	
		Year	Total	Man	Woman	2010	2014	2014	2014
World			-	-	-	6,929,725	7,265,786	136,162,000	53
Asia			-	-	-				
Japan	ab	10	128,057	62,328 ^l	65,730	128,057	127,083	377,972	341
India	e	11	1,210,855	623,270 ^l	587,585	1,182,105	...	3,287,263	...
Indonesia	a	10	237,641	119,631 ^l	118,010	238,519	252,165	1,910,931	132
Kazakhstan		09	16,010	7,712 ^l	8,297	16,322	f 17,161	2,724,902	6
South Korea	a	10	h 48,580	h 24,167 ^l	h 24,413	49,410	50,424	100,266	503
Saudi Arabia		10	* 27,137	* 15,307 ^l	* 11,830	* 27,563	...	2,206,714	...
Singapore	a	10	3,772	1,861 ^l	1,911	j 5,077	j 5,470	718	7,618
Thailand	a	10	65,982	32,355 ^l	33,627	67,312	68,610	513,120	134
China		10	a 1,339,725	a 686,853 ^l	a 652,872	1,337,700	1,364,270	9,596,961	142
Turkey		11	*a 74,526	*a 37,431 ^l	*a 37,095	73,142	k 76,903	783,562	98
Pakistan	m	98	130,580	67,840 ^l	62,739	173,510	...	796,095	...
Bangladesh		11	144,044	72,110 ^l	71,934	148,620	156,880	147,570	1,063
Philippines	a	10	92,335	46,634 ^l	45,701	93,135	99,880	300,000	333
Malaysia	a	10	28,334	14,563 ^l	13,771	28,589	30,262	330,396	92
[Others]									
Taiwan	apq	10	22,673	11,305 ^l	11,368	23,162	23,434	36,010	647
Hong Kong	a	11	7,072	3,303 ^l	3,769	7,024	7,242	1,106	6,550
North America			-	-	-				
USA	a	10	308,746	151,781 ^l	156,964	309,326	...	9,833,517	...
Canada	a	11	33,477	16,414 ^l	17,062	34,005	* 35,540	9,984,670	4
Mexico		10	112,337	54,855 ^l	57,481	a 114,256	a 119,713	1,964,375	61
South America			-	-	-				
Argentina		10	40,117	19,524 ^l	20,593	40,788	42,674	2,780,400	15
Brazil		10	a 190,756	a 93,407 ^l	a 97,349	cnr 193,253	cnr 202,769	8,514,877	24
Europe			-	-	-				
Iceland	g	00	281	141 ^l	140	318	f 326	103,000	3
Ireland		11	4,588	2,273 ^l	2,316	4,560	af 4,606	69,797	66
UK	d	11	63,380	31,126 ^l	32,254	a 62,759	af 64,308	242,495	265
Italy	a	11	59,434	28,746 ^l	30,688	59,277	f 60,783	302,073	201
Ukraine		01	48,241	22,316 ^l	25,925	45,871	*d 42,988	603,500	71
Austria	a	11	8,402	4,094 ^l	4,308	8,361	f 8,507	83,871	101
Netherlands	a	02	16,105	7,972 ^l	8,133	16,615	fg 16,829	37,354	451
Greece		11	10,816	5,303 ^l	5,513	s 11,153	af 10,904	131,957	83
Switzerland		11	8,035	3,973 ^l	4,062	a 7,825	af 8,140	41,285	197
Sweden	g	11	9,483	4,727 ^l	4,756	9,378	f 9,645	450,295	21
Spain	a	11	46,816	23,104 ^l	23,712	46,562	fg 46,512	505,970	92
Slovakia	a	11	5,397	2,628 ^l	2,769	5,391	f 5,416	t 49,035	110
Czech Republic	a	11	10,437	5,110 ^l	5,327	10,474	f 10,512	78,867	133
Denmark	dg	11	5,561	2,757 ^l	2,804	5,545	5,640	42,921	131
Germany	a	11	80,220	39,146 ^l	41,074	81,757	f 80,767	357,340	226
Norway	an	11	g 4,980	g 2,496 ^l	g 2,484	4,889	fg 5,108	323,787	16
Hungary		11	9,938	4,718 ^l	5,219	a 10,000	af 9,877	93,024	106
Finland	a	10	5,375	2,638 ^l	2,737	dg 5,335	fg 5,451	d 336,855	16
France	asu	06	61,400	29,715 ^l	31,685	62,918	* 64,062	551,500	116
Belgium	a	11	11,001	5,402 ^l	5,599	10,896	f 11,204	30,528	367
Poland	anp	11	38,045	18,420 ^l	19,624	38,517	f 38,018	311,888	122
Portuguese		11	10,282	4,869 ^l	5,414	a 10,573	af 10,427	92,225	113
Luxembourg	a	11	512	255 ^l	257	507	f 550	2,586	213
Russia		10	143,436	66,457 ^l	76,979	a 142,849	...	17,098,246	...
Africa			-	-	-				
Egypt		06	72,798	37,219 ^l	35,579	78,685	86,814	1,002,000	87
Nigeria		06	140,432	71,345 ^l	69,086	...	...	923,768	...
South Africa		11	51,771	25,189 ^l	26,582	50,896	54,002	1,221,037	44
Oceania			-	-	-				
Australia		11	21,727	10,737 ^l	10,990	a 22,032	*a 23,491	7,692,024	3
New Zealand		06	4,143	2,021 ^l	2,122	a 4,351	a 4,510	268,107	17

Notes:

* indicates provisional or estimated values.

a: De jure population

b: "Census population" and "Mid-year population estimates" are compiled from "Population Census" and "Population Estimates."

"Area" is compiled from "Municipalities Area Statistics of Japan" by Geospatial Information Authority of Japan, Ministry of Land, Infrastructure, Transportation and Tourism.

The value of area used to calculate a population density does not include Habomai Islands, Shikotan Islands, Kunashiri islands, Etorofu islands, and Takeshima Island.

c: Excluding Nomad

d: Partially excluded

e: Includes Jammu and Kashmir

f: As of January 1st.

g: Registered population.

h: Excludes residents not present inside the country at the time of the survey.

j: As of June 30th.

k: Population based on address.

m: Includes Jammu and Kashmir

n: Includes citizens residing outside country.

p: Excludes foreigners.

q: According to Taiwan Executive Yuan. Mid-year population is population of the end of year.

r: Excludes the indigenous.

s: Includes foreign servicepersons.

t: Excludes inland waters.

u: Includes foreign diplomats living outside of embassies and consulates.

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications.

1.36 Population, Area and GDP by country and region

Country (Region)	Notes	Gross domestic product (Nominal GDP, in US dollars)							
		Nominal GDP (unit: million US \$)				Per capita (unit: US \$)			
		2005	2010	2013	2014	2005	2010	2013	2014
Asia									
Japan	a	4,578,144	5,514,059	4,909,995	4,605,511	35,835	43,064	38,560	36,230
India		820,980	1,668,768	1,936,088	2,054,941	717	1,356	1,513	1,586
Indonesia		304,372	755,094	910,479	888,538	1,345	3,125	3,624	3,492
Saudi Arabia		328,461	526,811	744,336	752,460	13,274	18,754	24,646	24,362
Singapore		127,418	236,420	302,246	307,872	28,343	46,549	55,920	55,910
Thailand		189,318	340,923	420,167	404,824	2,874	5,112	6,229	5,977
China		2,291,432	6,005,388	9,518,402	10,430,590	1,755	4,478	6,986	7,617
Turkey		482,986	731,144	823,256	798,414	7,117	10,111	10,801	10,299
Pakistan		117,708	174,508	221,286	251,255	768	1,026	1,221	1,358
Bangladesh		57,628	114,508	153,505	173,062	403	755	977	1,088
Philippines		103,072	199,591	272,067	284,582	1,197	2,145	2,788	2,871
Hong Kong		181,569	228,639	275,743	290,896	26,536	32,693	38,490	40,252
Malaysia		143,534	247,534	313,158	326,933	5,564	88,103	10,628	10,933
North America									
USA		13,093,720	14,964,380	16,663,160	17,348,072	44,215	48,291	52,543	54,306
Canada		1,164,179	1,614,072	1,838,964	1,785,387	36,092	47,297	52,198	50,169
Mexico		864,810	1,049,925	1,258,775	1,294,695	7,880	8,851	10,173	10,326
South America									
Argentina		222,911	464,757	623,932	543,490	5,694	11,274	14,668	12,645
Brazil		892,107	2,209,400	2,392,094	2,346,523	4,733	11,124	11,711	11,387
Europe									
Iceland		16,749	13,237	15,377	17,036	56,443	41,620	47,256	52,048
Ireland		211,383	220,063	238,260	250,814	50,285	47,660	51,005	53,648
UK		2,418,949	2,403,581	2,712,296	2,988,893	40,175	38,324	42,409	46,461
Italy		1,853,466	2,126,621	2,133,539	2,141,161	31,598	35,689	35,695	35,812
Austria		314,641	390,212	428,699	436,888	38,208	46,498	50,513	51,296
Netherlands		678,517	836,390	864,169	879,319	41,546	50,289	51,411	52,129
Greece		247,777	299,362	239,510	235,574	22,383	26,782	21,665	21,414
Switzerland		407,543	581,209	684,919	701,037	55,009	74,223	84,363	85,374
Sweden		389,043	488,378	578,742	571,090	43,083	52,053	60,134	58,856
Spain		1,157,248	1,431,588	1,369,262	1,381,342	26,388	30,720	29,475	29,861
Czech Republic		135,990	207,016	208,328	205,270	13,292	19,703	19,756	19,470
Denmark		264,559	319,812	338,927	346,119	48,832	57,614	60,261	61,294
Germany		2,861,339	3,417,095	3,745,317	3,868,291	35,218	42,483	46,488	47,966
Norway		308,722	428,527	522,746	500,519	66,760	87,611	102,833	97,226
Hungary		112,531	130,091	134,402	138,347	11,146	12,990	13,542	13,989
Finland		204,431	247,800	269,190	272,217	38,966	46,165	49,365	49,678
France		2,203,624	2,646,837	2,810,249	2,829,192	34,931	40,798	42,704	42,802
Belgium		387,356	483,549	521,402	531,547	36,676	44,241	46,749	47,348
Poland		304,412	479,243	524,056	544,959	7,914	12,424	13,570	14,111
Portuguese		197,300	238,303	226,073	230,117	18,826	22,514	21,614	22,122
Luxembourg		36,976	52,349	61,795	64,874	80,762	103,071	113,408	116,560
Russia		764,016	1,524,917	2,079,022	1,860,598	5,320	10,652	14,501	12,972
Africa									
Egypt		94,456	214,630	255,199	282,242	1,260	2,616	2,913	3,151
Tunisia		32,272	44,051	46,154	47,423	3,194	4,140	4,194	4,261
South Africa		257,772	375,348	366,060	349,819	5,331	7,271	6,853	6,482
Oceania									
Australia		762,114	1,291,430	1,528,761	1,471,439	37,590	58,270	65,695	62,290
New Zealand		114,722	146,583	189,494	198,652	27,746	33,551	42,437	44,189

Note:

a From "Annual Report on National Accounts of 2009" and "Annual Report on National Accounts of 2014" on the website of Economic and Social Research Institute, Cabinet office, Government of Japan.

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications.

1.37 Changes in world population

	World (million people)	Breakdown by region						Developed countries (%)	Developing countries (%)	Japan a) (1,000 person)	Average annual growth rate (%)	
		Asia	North America	South America	Europe	Africa	Oceania				World	Japan
1950	2,525	1,394	227	114	549	229	13	32.2	67.8	84,115	...	...
1955	2,758	1,534	249	130	577	254	14	31.3	68.7	90,077	1.8	1.4
1960	3,018	1,687	276	149	606	285	16	30.3	69.7	94,302	1.8	0.9
1965	3,322	1,875	302	171	635	322	18	29.1	70.9	99,209	1.9	1.0
1970	3,682	2,120	326	193	657	366	20	27.4	72.6	104,665	2.1	1.1
1975	4,061	2,378	351	217	677	416	21	25.8	74.2	111,940	2.0	1.4
1980	4,440	2,626	376	243	694	478	23	24.4	75.6	117,060	1.8	0.9
1985	4,853	2,897	402	271	708	550	25	22.9	77.1	121,049	1.8	0.7
1990	5,310	3,202	430	298	721	632	27	21.6	78.4	123,611	1.8	0.4
1995	5,735	3,475	459	324	728	720	29	20.4	79.6	125,570	1.5	0.3
1996	5,815	3,525	465	329	728	739	29	20.2	79.8	125,859	b 1.4	b 0.2
1997	5,894	3,573	472	334	728	757	30	20.0	80.0	126,157	b 1.4	b 0.2
1998	5,972	3,621	478	339	727	776	30	19.8	80.2	126,472	b 1.3	b 0.2
1999	6,049	3,668	485	345	727	795	31	19.6	80.4	126,667	b 1.3	b 0.2
2000	6,127	3,714	491	350	726	814	31	19.4	80.6	126,926	b 1.3	b 0.2
2001	6,204	3,761	496	355	726	834	31	19.2	80.8	127,316	b 1.3	b 0.3
2002	6,282	3,807	502	360	727	855	32	19.0	81.0	127,486	b 1.3	b 0.1
2003	6,361	3,853	507	365	727	876	32	18.9	81.1	127,694	b 1.2	b 0.2
2004	6,440	3,899	512	370	728	898	33	18.7	81.3	127,787	b 1.2	b 0.1
2005	6,520	3,945	518	375	729	920	33	18.5	81.5	127,768	b 1.2	b -0.0
2006	6,600	3,990	523	379	730	944	34	18.4	81.6	127,901	b 1.2	b 0.1
2007	6,682	4,035	529	384	731	968	35	18.2	81.8	128,033	b 1.2	b 0.1
2008	6,764	4,080	535	388	733	992	35	18.1	81.9	128,084	b 1.2	b 0.0
2009	6,846	4,125	541	393	734	1,018	36	17.9	82.1	128,032	b 1.2	b -0.0
2010	6,930	4,170	547	397	735	1,044	36	17.8	82.2	128,057	b 1.2	b 0.0
2011	7,013	4,215	552	401	736	1,071	37	17.6	82.4	127,799	b 1.2	b -0.2
2012	7,098	4,260	558	406	737	1,099	38	17.5	82.5	127,515	b 1.2	b -0.2
2013	7,182	4,305	563	410	738	1,128	38	17.3	82.7	127,298	b 1.2	b -0.2
2014	7,266	4,350	569	414	738	1,157	39	17.2	82.8	127,083	b 1.2	b -0.2
2015	7,349	4,393	574	418	738	1,186	39	17.0	83.0	126,890	1.2	-0.2
2020	7,758	4,598	600	438	740	1,340	42	16.3	83.7	124,100	1.1	-0.4
2025	8,142	4,775	624	456	738	1,504	45	15.7	84.3	120,659	1.0	-0.6
2030	8,501	4,923	646	471	734	1,679	47	15.1	84.9	116,618	0.9	-0.7
2035	8,839	5,045	666	484	728	1,866	50	14.6	85.4	112,124	0.8	-0.8
2040	9,157	5,144	683	494	721	2,063	52	14.1	85.9	107,276	0.7	-0.9
2045	9,454	5,218	697	502	714	2,268	54	13.6	86.4	102,210	0.6	-1.0
2050	9,725	5,267	710	507	707	2,478	57	13.2	86.8	97,076	0.6	-1.0

Notes:

a: "Population Census", "Population Estimates" by Ministry of Internal Affairs and Communications, Statistics Bureau and "Population Projection for Japan" by National Institute of Population and Social Security Research.

b: indicates a change to the previous year.

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications.

1.39 Major nations' environmental data ¹⁾

	Canada	Mexico	USA	Japan	South Korea	Australia	New Zealand	Austria
Land								
Total area (Thousand km ²)	9,985	1,964	9,832	378	100	7,741	268	84
Major conservation area (% of total area) 2)	5	6	4	9	7	9	29	28
Input amount of nitrogen fertilizer (t/ land area km ²)	2	1	3	9	21	0	2	3
Input amount of pesticide (t/ land area km ²)	0	-	0	1	1	-	-	0
Livestock density (head count rate of sheep/ land area km ²)	139	252	171	793	1,452	60	808	500
Woodland								
Woodland area (% of total area)	34	33	33	69	64	20	31	47
Utilization amount of forest resources (yield/ growth )	...	...	...	0	1	...	1	1
Import amount of wood (US \$/ population per person)3)	2	1	2	6	4	9	6	1
Species of danger of extinction								
Mammal species (% of total number of identified species)	20	32	17	23	7	24	19	27
Birds (% of total number of identified species)	10	16	12	13	5	13	20	27
Fishes (% of total number of identified species)	30	28	32	36	9	1	26	46
Water								
Amount of water intake (% of total annual amount of water available)	1	18	20	20	40	4	2	4
Public sewage treatment (% of penetration of population)	86	40	68	74	89	...	80	93
Amount of fish caught (% of total amount of caught fish)	1	2	5	5	2	0	1	-
Air								
Emission amount of sulfur oxides (kg / person)	44	...	28	6	8	119	17	3
(kg / GDP thousand US \$) 4)	1	...	1	0	0	3	1	0
Growth rate (%) (2000 - 2009)	-36	...	-42	-17	-18	11	5	-35
Emission amount of nitrogen oxides (kg / person)	60	...	43	14	25	77	35	22
(kg / GDP thousand US \$) 4)	2	...	1	1	1	2	1	1
Growth rate (%) (2000 - 2009)	-19	...	-35	-16	6	10	14	-9
Emission amount of carbon dioxide (t/person) 5)	15	4	17	9	11	18	7	8
(t/GDP thousand US \$) 4)	0	0	0	0	0	1	0	0
Growth rate (%) (2000 - 2009)	-2	14	-9	-8	18	17	2	3
Waste								
Industrial waste (kg / GDP thousand US \$) 4) 6)	...	...	...	40	30	10	10	...
Municipal solid waste (kg/person) 7)	390	360	720	380	390	600	580	580
Nuclear waste (t / ratio of total primary energy supply (heavy oil conversion million t) 8)	6	0	1	1	3	-	-	-
	Czech Republic	Denmark	Finland	France	Germany	Hellenic Republic	Hungary	Iceland
Land								
Total area (thousand km ²)	79	43	338	549	357	132	93	103
Major conservation area (% of total area) 2)	16	15	9	22	62	23	6	22
Input amount of nitrogen fertilizer (t/ land area km ²)	8	7	8	7	9	2	5	1
Input amount of pesticide (t/ land area km ²)	0	0	0	0	0	0	0	-
Livestock density (head count rate of sheep/ land area km ²)	245	835	321	469	650	219	159	58
Woodland								
Woodland area (% of total area)	34	13	73	29	32	30	22	0
Utilization amount of forest resources (yield/ growth )	...	...	1	...	1	...	...	...
Import amount of wood (US \$/ population per person)3)	1	6	2	6	3	3	-	1
Species of danger of extinction								
Mammal species (% of total number of identified species)	20	22	11	19	34	25	38	-
Birds (% of total number of identified species)	50	16	13	19	36	14	15	44
Fishes (% of total number of identified species)	42	16	12	36	30	32	43	-
Water								
Amount of water intake (% of total annual amount of water available)	12	4	2	17	17	13	5	0
Public sewage treatment (% of penetration of population)	76	90	80	80	94	67	57	57
Amount of fish caught (% of total amount of caught fish)	-	1	0	1	0	0	-	1
Air								
Emission amount of sulfur oxides (kg / person)	17	3	11	5	6	38	8	240
(kg / GDP thousand US \$) 4)	1	0	0	0	0	2	1	7
Growth rate (%) (2000 - 2009)	-34	-50	-27	-52	-32	-14	-84	119
Emission amount of nitrogen oxides (kg / person)	24	24	29	18	17	33	17	75
(kg / GDP thousand US \$) 4)	1	1	1	1	1	1	1	2
Growth rate (%) (2000 - 2009)	-22	-34	-27	-29	-28	3	-10	-12
Emission amount of carbon dioxide (t/person) 5)	11	9	10	6	9	8	5	6
(t / GDP thousand US \$) 4)	1	0	0	0	0	0	0	0
Growth rate (%) (2000 - 2009)	-10	-8	2	-6	-9	3	-11	-7
Waste								
Industrial waste (kg/GDP thousand US \$)4) 6)	30	10	100	50	20	...	30	-
Municipal solid waste (kg/person) 7)	310	830	480	530	590	480	430	550
Nuclear waste (t / ratio of total primary energy supply (heavy oil conversion million t) 8)	2	-	2	4	1	-	2	-

Notes: Data are as of March 2012.

... unclear or not available, - 0 or trace

1: The data is the latest published values. It includes provisional value and secretariat estimates.

The partial aggregate values are underlined. Comparability between countries is limited because of difference of definition on treatment.

2: Classification may be different depending on protected areas, which is without allocation category by management division I ~ IV of IUCN and IUCN, and nations.

3: Import of cork and wood from non-OECD tropical countries

4: GDP is price in 2005 and purchasing power conversion.

UK: pesticide Endangered species: Great Britain, Water intake and Public sewage treatment: England and Wales

5: Carbon dioxide is only emission amount form energy; Sectorial Approach: excluding fuel of international ships and aircrafts.

6: Waste is manufacturing industry only.

7: For Canada and New Zealand, household waste was only shown.

8: Waste (heavy metal conversion) from spent fuel of nuclear power plant per ratio of total primary energy supply (heavy oil conversion million t)

Source: OECD Environmental Data Compendium

1.39 Major nations' environmental data ¹⁾

	Ireland	Italy	Luxembourg	Netherlands	Norway	Poland	Portugal	Slovakia
Land								
Total area (Thousand km ²)	70	301	3	42	324	313	92	49
Major conservation area (% of total area) 2)	1.1	9.3	20.7	19.8	14.0	24.6	8.3	24.7
Input amount of nitrogen fertilizer (t/ land area km ²)	8.7	4.4	12.8	11.8	9.6	8.9	2.6	6.5
Input amount of pesticide (t/ land area km ²)	0.07	0.59	-	0.56	0.07	0.09	0.44	0.20
Livestock density (head count rate of sheep/ land area km ²)	1,123	407	991	1,995	852	312	399	212
Woodland								
Woodland area (% of total area)	10.6	30.8	33.5	10.8	32.7	30.6	37.7	40.2
Utilization amount of forest resources (yield/ growth)	0.9	...	...	...	0.4	0.5	...	...
Import amount of wood (US \$/ population per person)3)	3.7	3.7	3.6	21.1	2.5	1.0	8.8	0.4
Species of danger of extinction								
Mammal species (% of total number of identified species)	1.8	40.7	51.6	25.0	18.2	12.4	26.2	21.7
Birds (% of total number of identified species)	24.1	18.4	34.8	20.7	14.5	7.6	33.3	14.0
Fishes (% of total number of identified species)	33.3	35.1	27.9	60.0	-	28.6	62.9	24.1
Water								
Amount of water intake (% of total annual amount of water available)	2.3	24.0	2.9	11.8	0.8	18.3	12.4	0.8
Public sewage treatment (% of penetration of population)	62.8	93.8	94.8	99.4	78.6	64.2	70.0	57.9
Amount of fish caught (% of total amount of caught fish)	0.3	0.3	-	0.5	2.7	0.2	0.3	-
Air								
Emission amount of sulfur oxides (kg / person)	7.3	3.9	6.3	2.3	3.3	22.6	7.7	11.8
(kg / GDP thousand US \$) 4)	0.2	0.1	0.1	0.1	0.1	1.4	0.4	0.6
Growth rate (%) (2000 ~ 2009)	-77.0	-69.0	...	-48.0	-42.0	-43.0	-73.0	-50.0
Emission amount of nitrogen oxides (kg / person)	19.6	16.5	38.5	15.6	37.4	21.5	23.8	15.5
(kg / GDP thousand US \$) 4)	0.5	0.6	0.5	0.4	0.8	1.3	1.1	0.8
Growth rate (%) (2000 ~ 2009)	-35	-31	16	-31	-15	-2	-19	-21
Emission amount of carbon dioxide (t/person) 5)	8.8	6.5	20.2	10.7	7.7	7.5	5.0	6.1
(t/GDP thousand US \$) 4)	0.20	0.20	0.30	0.30	0.20	0.50	0.20	0.30
Growth rate (%) (2000 ~ 2009)	-3.4	-8.6	24.4	2.3	11.2	-1.4	-10.6	-11.2
Waste								
Industrial waste (kg / GDP thousand US \$) 4) 6)	30.0	20.0	20.0	30.0	20.0	90.0	40.0	80.0
Municipal solid waste (kg/person) 7)	660	540	710	610	470	320	520	300
Nuclear waste (t / ratio of total primary energy supply (heavy oil conversion million t) 8)	-	-	-	0.1	-	-	-	3.4

	Spain	Sweden	Switzerland	Turkey	UK	OECD
Land						
Total area (Thousand km ²)	505	450	41	784	244	36,138
Major conservation area (% of total area) 2)	8	11	33	2	28	8
Input amount of nitrogen fertilizer (t/ land area km ²)	3	5	3	4	6	2
Input amount of pesticide (t/ land area km ²)	0	0	0	-	0	0
Livestock density (head count rate of sheep/ land area km ²)	309	396	783	246	558	193
Woodland						
Woodland area (% of total area)	36	69	31	15	12	30
Utilization amount of forest resources (yield/ growth )	...	...	...	...	1	...
Import amount of wood (US \$/ population per person)3)	2	1	1	1	2	3
Species of danger of extinction						
Mammal species (% of total number of identified species)	13	18	33	14	8	...
Birds (% of total number of identified species)	27	18	36	4	2	...
Fishes (% of total number of identified species)	51	11	44	11	11	...
Water						
Amount of water intake (% of total annual amount of water available)	29	1	5	17	12	11
Public sewage treatment (% of penetration of population)	92	86	97	46	97	75
Amount of fish caught (% of total amount of caught fish)	1	0	-	1	1	30
Air						
Emission amount of sulfur oxides (kg / person)	9	3	2	11	7	16
(kg / GDP thousand US \$) 4)	0	0	-	1	0	1
Growth rate (%) (2000 ~ 2009)	-71	-28	-27	-44	-68	-40
Emission amount of nitrogen oxides (kg / person)	23	16	11	20	18	26
(kg / GDP thousand US \$) 4)	1	1	0	2	1	1
Growth rate (%) (2000 ~ 2009)	-23	-29	-23	38	-39	-25
Emission amount of carbon dioxide (t/person) 5)	6	5	6	4	8	10
(t/GDP thousand US \$) 4)	0	0	0	0	0	0
Growth rate (%) (2000 ~ 2009)	-0	-21	-0	28	-11	-5
Waste						
Industrial waste (kg / GDP thousand US \$) 4) 6)	20	100	-	20	20	40
Municipal solid waste (kg/person) 7)	560	480	710	390	540	540
Nuclear waste (t / ratio of total primary energy supply (heavy oil conversion million t) 8)	1	5	2	-	2	1

Source: OECD Environmental Data Compendium

1.40 Total amount of exports and imports by country and region

(Unit: million US \$)

Country (region)	Trading System	Exports	Imports
		2014	2014
World*		18,709,667	18,607,081
Asia			
Japan	General	690,202	811,882
India b	General	319,757	461,441
Indonesia	Special	176,341	178,182
Kazakhstan	General	78,238	41,213
South Korea	General	572,665	525,514
Saudi Arabia	Special	342,299	173,835
Singapore	General	409,769	366,247
Thailand	Special	225,240	228,200
China	Special	2,343,190	1,963,110
Turkey	Special	157,630	242,182
Pakistan	General	24,706	45,772
Bangladesh c	General	27,033	33,576
Philippines	General	61,927	67,546
Hong Kong	General	473,659	544,112
Malaysia	General	234,139	208,874
North America			
USA d	General	1,623,410	2,412,550
Canada e	General	469,980	465,908
Mexico eg	General	397,658	399,977
South America			
Argentina	Special	71,936	65,323
Brazil	General	225,102	237,531
Europe			
Iceland	General	4,980	5,240
Ireland	General	118,634	70,771
UK	General	477,934	663,718
Italy	Special	528,034	470,381
Austria	Special	169,186	171,338
Netherlands	Special	574,233	508,570
Hellenic Republic	Special	35,814	63,280
Switzerland	Special	227,605	195,148
Sweden	General	162,588	159,534
Spain	Special	318,860	351,452
Slovakia	Special	85,923	83,500
Czech Republic	Special	173,852	152,169
Denmark	Special	110,492	99,127
Germany	Special	1,505,467	1,217,949
Norway	General	142,301	88,053
Hungary	Special	112,438	103,942
Finland	General	74,112	76,464
France	Special	567,443	662,100
Belgium	Special	474,061	455,329
Poland	Special	216,666	219,859
Portugal	Special	64,060	77,742
Luxembourg	Special	15,069	23,545
Russia	General	497,909	286,669
Africa			
Egypt h	General	24,736	61,010
Nigeria c	General	...	44,598
South Africa e	General	91,203	99,904
Oceania			
Australia e	General	241,238	227,646
New Zealand	General	40,658	42,542

Notes:

* indicates provisional or estimated values.

a: Excluding the West Bank and Gaza strip area; Deducting re-exports and re-imports.

b: Excluding munitions, vessels and aircrafts etc.

c: 2013

d: Including trade with Puerto Rico and U.S. Virgin Islands, but excluding trade with other U.S. Territories (Guam, American Samoa etc.)

e: "Import" is indicated in terms of FOB price.

f: Excluding trade in Processing Zones

g: Excluding goods from bonded warehouses

h: "Import" excludes petroleum imports, except petroleum imports at the official prices. "Export" includes domestic exports.

Source: "World statistics 2016," Statistic Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.41 Energy balance by country and region (production amount, consumption amount) (FY2012)

(Unit: PJ)

Country (region)	Production of primary energy						Final energy consumption					Consumption per capita (PJ)
	Total	Solid	Liquid	Gas	Electric power	Thermal	Total	Energy-use				
								Non-energy use	Industry	Transportation	Other	
World	551,493	209,266	177,108	120,060	15,397	29,661	351,874	32,809	106,900	87,430	124,735	50
Asia												
Japan	1,186	430	25	128	314	288	12,982	1,612	3,452	3,110	4,809	102
UAE	8,128	...	6,286	1,841	...	...	2,132	75	1,366	396	294	232
Iran	13,471	110	7,804	5,492	46	20	7,075	939	* 1,725	1,762	2,650	93
India	26,206	22,211	1,801	1,429	410	355	* 22,437	1,356	8,764	1,016	* 11,301	* 18
Indonesia	18,358	13,132	2,025	2,817	46	* 339	* 7,572	331	* 2,636	1,807	* 2,798	* 31
Kazakhstan	7,029	2,211	3,375	1,415	28	...	1,757	27	961	223	547	108
South Korea	1,908	196	34	26	22	1,631	7,012	1,859	1,982	1,269	1,902	143
Kuwait	7,136	0	6,591	545	...	...	673	160	186	175	152	207
Saudi Arabia	26,010	...	23,236	2,773	0	...	5,527	2,228	844	1,672	783	195
Thailand	* 3,176	* 1,171	* 752	* 1,223	30	0	* 3,451	* 294	* 1,157	* 1,132	* 867	* 52
China	93,752	76,685	8,776	3,648	3,590	1,052	60,308	5,477	30,951	8,313	15,567	44
Turkey	1,282	799	100	27	229	126	3,550	299	1,018	731	1,502	48
Pakistan	* 2,220	617	* 167	* 1,279	* 107	* 49	* 2,327	* 121	* 714	* 520	* 972	* 13
Philippines	897	318	36	137	37	369	1,002	12	243	366	381	10
Malaysia	3,367	113	1,291	1,931	33	...	1,998	421	563	649	365	68
North America												
USA	75,771	23,501	17,669	23,667	1,546	9,387	60,846	4,297	10,735	25,532	20,282	192
Canada	17,227	1,862	7,477	5,451	1,412	1,025	8,629	1,078	2,475	2,480	2,596	248
Mexico	8,861	666	6,065	1,691	128	311	4,881	309	1,267	2,184	1,121	40
South America												
Argentina	3,160	101	1,453	1,430	107	69	2,495	202	680	756	856	61
Brazil	10,331	2,886	5,122	635	1,513	173	9,634	668	3,651	3,360	1,956	48
Venezuela	7,996	64	6,581	1,056	295	...	2,182	* 139	1,031	712	300	73
Europe												
UK	4,863	558	1,902	1,543	94	767	5,372	288	1,005	1,653	2,426	86
Italy a	1,337	257	254	344	267	214	5,168	332	1,184	1,545	2,107	85
Ukraine	3,554	1,743	145	645	40	980	3,089	257	1,053	483	1,296	68
Austria	555	256	49	74	168	9	1,185	75	335	335	441	140
Netherlands	2,711	109	120	2,419	19	44	2,570	618	526	485	941	154
Greece	437	379	9	4	36	9	720	30	126	239	325	65
Switzerland b	530	96	0	4	140	290	847	22	159	254	411	105
Sweden	1,493	460	26	5	310	692	1,280	76	369	326	509	135
Spain	1,459	416	32	14	282	715	3,650	253	860	1,266	1,270	78
Czech Republic	1,357	965	21	25	17	330	1,075	111	308	247	409	101
Germany	5,161	2,764	272	669	354	1,102	9,327	922	2,329	2,277	3,799	113
Norway	8,411	99	3,726	4,069	516	0	855	95	243	196	322	171
Hungary	442	131	55	76	4	176	686	81	96	162	346	69
Finland	717	389	12	2	62	252	955	43	332	180	400	177
France c	5,583	520	140	36	281	4,605	6,580	505	1,158	1,896	3,021	103
Belgium	660	176	18	7	19	441	1,768	323	496	362	587	160
Poland	2,990	2,741	56	167	24	1	2,780	196	597	702	1,285	73
Portugal	192	112	11	2	59	8	705	56	194	234	222	66
Romania	1,142	426	174	365	53	125	1,006	75	266	221	444	46
Russia	55,898	8,726	21,984	22,642	597	1,950	19,398	2,814	6,045	3,944	6,595	135
Africa												
Algeria	5,928	1	2,888	3,037	2	...	1,271	102	222	515	432	33
Egypt	3,670	221	1,485	1,912	53	...	2,421	289	640	458	1,033	30
Nigeria	11,347	4,531	5,386	1,409	20	...	* 4,869	47	* 426	362	* 4,034	* 29
South Africa	7,009	6,807	9	40	8	144	2,951	101	1,071	704	1,075	56
Libya	3,590	7	3,166	417	...	...	491	80	42	234	135	80
Oceania												
Australia	13,374	10,347	94	1,998	78	11	3,418	200	1,088	1,288	843	148
New Zealand	740	167	86	162	90	234	541	39	168	190	143	121

Notes:

* indicates provisional or estimated values.

a: Including San Marino and Vatican City

b: Including Liechtenstein

c: Including Monaco

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.42 Consumption of coal, oil, natural gas and electric power (2012)

Country (region)	Coal (excluding lignite)		Crude oil		Natural gas		Electric power	
	Consumption (1,000t)	Consumption per person (kg)	Consumption (1,000t)	Consumption per person (kg)	consumption (Trillion J)	Consumption per person (Million J)	Consumption (Million kWh)	Consumption per person (kWh)
World	6,396,941	904	3,788,564	535	132,152,822	18,667	22,653,471	3,200
Asia								
Japan	183,785	1,444	171,108	1,345	4,970,941	39,064	1,034,305	8,128
UAE	2,692	292	9,346	1,015	2,488,130	270,283	100,909	10,962
Iran	802	10	102,633	1,343	5,920,422	77,468	247,121	3,234
India	704,330	570	222,035	180	1,587,335	1,284	1,040,416	841
Indonesia	82,143	333	41,978	170	1,627,519	6,593	* 200,318	* 811
Kazakhstan	79,815	4,905	14,849	913	1,328,638	81,656	92,526	5,686
South Korea	123,620	2,523	127,373	2,599	2,118,443	43,231	534,618	10,910
Kuwait	...	...	47,537	14,625	706,024	217,205	62,655	19,276
Saudi Arabia	...	...	122,566	4,333	3,081,609	108,938	271,680	9604
Singapore	23	4	46,920	8,847	368,321	69,452	46,915	8,846
Thailand	18,404	276	48,520	727	* 1,716,137	* 25,696	175,125	2,622
China	a 3,800,332	a 2,760	466,847	339	5,514,335	4,004	4,976,774	3,614
Pakistan	* 6,539	* 36	* 11,079	* 62	* 1,421,566	* 7,935	* 96,501	* 539
Philippines	...	...	8,999	93	152,307	1,575	72,956	754
Hong Kong	11,720	1,640	...	...	* 96,571	* 13,509	48,722	6,816
Malaysia	25,057	857	27,141	928	1,347,529	46,085	134,458	4,598
North America								
USA	356,230	1,122	736,689	2,320	27,766,221	87,451	4,337,809	13,662
Canada	8,686	249	64,774	1,859	3,884,747	111,509	587,471	16,863
Mexico	1,930	16	65,735	544	2,747,314	22,734	289,622	2,397
South America								
Argentina	1,617	39	25,794	628	1,938,914	47,191	142,817	3,476
Brazil	23,618	119	86,628	436	1,216,175	6,122	592,753	2,984
Venezuela	289	10	54,560	1,821	1,255,066	41,899	126,996	4,240
Europe								
Ireland	2,422	529	3,068	670	186,751	40,812	28,006	6,120
UK	64,328	1,025	66,722	1,063	3,086,649	49,164	375,881	5,987
Italy b	24,746	406	73,639	1,209	2,854,263	46,856	342,380	5,621
Ukraine	73,586	1,616	3,890	85	2,001,755	43,966	187,411	4,116
Austria	3,489	412	8,349	986	344,926	40,752	75,426	8,911
Netherlands	12,790	765	50,729	3,035	1,535,289	91,856	119,615	7,157
Greece	351	32	20,547	1,847	170,361	15,314	62,744	5,640
Switzerland c	138	17	3,395	423	136,490	16,989	67,666	8,422
Sweden	2,776	292	20,791	2,186	46,827	4,923	146,989	15,454
Spain	26,583	569	59,245	1,267	1,311,377	28,048	286,360	6,125
Czech Republic	7,220	677	7,247	680	318,946	29,920	70,453	6,609
Denmark	4,249	759	7,503	1,340	162,096	28,957	35,941	6,421
Germany	60,400	729	95,068	1,148	3,247,995	39,227	609,270	7,358
Norway	795	159	14,464	2,896	193,643	38,776	130,029	26,038
Hungary	1,504	151	6,120	613	386,392	38,731	42,557	4,266
Finland	4,588	848	10,145	1,876	139,819	25,852	87,843	16,242
France d	16,823	263	56,787	888	1,778,012	27,793	519,754	8,124
Bulgaria	2,240	308	5,894	810	114,028	15,668	39,021	5,362
Belarus	358	38	21,674	2,304	787,967	83,781	38,400	4,083
Belgium	4,812	435	31,649	2,862	668,306	60,425	93,007	8,409
Poland	76,070	1,991	25,153	658	632,719	16,559	159,299	4,169
Portugal	4,873	460	11,054	1,042	182,946	17,253	54,509	5,141
Romania	275	13	8,824	406	503,017	23,122	59,298	2,726
Russia	176,091	1,230	261,203	1,824	18,008,763	125,786	1,054,252	7,364
Africa								
Algeria	0	0	19,875	516	1,303,345	33,869	57,348	1,490
Egypt	* 926	* 11	26,325	326	1,888,897	23,400	164,231	2,035
Nigeria	48	0	4,726	28	586,938	3,476	28,706	170
South Africa	185,157	3,534	21,371	408	187,756	3,584	252,890	4,827
Libya	...	...	8,206	1,333	217,740	35,378	34,027	5,529
Oceania								
Australia	19,057	827	30,261	1,313	1,385,474	60,106	248,941	10,800
New Zealand	213	48	5,514	1,236	178,680	40,064	44,295	9,932

Notes:

* indicates provisional or estimated values.

a. Including lignite

b. Including San Marino and Vatican city

c. Including Liechtenstein

d. Including Monaco

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.43 Production of mining industry (energy resource)

Coal (2012)		Crude oil (2012)	
Country(region)	(1,000 t)	Country(region)	(1,000 t)
China a	3,645,000	Russia	497,425
India	557,707	Saudi Arabia	487,969
USA	441,262	USA	320,925
Indonesia	385,899	China	207,478
Australia	317,328	Iran	165,436
Russia	278,309	Kuwait	148,833
South Africa	258,575	Venezuela	147,824
Kazakhstan	112,779	Iraq	144,902
Colombia	89,024	Mexico	132,183
Poland	79,234	UAE	127,806
Ukraine	65,523	Canada	118,619
Vietnam	40,512	Nigeria	113,704
Canada	35,375	Brazil	95,652
North Korea	25,800	Angola	85,433
Mongolia	23,737	(Japan)	240

Natural gas (2012)		Uranium ore (2012)	
Country(region)	(1,000 trillion joules)	Country(region)	(t)
USA	26,002	Kazakhstan	21,240
Russia	25,158	Canada	8,998
Qatar	6,572	Australia	7,009
Iran	6,102	Namibia	5,026
Canada	6,045	Niger	4,821
Norway	4,520	Russia	2,862
China	4,054	Uzbekistan	2,400
Algeria	3,374	USA	1,667
Indonesia	3,130	China	1,450
Saudi Arabia	3,082	Malawi	1,103
Netherlands	2,674	Ukraine	1,012
Turkmenistan	2,616	South Africa	467
Uzbekistan	2,377	India b	400
Australia	2,200	Brazil	383
(Japan)	142	Czech Republic	228

Notes:

a: Includes lignite

b: 2011

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.44 Electric power generation

Country (region)	Amount of power generated in 2012 (1 million kWh)				Generating capacity (1,000 kW) 2012
	Total	Thermal power	Hydroelectric power	Nuclear power	
World	22,637,312	15,742,955	3,741,295	2,461,422	5,419,907
Asia					
Japan	1,034,305	920,311	83,645	15,939	295,231
Iran	254,243	239,752	12,447	1,847	68,894
India	1,035,264	a 888,538	113,855	32,871	259,854
Indonesia	* 197,328	* 175,109	12,799	...	51,351
Uzbekistan	52,500	41,290	11,210	...	* 12,722
Kazakhstan	91,207	83,567	7,637	...	* 18,736
Qatar	34,787	34,787	...	...	7,830
South Korea	534,618	374,116	7,652	150,327	94,189
Saudi Arabia	271,680	271,679	...	...	62,132
Singapore	46,915	46,915	...	...	* 10,478
Thailand	166,471	158,013	8,431	...	* 47,456
China	4,987,553	3,892,814	872,107	97,394	* 1,012,871
Turkey	239,496	174,872	57,865	...	57,059
Pakistan	* 96,126	* 61,716	* 29,857	* 4,553	23,914
Bangladesh	49,039	48,262	777	...	8,100
Philippines	72,956	52,360	10,269	...	17,052
Hong Kong	38,752	38,750	...	...	12,625
Malaysia	134,373	125,319	9,054	...	29,143
North America					
USA	4,290,547	3,019,949	298,287	801,129	1,067,878
Canada	634,449	147,296	380,622	94,862	134,203
Mexico	293,862	243,707	31,855	8,770	62,136
South America					
Argentina	135,207	98,719	29,716	6,395	35,023
Colombia	60,805	12,639	48,111	...	14,478
Brazil	552,498	116,068	415,342	16,038	120,973
Venezuela	126,516	44,508	82,008	...	27,502
Europe					
Ireland	27,592	22,568	1,014	...	8,770
UK	363,837	264,405	8,251	70,405	94,499
Italy b	299,277	216,811	43,854	...	124,234
Ukraine	198,878	97,126	10,994	90,137	55,001
Austria	72,616	22,123	47,681	...	c 22,917
Netherlands	102,505	93,103	104	3,915	29,920
Greece	60,959	50,824	4,591	...	22,307
Switzerland	69,866	3,712	40,305	25,441	20,310
Sweden	166,562	16,283	79,058	64,037	37,843
Spain	297,559	150,312	24,162	61,470	112,468
Czech Republic	87,573	51,824	2,860	30,324	20,447
Denmark	30,727	20,336	17	...	14,072
Germany	629,812	423,424	27,849	99,460	177,291
Norway	147,845	3,323	142,964	...	32,283
Hungary	34,590	17,806	213	15,793	9,400
Finland	70,399	29,725	16,859	22,987	16,908
France d	564,275	55,273	63,595	425,406	129,243
Bulgaria	47,329	25,518	3,976	15,785	11,637
Belgium	83,071	35,992	1,659	40,295	20,769
Poland	162,139	154,926	2,465	...	35,283
Portugal	46,614	29,151	6,660	...	19,752
Romania	59,045	32,594	12,337	11,466	21,767
Russia	1,070,734	725,399	167,319	177,534	232,685
Africa					
Egypt	164,628	150,010	13,121	...	31,486
South Africa	257,919	239,831	4,860	13,075	* 44,820
Oceania					
Australia	248,941	227,253	14,083	...	63,222
New Zealand	44,295	13,092	22,894	...	9,494

Notes:

* indicates provisional or estimated values.

a: Includes wind power generation

b: Includes San Marino and Vatican city

c: Total maximum output

d: Includes Monaco

1.45 Reserves of coal, crude oil, natural gas and uranium

Country (region)	Anthracite/ Bituminous coal (million t)	Subbituminous coal /Lignite (million t)	Crude oil a (million t)	Natural gas (billion m ³)	Uranium (t)
Asia					
Japan	340	10	8	51	6,600
UAE	...	...	13,340	6,432	...
Iraq	...	...	15,686	3,170	...
Iran	1,203	...	20,624	29,610	700
India	56,100	4,500	777	1,074	77,000
Indonesia	1,520	4,009	532	3,186	8,400
Uzbekistan	47	1,853	81	1,745	64,300
Kazakhstan	21,500	12,100	4,092	3,000	402,400
Qatar	...	...	3,465	25,172	...
Kuwait	...	...	13,845	1,780	...
Saudi Arabia	...	...	36,201	7,569	...
China	62,200	52,300	2,789	3,090	109,500
Turkey	529	1,814	43	6	7,300
Mongolia	1,170	1,350	2	...	30,600
North America					
USA	108,501	128,794	4,215	7,022	472,100
Canada	3,474	3,108	678	1,754	421,900
Mexico	860	351	1,367	360	2,800
South America					
Argentina	...	500	355	399	8,600
Colombia	6,366	380	260	124	...
Brazil	...	4,559	2,053	245	155,700
Venezuela	479	...	28,780	4,983	...
Peru	44	100	79	335	1,300
Europe					
UK	228	500	382	292	...
Ukraine	15,351	18,522	54	787	143,300
Spain	200	330	20	3	14,000
Serbia	9	13,761	11	48	...
Czech Republic	192	908	2	4	300
Denmark	...	...	111	66	...
Germany	99	40,600	21	126	3,000
Norway	1	5	726	2,215	...
Hungary	13	1,647	5	67	...
France b	95	21	14	7	11,500
Poland	4,338	1,371	16	75	...
Russia	49,088	107,922	8,184	44,900	218,300
Africa					
Algeria	59	...	3,170	4,504	19,500
Egypt	16	22	600	2,170	...
Gabon	...	...	505	29	4,800
Zimbabwe	502	...	...	...	1,400
Nigeria	21	169	5,074	5,292	...
Namibia	...	...	...	20	362,600
Niger	70	...	...	...	340,600
South Africa	30,156	...	2	10	192,900
Libya	...	...	6,424	1,540	...
Oceania					
Australia	37,100	39,300	450	819	1,180,100
New Zealand	33	538	20	46	...

Notes:

* indicates provisional or estimated values.

a: Includes natural gas liquids (NGL)

b: Includes Monaco

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.46 World new energy supply

	Wind power generation (cumulative installed wind turbine capacity at the year-end, million kW)				Solar photovoltaic (cumulative photovoltaic power capacity at the year-end, million kW)			
	2000	2005	2010	2014	2000	2005	2010	2014
North America	275.2	986.7	4,505.4	7,834.0	4.0	22.6	235.2	2,016.6
USA	261.0	918.1	4,027.4	6,614.6	1.9	19.0	204.0	1,828.0
Canada	13.9	68.3	401.1	968.4	0.7	1.7	28.1	171.0
Mexico	0.3	0.3	76.9	251.0	1.4	1.9	3.1	17.6
Latin America	9.6	19.3	160.6	966.3	-	-	-	36.8
Brazil	2.2	2.9	93.1	622.8	N.A.	N.A.	N.A.	N.A.
Europe	1,313.3	4,089.7	8,609.6	13,534.6	15.1	233.0	3,097.1	8,836.0
UK	42.5	133.6	539.7	1,280.9	0.2	1.1	9.5	522.8
Germany	609.7	1,839.0	2,719.1	4,050.0	7.6	205.6	1,790.0	3,820.0
France	6.3	77.5	594.0	914.3	1.1	2.6	120.4	566.0
Italy	42.4	171.3	579.3	855.6	1.9	3.8	350.2	1,846.0
Spain	235.8	1,001.3	1,971.5	2,298.7	0.2	4.9	435.0	535.8
Russia	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Turkey	1.9	2.0	132.0	376.2	0.0	0.2	0.6	5.8
Africa	13.7	27.8	111.3	287.8	-	-	4.0	96.6
Middle East	1.8	3.0	10.1	15.7	-	0.1	7.0	73.1
Asia/Oceania	179.8	792.2	6,376.6	14,657.7	38.4	161.2	591.6	6,331.6
China	35.2	126.4	4,478.1	11,460.9	1.9	6.8	80.0	2,819.9
Japan	14.2	115.9	242.9	284.0	33.0	142.2	361.8	2,330.0
South Korea	0.6	8.9	34.2	55.3	0.4	1.9	65.6	238.4
Indonesia	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Malaysia	N.A.	N.A.	N.A.	N.A.	-	-	1.3	16.0
Philippines	-	-	-	21.6	N.A.	N.A.	N.A.	N.A.
Thailand	-	-	0.1	22.3	-	2.4	4.9	129.9
India	122.0	443.0	1,306.5	2,246.5	0.1	1.8	17.7	306.2
Australia	3.0	71.7	208.4	405.6	2.9	6.1	57.1	413.6
New Zealand	3.5	16.7	49.5	60.3	N.A.	N.A.	N.A.	N.A.
World	1,793.4	5,918.6	19,773.6	37,296.1	127.5	508.3	4,134.5	18,039.6

	Geothermal power generation (cumulative geothermal power capacity at the year-end, million kW)				Biomass power generation (annual production, million t oil equivalent)			
	2000	2005	2010	2014	2000	2005	2010	2014
North America	367.1	385.2	427.2	435.9	310.5	761.2	2,632.2	3,125.2
USA	282.8	289.3	330.8	352.5	300.0	747.8	2,556.8	3,005.6
Canada	N.A.	N.A.	N.A.	N.A.	10.5	13.3	74.1	114.3
Mexico	84.3	96.0	96.5	83.4	-	-	1.3	5.3
Latin America	40.2	42.4	51.0	62.0	526.3	809.3	1,811.8	2,029.4
Brazil	N.A.	N.A.	N.A.	N.A.	522.6	783.5	1,557.5	1,665.6
Europe	102.1	112.3	168.7	210.5	72.3	316.0	1,132.2	1,168.3
UK	N.A.	N.A.	N.A.	N.A.	-	3.9	30.4	48.2
Germany	-	0.0	0.8	2.7	18.9	152.5	288.8	268.4
France	0.4	1.5	1.6	1.7	31.6	43.9	226.9	226.9
Italy	78.5	79.1	88.3	91.6	7.0	34.0	67.0	43.2
Spain	-	-	-	-	7.0	28.2	126.7	93.8
Russia	2.3	7.9	8.2	8.2	N.A.	N.A.	N.A.	N.A.
Turkey	2.0	2.0	9.4	36.8	N.A.	N.A.	N.A.	N.A.
Africa	5.2	17.4	21.6	59.7	0.6	0.6	3.2	2.1
Middle East	N.A.	N.A.	N.A.	N.A.	-	-	0.4	0.4
Asia/Oceania	344.9	382.2	446.6	491.4	8.2	83.4	395.3	753.8
China	2.8	2.8	2.4	2.7	-	62.2	147.9	208.3
Japan	53.5	53.4	50.2	53.9	N.A.	N.A.	N.A.	N.A.
South Korea	N.A.	N.A.	N.A.	N.A.	-	0.9	49.1	30.2
Indonesia	59.0	85.0	119.3	140.1	-	0.9	71.8	244.4
Malaysia	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Philippines	193.1	197.8	196.6	191.7	N.A.	N.A.	N.A.	N.A.
Thailand	0.0	0.0	0.0	0.0	-	5.2	66.1	140.2
India	N.A.	N.A.	N.A.	N.A.	8.2	11.4	11.3	32.0
Australia	-	0.1	0.1	0.1	-	2.0	19.8	15.2
New Zealand	36.5	42.5	72.3	97.1	N.A.	N.A.	N.A.	N.A.
World	859.4	939.6	1,115.2	1,259.4	917.9	1,970.4	5,975.2	7,079.2

Notes:

- Geographical grouping is based on BP statistics.
- Biomass power generation includes ethanol fuel and biodiesel fuel.

Source: "2016 EDMC HANDBOOK of ENERGY & ECONOMIC STATISTICS in JAPAN," the Energy Data and Modelling Center (EDMC), the Institute of Energy Economics, Japan (IEEJ)

1.47 Transport volume by railways

Country (region)	Passengers (million people/km)				Freight (million ton Km)			
	2000	2010	2011	2012	2000	2010	2011	2012
Asia								
Japan a	384,906	395,067	404,396	413,970	22,131	19,998	20,471	21,029
Azerbaijan	493	917	660	591	5,770	8,250	7,846	8,212
Israel	781	1,986	1,927	1,927	1,173	1,062	1,099	1,099
Iran	7,119	16,814	17,877	17,172	14,179	20,247	21,008	22,604
India	457,022	903,465	978,508	978,508	312,371	600,548	625,723	625,723
Indonesia	19,228	...	20,283	20,283	5,009	...	7,166	7,166
Uzbekistan	2	2,905	3,025	3,025	15	22,282	22,482	22,482
Kazakhstan	10,215	15,448	16,595	18,498	124,983	213,174	223,584	235,846
South Korea	28,527	33,027	21,603	21,603	19,803	9,452	9,996	9,996
Georgia b	453	655	641	641	3,912	6,228	6,055	6,055
Saudi Arabia	270	337	297	297	849	1,748	1,852	1,852
Syria	197	1,120	1,857	1,857	1,568	2,370	2,206	2,206
Sri Lanka c	3,208	4,767	...	4,767	88	135	...	135
Thailand	9,935	8,037	7,504	7,504	3,384	3,161	2,455	2,455
China	453,260	791,158	815,699	795,639	1,377,049	2,451,185	2,562,635	2,518,310
Turkey	5,833	5,491	5,882	4,598	9,895	11,030	10,735	10,691
Pakistan	19,292	24,731	20,619	20,619	3,799	6,187	1,757	1,757
Bangladesh	...	7,305	7,305	7,305	...	710	710	710
Vietnam	3,200	4,378	4,571	4,558	1,955	3,901	4,101	3,959
Malaysia	1,241	1,527	965	3,293	918	1,384	1,535	3,071
Mongolia	1,067	1,220	1,399	1,399	4,283	10,287	11,418	11,418
Jordan	2	...	504	504	671	353	344	344
North America								
USA	8,852	9,518	9,518	9,518	c 2,145,632	2,468,738	2,524,585	2,524,585
Canada	1,533	2,875	2,886	2,781	321,894	322,741	254,069	352,535
Cuba c	1,737	1,285	...	1,285	808	1,351	...	1,351
Mexico	82	178	449	449	48,333	...	69,185	69,185
South America								
Argentina	8,939	...	8,588	8,588	8,696	12,025	12,111	12,111
Uruguay c	9	15	...	15	239	284	...	284
Chile	737	840	840	840	3,135	4,032	4,032	4,032
Brazil	5,852	...	...	...	154,870	267,700	267,700	267,700
Peru	107	76	76	76	874	900	900	900
Europe								
Ireland	1,389	1,678	1,638	1,578	491	92	105	91
UK	38,200	55,019	62,729	64,324	18,100	...	19,230	b 19,230
Italy	47,133	44,535	40,554	38,676	25,839	12,037	11,545	11,249
Ukraine	51,767	50,240	50,569	49,203	172,840	218,091	243,866	237,722
Estonia	263	248	243	237	8,102	6,261	6,034	4,807
Austria	8,206	10,306	10,421	10,353	17,110	23,104	16,899	21,683
Netherlands	14,666	15,400	16,808	17,098	4,522	...	...	...
Greece	1,629	...	1,413	1,413	427	538	538	538
Croatia	...	1,742	1,486	1,104	...	2,618	2,438	2,332
Switzerland	12,620	17,609	18,021	17,738	9,937	8,725	8,747	8,110
Sweden	...	6,774	6,431	6,415	...	b 11,500	...	c 11,500
Spain	19,958	22,304	22,681	22,387	12,071	7,844	8,019	7,507
Slovakia	2,870	2,291	2,413	4,863	11,234	7,669	7,290	7,262
Slovenia	705	813	773	742	2,857	3,283	3,584	3,227
Czech Republic	7,300	6,553	6,635	6,907	17,496	13,592	13,872	11,423
Denmark	5,327	7,405	10,102	7,644	2,025	...	...	...
Germany	75,111	78,582	79,228	80,210	77,500	105,794	111,980	105,894
Norway	2,707	2,674	2,663	2,764	2,955	...	...	d 2,092
Hungary	9,693	5,398	5,760	5,887	8,095	1,000	733	1,179
Finland	3,405	3,959	3,882	4,035	10,107	9,760	9,395	9,275
France	69,870	86,853	88,064	85,634	55,450	22,840	23,242	31,616
Bulgaria	3,472	2,100	2,068	1,876	5,538	3,061	3,291	2,850
Belarus	17,722	7,578	7,941	8,977	31,425	46,224	49,406	48,351
Belgium	7,755	10,493	10,848	10,848	7,674	5,439	5,439	5,439
Poland	24,093	15,715	15,724	14,720	54,448	34,266	37,189	32,904
Portugal	3,834	3,718	3,750	3,443	2,569	1,932	2,064	2,064
Latvia	715	79	79	89	f 13,310	17,164	17,164	16,930
Lithuania	611	373	389	403	8,918	13,431	15,088	14,172
Romania	11,632	5,248	4,814	4,148	16,354	9,134	13,539	11,200
Luxembourg	332	345	349	373	678	189	189	189
Russia	167,100	139,028	139,842	144,612	1,373,000	2,011,308	2,127,212	2,222,388
Africa								
Algeria	1,142	1,045	1,040	1,040	1,980	1,281	1,248	1,248
Egypt	57,859	40,837	40,837	40,837	4,184	3,840	1,592	1,592
Ghana c	83	c 85	...	c 85	165	c 181	...	181
Cameroon	711	377	495	495	1,063	978	1,057	1,057
Kenya e	302	e 226	...	e 226	1,557	e 1,399	...	e 1,399
Republic of Congo	...	37	25	22	...	193	158	170
Tunisia	1,258	1,493	...	1,534	2,274	2,073	2,024	2,024
South Africa f	3,930	18,865	...	f 18,865	106,786	f 113,342	113,342	f 113,342
Morocco	1,956	4,398	4,819	4,819	4,650	5,572	5,976	5,976
Oceania								
Australia	e 99	1,500	...	f 1,500	134,200	64,172	59,649	59,649

Notes:

a. From "Railway transport volume statistics 2014," Ministry of Land, Infrastructure, Transport and Tourism.

b. Year 2011. c. Year 2008. d. Year 2005. e. Year 2006 f. Year 2010

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.48 Present status of roads

(Unit: km)

Country (region)	Year	Road extension	Road extension			Paving rate (%)	Road extension per 1 km ²	Road-related expenditures (million US dollar)
			Major highway	Secondary Road	others			
Asia								
Japan a	12	341,509	59,287	91,440	190,782	...	0.90	...
Israel	12	18,716	6,592	...	12,124	100.00	0.85	...
Iraq	12	59,623	...	...	...	...	0.14	bc 244
Iran	12	276,597	36,369	44,454	195,775	63.73	0.16	...
India	12	4,865,394	d 76,818	1,186,647	3,601,929	55.46	1.48	7,698
Indonesia	12	501,969	d 38,570	53,642	409,757	e 57.01	0.26	...
South Korea	12	105,703	17,810	18,162	69,731	83.43	1.06	f 10,609
Saudi Arabia	05	221,372	13,596	33,924	173,852	21.47	0.10	550
Singapore	12	3,426	813	561	2,051	100.00	4.83	ch 1,265
China	12	4,237,508	170,471	331,455	3,735,582	66.04	0.44	ej 219,902
Turkey	12	394,748	33,502	31,880	329,366	91.52	0.50	f 7,768
Pakistan	11	262,567	9,488	102,003	151,076	72.57	0.33	...
Hong Kong	12	2,090	k 2,090	...	...	100.00	1.91	h 657
Malaysia	12	180,882	...	...	...	78.06	0.55	cm 347
Myanmar	12	39,082	19,503	19,579	...	45.66	0.06	j 889
North America								
USA	12	6,586,623	101,866	1,932,222	4,552,535	n 67.37	0.67	h 189,677
Canada	09	1,409,000	103,000	115,000	1,191,000	p 39.87	0.14	hj 28,908
Mexico	12	377,660	49,652	83,982	244,026	38.72	0.19	f 5,560
South America								
Argentina	12	228,512	d 39,620	188,892	...	34.61	0.08	b 305
Colombia	12	214,946	d 17,423	43,327	154,196	...	0.19	g 582
Chile	12	77,571	...	...	...	24.03	0.10	bj 1,473
Brazil	12	1,584,104	d 100,183	222,176	1,261,745	13.88	0.19	bc 4,227
Peru	12	149,660	d 26,495	29,030	94,136	12.50	0.12	jp 320
Europe								
Ireland	12	96,002	5,413	11,631	78,958	100.00	1.37	jp 864
UK	12	420,346	52,809	122,743	244,795	100.00	1.73	j 12,431
Italy	05	487,700	28,200	147,400	312,100	m 100.00	1.62	...
Austria	12	124,588	12,196	23,642	88,750	100.00	1.49	m 3,615
Netherlands	12	139,295	5,120	7,802	126,373	...	3.35	gj 1,469
Greece	12	116,960	10,496	30,864	75,600	...	0.89	...
Switzerland	12	71,513	19,822	51,691	...	100.00	1.73	8,346
Spain	12	666,648	26,525	139,070	501,053	...	1.32	7,074
Slovakia	12	54,869	3,965	3,637	47,267	100.00	1.12	652
Czech Republic	12	130,636	7,001	48,715	74,919	...	1.66	cg 2,078
Denmark	12	74,108	3,832	0	70,276	100.00	1.72	j 3,486
Germany	12	643,517	52,483	178,034	413,000	...	1.80	...
Hungary	12	201,941	8,351	23,341	170,249	37.88	2.17	c 282
Finland	12	78,894	14,108	13,550	51,236	66.21	0.23	c 1,119
France	12	1,062,693	20,385	377,965	664,343	h 100.00	1.94	31,410
Belgium	11	154,012	14,663	1,349	138,000	78.25	5.04	br 351
Portugal	11	22,161	8,991	4,420	8,750	...	0.24	...
Romania	12	112,524	16,887	67,298	28,339	...	0.47	4,107
Russia	12	1,283,400	...	...	...	72.30	0.08	s 15,651
Africa								
Egypt	10	137,430	23,979	113,451	...	92.21	0.14	529
Kenya	12	160,886	d 14,092	10,725	136,069	7.45	0.28	1,266
Tunisia	12	19,431	5102.00	6496.00	7833.00	76.84	0.12	j 394
Morocco	11	58,698	12,762	10,091	35,844	70.56	0.13	gj 210
Oceania								
Australia	12	900,083	233,161	...	666,922	b 43.16	0.12	20,248
New Zealand	12	94,160	d 10,916	t 83,244	...	66.65	0.35	j 2159

Notes:

- a. includes only roads 5.5m wide or wider .
- b. 2009.
- c. excludes expenditure of local governments and private sector.
- d. excludes highways.
- e. 2011.
- f. excludes expenditure of local governments.
- g. 2000.
- h. 2010.
- j. excludes expenditure of the private sector.
- k. only highways.
- m. 2003.
- n. 2008.
- p.2004.
- r. excludes expenditure of the state and private sector.
- s. 2006.
- t. includes "others."

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.49 Car ownership in each country

(Unit : 1,000 cars)

Country (region)	Year	Vehicles (with four wheels or more)			Two-wheelers	Number of cars per 1,000 people (cars)	
		Passenger cars	Buses	Trucks			
Asia							
Japan a	15	75,237	60,517	228	14,492	3,590	593
Azerbaijan	12	1,118	953	30	135	2	120
Israel	12	2,642	2,269	26	346	119	334
Iran	08	8,160	8,160	...	...	6,290	112
India	12	30,784	21,533	1,595	7,656	115,478	25
Indonesia	12	17,992	10,432	2,274	5,286	76,381	73
Kazakhstan	11	4,066	3,554	98	414	50	246
South Korea	12	18,871	14,577	987	3,307	...	377
Cambodia	05	285	247	4	34	680	49
Cyprus	12	593	475	4	114	41	525
Kuwait	12	1,604	1,342	27	235	...	493
Saudi Arabia	05	4,447	3,206	113	1,128	16	...
Syria	10	1,503	741	63	698	381	70
Singapore	12	798	620	17	160	144	150
Sri Lanka	10	1,000	410	84	506	2,630	48
Thailand	12	13,213	5,972	557	6,684	19,169	198
Taiwan	12	7,146	6,091	31	1,023	15,140	308
China	12	108,378	86,831	2,599	18,947	102,112	80
Turkey	12	11,784	8,649	632	2,503	2,658	159
Bahrain	12	490	413	11	66	10	372
Pakistan	11	3,571	2,822	126	623	5,470	20
Bangladesh	12	570	290	104	176	1,161	4
Philippines	12	3,347	852	34	2,461	4,117	35
Brunei	11	144	133	2	10	3	355
Hong Kong	12	587	455	20	113	40	82
Malaysia	12	11,573	10,467	74	1,032	10,590	396
Mongolia	12	345	229	22	95	...	124
North America							
USA	12	245,184	111,290	765	133,130	8,455	781
Canada	09	20,490	14,172	...	6,318	...	609
Mexico	12	33,416	23,645	342	9,430	1,590	277
South America							
Argentina	07	12,400	...	...	...	...	315
Uruguay	11	732	656	9	68	844	216
Ecuador	12	1,191	740	12	440	296	77
Colombia	12	4,568	3,294	212	1,062	4,543	96
Chile	12	3,727	2,580	105	1,042	134	213
Peru	12	2,138	1,221	378	540	...	71
Europe							
Iceland	12	242	210	2	30	10	756
Ireland	12	2,227	1,907	10	310	35	485
UK	12	32,630	28,722	166	3,741	1,225	512
Italy	12	41,728	37,033	98	4,596	8,957	701
Ukraine	11	8,488	6,901	250	1,338	1,206	186
Austria	12	5,010	4,584	10	417	729	594
Netherlands	12	8,896	7,916	10	970	653	531
Greece	12	6,513	5,168	27	1,319	1,556	587
Croatia	12	1,591	1,445	5	142	157	373
Switzerland	12	4,636	4,255	19	362	680	580
Sweden	12	5,018	4,447	14	557	379	527
Spain	12	28,351	22,248	61	6,042	2,852	606
Slovakia	12	2,143	1,824	9	310	99	396
Slovenia	12	1,166	1,066	2	98	93	567
Czech Republic	12	5,330	4,706	20	604	977	507
Denmark	12	2,710	2,237	13	460	199	485
Germany	12	47,868	43,431	76	4,361	3,983	595
Norway	12	3,004	2,443	18	543	405	599
Hungary	12	3,458	2,986	17	454	151	349
Finland	12	2,989	2,581	12	396	460	552
France	12	38,138	31,600	87	6,451	...	581
Bulgaria	12	3,197	2,807	23	367	140	438
Belarus	12	3,197	2,749	45	403	396	338
Belgium	12	6,249	5,454	16	779	439	562
Poland	12	22,022	18,744	100	3,178	2,208	571
Portugal	12	5,537	4,259	12	1,266	...	527
Latvia	12	700	618	5	76	41	344
Lithuania	12	1,905	1,753	13	139	64	638
Romania	12	5,249	4,487	42	720	95	261
Luxembourg	12	387	346	2	39	43	728
Russia	09	38,472	33,084	65	5,323	...	271
Africa							
Algeria	11	4,275	2,856	75	1,343	14	113
Uganda	09	254	97	64	93	292	8
Egypt	12	4,641	3,591	107	943	1,675	57
Ethiopia	07	237	71	17	149	7	3
Ghana	09	709	440	145	125	204	30
Kenya	12	1,089	645	93	350	610	25
Zimbabwe	07	1,416	1,214	16	187	109	111
Sudan	07	1,080	768	12	300	36	33
Tunisia	12	1,416	980	18	419	8	131
Botswana	11	341	197	14	130	2	172
South Africa	10	8,255	5,596	333	2,326	327	162
Mauritius	12	246	198	4	44	174	191
Morocco	11	2,915	2,085	54	776	34	91
Oceania							
Australia	12	16,032	12,714	91	3,228	709	706
New Zealand	12	3,139	2,644	21	475	86	708

Notes:

a. Based on "Population Estimates" by the Statistics Bureau, Ministry of Internal Affairs and Communications, as well as "Monthly report Trucks include trailers and three-wheelers. Two-wheelers are ones of which engine displacement is 125 cc or more.

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.50 Supply of calorific value (2012)

(Kcal per person per day)

Country (region)	Year	Total										
			Grains	Potatoes	Sugar	Beans	Vegetables	Meat	Eggs	Dairy products	Fish	Others
Asia												
Japan	11	2,719	1,051	60	266	16	73	194	75	112	138	734
Iran	11	3,058	1,497	125	273	97	150	142	21	83	16	654
India	13	2,459	1,361	60	228	137	61	16	10	129	9	448
Indonesia	13	2,777	1,751	167	164	10	36	77	20	19	57	476
South Korea	11	3,329	1,431	35	324	13	179	283	44	35	108	877
Saudi Arabia	11	3,122	1,419	23	315	55	70	258	19	144	14	805
Thailand	13	2,784	1,310	63	389	32	39	189	52	45	55	610
China	13	3,108	1,427	154	66	12	234	492	76	58	50	539
Turkey	11	3,680	1,571	101	302	129	148	130	27	265	14	993
Pakistan	13	2,440	1,170	35	270	63	21	77	11	321	4	468
Philippines	13	2,570	1,469	83	224	14	49	240	16	18	58	399
Malaysia	11	2,855	1,253	27	402	30	55	265	55	73	104	591
North America												
USA	11	3,639	798	99	569	30	69	433	53	373	36	1,179
Canada	11	3,419	770	131	443	108	84	359	46	239	36	1,203
Mexico	13	3,072	1,314	30	458	119	40	321	66	163	20	541
South America												
Argentina	11	3,155	1,043	92	464	4	53	586	44	255	11	603
Colombia	13	2,804	776	174	565	60	33	239	38	179	13	727
Brazil	13	3,263	969	121	417	152	36	456	33	252	17	810
Europe												
Ireland	11	3,591	1,062	150	419	26	86	385	35	328	35	1,065
UK	11	3,414	900	177	389	22	70	451	41	343	37	984
Italy	11	3,539	1,124	67	277	45	92	389	45	287	48	1,165
Austria	11	3,784	882	111	457	7	79	451	53	252	28	1,464
Netherlands	11	3,147	698	171	441	13	76	351	61	456	48	832
Greece	11	3,433	961	120	259	44	139	322	35	413	33	1,107
Switzerland	11	3,487	744	77	559	17	70	477	40	374	30	1,099
Sweden	11	3,160	757	101	395	17	68	362	49	397	62	952
Spain	11	3,183	679	109	238	80	85	377	54	258	85	1,218
Denmark	11	3,363	853	106	468	10	89	360	63	335	73	1,006
Germany	11	3,539	871	131	464	9	68	368	49	335	40	1,204
Norway	11	3,484	973	102	327	36	58	386	43	332	114	1,113
Finland	11	3,285	914	121	295	11	59	533	35	477	73	767
France	11	3,524	949	97	357	18	78	488	48	353	73	1,063
Poland	11	3,485	1,184	211	436	19	86	395	37	236	38	843
Portugal	11	3,456	984	103	255	32	106	409	35	239	91	1,202
Russia	11	3,358	1,163	204	467	17	79	298	58	286	55	731
Africa												
Algeria	13	3,296	1,678	126	265	79	124	99	27	227	8	663
Egypt	11	3,557	2,217	80	304	59	133	120	11	104	39	490
Nigeria	13	2,700	1,172	616	105	106	45	44	12	12	26	562
South Africa	11	3,007	1,545	67	317	25	40	322	28	89	12	562
Oceania												
Australia	11	3,265	708	82	390	37	73	515	28	328	38	1,066
New Zealand	11	3,170	759	94	528	48	89	517	38	198	47	852

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.51 Production quantity of marine products (by species)

(Unit: t)

Country (region)	Year	Marine products							
		Marine products Total	aquaculture	Catching and gathering					
				Marine fishes / Crustaceans / Molluscs total	Marine fishes/crustaceans/molluscs				
					Salmons, trouts, smelts	Flounders, halibuts, soles	Cods, hakes, haddocks	Herrings, sardines, anchovies	Tunas, bonitos, billfishes
World	13	191,014,701	97,168,160	92,572,586	1,193,152	1,039,887	8,156,132	17,467,884	7,387,159
Asia									
Japan	13	4,768,519	1,027,165	3,656,854	186,523	53,400	289,914	636,600	477,431
Iran	13	884,956	325,325	559,631	2	4,191	...	53,004	210,418
India	13	9,199,291	4,554,109	4,645,182	...	55,806	6,897	633,805	181,855
Indonesia	13	19,237,067	13,118,206	6,101,725	...	28,736	...	503,955	1,298,091
South Korea	13	3,139,886	1,533,446	1,597,874	177	25,216	48,773	258,740	309,000
Cambodia	13	729,468	90,000	639,468	...	...	...	...	...
North Korea	13	723,350	508,350	215,000	...	3,950	62,800	...	...
Sri Lanka	13	526,454	30,881	495,573	...	...	...	125,680	140,329
Thailand	13	2,900,691	1,056,944	1,843,747	...	6,686	...	214,907	49,786
Taiwan	13	1,273,237	347,687	925,268	...	423	...	2,631	399,244
China	13	73,669,119	57,111,183	16,274,926	...	...	-	1,026,808	663,884
Turkey	13	607,992	233,864	374,128	438	984	10,087	213,298	16,126
Pakistan	13	623,022	148,120	474,902	...	1,075	...	51,479	51,816
Bangladesh	13	3,410,254	1,859,808	1,550,446	...	...	...	...	3,578
Philippines	13	4,705,507	2,373,386	2,331,721	...	824	...	400,323	556,843
Vietnam	13	6,098,280	3,294,480	2,803,800	...	...	...	...	82,042
Malaysia	13	2,019,410	530,705	1,488,705	...	6,014	...	69,740	86,234
Myanmar	13	4,717,620	930,780	3,786,840	...	...	...	...	11,176
North/South America									
USA	13	5,683,360	441,098	5,230,874	490,596	338,796	1,919,320	870,673	285,891
Argentina	13	873,908	3,825	870,083	...	5,158	345,436	18,394	82
Ecuador	13	851,341	332,180	519,161	...	...	609	22,580	314,993
Canada	13	1,039,021	172,097	852,082	27,055	45,449	92,281	140,134	5,256
Chile	13	3,334,592	1,045,718	1,770,945	...	17	119,623	1,075,313	4,887
Brazil	13	1,239,446	474,159	765,287	...	2,323	6,496	126,239	56,371
Peru	13	6,002,015	125,693	5,854,233	439	139	54,522	4,874,034	52,906
Mexico	13	1,805,783	168,792	1,626,869	3,317	4,242	8,467	837,226	168,912
Europe									
Iceland	13	1,390,895	7,052	1,366,675	189	25,291	464,983	157,537	4
UK	13	826,975	194,630	632,345	1,847	35,366	127,713	102,357	805
Italy	13	340,527	162,620	176,707	650	2,342	12,425	52,747	8,153
Netherlands	13	387,847	60,410	327,437	914	51,877	55,144	102,155	1,169
Spain	13	1,259,098	223,709	1,034,173	1,855	14,481	149,241	85,405	384,680
Denmark	13	740,090	71,610	668,480	386	30,630	73,775	237,454	...
Norway	13	3,476,378	1,247,865	2,074,363	725	16,230	998,399	510,055	...
France	13	764,592	202,210	493,256	922	20,883	103,181	62,688	114,179
Russia	13	4,506,749	155,540	4,345,868	459,223	107,742	2,354,959	564,916	1,473
Africa									
Egypt	13	1,454,401	1,097,544	356,857	...	2,066	...	21,052	1,707
Ghana	13	330,425	32,513	297,912	...	1,595	...	41,679	68,169
Senegal	13	472,179	707	469,636	...	4,580	54	265,221	14,481
Nigeria	13	1,000,061	278,706	721,355	...	19,442	2,483	116,824	1,004
South Africa	13	431,103	6,010	412,510	...	133	127,531	202,004	6,383
Morocco	13	1,260,721	1,768	1,253,299	...	7,109	6,864	822,718	8,642
Oceania									
New Zealand	13	540,756	97,123	442,448	...	2,881	185,544	370	29,548

1.51 Production quantity of marine products (by species)

(Unit: t)

Country (region)	Year	Marine products				
		Catching and gathering				
		Marine fishes/crustaceans/molluscs				Aquatic plants
		Crustaceans		Molluscs		
Crabs, sea-spiders etc.	Shrimps and prawns etc.	Squids, cuttlefishes, octopuses	Others			
World	13	1,594,615	3,708,652	4,027,433	47,997,672	1,273,955
Asia						
Japan	13	30,823	17,200	255,111	1,709,852	84,500
Iran		1,080	8,812	5,102	277,022	...
India	13	54,774	390,119	80,225	3,241,701	...
Indonesia	13	85,596	256,772	169,328	3,759,247	17,136
South Korea	13	76,421	29,185	281,487	568,875	8,566
Cambodia	13	4,050	8,400	6,768	620,250	...
North Korea	13	...	...	10,000	138,250	...
Sri Lanka	13	...	...	1,720	227,844	...
Thailand	13	35,680	48,480	124,711	1,363,497	...
Taiwan	13	9,386	18,522	131,744	363,318	282
China	13	734,213	1,257,112	1,091,285	11,501,624	283,010
Turkey	13	8	4,052	2,019	127,116	...
Pakistan	13	8,963	24,330	8,119	329,120	...
Bangladesh	13	...	...	...	1,546,868	...
Philippines	13	28,576	39,434	63,458	1,242,263	400
Vietnam	13	85,100	267,092	281,308	2,088,258	...
Malaysia	13	14,220	108,867	78,558	1,125,072	...
Myanmar	13	...	49,409	...	3,726,255	...
North/South America						
USA	13	143,819	198,929	120,314	862,536	11,388
Argentina	13	16	100,715	191,838	208,444	...
Ecuador	11	201	6,958	2	173,818	...
Canada	13	106,768	223,502	45	211,592	14,842
Chile	13	5,483	4,769	108,082	452,771	517,929
Brazil	13	10,916	44,320	3,320	515,302	...
Peru	13	2,419	6,797	468,990	393,987	22,089
Mexico	13	27,548	70,882	61,229	445,046	10,122
Europe						
Iceland	13	...	12,793	14	705,864	17,168
UK	13	31,666	32,373	9,039	291,179	...
Italy	13	182	14,586	16,688	68,934	1,200
Netherlands	13	554	21,227	536	93,861	...
Spain	13	3,004	6,800	59,769	328,938	1,216
Denmark	13	244	11,583	44	314,364	...
Norway	13	5,421	14,023	5	529,505	154,150
France	13	10,735	4,504	18,016	158,148	69,126
Russia	13	29,316	10,878	85,525	731,836	5,341
Africa						
Egypt	13	2,372	6,792	2,470	320,398	...
Ghana	13	145	2,672	2,580	181,072	...
Senegal	13	523	6,365	6,151	172,261	1,836
Nigeria	13	4,211	29,005	402	547,984	...
South Africa	13	12	2,619	2,987	70,841	12,583
Morocco	13	767	8,492	95,663	303,044	5,654
Oceania						
New Zealand	13	325	3,537	24,820	195,423	1,185

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan

1.52 Social and environmental indicators in developing countries

Country (region)	(1) HDI	(2) Percentage of population below the poverty line.	(3) Multidimensional Poverty Index: MPI	(4) Mean length of education (calendar year)	(5) Percentage of underweight children under 5 years old. (boy)	(6) Percentage of underweight children under 5 years old. (GHI)	(7) Mortality rate, less than 1 year old	(8) Mortality rate less than 5 years old (per 1,000 people)	(9) Percentage of population undernourished.	(10) Percentage of population with safe drinking water.	(11) Percentage of population that has a bathroom.	(12) Mortality during pregnancy and childbirth.	(13) Percentage of doctor assisted childbirths.	(14) Mother's age at childbirth (15 – 19 years old) (per 1,000 people)	(15) Contraceptive prevalence.	(16) Measles vaccination rate of infants.	(17) TB prevalence (per 100,000 people)
	2014	2002-12	2005-14	2014	2007-13	2015	2015	2013	2015	2015	2015	2015	2007-13	2014	2007-13	2014	2013
Asia																	
Azerbaijan	0.751	0.31	0.021	a 11.2	...	...	28	32	5	87	89	25	99	59	...	98	85
Afghanistan	0.465	...	0.353	3.2	...	...	66	91	25	55	32	396	39	77	21	66	189
Armenia	0.733	1.75	0.001	10.9	4.7	5.9	13	14	6	100	90	25	100	24	55	97	49
Yemen	0.498	9.78	...	2.6	37.1	33.7	34	42	26	...	...	385	...	62	...	75	48
Iraq	0.654	3.91	0.045	6.4	9.4	7.4	27	32	24	87	86	50	91	83	53	57	45
India	0.609	23.63	0.283	5.4	...	...	38	48	15	94	40	174	52	26	55	83	171
Indonesia	0.684	16.20	0.066	7.6	20.5	19.4	23	27	9	87	61	126	83	50	62	77	183
Uzbekistan	0.675	...	0.008	10.9	...	...	34	39	6	...	100	36	...	18	...	99	80
Kazakhstan	0.788	0.06	0.001	11.4	3.7	3.6	13	14	5	93	98	12	100	29	51	99	139
Cambodia	0.555	10.05	0.212	4.4	28.8	29.1	25	29	16	76	42	161	74	51	51	94	400
Kyrgyzstan	0.655	5.11	0.007	10.6	3.7	3.7	19	21	6	90	93	76	99	40	36	96	141
Georgia	0.754	14.14	0.003	12.1	1.3	1.0	11	12	10	100	86	36	100	41	53	92	116
Syria	0.594	1.70	0.016	6.3	11.5	8.7	11	13	...	90	96	68	96	40	54	54	17
Thailand	0.726	0.31	0.006	7.3	9.9	8.4	11	12	7	98	93	20	100	45	79	99	119
Tajikistan	0.624	6.47	0.054	10.4	13.6	13.1	39	45	32	74	95	32	87	38	28	98	100
China	0.727	6.26	0.023	b 7.5	3.5	3.3	9	11	11	96	77	27	100	7	88	99	70
Nepal	0.548	23.74	0.217	3.3	29.8	28.4	29	36	13	92	46	258	36	73	50	88	156
Pakistan	0.538	12.74	0.230	4.7	34.1	29.1	66	81	22	91	64	178	52	39	35	63	275
Bangladesh	0.570	43.25	0.253	5.1	34.8	38.8	31	38	17	87	61	176	34	83	62	89	224
East Timor	0.595	34.87	0.360	4.4	46.8	43.7	45	53	29	72	41	215	29	48	22	74	498
Philippines	0.668	18.96	0.052	8.9	20.1	20.3	22	28	12	92	74	114	73	61	55	88	292
Bhutan	0.605	2.38	0.119	3.0	13.4	12.3	27	33	...	100	50	148	65	23	66	97	169
Vietnam	0.666	2.44	0.017	7.5	11.8	12.1	17	22	13	98	78	54	93	38	78	97	144
Maldives	0.706	1.48	0.018	5.8	18.4	17.2	7	9	6	99	98	68	99	7	35	99	40
Mongolia	0.727	...	0.037	9.3	5.3	4.0	19	22	22	64	60	44	99	16	55	98	181
Jordan	0.748	0.08	0.006	9.9	3.4	2.6	15	18	5	97	99	58	100	24	61	98	6
Laos	0.575	30.26	0.174	5.0	26.8	26.2	51	67	22	76	71	197	42	65	50	87	197
Central America																	
Dominican Republic	0.715	2.25	0.020	7.6	3.9	4.1	26	31	15	85	84	92	99	98	72	88	60
Trinidad and Tobago	0.772	...	0.020	10.9	...	...	18	20	9	95	92	63	100	32	...	96	21
Nicaragua	0.631	8.54	0.072	6.0	...	...	19	22	17	87	68	150	88	90	80	99	55
Haiti	0.483	...	0.248	4.9	12.5	10.7	52	69	52	58	28	359	37	40	35	53	206
Belize	0.715	...	0.018	10.5	5.7	6.6	14	17	7	100	91	28	96	67	55	95	37
Honduras	0.606	16.48	0.072	5.5	7.7	6.5	17	20	12	91	83	129	83	66	73	88	54
Mexico	0.756	1.03	0.011	8.5	2.8	2.8	11	13	5	96	85	38	96	63	73	97	21
South America																	
Argentina	0.836	1.41	c 0.011	9.8	...	...	11	13	5	99	96	52	98	64	...	95	24
Guyana	0.636	...	0.030	8.5	12.8	9.4	32	39	10	98	84	229	92	88	43	99	109
Colombia	0.720	5.63	0.022	7.3	3.5	3.3	14	16	11	91	81	64	99	52	79	91	32
Suriname	0.714	...	0.024	7.7	6.2	5.4	19	21	8	95	79	155	91	47	48	85	39
Peru	0.734	2.89	0.043	9.0	3.7	3.2	13	17	9	87	76	68	87	50	74	89	124
Bolivia	0.662	7.98	0.089	8.2	4.9	4.0	31	38	20	90	50	206	84	71	61	95	123
Europe																	
Albania	0.733	0.46	0.005	9.3	6.6	6.0	13	14	14	95	93	29	99	21	69	98	18
Ukraine	0.747	0.00	0.004	11.3	...	...	8	9	9	96	96	24	99	25	65	79	96
Serbia	0.771	0.05	0.001	10.5	1.5	1.7	6	7	7	99	96	17	100	19	61	86	18
Belarus	0.798	0.00	0.000	12.0	...	...	3	5	...	100	94	4	100	19	63	99	70
Bosnia-Herzegovina	0.733	0.04	0.002	a 8.3	1.8	1.3	5	5	...	100	95	11	100	9	46	89	46
Moldova	0.693	0.23	0.003	11.2	2.1	2.2	14	16	...	88	76	23	99	23	60	90	159
Montenegro	0.802	0.21	0.001	11.2	1.1	0.9	4	5	...	100	96	7	100	12	...	88	21

1.52 Social and environmental indicators in developing countries

Country (region)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
	Human Development Index.	Percentage of population below the poverty line. (%)	Multidimensional Poverty Index. MPI	Mean length of education (calendar year)	Percentage of underweight children under 5 years old. (boy) (%)	Percentage of underweight children under 5 years old. (GHI) (%)	Mortality rate, less than 1 year old (%)	Mortality rate less than 5 years old (per 1,000 people)	Percentage of population undernourished. (per 1,000 people)	Percentage of population with safe drinking water. (%)	Percentage of population that has a bathroom. (%)	Mortality during pregnancy and childbirth. (per 100,000 childbirths)	Percentage of doctor assisted childbirths. (%)	Mother's age at childbirth (15 – 19 years old) (per 1,000 people)	Contraceptive prevalence. (%)	Measles vaccination rate of infants. (%)	TB prevalence (per 100,000 people)
	2014	2002-12	2005-14	2014	2007-13		2015	2015	2013	2015	2015	2015	2014	2007-13	2014	2013	
Africa																	
Uganda	0.483	37.78	0.367	5.4	15.4	12.8	38	55	26	79	19	343	57	115	30	82	166
Egypt	0.690	1.68	0.014	6.6	8.1	5.4	20	24	5	99	95	33	79	52	60	93	16
Ethiopia	0.442	36.79	0.564	2.4	30.9	27.3	41	59	35	57	28	353	23	60	29	70	224
Ghana	0.579	28.59	0.139	7.0	15.4	11.3	43	62	5	89	15	319	68	68	34	92	66
Gabon	0.684	6.09	0.070	7.8	7.9	5.0	36	51	5	93	42	291	89	102	31	61	423
Cameroon	0.512	27.61	0.248	6.0	15.8	14.5	57	88	11	76	46	596	64	107	23	80	235
Gambia	0.441	33.63	0.323	2.8	17.8	16.9	48	69	6	90	59	706	57	114	13	96	173
Guinea	0.411	40.87	0.459	2.4	17.3	15.2	61	94	18	77	20	679	45	142	6	52	177
Guinea-Bissau	0.420	48.90	0.462	2.8	19.1	17.1	60	93	18	79	21	549	43	91	14	69	387
Kenya	0.548	43.37	0.229	b 6.3	17.3	15.5	36	49	24	63	30	510	44	92	46	79	268
Ivory Coast	0.462	35.04	0.310	b 4.3	18.8	12.8	67	93	15	82	23	645	59	135	18	63	170
Republic of the Congo	0.591	32.82	0.181	b 6.1	13.3	10.3	33	45	32	77	15	442	93	119	45	80	382
D R of the Congo	0.433	87.72	0.401	6.0	25.7	21.1	75	98	...	52	29	693	80	123	17	77	326
Democratic Republic of Sao Tome and Principe	0.555	43.53	0.154	4.7	16.6	12.3	35	47	7	97	35	156	82	85	38	92	91
Zambia	0.586	74.32	0.281	6.6	16.9	13.0	43	64	48	65	44	224	47	93	41	85	410
Sierra Leone	0.413	56.63	0.464	3.1	19.2	17.1	87	120	26	63	13	1,360	60	120	17	78	313
Djibouti.	0.470	18.83	0.139	3.8	31.2	28.5	54	65	19	90	47	229	87	22	19	71	619
Zimbabwe	0.509	...	0.127	7.3	11.5	8.7	47	71	32	77	37	443	66	110	59	92	552
Swaziland	0.531	39.30	0.086	b 7.1	6.7	5.0	45	61	26	74	58	389	82	74	65	86	1,382
Senegal	0.466	34.06	0.309	2.5	18.1	15.4	42	47	17	79	48	315	65	80	18	80	136
Tanzania	0.521	43.48	0.332	5.1	14.2	12.9	35	49	35	56	16	398	49	119	34	99	164
Central African Republic	0.350	62.83	0.430	4.2	26.1	20.9	92	130	38	69	22	882	54	93	15	49	359
Tunisia	0.721	0.74	0.004	6.8	3.2	1.4	12	14	5	98	92	62	99	7	63	98	32
Togo	0.484	52.46	0.252	4.5	18.4	14.4	52	78	15	63	12	368	59	92	15	82	73
Nigeria	0.514	62.03	0.303	5.9	32.9	29.0	69	109	6	69	29	814	38	112	15	51	338
Namibia	0.628	23.54	0.193	6.2	15.1	11.3	33	45	37	91	34	265	81	77	55	83	651
Niger	0.348	40.81	0.605	1.5	38.7	37.1	57	96	11	58	11	553	29	204	14	72	102
Burkina Faso	0.402	44.46	0.535	1.4	27.7	24.7	61	89	21	82	20	371	66	110	16	88	54
Burundi	0.400	81.32	0.454	2.7	32.0	26.1	54	82	...	76	48	712	60	29	22	94	128
Benin	0.480	51.61	0.307	3.3	...	...	64	100	10	78	20	405	81	85	13	63	70
Madagascar	0.510	87.67	0.357	6.0	...	...	36	50	31	52	12	353	44	117	40	64	233
Malawi	0.445	72.16	0.334	4.3	15.2	12.6	43	64	22	90	41	634	71	137	46	85	156
Mali	0.419	50.61	0.457	2.0	...	...	75	115	5	77	25	587	59	175	10	80	60
South Africa	0.666	9.42	0.044	9.9	...	...	34	41	5	93	66	138	...	47	...	70	860
Mauritania	0.506	23.43	0.285	3.8	21.8	17.2	65	85	7	58	40	602	65	79	11	84	115
Mozambique	0.416	60.71	0.389	3.2	17.5	13.6	57	79	28	51	21	489	54	143	12	85	552
Liberia	0.430	83.76	0.374	4.1	16.8	13.5	53	70	30	76	17	725	61	111	20	58	308
Rwanda	0.483	63.02	0.350	3.7	12.9	10.4	31	42	34	76	62	290	69	27	52	98	69
Lesotho	0.497	56.22	0.156	c 5.9	16.0	11.1	69	90	12	82	30	487	62	92	47	92	916
Oceania																	
Vanuatu	0.594	...	0.129	6.8	14.1	9.0	23	28	7	95	58	78	89	43	49	53	62
[Reference] Developed countries																	
Japan	0.891	...	...	11.5	...	...	2	3	...	100	100	5	...	4	...	98	18
USA	0.915	...	...	12.9	0.5	0.4	6	7	...	99	100	14	...	24	76	91	3
Germany	0.916	...	...	13.1	...	...	3	4	...	100	99	6	...	7	...	97	6

Notes: a. 2015 b. 2013 c. Urban area only.

Source: "World Statistics 2016," Statistics Bureau, Ministry of Internal Affairs and Communications, the Government of Japan