



2025 자주 찾는 에너지통계





01

「자주 찾는 에너지통계」는 정부 및 주요 공공기관에서 작성한 통계를 종합 편집한 것으로 각 통계표마다 출처와 주석을 표기하였습니다.

02

통계표의 수치는 해당기관의 사정에 의해 갱신될 수 있습니다.

03

2007년 이후 5년마다 개정된 열량을 적용하였습니다.

04

에너지밸런스의 2024년 수치는 잠정치입니다.

05

통계표에 사용된 약어는 다음과 같습니다.

TPES	Total Primary Energy Supply(일차에너지공급)
TFC	Total Final Consumption(최종소비)
Pop.	Population(인구)
Mil.	Million(백만)
Thou.	Thousand(천)
Intl.	International(국제)

01

This book is compiled by comprehensive compilation of statistics from governments and related organizations. For more information, please see the source of each statistical table.

02

The figures in the tables can be revised by the governments and related organizations that collected the data.

03

From 2007, figures are based on revised calorific values every 5 years.

04

The 2024 energy balance figures are provisional.

05

Abbreviations used in tables are as follows:

TPES	Total Primary Energy Supply
------	-----------------------------

TFC	Total Final Consumption
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Pop.	Population
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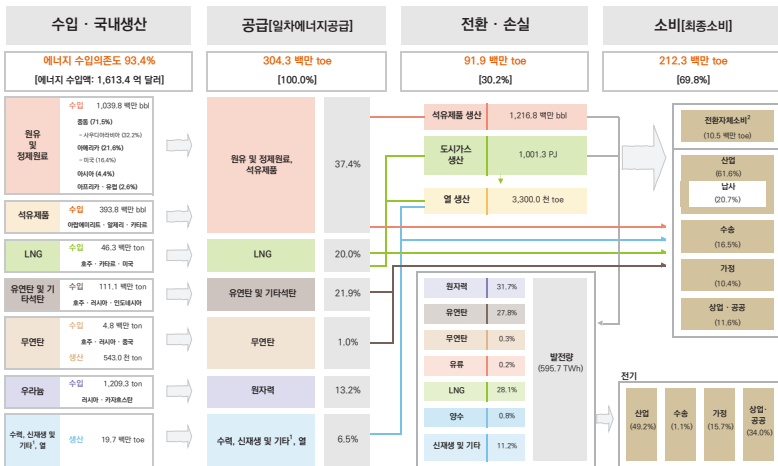
Mil.	Million
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Thou.	Thousand
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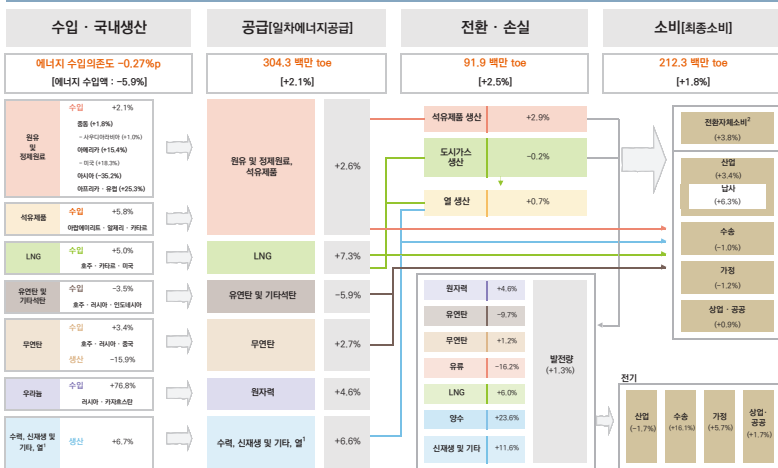
Intl.	International
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2024년(잠정) 에너지 플로우

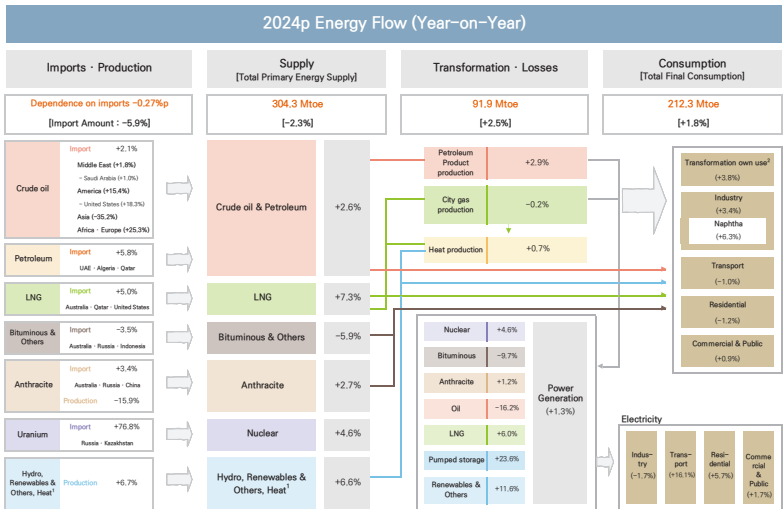
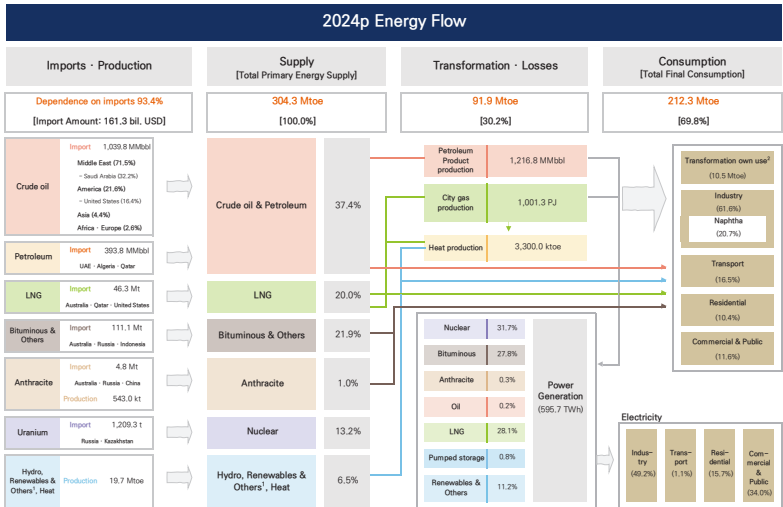
2024년(잠정) 에너지 플로우



2024년(잠정) 에너지 플로우 (전년 대비)



1. 신재생 및 기타에너지는 1) 바이오 및 폐기물, 2) 지열, 태양 및 기타로 구성됨
2. 전환저장소에는 에너지저장장, 풍전도의 활동량, 유자원은량 사용되는 에너지 상용화를 의미함. 다른 에너지 상용화로 전환되지 않기 때문에 전환과정과 구별되며, 산업활동을 위한 에너지소비액 최종소비 산업부문에도 포함되지 않음



1. Renewables & Others consist of 1) Biofuels and waste, 2) Geothermal, solar, etc.
2. Transformation own use (energy industry own use) is distinct from the transformation process because it is not converted into other energy commodities and is not included in the final consumption, which is energy consumption for industrial activities.

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우리나라 에너지 Energy in Korea



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1-1. 주요 에너지 지표

	GDP단위당 일차에너지공급 ¹ (toe/백만원)	1인당 일차에너지공급 (toe/인)	1인당 전력소비 (kWh/인)	1인당 가정용 전력소비 (kWh/인)	수입 의존도 ² (%)
1990	0.180	2.08	2,169	414	89.1 (74.3)
1991	0.176	2.24	2,373	450	92.2 (77.7)
1992	0.189	2.53	2,592	498	94.3 (81.6)
1993	0.200	2.83	2,843	541	95.5 (83.9)
1994	0.194	2.97	3,229	595	97.2 (86.2)
1995	0.194	3.23	3,567	628	97.7 (86.2)
1996	0.193	3.45	3,940	673	98.1 (86.3)
1997	0.192	3.61	4,290	708	98.3 (86.6)
1998	0.189	3.34	4,116	711	97.7 (83.2)
1999	0.183	3.59	4,524	742	97.9 (82.5)
2000	0.183	3.89	5,015	789	97.8 (82.9)
2001	0.177	3.91	5,357	828	97.9 (82.8)
2002	0.174	4.11	5,756	887	97.9 (82.7)
2003	0.173	4.19	6,020	931	97.6 (81.5)
2004	0.167	4.24	6,373	1,011	97.5 (81.5)
2005	0.166	4.39	6,774	1,056	97.5 (80.1)
2006	0.160	4.43	7,064	1,084	97.4 (80.0)
2007	0.159	4.65	7,430	1,113	97.5 (83.9)
2008	0.157	4.67	7,696	1,146	97.5 (83.3)
2009	0.160	4.78	7,837	1,168	97.4 (83.9)
2010	0.161	5.12	8,587	1,235	97.5 (84.9)
2011	0.163	5.35	8,924	1,233	97.3 (84.9)
2012	0.159	5.31	9,095	1,266	97.3 (85.4)
2013	0.156	5.34	9,210	1,269	97.1 (86.2)
2014	0.152	5.35	9,189	1,235	96.9 (84.8)
2015	0.150	5.43	9,261	1,250	96.8 (84.2)
2016	0.152	5.62	9,465	1,292	96.6 (84.7)
2017	0.151	5.78	9,640	1,295	96.1 (85.4)
2018	0.148	5.83	9,949	1,370	95.8 (86.3)
2019	0.144	5.75	9,800	1,361	95.7 (85.2)
2020	0.139	5.51	9,586	1,429	95.0 (83.1)
2021	0.139	5.80	10,051	1,498	94.8 (83.6)
2022	0.137	5.88	10,340	1,520	94.4 (82.0)
2023	0.133	5.77	10,301	1,545	93.7 (80.8)
2024	0.133	5.88	10,368	1,631	93.4 (80.2)
	TPES/GDP ¹ (toe/Mil. KRW)	TPES per Capita (toe/Capita)	Elec. Consumption per Capita (kWh/Capita)	Elec. Consumption in Residential per Capita (kWh/Capita)	Overseas Dependence ² (%)

1. 연쇄가중법에 의해 추계된 실질 GDP(2020년 기준년), 한국은행

2. ()는 원자력 발전을 국내생산에 포함시 수입의존도

3. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스와 개정된 1996년 IPCC 지침에 의해 산출

1-1. Major Energy Indicators

석유 의존도 (%)	일차에너지공급 (천toe)	최종소비 (천toe)	이산화탄소배출 ³ (백만톤 CO ₂ eq.)	
53.1	89,280	71,150	231.4	1990
54.4	96,801	80,179	257.9	1991
59.5	110,524	89,967	280.5	1992
60.3	125,000	99,777	308.6	1993
60.9	132,512	109,322	332.7	1994
60.3	145,618	116,507	360.2	1995
59.3	156,834	125,593	386.4	1996
58.1	165,755	134,386	405.8	1997
52.1	154,393	121,926	347.9	1998
51.9	167,342	132,921	384.4	1999
49.5	182,689	141,000	417.5	2000
48.4	185,394	143,622	428.5	2001
47.0	195,940	150,319	442.9	2002
45.8	200,902	154,107	449.5	2003
43.3	203,941	156,559	468.3	2004
41.8	211,297	159,700	466.6	2005
41.0	214,584	162,883	472.2	2006
43.9	226,297	167,623	489.7	2007
41.1	228,977	169,049	500.8	2008
41.4	235,726	170,068	509.6	2009
39.2	253,862	184,372	558.9	2010
36.9	267,206	193,576	589.1	2011
37.7	266,634	193,597	588.9	2012
37.6	269,532	194,844	592.1	2013
37.2	271,253	195,773	576.5	2014
38.4	276,794	198,704	588.4	2015
40.1	287,905	206,217	587.6	2016
39.1	296,713	213,147	605.0	2017
38.0	300,791	214,407	630.1	2018
38.8	297,568	212,133	605.8	2019
37.8	285,551	203,932	564.0	2020
38.4	300,365	216,245	587.6	2021
37.7	303,807	213,481	565.8	2022
37.2	298,138	208,506	550.6	2023
37.4	304,253	212,348	547.8	2024
Petroleum Dependence (%)	TPES (Thou. toe)	TFC (Thou. toe)	CO₂ Emissions³ (Mil. Tons CO ₂ eq.)	

1. GDP is based on chained prices(based on 2020), Bank of Korea

2. Figures in parentheses denote overseas dependence ratio excluding nuclear generation.

3. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 1996 IPCC Guidelines.

1-2. 에너지 생산 및 수출입

단위: 천 toe

	국내생산						
	석탄	가스	원유 및 정제원료	신재생 및 기타	원자력	수력	열
1990	7,748	-	-	16	13,222	1,171	3
1991	6,776	-	-	21	14,078	872	3
1992	5,386	-	-	19	14,133	774	2
1993	4,249	-	-	22	14,535	1,057	3
1994	3,347	-	-	25	14,663	587	3
1995	2,574	-	-	337	16,757	690	3
1996	2,228	-	-	386	18,481	606	3
1997	2,030	-	-	517	19,271	703	2
1998	1,962	-	-	733	22,422	1,070	9
1999	1,889	-	-	793	25,766	1,040	7
2000	1,868	-	-	1,135	27,241	1,002	10
2001	1,718	-	-	1,407	28,033	582	13
2002	1,493	-	-	1,556	29,776	808	14
2003	1,484	-	-	1,796	32,418	1,226	20
2004	1,436	212	-	2,051	32,679	1,082	19
2005	1,274	518	55	1,946	36,695	919	12
2006	1,271	461	45	2,217	37,187	867	17
2007	1,342	353	35	2,568	30,731	781	14
2008	1,289	236	23	2,917	32,456	660	38
2009	1,171	498	47	3,452	31,771	616	49
2010	969	539	56	3,773	31,948	797	16
2011	969	451	42	4,485	33,265	989	135
2012	942	436	39	4,869	31,719	838	124
2013	817	463	42	5,440	29,283	906	113
2014	787	322	29	6,636	33,002	581	68
2015	794	188	17	7,455	34,765	454	125
2016	777	154	15	8,258	34,181	603	117
2017	702	341	32	9,960	31,615	601	127
2018	569	305	28	11,008	28,437	719	68
2019	513	259	23	11,544	31,079	594	66
2020	482	185	15	12,624	34,119	826	73
2021	425	55	5	14,373	33,657	651	68
2022	386	-	2	15,908	37,500	755	69
2023	304	-	-	17,604	38,445	792	35
2024	256	-	-	18,670	40,205	916	71
	Coal	Natural gas	Crude oil & refinery feedstocks	Renewables & others	Nuclear	Hydro	Heat
	Domestic Production						

자료: 한국무역협회, 한국석유공사

1-2. Energy Production, Import and Export

Unit: Thousand toe

수입				수출			
석탄	가스	석유		석탄	원유 및 정제원료	석유제품	
		원유 및 정제원료	석유제품				
15,832	2,909	42,465	13,403	5	-	3,997	1990
19,331	3,243	54,600	14,487	4	-	10,418	1991
20,190	3,892	69,996	17,586	2	112	13,769	1992
23,567	5,797	77,531	21,468	0	94	15,386	1993
25,904	7,795	80,727	24,514	104	148	13,791	1994
28,942	8,782	88,810	26,259	4	31	17,748	1995
30,616	12,035	101,430	27,411	1	280	22,690	1996
32,774	14,912	119,950	23,106	53	266	33,143	1997
34,450	13,246	112,392	21,498	3	48	42,232	1998
35,229	15,970	120,594	22,474	1	49	42,544	1999
41,943	19,811	123,049	25,388	3	129	43,758	2000
43,822	19,913	118,891	25,656	1	134	42,143	2001
46,058	23,390	109,680	28,672	1	163	33,914	2002
47,109	25,101	111,227	27,361	1	57	30,025	2003
51,995	28,316	113,564	23,906	7	17	33,841	2004
50,266	29,013	116,537	21,669	12	5	38,071	2005
52,053	32,832	121,897	23,280	9	4	41,810	2006
56,340	33,240	128,166	25,469	9	79	41,801	2007
63,723	35,436	127,156	27,409	26	314	47,586	2008
65,216	33,568	122,816	33,294	4	415	46,896	2009
75,340	42,384	128,349	34,226	8	620	48,365	2010
82,125	47,690	136,259	34,357	41	751	57,722	2011
78,261	47,184	138,986	37,685	20	460	61,686	2012
78,923	51,998	134,607	40,847	40	369	59,909	2013
81,782	48,388	136,928	40,757	28	185	62,591	2014
84,123	43,509	150,983	38,134	12	446	66,278	2015
83,621	43,623	158,918	40,923	1	670	67,839	2016
89,227	49,023	165,241	38,344	86	455	70,965	2017
89,484	57,484	165,588	41,639	47	764	74,065	2018
85,586	53,217	157,955	42,140	12	138	72,374	2019
74,875	52,217	145,093	41,331	110	80	65,207	2020
76,172	59,987	143,343	47,359	217	323	61,835	2021
75,794	60,683	156,690	43,276	19	331	68,987	2022
72,434	57,705	152,166	44,455	0	466	68,292	2023
70,452	60,584	155,296	47,398	1	475	70,758	2024
Coal	Natural gas	Crude oil & refinery feedstocks	Petroleum Products	Coal	Crude oil & refinery feedstocks	Petroleum Products	
Imports				Exports			

Source: Korea International Trade Association, Korea National Oil Corporation

1-3. 지역별 석탄 수입

단위: 천톤

	무연탄						
	합계	아시아	중동	유럽	북미	중남미	기타 ²
1990	1,072	580	-	85	36	-	371
1991	1,410	1,212	79	119	-	-	-
1992	809	779	-	30	-	-	-
1993	783	783	-	-	-	-	-
1994	699	699	-	-	0	-	-
1995	723	688	-	-	-	-	35
1996	875	842	-	-	0	-	32
1997	722	651	-	10	-	-	60
1998	789	789	-	-	-	-	-
1999	1,139	1,096	-	-	-	-	43
2000	2,038	1,616	-	-	-	-	422
2001	3,110	2,530	-	-	-	-	580
2002	3,879	2,966	-	0	-	-	913
2003	4,640	3,629	-	-	-	-	1,011
2004	4,251	3,180	-	33	33	-	1,006
2005	4,567	3,119	-	16	104	-	1,328
2006	5,113	3,168	-	233	408	-	1,304
2007	5,444	3,491	-	175	45	7	1,726
2008	5,955	4,253	-	71	0	-	1,631
2009	6,468	4,168	0	124	-	0	2,176
2010	7,406	4,603	-	620	-	-	2,183
2011	8,816	4,294	-	1,326	261	-	2,934
2012	8,055	3,660	-	1,457	22	0	2,916
2013	8,482	2,791	-	1,966	-	-	3,725
2014	8,294	2,667	-	1,724	-	-	3,903
2015	8,938	1,529	-	2,787	0	-	4,622
2016	9,424	1,472	-	3,904	0	0	4,048
2017	7,003	1,388	21	3,232	0	65	2,297
2018	8,201	1,432	-	4,166	-	95	2,507
2019	6,858	688	-	3,031	-	98	3,041
2020	6,286	333	-	3,211	-	88	2,655
2021	6,475	275	-	2,617	-	92	3,491
2022	5,384	301	-	2,107	0	191	2,785
2023	4,639	150	-	2,195	0	256	2,038
2024	4,794	818	-	1,160	0	537	2,280
	Total	Asia	Middle East	Europe	North America	Centre and South America	Others ²
	Anthracite Coal						

1. 원료탄, 기타무연탄, 아열청탄의 합계

2. 아프리카, 대양주, 기타

자료: 한국무역협회

1-3. Coal Imports by Origin

Unit: Thousand Tons

유연탄 ¹							
합계	아시아	중동	유럽	북미	중남미	기타 ²	
22,846	2,778	-	1,065	7,821	-	11,182	1990
27,849	3,426	141	549	10,260	112	13,361	1991
29,321	4,200	-	359	7,618	-	17,144	1992
34,191	5,581	-	952	8,201	-	19,457	1993
37,854	7,848	-	674	7,946	-	21,385	1994
42,359	9,719	-	888	9,668	-	22,085	1995
45,160	10,863	-	813	9,477	-	24,008	1996
48,237	11,682	-	1,089	8,368	-	27,098	1997
50,566	11,821	-	649	8,669	65	29,361	1998
51,101	17,456	-	844	7,006	-	25,794	1999
59,601	25,098	-	2,565	7,163	-	24,774	2000
61,857	29,392	-	1,947	6,093	-	24,425	2001
64,640	31,085	-	2,937	4,543	-	26,074	2002
65,318	33,063	-	3,070	3,853	-	25,333	2003
72,103	32,557	-	5,280	5,135	-	29,131	2004
69,330	31,090	-	3,547	4,913	-	29,779	2005
70,888	33,675	-	4,799	4,814	-	27,600	2006
79,355	39,101	-	6,181	6,276	-	27,797	2007
90,469	38,522	-	7,450	7,519	-	36,978	2008
92,952	38,229	-	4,796	9,051	72	40,804	2009
106,096	41,992	-	8,281	12,572	1,696	41,555	2010
116,118	40,580	-	11,883	20,167	306	43,183	2011
114,645	38,066	-	11,243	18,371	1,936	45,029	2012
116,222	37,231	-	13,291	18,944	324	46,432	2013
117,873	34,952	-	15,748	16,116	9	51,048	2014
119,322	30,388	-	19,978	12,744	173	56,038	2015
118,468	33,887	-	21,818	10,310	2,619	49,835	2016
131,464	36,094	111	22,845	14,508	3,786	54,120	2017
131,520	34,201	-	25,679	15,953	5,439	50,247	2018
132,667	30,599	-	26,660	16,153	5,255	54,000	2019
115,373	24,262	-	23,285	15,571	4,898	47,358	2020
117,106	19,634	-	19,489	13,027	2,793	62,162	2021
117,752	27,061	118	24,469	13,240	1,751	51,113	2022
112,932	27,272	-	24,575	12,599	5,594	42,893	2023
108,803	27,596	187	17,350	14,435	9,538	39,697	2024
Total	Asia	Middle East	Europe	North America	Centre and South America	Others ²	
Bituminous Coal ¹							

1. Coking coal, other bituminous and sub-bituminous coal.

2. Africa, Oceania, Others

Source: Korea International Trade Association

1-4. 지역별 원유 수입

Crude Oil Imports by Region

단위: 천배럴

Unit: Thousand Barrels

	합계	중동				아시아	아프리카	아메리카 및 유럽
			사우디	아랍에미리트	쿠웨이트			
1990	308,368	229,017	39,616	49,877	17,069	62,530	9,689	7,132
1991	399,303	294,357	133,588	46,135	-	82,695	5,551	16,701
1992	509,378	380,452	155,104	53,206	14,372	95,033	12,822	21,071
1993	560,563	430,839	172,413	57,576	29,334	96,233	15,790	17,702
1994	573,714	439,330	177,619	48,598	27,239	91,083	23,225	20,077
1995	624,945	486,528	226,863	70,536	25,233	82,050	37,911	18,456
1996	721,927	561,098	252,665	91,620	41,134	98,631	37,024	25,174
1997	873,415	645,678	267,888	127,395	55,091	121,372	82,126	24,240
1998	819,094	622,005	234,450	122,022	66,894	113,494	61,907	21,689
1999	874,090	632,067	241,747	117,405	53,284	93,517	109,560	38,946
2000	893,943	686,916	264,925	128,064	66,627	112,669	67,749	26,610
2001	859,367	661,649	255,432	128,405	64,407	130,033	39,155	28,530
2002	790,992	579,865	240,765	105,905	56,996	136,756	35,877	38,494
2003	804,809	639,453	250,473	138,869	65,885	100,721	34,156	30,479
2004	825,790	645,183	253,849	145,598	64,659	116,287	42,874	21,447
2005	843,203	689,356	249,337	150,608	79,679	111,937	34,424	7,487
2006	888,794	730,843	261,563	158,865	92,620	110,306	42,814	4,831
2007	872,541	704,020	249,887	141,887	94,031	131,273	35,557	1,690
2008	864,872	746,458	262,637	158,109	104,593	108,482	9,932	-
2009	835,085	705,363	254,799	114,592	100,090	116,379	11,608	1,734
2010	872,415	713,647	276,787	105,656	103,079	152,354	4,592	1,823
2011	927,044	807,908	291,348	87,234	117,370	108,402	2,772	7,962
2012	947,292	805,971	303,049	86,536	137,647	88,190	9,233	43,899
2013	915,075	786,813	286,588	110,809	139,853	97,047	8,096	23,119
2014	927,524	778,923	292,592	108,472	136,546	88,623	25,301	34,678
2015	1,026,107	844,637	305,779	99,835	141,856	106,263	26,691	48,516
2016	1,078,119	926,201	324,448	87,743	159,273	72,756	30,496	48,667
2017	1,118,167	913,446	319,221	90,971	160,368	97,233	28,189	79,300
2018	1,116,281	820,994	323,174	72,030	162,005	122,832	40,901	131,554
2019	1,071,923	752,564	296,871	88,811	150,587	107,943	19,928	191,489
2020	980,259	676,409	325,808	77,563	129,699	88,493	24,549	190,808
2021	960,147	574,430	281,774	56,809	101,721	113,932	32,000	239,785
2022	1,031,283	695,122	339,567	85,235	103,656	91,418	27,703	217,040
2023	1,005,770	723,134	327,603	109,866	96,195	69,224	16,048	197,364
2024	1,029,398	736,192	331,025	140,641	79,824	44,840	17,973	230,393
	Total	Middle East	Saudi Arabia	U.A.E	Kuwait	Asia	Africa	America and Europe

자료: 한국석유공사

Source: Korea National Oil Corporation

1-5. 국별 천연가스 수입

LNG Imports by Country

단위: 천톤

Unit: Thousand Tons

	합계	인도네시아	카타르	말레이시아	오만	미국	호주	기타
1990	2,237	2,237	-	-	-	0	-	-
1991	2,494	2,436	-	58	-	-	-	-
1992	2,994	2,935	-	58	-	-	-	-
1993	4,459	4,112	-	290	-	-	57	-
1994	5,996	5,433	-	292	-	-	-	271
1995	6,756	4,892	-	1,040	-	-	114	710
1996	9,258	5,975	-	2,573	-	0	56	654
1997	11,471	6,730	-	3,928	-	-	-	813
1998	10,189	6,736	-	2,851	-	-	-	602
1999	12,284	7,943	480	3,046	-	0	-	815
2000	15,239	6,633	3,251	2,529	1,619	0	54	1,153
2001	15,318	4,055	4,655	2,175	3,784	0	57	591
2002	17,993	5,256	5,123	2,400	3,970	0	176	1,068
2003	19,308	5,200	5,694	2,798	4,714	-	123	779
2004	21,781	5,290	5,818	4,638	4,411	0	285	1,339
2005	22,317	5,502	6,211	4,688	4,244	-	748	925
2006	25,256	5,060	6,458	5,546	5,221	-	701	2,270
2007	25,569	3,755	8,031	6,161	4,792	0	422	2,407
2008	27,259	3,053	8,744	6,247	4,544	-	398	4,273
2009	25,822	3,084	6,973	5,874	4,551	-	1,314	4,026
2010	29,860	5,060	6,997	4,331	4,128	232	849	8,262
2011	36,685	7,894	8,153	4,144	4,195	113	787	11,398
2012	36,184	7,445	10,278	4,082	4,127	57	832	9,362
2013	39,876	5,627	13,354	4,314	4,331	-	620	11,629
2014	37,107	5,176	12,853	3,673	3,726	-	836	10,842
2015	33,366	3,776	12,442	3,698	3,990	-	1,952	7,507
2016	33,453	4,362	11,880	3,813	4,081	28	4,695	4,595
2017	37,537	3,542	11,554	3,749	4,231	1,959	6,997	5,505
2018	44,015	3,447	14,245	3,702	4,282	4,658	7,871	5,811
2019	40,748	2,336	11,311	4,802	3,946	5,226	7,775	5,353
2020	39,982	2,699	9,087	4,918	3,900	5,762	7,972	5,646
2021	45,932	2,387	11,464	3,906	4,415	8,478	9,465	5,818
2022	46,394	3,226	9,727	5,516	4,757	5,759	11,651	5,758
2023	44,117	2,909	8,605	6,115	4,966	5,113	10,422	5,987
2024	46,318	3,039	8,881	6,133	4,726	5,636	11,402	6,500
	Total	Indonesia	Qatar	Malaysia	Oman	United States	Australia	Others ¹

자료: 한국석유공사

Source: Korea National Oil Corporation

1-6. 일차에너지공급

단위: 천toe

	합계	석탄	유연탄 및 기타		가스	석유	원자력
			무연탄	유연탄 및 기타			
1990	89,280	24,523	9,339	15,183	2,958	47,387	13,222
1991	96,801	26,000	7,518	18,482	3,159	52,669	14,078
1992	110,524	25,880	6,176	19,703	3,946	65,770	14,133
1993	125,000	28,192	5,095	23,097	5,759	75,433	14,535
1994	132,512	28,757	3,377	25,380	7,717	80,761	14,663
1995	145,618	31,173	2,669	28,505	8,852	87,805	16,757
1996	156,834	32,647	2,557	30,090	11,690	93,022	18,481
1997	165,755	34,408	2,121	32,287	14,606	96,247	19,271
1998	154,393	36,329	2,196	34,132	13,347	80,482	22,422
1999	167,342	37,011	2,369	34,642	15,955	86,771	25,766
2000	182,689	43,143	3,074	40,069	19,743	90,415	27,241
2001	185,394	45,838	3,673	42,165	19,722	89,798	28,033
2002	195,940	47,987	4,041	43,946	23,797	92,003	29,776
2003	200,902	49,135	4,529	44,606	24,272	92,036	32,418
2004	203,941	51,886	4,287	47,599	27,827	88,397	32,679
2005	211,297	52,975	4,708	48,267	30,367	88,384	36,695
2006	214,584	54,361	5,174	49,187	32,023	87,915	37,187
2007	226,297	58,149	5,560	52,589	34,665	99,388	30,731
2008	228,977	64,925	5,872	59,052	33,792	94,191	32,456
2009	235,726	67,094	5,673	61,420	35,138	97,613	31,771
2010	253,862	76,008	5,998	70,010	41,681	99,640	31,948
2011	267,206	82,386	6,796	75,591	47,318	98,629	33,265
2012	266,634	79,059	5,021	74,038	49,554	100,474	31,719
2013	269,532	80,538	5,140	75,397	51,943	101,307	29,283
2014	271,253	82,764	4,867	77,897	47,409	100,793	33,002
2015	276,794	83,650	5,189	78,462	43,958	106,387	34,765
2016	287,905	83,874	5,348	78,526	45,524	115,344	34,181
2017	296,713	89,780	4,109	85,671	48,564	116,068	31,615
2018	300,791	91,017	4,644	86,373	55,090	114,451	28,437
2019	297,568	85,003	3,956	81,047	53,875	115,409	31,079
2020	285,551	76,003	3,605	72,398	53,915	107,990	34,119
2021	300,365	76,818	3,683	73,135	59,594	115,205	33,657
2022	303,807	75,803	3,349	72,454	59,096	114,676	37,500
2023	298,138	73,507	2,908	70,600	56,718	111,036	38,445
2024	304,253	69,664	2,989	66,675	60,871	113,860	40,205
	Total	Coal	Anthracite	Bituminous and Others	Natural gas	Oil	Nuclear

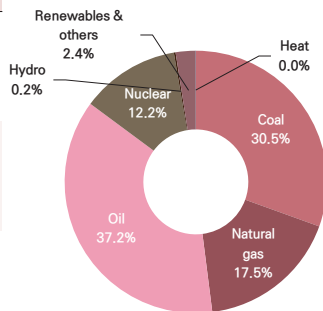
주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

1-6. Total Primary Energy Supply

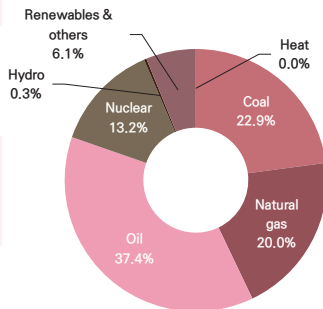
Unit: Thousand toe

수력	신재생 및 기타	열	
1,171	16	3	1990
872	21	3	1991
774	19	2	1992
1,057	22	3	1993
587	25	3	1994
690	337	3	1995
606	386	3	1996
703	517	2	1997
1,070	733	9	1998
1,040	793	7	1999
1,002	1,135	10	2000
582	1,407	13	2001
808	1,556	14	2002
1,226	1,796	20	2003
1,082	2,051	19	2004
919	1,946	12	2005
867	2,214	17	2006
781	2,569	14	2007
660	2,917	38	2008
616	3,447	49	2009
797	3,773	16	2010
989	4,483	135	2011
838	4,867	124	2012
906	5,442	113	2013
581	6,636	68	2014
454	7,455	125	2015
603	8,261	117	2016
601	9,959	127	2017
719	11,009	68	2018
594	11,541	66	2019
826	12,625	73	2020
651	14,373	68	2021
755	15,909	69	2022
792	17,604	35	2023
916	18,667	71	2024
Hydro	Renewables & others	Heat	

2014 271.3 Mtoe



2024 304.3 Mtoe



Note: From 2007, figures are based on revised calorific value every 5 years

1-7. 최종소비

단위: 천toe

	합계	석탄	천연가스	도시가스	석유제품	수력
1990	71,150	20,529	5	1,012	41,591	-
1991	80,179	21,164	6	1,540	48,613	-
1992	89,967	19,952	9	2,216	58,021	-
1993	99,777	20,572	18	3,002	65,356	-
1994	109,322	19,569	15	4,029	73,286	-
1995	116,507	19,422	12	5,452	76,814	-
1996	125,593	20,589	1	6,929	81,456	-
1997	134,386	20,240	0	8,033	87,717	-
1998	121,926	19,315	0	8,370	76,238	-
1999	132,921	19,764	2	10,455	82,739	-
2000	141,000	21,260	207	12,510	84,409	-
2001	143,622	21,823	569	13,031	83,759	-
2002	150,319	22,766	623	14,305	86,294	-
2003	154,107	23,745	595	15,212	86,604	4
2004	156,559	24,394	765	15,912	85,685	5
2005	159,700	23,826	632	17,672	85,986	0
2006	162,883	24,264	1,318	17,963	86,255	0
2007	167,623	25,695	838	18,599	87,399	0
2008	169,049	27,864	714	19,632	84,044	0
2009	170,068	25,145	910	19,810	86,249	11
2010	184,372	30,256	960	22,361	88,981	5
2011	193,576	35,732	999	23,288	89,678	0
2012	193,597	33,267	1,060	24,464	89,316	0
2013	194,844	32,819	1,041	24,972	89,530	1
2014	195,773	36,262	1,018	21,488	90,177	1
2015	198,704	35,565	1,132	21,305	93,333	1
2016	206,217	34,302	1,783	21,928	99,092	3
2017	213,147	35,171	1,830	23,122	101,576	2
2018	214,407	35,377	1,786	23,793	99,734	3
2019	212,133	34,046	1,927	23,094	100,457	1
2020	203,932	32,387	2,078	22,632	94,841	0
2021	216,245	33,915	2,097	23,382	102,260	1
2022	213,481	30,842	2,120	23,837	100,520	1
2023	208,506	30,995	2,823	22,105	96,585	0
2024	212,348	30,247	4,303	21,700	99,892	0
	Total	Coal	Natural gas	City gas	Petroleum	Hydro

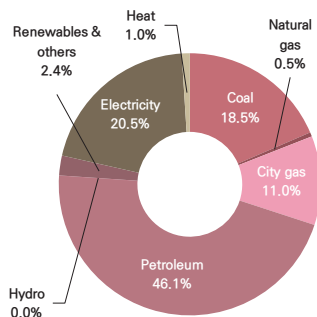
주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

1-7. Total Final Consumption

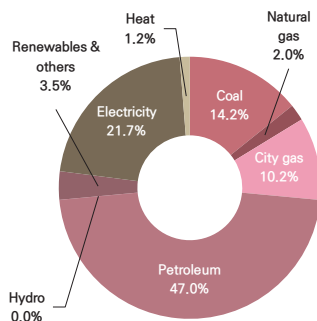
Unit: Thousand toe

신재생 및 기타	전기	열	
16	7,997	-	1990
21	8,835	-	1991
19	9,751	-	1992
22	10,806	-	1993
25	12,398	-	1994
337	13,832	637	1995
386	15,425	809	1996
517	16,953	928	1997
733	16,386	884	1998
792	18,136	1,033	1999
1,132	20,273	1,208	2000
1,403	21,822	1,217	2001
1,523	23,584	1,224	2002
1,755	24,796	1,395	2003
1,996	26,353	1,449	2004
1,860	28,072	1,652	2005
2,108	29,427	1,549	2006
2,407	31,108	1,576	2007
2,659	32,467	1,669	2008
2,994	33,235	1,715	2009
3,261	36,595	1,953	2010
3,599	38,325	1,954	2011
4,140	39,264	2,085	2012
4,490	39,943	2,049	2013
4,785	40,103	1,938	2014
4,832	40,630	1,905	2015
5,343	41,692	2,075	2016
6,564	42,582	2,300	2017
7,040	44,139	2,535	2018
6,508	43,628	2,471	2019
6,668	42,733	2,592	2020
7,141	44,748	2,701	2021
7,265	45,950	2,946	2022
7,295	45,813	2,889	2023
7,419	46,146	2,640	2024
Renewables & others	Electricity	Heat	

■ 2014 195.8 Mtoe



■ 2024 212.3 Mtoe



Note: From 2007, figures are based on revised calorific value every 5 years

1-8. 부문별 최종소비

단위: 천toe

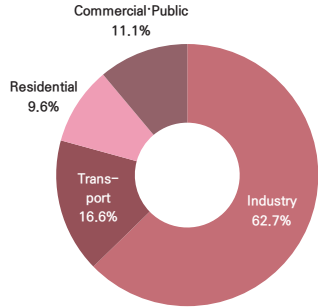
	합계	산업						전기	열
			석탄	천연가스	도시가스	석유제품	신재생 및 기타		
1990	71,150	36,799	11,943	5	235	19,641	-	4,975	-
1991	80,179	43,113	14,372	6	313	22,958	-	5,464	-
1992	89,967	50,077	14,947	9	377	28,841	-	5,904	-
1993	99,777	57,473	17,101	18	460	33,492	-	6,402	-
1994	109,322	61,691	17,514	15	601	36,358	-	7,203	-
1995	116,507	62,275	18,091	12	863	35,192	33	8,085	-
1996	125,593	67,031	19,721	1	1,158	37,190	13	8,949	-
1997	134,386	72,548	19,626	0	1,495	41,643	33	9,752	-
1998	121,926	71,674	18,829	0	1,813	41,679	246	9,107	-
1999	132,921	76,081	19,323	2	2,531	43,862	256	10,107	-
2000	141,000	81,006	20,789	207	3,308	45,030	624	11,047	-
2001	143,622	81,707	21,500	569	3,612	44,081	612	11,335	-
2002	150,319	85,105	22,446	623	3,984	45,449	542	12,060	-
2003	154,107	86,781	23,430	595	4,177	45,465	633	12,480	-
2004	156,559	89,006	23,929	765	4,382	46,042	758	13,130	-
2005	159,700	90,070	23,151	632	4,655	46,612	1,189	13,830	-
2006	162,883	92,597	23,484	1,318	4,847	47,288	1,202	14,458	-
2007	167,623	97,377	24,951	838	5,225	49,601	1,336	15,426	-
2008	169,049	98,690	27,045	714	5,933	47,434	1,476	16,089	-
2009	170,068	99,034	24,438	910	5,891	49,849	1,631	16,316	-
2010	184,372	109,779	29,571	960	7,329	51,920	1,550	18,449	-
2011	193,576	119,520	35,042	999	8,383	53,194	1,884	20,018	-
2012	193,597	118,731	32,607	1,060	9,443	52,983	2,076	20,562	-
2013	194,844	120,198	32,125	1,041	10,060	53,151	2,627	21,194	-
2014	195,773	122,769	35,668	1,018	7,684	53,631	2,980	21,788	-
2015	198,704	122,520	35,026	1,132	7,539	53,966	2,977	21,880	-
2016	206,217	126,284	33,775	1,783	7,456	57,970	3,135	22,165	-
2017	213,147	131,574	34,710	1,830	7,953	60,217	4,155	22,710	-
2018	214,407	131,130	34,990	1,786	7,842	58,942	4,281	23,289	0
2019	212,133	129,609	33,740	1,927	7,692	59,336	3,990	22,925	0
2020	203,932	124,199	32,147	2,078	7,345	56,690	4,030	21,908	0
2021	216,245	133,541	33,704	2,097	7,855	62,312	4,392	23,182	-
2022	213,481	129,554	30,643	2,120	7,784	60,966	4,471	23,570	-
2023	208,506	126,463	30,812	2,823	7,199	58,334	4,208	23,086	-
2024	212,348	130,720	30,086	4,303	7,183	62,236	4,208	22,704	-
	Total	Industry	Coal	Natural gas	City gas	Petroleum	Renewables & others	Electricity	Heat

1-8. Total Final Consumption by Sector

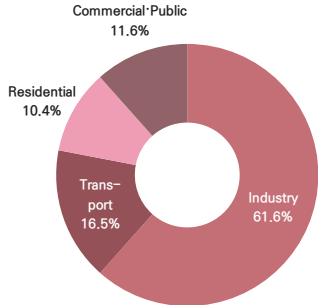
Unit: Thousand toe

수송	도시가스	석유제품	신재생 및 기타	전기	
12,140	-	12,053	-	87	1990
13,703	-	13,609	-	94	1991
15,514	-	15,413	-	101	1992
19,543	-	19,435	-	108	1993
20,351	-	20,227	-	124	1994
22,920	-	22,765	-	155	1995
24,429	-	24,284	-	145	1996
26,202	-	26,051	-	151	1997
20,481	-	20,345	-	136	1998
22,373	-	22,225	-	149	1999
25,007	-	24,831	-	175	2000
26,225	7	26,024	-	194	2001
28,007	80	27,733	-	195	2002
29,001	146	28,655	-	200	2003
29,178	237	28,728	-	213	2004
29,565	339	29,002	-	224	2005
30,928	475	30,192	43	218	2006
30,496	615	29,577	95	209	2007
30,007	777	28,857	177	196	2008
30,389	960	28,981	261	187	2009
31,009	1,112	29,352	357	188	2010
31,016	1,174	29,302	347	193	2011
31,502	1,246	29,705	357	194	2012
32,017	1,302	30,154	375	186	2013
32,406	1,306	30,534	394	172	2014
34,509	1,281	32,596	441	191	2015
36,029	1,270	34,005	523	231	2016
36,260	1,253	34,196	564	246	2017
36,227	1,238	34,038	686	265	2018
37,193	1,216	35,021	685	271	2019
34,745	1,099	32,666	695	285	2020
36,636	1,060	34,554	704	318	2021
36,298	1,025	34,238	682	353	2022
35,334	988	33,226	696	424	2023
34,970	933	32,781	764	492	2024
Transport	City gas	Petro-leum	Renewables & others	Elec-tricity	

■ 2014 195.8 Mtoe



■ 2024 212.3 Mtoe



1-8. 부문별 최종소비(계속)

단위: 천toe

	가정						
		석탄	도시가스	석유제품	신재생 및 기타	전기	열
1990	11,262	8,023	454	1,254	6	1,525	-
1991	10,300	6,347	809	1,462	7	1,675	-
1992	9,868	4,817	1,335	1,834	7	1,874	-
1993	9,615	3,341	1,920	2,288	9	2,057	-
1994	9,235	1,978	2,658	2,304	12	2,284	-
1995	10,712	1,327	3,655	2,656	37	2,434	603
1996	11,713	865	4,610	2,809	33	2,635	761
1997	12,075	612	5,284	2,442	70	2,796	871
1998	10,962	464	5,330	1,444	64	2,830	829
1999	13,837	422	6,399	3,021	61	2,974	960
2000	16,284	450	7,353	4,099	78	3,191	1,113
2001	17,020	288	7,526	4,658	73	3,372	1,102
2002	17,791	285	8,109	4,566	77	3,636	1,118
2003	17,877	280	8,531	4,010	72	3,833	1,151
2004	18,063	325	8,636	3,574	65	4,181	1,283
2005	20,117	483	9,344	4,386	79	4,375	1,449
2006	19,612	572	9,232	3,845	79	4,517	1,367
2007	18,872	557	9,226	2,968	71	4,659	1,391
2008	19,347	626	9,330	3,019	66	4,836	1,472
2009	19,349	550	9,369	2,815	136	4,953	1,525
2010	20,733	542	10,135	2,974	77	5,263	1,742
2011	20,490	525	10,100	2,757	71	5,295	1,743
2012	20,401	483	10,147	2,384	91	5,464	1,832
2013	20,166	487	10,024	2,199	157	5,501	1,797
2014	18,876	417	9,141	2,097	111	5,390	1,720
2015	18,939	379	9,130	2,064	217	5,486	1,663
2016	20,150	361	9,647	2,382	299	5,691	1,771
2017	20,927	316	10,238	2,323	375	5,720	1,955
2018	22,122	265	10,901	2,335	417	6,079	2,125
2019	21,560	280	10,479	2,152	510	6,059	2,080
2020	22,356	219	10,900	2,097	569	6,370	2,200
2021	22,940	193	11,104	2,096	612	6,670	2,265
2022	23,575	198	11,469	2,026	695	6,756	2,432
2023	22,334	182	10,392	1,832	727	6,870	2,331
2024	22,057	160	10,018	1,769	761	7,261	2,089
	Residential	Coal	City gas	Petroleum	Renewables & others	Electricity	Heat

1-8. Total Final Consumption by Sector(continue)

Unit: Thousand toe

상업·공공	석탄	도시가스	석유제품	수력	신재생 및 기타	전기	열	
10,948	563	323	8,642	-	11	1,409	-	1990
13,063	446	418	10,584	-	14	1,601	-	1991
14,509	188	503	11,934	-	11	1,872	-	1992
13,146	130	623	10,141	-	13	2,239	-	1993
18,044	77	770	14,398	-	13	2,787	-	1994
20,600	5	935	16,201	-	266	3,159	34	1995
22,420	3	1,161	17,172	-	340	3,696	48	1996
23,560	2	1,254	17,581	-	414	4,253	57	1997
18,809	22	1,227	12,770	-	423	4,313	55	1998
20,630	20	1,526	13,631	-	475	4,906	72	1999
18,703	21	1,849	10,448	-	430	5,860	95	2000
18,670	35	1,886	8,996	-	718	6,921	115	2001
19,416	35	2,132	8,547	-	904	7,693	106	2002
20,448	34	2,358	8,474	4	1,050	8,283	244	2003
20,312	140	2,656	7,341	5	1,174	8,829	166	2004
19,948	191	3,333	5,986	0	592	9,643	202	2005
19,745	208	3,409	4,930	0	783	10,234	182	2006
20,879	186	3,534	5,254	0	906	10,814	185	2007
21,004	194	3,592	4,734	0	941	11,346	198	2008
21,297	157	3,591	4,604	11	967	11,779	189	2009
22,851	143	3,785	4,735	5	1,277	12,694	211	2010
22,550	165	3,630	4,426	0	1,298	12,819	211	2011
22,963	177	3,628	4,245	0	1,617	13,044	252	2012
22,464	207	3,586	4,027	1	1,331	13,061	252	2013
21,722	177	3,357	3,916	1	1,300	12,754	218	2014
22,735	161	3,355	4,706	1	1,197	13,073	242	2015
23,754	166	3,555	4,734	3	1,387	13,605	304	2016
24,386	145	3,677	4,841	2	1,471	13,906	345	2017
24,929	122	3,812	4,419	3	1,656	14,506	410	2018
23,770	26	3,708	3,948	1	1,323	14,372	391	2019
22,632	21	3,289	3,387	0	1,374	14,169	393	2020
23,128	18	3,364	3,299	1	1,434	14,578	435	2021
24,054	1	3,558	3,290	1	1,418	15,271	514	2022
24,375	1	3,526	3,193	0	1,663	15,432	558	2023
24,600	1	3,565	3,107	0	1,687	15,689	551	2024
Commercial·Public	Coal	City gas	Petroleum	Hydro	Renewables & others	Electricity	Heat	

1-9. 에너지 다소비 산업의 에너지 소비

단위: 천toe

	제조업	다소비산업 (A+B+C)	비중 (%)	화학 및 석유화학 (A)							철강 (B)	
				석탄	천연 가스	도시 가스	석유 제품	신재생 및 기타	전기	석탄		
1990	32,968	21,264	65	9,334	173	-	13	8,331	-	818	10,192	8,311
1991	39,049	25,986	67	11,832	209	-	17	10,644	-	961	12,206	10,172
1992	45,385	31,715	70	16,679	296	-	25	15,274	-	1,084	12,911	10,579
1993	52,170	35,998	69	18,661	441	-	28	16,974	-	1,218	14,495	11,856
1994	56,560	40,269	71	23,027	464	-	34	21,209	-	1,319	14,512	11,569
1995	56,903	39,476	69	21,596	609	-	54	19,516	-	1,416	15,367	12,175
1996	61,079	42,238	69	23,292	697	-	77	20,949	-	1,569	16,006	12,713
1997	65,983	46,933	71	28,134	1,397	-	110	24,886	-	1,740	15,574	12,541
1998	65,982	48,917	74	30,499	1,397	-	164	27,041	172	1,726	15,597	12,779
1999	70,023	51,091	73	31,625	1,447	-	214	27,969	143	1,852	16,227	12,974
2000	74,581	53,938	72	33,514	1,479	-	319	29,565	168	1,983	17,094	13,597
2001	74,718	54,066	72	33,327	1,445	-	333	29,325	178	2,046	17,342	13,693
2002	78,179	56,852	73	35,301	1,478	-	400	31,016	259	2,150	17,904	14,155
2003	80,325	58,556	73	36,433	1,408	-	447	32,094	260	2,225	18,287	14,523
2004	82,641	61,441	74	38,291	2,151	-	437	33,096	269	2,338	18,883	14,863
2005	83,874	62,655	75	38,891	1,639	-	450	34,266	131	2,404	18,852	14,715
2006	86,165	65,033	75	40,110	1,642	-	398	35,443	192	2,436	19,805	14,914
2007	91,095	69,455	76	43,420	1,599	-	760	38,318	196	2,548	21,147	16,257
2008	92,934	71,453	77	43,054	1,817	-	1,157	37,201	178	2,699	23,015	17,925
2009	92,741	71,236	77	45,591	1,953	-	1,077	39,627	184	2,750	20,201	15,469
2010	103,432	80,402	78	48,754	2,321	-	1,648	41,663	154	2,967	25,394	19,939
2011	113,354	88,824	78	52,787	3,024	-	2,207	44,018	215	3,322	29,231	23,513
2012	112,657	88,785	79	53,295	2,824	-	2,150	44,676	171	3,473	28,397	22,863
2013	113,961	90,220	79	54,825	2,382	-	3,240	45,303	321	3,579	28,116	22,574
2014	117,215	93,962	80	55,165	3,069	-	1,609	46,604	132	3,751	31,219	25,628
2015	116,795	93,102	80	55,394	2,967	-	1,391	46,923	301	3,812	30,208	24,895
2016	120,356	96,167	80	59,559	3,320	-	1,012	50,660	602	3,965	28,851	23,572
2017	125,288	100,814	80	62,568	3,830	-	998	52,732	905	4,103	29,726	24,304
2018	125,020	102,204	82	63,289	3,716	-	1,994	51,937	1,405	4,236	29,928	24,601
2019	123,894	101,354	82	62,695	3,405	-	1,794	52,096	1,186	4,215	29,406	24,176
2020	118,423	96,940	82	60,412	3,775	-	1,777	49,464	1,138	4,259	27,444	22,792
2021	127,926	104,835	82	67,261	4,137	76	1,979	54,918	1,558	4,593	27,941	23,506
2022	124,140	101,349	82	65,339	3,193	316	1,922	53,969	1,345	4,594	25,901	21,797
2023	121,061	98,305	81	61,800	3,553	201	1,583	51,061	812	4,592	26,306	22,067
2024	125,357	103,464	83	66,486	3,510	561	1,751	55,183	830	4,652	26,126	21,716
	Manufac- turing	Energy Consuming Industries	Share (%)	Chemical and petroche- mical	Coal	Natural gas	City gas	Petro- leum	Renew- ables & others	Elec- tricity	Iron and steel	Coal

1-9. Energy Consumption of Energy-Intensive Industries

Unit: Thousand toe

천연 가스	도시 가스	석유 제품	신재생 및 기타	전기	기계류 (C)	석탄	천연 가스	도시 가스	석유 제품	신재생 및 기타	전기	
-	64	952	-	865	1,737	-	-	85	612	-	1,040	1990
-	86	1,051	-	898	1,948	-	-	114	683	-	1,152	1991
-	103	1,303	-	926	2,126	-	-	130	754	-	1,242	1992
-	126	1,430	-	1,083	2,841	-	-	159	1,307	-	1,376	1993
-	171	1,607	-	1,165	2,731	-	-	197	872	-	1,662	1994
-	209	1,598	-	1,385	2,514	-	-	278	903	-	1,333	1995
-	270	1,468	-	1,556	2,940	-	-	424	993	-	1,523	1996
-	344	889	-	1,800	3,225	-	-	514	1,022	-	1,689	1997
-	372	713	-	1,733	2,821	-	-	462	771	-	1,588	1998
2	503	1,113	-	1,634	3,238	-	-	609	864	-	1,765	1999
207	647	923	-	1,720	3,330	-	-	721	577	-	2,032	2000
569	715	683	-	1,681	3,397	-	-	739	524	-	2,134	2001
590	719	680	-	1,760	3,647	-	-	786	532	-	2,329	2002
545	797	625	-	1,798	3,837	-	-	800	497	-	2,540	2003
704	885	592	-	1,839	4,268	-	-	887	502	-	2,879	2004
561	972	617	8	1,979	4,912	-	-	948	503	191	3,270	2005
1,216	1,032	547	-	2,097	5,118	-	-	947	468	97	3,605	2006
709	1,219	495	124	2,343	4,888	-	-	445	405	93	3,945	2007
564	1,249	436	112	2,729	5,385	-	-	679	372	69	4,265	2008
674	1,239	270	112	2,436	5,444	-	-	666	299	114	4,365	2009
743	1,460	279	7	2,966	6,254	-	-	768	288	101	5,098	2010
785	1,392	232	7	3,302	6,807	-	-	911	240	97	5,559	2011
829	1,333	136	5	3,231	7,093	-	-	875	206	92	5,919	2012
784	1,376	106	4	3,271	7,279	-	-	811	173	74	6,222	2013
740	1,267	100	13	3,472	7,578	-	-	1,089	190	-	6,299	2014
863	1,155	106	7	3,182	7,500	-	-	1,020	87	1	6,392	2015
980	1,191	80	4	3,024	7,758	104	-	1,027	95	29	6,502	2016
1,036	1,238	90	4	3,055	8,520	281	-	1,086	81	194	6,879	2017
1,019	1,239	68	4	2,997	8,987	151	-	1,207	78	253	7,298	2018
1,104	1,232	76	11	2,805	9,254	266	-	1,250	78	364	7,296	2019
1,266	1,030	70	11	2,275	9,083	178	-	1,288	80	432	7,107	2020
1,033	1,096	67	12	2,228	9,632	182	-	1,393	81	275	7,700	2021
742	1,076	56	3	2,228	10,110	174	35	1,422	81	439	7,959	2022
1,057	1,088	58	18	2,018	10,199	160	432	1,377	78	351	7,801	2023
1,463	1,034	43	17	1,854	10,852	160	1,149	1,337	76	415	7,714	2024
Natural gas	City gas	Petro- leum	Renew- ables & others	Elec- tricity	Machinery	Coal	Natural gas	City gas	Petro- leum	Renew- ables & others	Elec- tricity	

1-10. 천연가스 수급

단위: 천톤

	일차에너지공급	천연가스 수급		
		국내생산	수입	재고변화
1990	2,275	-	2,237	38
1991	2,430	-	2,494	-64
1992	3,036	-	2,994	42
1993	4,430	-	4,459	-29
1994	5,936	-	5,996	-60
1995	6,810	-	6,756	54
1996	8,992	-	9,258	-266
1997	11,235	-	11,471	-236
1998	10,267	-	10,189	78
1999	12,273	-	12,284	-12
2000	15,187	-	15,239	-52
2001	15,171	-	15,318	-147
2002	18,305	-	17,993	312
2003	18,671	-	19,308	-638
2004	21,405	163	21,781	-539
2005	23,359	398	22,317	643
2006	24,633	355	25,256	-977
2007	26,665	271	25,569	825
2008	25,994	181	27,259	-1,447
2009	27,029	383	25,822	824
2010	32,063	415	32,603	-956
2011	36,398	347	36,685	-634
2012	38,001	334	36,184	1,483
2013	39,834	355	39,876	-397
2014	36,357	247	37,107	-997
2015	33,710	144	33,366	200
2016	34,911	118	33,453	1,339
2017	37,185	261	37,537	-613
2018	42,183	234	44,015	-2,067
2019	41,252	198	40,748	305
2020	41,282	142	39,982	1,183
2021	45,631	42	45,932	-321
2022	45,180	-	46,394	-1,206
2023	43,362	-	44,117	-743
2024	46,537	-	46,318	237
	TPES	Production	Imports	Stock changes

1. 석유정제, LNG 생산기지 내의 설비 운용 등

2. 최종소비

자료 : 한국가스공사, LNG 직도입사, 한국무역협회

1-10. Natural Gas Overview

Unit: Thousand Tons

일차에너지소비						
	발전전용	열병합·열전용	가스제조	전환자체소비 ¹	산업 ²	
2,317	1,741	-	572	-	4	1990
2,679	1,800	-	875	-	5	1991
3,481	2,019	206	1,250	-	7	1992
4,365	1,661	857	1,834	-	14	1993
5,783	1,709	1,620	2,442	-	12	1994
6,979	1,680	1,882	3,408	-	9	1995
9,204	2,427	2,195	4,581	-	0	1996
11,380	3,147	2,229	5,770	233	0	1997
10,643	2,466	1,723	6,233	221	0	1998
12,960	2,858	1,909	7,886	305	2	1999
14,554	2,575	1,954	9,528	337	160	2000
15,986	3,004	1,846	10,299	398	438	2001
17,757	4,086	1,968	11,169	54	479	2002
18,610	4,116	1,933	11,939	164	458	2003
21,786	6,281	1,973	12,456	487	589	2004
23,298	6,664	1,959	13,978	211	486	2005
25,090	7,980	2,033	13,879	185	1,014	2006
26,659	7,823	3,706	14,350	136	645	2007
27,439	7,495	4,021	15,201	173	549	2008
25,981	6,421	3,479	15,328	52	700	2009
32,956	9,462	5,127	17,354	274	739	2010
35,500	12,707	3,465	18,090	470	769	2011
38,398	13,747	4,095	19,381	363	813	2012
40,205	15,663	4,201	19,400	144	798	2013
36,582	14,132	3,591	17,967	111	781	2014
33,440	12,336	3,445	16,732	56	868	2015
34,897	12,227	3,994	17,184	123	1,367	2016
36,376	12,010	4,411	18,199	363	1,401	2017
42,269	14,802	5,562	19,624	919	1,367	2018
40,990	14,016	5,390	18,633	1,479	1,476	2019
41,458	14,258	5,721	18,045	1,848	1,591	2020
45,781	16,943	6,306	19,118	1,817	1,605	2021
45,449	16,096	6,579	19,643	1,514	1,621	2022
43,918	15,134	6,485	18,129	2,020	2,159	2023
46,444	15,921	6,798	18,204	2,230	3,290	2024
TPEC	Electricity-only	CHP/Heat-only	Gas manufacturing	Transformation own use ¹	Industry ²	

1. LNG consumption in oil refinery and LNG terminals

2. Total final consumption

Source: Korea Gas Corporation, LNG Importers and International Trade Association

1-11. 원유 및 정제원료 수급

단위: 천배럴

	생산	수입	중동의존도(%)	수출	재고변화
1990	-	310,494	74.3	-	3,469
1991	-	399,976	73.7	-	-1,136
1992	-	512,082	74.7	601	-1,143
1993	-	566,233	76.9	503	-1,919
1994	-	586,912	76.6	794	-10,651
1995	-	644,020	77.9	167	5,252
1996	-	737,722	77.7	1,502	-2,254
1997	-	877,676	73.9	1,430	1,218
1998	-	822,564	75.9	257	9,018
1999	-	881,320	72.3	282	-1,876
2000	-	899,809	76.8	743	-442
2001	-	868,237	77.0	770	1,998
2002	-	800,488	73.3	932	-2,585
2003	-	812,494	79.5	326	-21,284
2004	-	830,674	78.1	96	2,073
2005	407	851,327	81.8	29	10,229
2006	333	892,296	82.2	21	-7,865
2007	236	873,674	80.7	489	10,919
2008	155	866,659	86.3	1,686	1,447
2009	321	837,008	84.5	2,233	4,441
2010	380	874,666	81.8	3,330	-1,896
2011	285	928,736	87.1	4,039	-3,928
2012	263	949,058	85.1	2,473	-2,057
2013	290	918,634	86.0	1,988	-6,060
2014	198	933,736	84.0	992	-8,093
2015	115	1,030,315	82.3	2,400	-10,774
2016	104	1,084,066	85.9	3,597	-4,172
2017	217	1,124,938	81.7	2,447	-1,633
2018	189	1,126,403	73.5	4,124	-8,626
2019	155	1,075,973	70.2	769	5,758
2020	103	987,422	69.0	448	1,876
2021	36	973,734	59.8	1,782	1,928
2022	17	1,047,685	67.4	1,848	-3,290
2023	-	1,018,299	71.9	2,515	4,688
2024	-	1,039,832	71.5	2,605	1,213
	Production	Imports	Dependence on Middle East(%)	Exports	Stock changes

1. 석유제품 생산(정제투입), 가스제조 등의 공정에 투입된 물량으로 음수는 이 공정을 통하여 해당 에너지상품이 생산되었음을 의미

2. 첨가물과 기타탄화수소

3. 국내 모든 정유사 정제능력의 합계

주: 원유, 정제원료, 첨가물, 기타탄화수소의 합계

자료: 한국석유공사-PEDSIS, 대한석유협회

1-11. Crude Oil & Refinery Feedstocks Overview

Unit: Thousand Barrels

일차에너지공급	전환과정 ¹				정제능력 ³ (1,000BPSD)	
		원유	정제원료	기타 ²		
313,963	313,973	312,045	1,928	-0	840	1990
398,839	398,877	398,030	846	0	1,035	1991
510,338	510,450	508,619	1,830	-0	1,675	1992
563,812	564,548	558,537	6,011	-0	1,675	1993
575,467	576,085	563,819	12,266	0	1,700	1994
649,105	649,293	631,266	18,027	-	1,818	1995
733,966	734,715	720,131	14,584	0	2,438	1996
877,464	877,440	871,986	5,311	144	2,438	1997
831,325	833,014	825,895	7,115	3	2,438	1998
879,161	879,466	873,299	6,317	-150	2,438	1999
898,624	897,543	892,224	6,031	-712	2,438	2000
869,465	869,395	860,166	10,004	-775	2,438	2001
796,972	809,469	787,290	22,901	-722	2,438	2002
790,885	794,658	783,518	11,343	-202	2,438	2003
832,651	832,238	826,967	4,904	367	2,735	2004
861,934	860,864	852,544	7,603	717	2,735	2005
884,743	881,453	878,417	2,230	806	2,735	2006
884,340	882,291	882,409	-925	807	2,765	2007
866,575	863,787	865,680	-3,270	1,377	2,785	2008
839,537	835,024	838,419	-4,406	1,012	2,835	2009
869,820	869,469	872,263	-4,157	1,363	2,845	2010
921,053	926,980	924,447	1,399	1,134	2,934	2011
944,792	955,613	946,046	8,668	899	2,949	2012
910,875	922,923	909,539	12,673	711	2,949	2013
924,848	939,156	918,377	21,601	-822	3,009	2014
1,017,256	1,030,109	1,014,957	14,606	546	3,059	2015
1,076,400	1,085,610	1,072,234	12,643	733	3,064	2016
1,121,075	1,153,915	1,116,614	36,670	631	3,105	2017
1,113,842	1,175,276	1,106,317	68,740	219	3,204	2018
1,081,117	1,159,008	1,064,217	94,852	-62	3,204	2019
988,952	1,089,282	980,379	108,936	-33	3,204	2020
973,916	1,089,068	961,384	128,356	-672	3,204	2021
1,042,564	1,155,425	1,026,102	130,311	-988	3,204	2022
1,020,472	1,149,566	1,006,626	142,894	46	3,204	2023
1,038,440	1,178,689	1,027,499	151,761	-571	3,204	2024
TPES	Transformation processes ¹	Crude oil	Refinery feedstocks	Others ²	Refining capacity ³	

1. It is amount input to the process of refining input, gas manufacturing, etc. Negative means that the energy commodity was produced through this process.

2. Additives and other hydrocarbons

3. Sum of capacities of all refineries in South Korea

Note: Sum of crude oil, refinery feedstocks, additives components and other hydrocarbons

Source: Korea National Oil Corporation-PEDSIS, Korea Petroleum Association

1-12. 석유제품 수급

단위: 천배럴

	공급					
	일차에너지공급 ¹	수입	수출	국제병커링	재고변화 ²	정제생산
1990	40,098	101,248	27,184	28,800	-5,166	300,671
1991	1,838	110,042	69,744	37,780	-681	403,172
1992	-6,887	137,011	91,653	46,800	-5,445	498,179
1993	11,981	167,759	103,493	49,606	-2,679	532,859
1994	38,109	190,790	93,132	57,131	-2,418	568,034
1995	15,703	205,428	122,630	65,812	-1,284	630,447
1996	-26,146	215,124	158,329	78,097	-4,844	711,091
1997	-136,697	185,811	231,050	85,613	-5,846	877,979
1998	-202,580	175,895	296,682	84,170	2,377	831,686
1999	-200,723	184,490	297,899	90,849	3,535	882,503
2000	-195,158	204,301	306,293	86,266	-6,900	904,570
2001	-174,426	204,781	295,010	84,520	324	881,784
2002	-89,651	228,557	239,127	85,181	6,100	826,017
2003	-78,840	219,897	209,079	90,960	1,302	807,184
2004	-144,016	195,110	235,506	95,034	-8,585	854,861
2005	-169,829	179,354	262,647	96,055	9,518	886,181
2006	-192,592	191,560	289,070	90,973	-4,109	910,149
2007	-175,113	209,130	292,072	94,500	2,329	908,090
2008	-193,163	224,614	333,764	88,709	4,696	896,189
2009	-141,631	268,214	330,912	81,534	2,602	868,223
2010	-156,202	276,849	341,784	87,436	-3,830	901,813
2011	-215,255	279,260	408,338	86,801	624	962,614
2012	-223,443	309,954	440,897	85,213	-7,286	997,912
2013	-186,766	329,205	429,291	85,548	-1,133	967,180
2014	-209,090	326,623	448,822	86,802	-89	988,461
2015	-265,370	307,875	477,425	93,774	-2,047	1,073,059
2016	-255,629	334,608	487,716	105,124	2,603	1,118,794
2017	-299,983	314,487	509,113	103,695	-1,663	1,185,996
2018	-303,132	341,628	531,563	102,293	-10,905	1,207,900
2019	-256,545	352,147	522,099	94,656	8,063	1,196,345
2020	-210,822	347,376	468,529	90,868	1,198	1,111,458
2021	-142,976	392,317	446,559	89,844	1,109	1,113,422
2022	-232,234	367,072	497,020	102,335	48	1,189,404
2023	-240,928	372,054	494,404	112,404	-6,174	1,183,019
2024	-238,559	393,762	514,246	125,279	7,205	1,216,838
	TPES ¹	Imports	Exports	International Bunkers	Stock changes ²	Petroleum Refining Production
	Supply					

1. 수출이나 국제병커링이 수입이나 재고변화로 인한 공급보다 큰 경우 일차에너지공급은 음수로 표시됨

2. 기초재고-기말재고

3. 가정, 상업, 공공부문 합계

자료: 한국석유공사-PEDSIS

1-12. Petroleum Products Overview

Unit: Thousand Barrels

소비						
발전 및 열생산 투입	전환자체소비	최종소비				
			산업	수송	건물 ³	
29,720	6,177	298,791	136,088	87,424	75,279	1990
42,970	6,730	349,916	160,541	98,632	90,743	1991
53,339	7,482	420,540	205,167	111,881	103,492	1992
50,797	9,983	473,807	244,920	139,901	88,986	1993
57,628	11,135	533,451	262,171	146,564	124,716	1994
64,260	13,730	558,685	253,191	164,992	140,503	1995
65,623	12,823	593,951	267,891	176,718	149,341	1996
59,288	39,540	641,542	302,762	188,658	150,123	1997
24,192	35,504	565,805	307,893	149,551	108,361	1998
26,830	37,094	615,237	324,459	164,076	126,703	1999
41,243	36,267	630,544	334,302	183,621	112,621	2000
44,720	32,992	625,750	326,851	192,874	106,025	2001
39,790	32,289	646,205	338,473	205,299	102,433	2002
40,464	31,979	648,500	339,475	211,798	97,227	2003
34,169	32,274	642,486	345,018	212,454	85,014	2004
31,783	32,965	646,699	350,939	214,711	81,049	2005
30,707	33,117	650,245	357,382	223,716	69,147	2006
31,389	34,100	664,737	376,104	223,823	64,809	2007
18,150	38,291	641,487	361,752	218,940	60,795	2008
24,119	36,936	660,470	381,381	220,471	58,619	2009
22,370	33,486	681,595	397,694	223,353	60,548	2010
16,144	36,233	685,589	406,387	222,535	56,668	2011
23,699	38,174	699,837	419,819	227,457	52,561	2012
24,235	38,481	703,082	422,641	230,691	49,749	2013
12,062	39,214	709,141	428,460	232,807	47,873	2014
13,619	43,816	734,560	433,577	247,511	53,472	2015
20,557	46,129	782,758	469,195	257,307	56,256	2016
9,245	40,552	801,275	487,121	257,708	56,447	2017
9,706	41,677	788,210	478,445	256,066	53,700	2018
7,396	41,759	796,132	483,878	263,189	49,065	2019
5,420	41,309	752,060	461,960	245,380	44,720	2020
5,961	38,312	809,098	505,836	259,041	44,221	2021
6,706	38,981	798,903	496,939	258,008	43,955	2022
4,595	39,205	766,182	473,704	250,712	41,765	2023
4,165	39,445	796,398	507,395	248,272	40,731	2024
Power Generation & Others	Energy Industry Own Use	TFC	Industry	Transport	Building ³	
			Consumption			

1. TPES is negative if exports and international bunkers are greater than imports and supply from inventory changes

2. Former stock-Ending stock

3. Sum of residential, commercial and public sector

Source: Korea National Oil Corporation-PEDSIS

1-13. 신재생에너지 생산

단위: 천toe

	합계	증가율(%)	태양열	태양광	바이오	바이오가스	매립지가스	바이오디젤
1990	335	56.3	-	-	-	-	-	-
1991	412	22.8	-	-	-	-	-	-
1992	552	34.2	13	2	57	-	-	-
1993	648	17.3	14	0	59	-	-	-
1994	776	19.8	17	1	57	-	-	-
1995	907	16.8	22	1	59	39	-	-
1996	1,160	27.9	32	1	50	45	-	-
1997	1,419	22.3	46	1	68	39	-	-
1998	1,713	20.7	44	1	63	39	-	-
1999	1,897	10.8	42	1	65	42	-	-
2000	2,127	12.1	42	1	82	39	-	-
2001	2,453	15.3	37	2	82	40	-	-
2002	2,917	18.9	35	2	117	40	28	1
2003	4,437	52.1	33	2	131	48	38	2
2004	4,582	3.3	36	2	135	47	49	5
2005	4,879	6.5	35	4	181	44	43	13
2006	5,225	7.1	33	8	274	77	54	53
2007	5,609	7.3	29	15	370	82	109	96
2008	5,858	4.5	28	61	427	45	120	178
2009	6,086	3.9	31	122	580	51	128	254
2010	6,856	12.7	29	166	755	80	115	357
2011	7,584	10.6	27	198	963	91	124	336
2012	8,856	16.8	26	243	1,335	107	116	360
2013	9,894	11.7	28	359	1,558	139	97	369
2014	11,569	16.9	28	579	2,822	143	80	388
2015	13,351	15.4	28	907	2,766	109	76	441
2016	14,269	6.9	28	1,183	2,765	95	71	443
2017	16,605	16.4	28	1,673	3,599	98	77	428
2018	18,059	8.8	27	2,197	4,442	92	65	683
2019	16,525	-8.5	27	3,062	4,162	96	76	700
2020	12,378	-25.1	26	4,165	3,899	95	62	690
2021	14,000	13.1	26	5,317	4,264	114	81	597
2022	15,706	12.2	25	6,609	4,373	102	69	683
2023	17,058	8.6	24	7,149	5,030	118	61	692
2024	18,813	10.3	25	8,051	5,147	129	61	781
	Total	Growth rate(%)	Solar Thermal	Solar Photo-voltaic	Bio	Bio Gas	LFG	Bio Diesel

주 : 집계에는 해양 에너지 등이 포함

자료: 한국에너지공단

1-13. New & Renewable Energy Production

Unit: Thousand toe

목재칩	성형숯	숯	풍력	수력	연료전지	폐기물	지열	
-	-	-	-	-	-	-	-	1990
-	-	-	-	-	-	-	-	1991
-	-	-	0	19	-	461	-	1992
-	-	-	0	29	-	546	-	1993
-	-	-	0	23	-	679	-	1994
-	20	-	0	20	-	804	-	1995
-	5	-	0	20	-	1,056	-	1996
-	28	-	0	22	-	1,282	-	1997
-	24	-	0	27	-	1,577	-	1998
-	23	-	1	27	-	1,761	-	1999
-	43	-	4	20	-	1,978	-	2000
-	42	-	3	21	-	2,308	-	2001
-	48	-	4	28	-	2,733	0	2002
-	43	-	6	1,226	-	3,039	0	2003
-	34	-	12	1,082	-	3,313	1	2004
-	32	49	32	919	1	3,706	3	2005
6	34	50	60	867	2	3,975	6	2006
6	35	43	81	781	2	4,319	11	2007
13	29	41	94	660	4	4,569	16	2008
20	24	49	147	607	19	4,558	22	2009
132	23	23	176	792	42	4,862	33	2010
163	25	24	186	965	63	5,122	48	2011
165	24	56	193	815	83	5,999	65	2012
168	24	50	242	892	122	6,502	87	2013
191	25	5	242	581	199	6,905	108	2014
373	16	45	283	454	230	8,436	135	2015
223	15	124	355	603	242	8,743	162	2016
122	16	648	462	601	313	9,359	184	2017
140	17	674	525	719	379	9,084	205	2018
227	17	131	571	595	492	7,049	225	2019
237	11	143	671	826	756	1,166	241	2020
231	11	97	678	651	1,023	1,198	256	2021
171	3	158	718	755	1,154	1,257	280	2022
183	4	210	723	792	1,334	1,393	280	2023
191	4	244	796	919	1,617	1,381	316	2024
Wood Chips	Wood Briquette	Firewood	Wind	Hydro	Fuel Cells	Waste	Geo-thermal	

Note: Total includes ocean energy and other energy sources.

Source: Korea Energy Agency

1-14. 전력 공급

	발전설비 (MW)								
		수력	기력	복합화력	원자력	신재생 ¹	집단	내연력	기타 ²
1990	21,021	2,340	9,912	840	7,616	-	-	313	-
1991	21,111	2,445	9,912	760	7,616	-	-	378	-
1992	24,120	2,498	9,912	3,706	7,616	-	-	388	-
1993	27,654	2,504	11,972	5,173	7,616	-	-	389	-
1994	28,750	2,493	13,032	5,334	7,616	-	-	275	-
1995	32,184	3,093	14,032	6,184	8,616	-	-	259	-
1996	35,715	3,094	14,022	8,719	9,616	-	-	264	-
1997	41,042	3,115	16,078	11,269	10,316	-	-	265	-
1998	43,406	3,131	17,209	10,785	12,016	-	-	265	-
1999	46,978	3,148	18,909	10,935	13,716	-	-	271	-
2000	48,451	3,149	20,059	11,257	13,716	-	-	271	-
2001	50,859	3,876	21,559	11,436	13,716	-	-	273	-
2002	53,801	3,876	21,749	12,186	15,716	-	-	275	-
2003	56,053	3,877	21,749	13,086	15,716	83	1,296	246	-
2004	59,961	3,879	23,311	14,313	16,716	108	1,382	252	-
2005	62,258	3,883	23,811	15,015	17,716	156	1,382	297	-
2006	65,514	5,485	24,391	16,004	17,716	240	1,382	297	-
2007	68,268	5,492	26,491	16,511	17,716	374	1,382	303	-
2008	72,491	5,505	29,731	17,044	17,716	728	1,460	307	-
2009	73,470	5,515	29,571	17,575	17,716	1,136	1,610	347	-
2010	76,078	5,525	29,571	19,100	17,716	1,749	2,067	351	-
2011	79,342	6,418	29,571	19,799	18,716	1,859	2,623	355	-
2012	81,806	6,446	29,371	19,799	20,716	2,338	2,768	367	-
2013	86,969	6,454	29,371	23,473	20,716	3,519	3,106	330	-
2014	93,216	6,467	29,611	27,296	20,716	4,474	4,323	330	-
2015	97,649	6,471	29,611	28,512	21,716	5,649	5,360	330	-
2016	105,866	6,485	33,746	28,512	23,116	7,477	6,200	329	-
2017	116,908	6,489	38,265	32,416	22,529	9,187	7,682	339	-
2018	119,092	6,490	38,358	31,224	21,850	11,623	9,208	339	-
2019	125,338	6,508	38,101	32,846	23,250	14,250	9,191	341	852
2020	129,191	6,506	37,951	33,013	23,250	18,739	9,191	176	366
2021	134,020	6,541	38,429	33,013	23,250	23,014	9,229	177	367
2022	138,195	6,513	38,269	33,013	24,650	26,326	8,919	137	369
2023	144,421	6,517	39,309	34,038	24,650	29,579	9,821	137	371
2024	153,071	6,515	40,359	36,167	26,050	32,878	10,645	97	361
	Generating Facilities (MW)	Hydro	Steam	Combined Cycle	Nuclear	New & Renewable Energy	District Energy	Internal Combustion	Others

1. 일반수력, 소수력 미포함(수력으로 별도 분류)

2. 폐기물에너지(신재생에너지법 개정으로 '20.1월부터 신재생에서 기타로 분류)

자료: 한국전력공사

1-14. Electricity Supply

발전량 (GWh)									
	수력	기력	복합화력	원자력	신재생 ¹	집단	내연력	기타 ²	
107,670	6,361	47,098	619	52,887	-	-	429	-	1990
118,619	5,051	55,389	785	56,311	-	-	472	-	1991
130,963	4,863	62,115	5,464	56,530	-	-	574	-	1992
144,437	6,006	68,916	9,188	58,138	-	-	640	-	1993
164,993	4,098	83,807	16,047	58,651	-	-	789	-	1994
184,661	5,478	89,252	20,521	67,029	-	-	825	-	1995
205,494	5,201	96,946	26,943	73,924	-	-	772	-	1996
224,445	5,404	104,798	34,424	77,086	-	-	718	-	1997
215,300	6,099	89,042	26,505	89,689	-	-	575	-	1998
239,325	6,066	96,473	28,675	103,064	-	-	382	-	1999
266,400	5,610	119,947	26,863	108,964	-	-	294	-	2000
285,224	4,151	135,437	29,033	112,133	-	-	325	-	2001
306,474	5,311	138,929	38,337	119,103	-	-	353	-	2002
322,452	6,887	140,269	40,375	129,672	-	-	370	-	2003
342,148	5,861	145,365	55,452	130,715	350	3,553	407	-	2004
364,639	5,189	151,207	57,457	146,779	404	2,759	575	-	2005
381,181	5,219	155,911	67,138	148,749	511	2,597	677	-	2006
402,294	5,042	173,415	76,405	142,937	831	3,085	578	-	2007
421,626	5,563	183,655	74,519	150,958	1,373	5,054	503	-	2008
432,748	5,641	206,535	64,486	147,771	1,791	5,827	697	-	2009
473,818	6,472	211,449	94,012	148,596	4,478	8,080	731	-	2010
496,080	7,831	211,205	101,479	154,723	7,592	12,429	821	-	2011
507,480	7,652	216,336	110,882	150,327	8,618	12,913	752	-	2012
515,467	8,394	218,585	124,400	138,784	10,160	14,403	741	-	2013
521,409	7,820	211,172	111,711	156,407	14,696	18,948	656	-	2014
527,515	5,796	216,378	100,598	164,762	17,318	22,019	643	-	2015
540,220	6,634	222,623	96,922	161,995	18,936	32,537	573	-	2016
553,226	6,995	237,332	99,619	148,427	24,145	36,194	513	-	2017
569,848	7,270	237,498	116,836	133,505	27,177	47,033	528	-	2018
561,894	6,247	220,918	110,289	145,910	30,526	46,058	579	1,367	2019
550,486	7,148	189,426	111,759	160,184	31,057	45,567	405	4,940	2020
575,786	6,737	191,575	130,358	158,015	39,102	48,326	491	1,181	2021
593,949	7,256	188,477	123,996	176,054	47,266	49,159	570	1,172	2022
586,916	7,500	180,143	118,801	180,494	50,456	47,959	390	1,173	2023
594,266	8,978	162,327	123,240	188,754	56,537	52,873	329	1,229	2024
Power Generation (GWh)	Hydro	Steam	Combined Cycle	Nuclear	New & Renewable Energy	District Energy	Internal Combustion	Others	

1. General hydro and Small hydro are not included(classified as Hydro)

2. Waste energy (classified as others from Jan. 2020 by New&Renewable energy law)

Source: Korea Electric Power Corporation

1-15. 부문별 전력 소비

단위: GWh

	합계	농림어업	광업	제조업	기계류	
					기계류	화학 및 석유화학
1990	92,985	1,458	1,011	55,381	12,091	9,511
1991	102,729	1,778	1,005	60,755	13,391	11,172
1992	113,385	2,157	923	65,567	14,442	12,601
1993	125,656	2,220	868	71,360	15,995	14,160
1994	144,158	2,918	868	79,971	19,323	15,342
1995	160,843	3,370	1,020	89,618	15,499	16,463
1996	179,358	3,857	1,049	99,148	17,711	18,248
1997	197,126	4,176	1,000	108,218	19,638	20,232
1998	190,538	4,024	973	100,898	18,464	20,066
1999	210,879	4,572	952	111,999	20,525	21,533
2000	235,730	5,306	1,003	122,146	23,624	23,054
2001	253,739	5,985	1,074	124,739	24,811	23,795
2002	274,234	6,156	1,155	132,925	27,082	24,995
2003	288,327	5,944	1,205	137,966	29,539	25,870
2004	306,429	6,511	1,269	144,891	33,474	27,181
2005	326,419	7,007	1,317	152,495	38,019	27,954
2006	342,173	7,296	1,393	159,426	41,922	28,324
2007	361,726	7,795	1,484	170,093	45,870	29,624
2008	377,519	8,389	1,446	177,244	49,594	31,389
2009	386,450	9,145	1,350	179,225	50,753	31,978
2010	425,518	10,042	1,683	202,804	59,283	34,496
2011	445,637	10,575	1,928	220,268	64,644	38,630
2012	456,554	12,074	1,616	225,407	68,830	40,383
2013	464,451	13,062	1,478	231,904	72,345	41,612
2014	466,317	13,556	1,571	238,216	73,248	43,615
2015	472,446	14,645	1,631	238,148	74,325	44,326
2016	484,795	15,397	1,755	240,580	75,601	46,099
2017	495,141	15,981	1,746	246,340	79,986	47,710
2018	513,242	17,126	1,478	252,193	84,862	49,256
2019	507,302	17,305	1,493	247,775	84,842	49,012
2020	496,890	17,037	1,552	236,161	82,634	49,520
2021	520,326	18,496	1,807	249,257	89,539	53,405
2022	534,303	19,285	1,759	253,021	92,551	53,422
2023	532,708	18,777	1,709	247,961	90,707	53,391
2024	536,579	19,065	1,639	243,291	89,699	54,091
	Total	Agriculture-forestry-Fishing	Mining and quarrying	Manufacturing	Machinery	Chemical and petrochemical

1-15. Electricity Consumption by End-Use Sector

Unit: GWh

수송장비	철강	기타	수송	가정	상업·공공	
-	10,064	23,715	1,012	17,735	16,388	1990
-	10,440	25,752	1,091	19,482	18,618	1991
-	10,767	27,756	1,175	21,796	21,768	1992
-	12,596	28,609	1,258	23,916	26,034	1993
-	13,552	31,754	1,444	26,554	32,403	1994
6,617	16,101	34,937	1,802	28,303	36,729	1995
7,557	18,088	37,545	1,682	30,642	42,979	1996
8,133	20,936	39,280	1,761	32,515	49,455	1997
6,580	20,147	35,641	1,580	32,913	50,150	1998
8,220	19,004	42,718	1,730	34,581	57,045	1999
9,373	19,997	46,098	2,037	37,102	68,137	2000
9,751	19,550	46,832	2,257	39,211	80,472	2001
10,886	20,461	49,502	2,271	42,278	89,448	2002
11,968	20,902	49,688	2,331	44,572	96,309	2003
13,384	21,384	49,467	2,475	48,615	102,668	2004
14,708	23,013	48,801	2,601	50,873	112,126	2005
15,773	24,380	49,027	2,534	52,522	119,002	2006
17,113	27,241	50,245	2,433	54,174	125,747	2007
17,782	31,733	46,746	2,277	56,228	131,935	2008
17,141	28,329	51,024	2,174	57,595	136,961	2009
20,207	34,494	54,325	2,191	61,194	147,604	2010
22,259	38,392	56,344	2,246	61,564	149,055	2011
22,685	37,571	55,938	2,250	63,536	151,671	2012
22,976	38,033	56,938	2,168	63,970	151,869	2013
24,014	40,367	56,971	1,999	62,675	148,299	2014
24,291	36,998	58,208	2,217	63,794	152,011	2015
23,712	35,159	60,009	2,689	66,173	158,202	2016
22,324	35,524	60,796	2,864	66,517	161,693	2017
21,804	34,852	61,420	3,080	70,687	168,677	2018
21,853	32,617	59,451	3,156	70,455	167,118	2019
20,658	26,452	56,896	3,315	74,074	164,752	2020
22,086	25,906	58,321	3,701	77,558	169,506	2021
22,742	25,902	58,405	4,107	78,558	177,573	2022
23,645	23,469	56,750	4,929	79,886	179,446	2023
23,703	21,554	54,244	5,724	84,427	182,434	2024
Transport Equipment	Iron and steel	Others	Transport	Residential	Commercial·Public	

1-16. 열에너지(지역난방) 수급

Heat Overview

단위: 천toe

Unit: Thousand toe

	전환공정 ¹	열병합		최종소비	가정		상업·공공
		열병합	열전용		가정	상업·공공	
1990	76	79	-	-	-	-	-
1991	107	106	3	-	-	-	-
1992	151	154	-	-	-	-	-
1993	290	293	-	-	-	-	-
1994	480	427	56	-	-	-	-
1995	1,172	1,073	102	637	603	34	
1996	1,418	1,415	6	809	761	48	
1997	1,542	1,391	154	928	871	57	
1998	1,515	1,389	136	884	829	55	
1999	1,905	1,614	298	1,033	960	72	
2000	1,768	1,620	158	1,208	1,113	95	
2001	1,770	1,624	159	1,217	1,102	115	
2002	1,849	1,695	167	1,224	1,118	106	
2003	1,947	1,637	330	1,395	1,151	244	
2004	1,976	1,690	305	1,449	1,283	166	
2005	2,287	1,885	414	1,652	1,449	202	
2006	2,104	1,724	396	1,549	1,367	182	
2007	2,118	1,651	481	1,576	1,391	185	
2008	2,237	1,846	429	1,669	1,472	198	
2009	2,239	1,944	343	1,715	1,525	189	
2010	2,001	1,878	139	1,953	1,742	211	
2011	2,411	2,329	216	1,954	1,743	211	
2012	2,688	2,559	253	2,085	1,832	252	
2013	2,346	2,260	199	2,049	1,797	252	
2014	2,376	2,301	143	1,938	1,720	218	
2015	2,325	2,255	194	1,905	1,663	242	
2016	2,507	2,382	243	2,075	1,771	304	
2017	2,717	2,691	154	2,300	1,955	345	
2018	2,891	2,797	163	2,535	2,125	410	
2019	3,095	2,920	241	2,471	2,080	391	
2020	3,210	3,065	218	2,592	2,200	393	
2021	3,022	2,865	225	2,701	2,265	435	
2022	3,156	2,887	338	2,946	2,432	514	
2023	3,243	3,061	217	2,889	2,331	558	
2024	3,229	3,032	268	2,640	2,089	551	
	Transformation processes	CHP plants	Heat-only plants	Total final consumption	Residential	Commercial & Public	

1-17. 우리나라의 에너지 위상

Korea's Energy Ranks

	일차에너지 ¹ (백만toe)	석유소비 ² (백만톤)	석유정제능력 ² (천배럴/일)	전력소비 ¹ (TWh)	1인당 일차에너지 ¹ (toe/인)	1인당 전력소비 ¹ (kWh/인)
1	중국 China 4,022	미국 United States 814	중국 China 18,514	중국 China 9,203	카타르 Qatar 16.34	아이슬란드 Iceland 51,710
2	미국 United States 2,143	중국 China 755	미국 United States 18,416	미국 United States 4,227	아이슬란드 Iceland 15.92	노르웨이 Norway 23,518
3	인도 India 1,098	인도 India 257	러시아 Russia 6,781	인도 India 1,699	트리니다드토바고 Trinidad and Tobago 10.59	바레인 Bahrain 23,121
4	러시아 Russia 791	러시아 Russia 176	인도 India 5,172	러시아 Russia 1,048	바레인 Bahrain 10.51	카타르 Qatar 19,963
5	일본 Japan 378	사우디아라비아 Saudi Arabia 171	한국 Korea 3,363	일본 Japan 953	아랍에미리트 United Arab Emirates 9.14	쿠웨이트 Kuwait 16,497
6	브라질 Brazil 313	일본 Japan 147	사우디아라비아 Saudi Arabia 3,289	브라질 Brazil 616	쿠웨이트 Kuwait 8.95	아랍에미리트 United Arab Emirates 15,284
7	이란 Iran 308	한국 Korea 125	일본 Japan 2,955	한국 Korea 591	브루나이 Brunei 8.66	캐나다 Canada 14,460
8	캐나다 Canada 294	브라질 Brazil 119	이란 Iran 2,460	캐나다 Canada 580	캐나다 Canada 7.34	핀란드 Finland 14,409
9	인도네시아 Indonesia 276	캐나다 Canada 101	브라질 Brazil 2,290	독일 Germany 495	사우디아라비아 Saudi Arabia 7.15	미국 United States 12,539
10	한국 Korea 276	독일 Germany 97	독일 Germany 2,076	프랑스 France 439	한국(14위) Korea 5.34	한국(13위) Korea 11,426
세계 World	15,135	4,589	104,523	28,003	1.88	3,474
	TPES ¹ (Mil. toe)	Petroleum Consumption ² (Mil. tons)	Oil Refinery ² (Thou. Barrels/Day)	Electricity Consumption ¹ (TWh)	TPES per Capita ¹ (toe/Capita)	Elec. Consumption per Capita ¹ (kWh/Capita)

1. IEA, World Energy Statistics (2023년 기준)

2. Energy Institute, Statistical Review of World Energy (2024년 기준)

1-18. 에너지 소비자 가격

	무연탄 ¹ (원/톤)	연탄 ² (원/장)	취발유 ³	등유 ³	경유 ³	중질중유	프로판 ⁴ (원/kg)
			(원/ℓ)				
1990	40,740.0	185.0	383.5	191.3	182.0	95.3	415.0
1991	40,740.0	185.0	480.7	226.9	182.0	94.7	430.4
1992	40,740.0	185.0	555.8	235.8	198.7	97.5	449.4
1993	40,740.0	185.0	610.0	254.0	214.0	102.5	460.0
1994	40,740.0	185.0	611.0	271.0	227.1	106.5	475.0
1995	40,740.0	185.0	598.0	261.6	239.4	129.5	489.7
1996	40,740.0	185.0	675.8	314.7	300.8	156.7	510.0
1997	42,849.1	185.0	838.7	373.5	376.2	195.9	599.0
1998	48,827.0	185.0	1,122.6	524.2	553.5	292.1	815.0
1999	55,455.4	185.0	1,191.9	491.2	521.8	242.3	678.3
2000	62,210.0	185.0	1,248.4	559.6	612.8	304.1	809.3
2001	62,210.0	185.0	1,280.0	580.2	644.6	320.5	919.0
2002	62,474.1	185.0	1,269.1	554.4	677.6	322.8	887.3
2003	65,597.7	199.0	1,294.8	638.8	772.0	339.2	980.0
2004	69,025.4	201.8	1,365.3	752.2	907.9	367.1	1,050.2
2005	76,196.7	201.8	1,432.3	871.0	1,079.7	420.1	1,131.5
2006	81,110.0	201.8	1,492.4	931.9	1,228.2	483.0	1,242.7
2007	89,220.0	229.6	1,525.9	932.2	1,272.7	526.6	1,330.6
2008	103,841.1	283.1	1,692.1	1,238.7	1,614.4	757.1	1,789.9
2009	116,808.8	319.4	1,600.7	976.2	1,397.5	718.7	1,577.2
2010	123,680.0	391.3	1,710.4	1,076.0	1,502.8	772.3	1,812.7
2011	131,455.8	391.3	1,929.3	1,321.2	1,745.7	987.2	2,034.0
2012	142,230.0	391.3	1,985.8	1,394.1	1,806.3	1,088.7	2,105.9
2013	142,230.0	391.3	1,924.5	1,366.7	1,729.6	935.1	2,085.3
2014	142,230.0	391.3	1,827.3	1,296.7	1,636.7	885.5	2,112.9
2015	142,230.0	391.3	1,510.4	947.4	1,299.6	604.2	1,801.3
2016	145,105.6	409.7	1,402.6	784.5	1,182.5	523.8	1,689.1
2017	154,719.8	471.9	1,491.3	853.1	1,282.5	619.8	1,833.8
2018	167,163.8	560.9	1,581.4	942.3	1,391.9	724.3	1,920.4
2019	179,380.0	656.8	1,472.4	961.7	1,340.5	733.6	1,869.9
2020	179,380.0	656.8	1,381.4	853.8	1,189.7	570.1	1,851.2
2021	179,380.0	656.8	1,590.6	946.8	1,391.4	731.6	2,092.3
2022	179,380.0	656.8	1,812.8	1,473.9	1,842.9	1,082.2	2,478.1
2023	179,380.0	656.8	1,643.0	1,403.0	1,558.3	924.4	2,372.7
2024	179,380.0	656.8	1,646.7	1,344.8	1,502.7	937.1	2,445.9
	Anthracite ¹ (KRW/Ton)	Briquette ² (KRW/each)	Gasoline ³	Kerosene ³	Diesel ³	Bunker-C	Propane ⁴ (KRW/kg)
			(KRW/ℓ)				

1. 일일평균가격(4,400~4,599 kcal/kg기준)

2. 서울시 3.6kg 연탄가격 기준

3. 주유소 판매가격

4. 일반용 프로판의 판매소 판매가격.

5. 충전소 판매가격(단, 1999년 이전의 자동차용은 도시가스용 부탄의 정유사 판매가격이며 단위는 원/kg 임.)

6. 도시가스 소비자 가격은 서울시 기준이며, 2013년부터는 열량당 가격임.

자료: 대한석탄협회, 한국석유공사, 한국도시가스협회 '도시가스사업법', 한국전력공사 '한국전력통계'

1-18. Consumer Prices of Energy

부탄 ⁵		도시가스 ⁶			전력				
일반용 (원/kg)	자동차용 (원/ℓ)	가정용	산업용	업무난방용	가정용	산업용	일반용	농업용	
		(원/Nm ³ , 원/MJ)			(원/kWh)				
-	-	284.9	206.8	214.5	68.7	44.3	77.1	34.1	1990
-	-	284.9	199.1	211.3	73.0	43.8	81.9	33.8	1991
-	-	290.2	194.0	220.9	81.2	46.0	84.6	33.6	1992
-	-	295.5	194.0	230.4	82.3	46.2	84.9	35.8	1993
-	-	296.2	196.7	230.9	86.0	46.1	86.9	34.6	1994
-	-	300.6	196.7	237.3	86.5	47.1	89.0	36.2	1995
-	-	301.9	196.7	242.4	89.0	48.4	90.3	37.1	1996
-	-	325.7	206.6	266.2	92.1	49.9	93.2	39.0	1997
-	-	432.4	283.5	377.9	100.6	55.0	104.2	44.3	1998
-	-	404.1	248.2	356.7	103.1	54.8	102.5	44.0	1999
-	-	464.0	294.5	416.6	107.3	58.3	106.0	43.0	2000
1,138.9	440.0	498.0	369.4	495.5	111.7	61.6	108.0	43.5	2001
1,108.1	457.7	422.5	323.0	439.5	110.3	60.1	104.4	43.2	2002
1,193.3	567.4	451.9	357.1	468.9	108.0	60.3	100.6	43.5	2003
1,234.5	673.9	474.0	379.9	491.0	110.4	60.2	96.9	42.0	2004
1,305.1	723.4	485.6	396.2	502.7	110.8	60.3	95.2	41.7	2005
1,392.3	747.9	568.8	485.6	585.8	114.3	61.9	97.9	43.0	2006
1,453.7	773.8	599.0	509.4	616.0	114.3	64.6	97.7	42.5	2007
1,898.2	1,009.0	643.3	549.7	662.1	115.0	66.2	95.3	42.4	2008
1,885.0	828.7	690.3	629.1	744.5	114.5	73.7	98.5	42.1	2009
2,072.0	952.2	716.5	661.8	785.1	119.9	76.6	98.9	42.5	2010
2,277.3	1,076.1	783.7	724.2	837.6	120.0	81.2	101.7	42.7	2011
2,352.0	1,101.9	847.8	792.6	891.4	123.7	92.8	112.5	42.9	2012
2,337.6	1,070.8	20.8	19.5	21.7	127.0	100.7	122.0	45.5	2013
2,369.3	1,051.2	22.2	20.7	22.9	125.1	106.8	129.7	47.3	2014
2,033.9	806.4	18.6	16.4	19.0	123.7	107.4	130.5	47.3	2015
1,913.5	734.0	15.1	12.6	15.6	121.5	107.1	130.4	47.4	2016
2,074.7	826.5	15.7	13.3	16.1	108.5	107.4	130.4	47.6	2017
2,177.4	874.5	15.1	13.0	15.4	106.9	106.5	130.0	47.4	2018
2,140.4	806.3	15.5	13.7	16.0	105.0	106.6	130.3	47.7	2019
2,148.0	790.8	15.1	12.6	15.1	107.9	107.4	131.6	48.5	2020
2,415.1	932.2	14.2	14.3	17.2	109.2	105.5	128.5	46.0	2021
2,854.7	1,081.8	16.6	25.9	28.7	121.3	118.7	139.1	56.9	2022
2,774.2	957.4	20.4	23.2	26.0	149.8	153.7	169.5	75.1	2023
2,867.9	995.3	21.4	20.8	23.6	156.9	168.2	173.0	82.1	2024
Residential- Commercial (KRW/kg)	Automobile (KRW/ℓ)	Resi- dential	Industrial	Office Space Heating	Resi- dential	Industrial	Public- Service	Agri- cultural	
		City gas ⁶ (KRW/Nm ³ , KRW/MJ)			Electricity (KRW/kWh)				
Butane ⁵									

1. Daily average price(4,400~4,599kcal/kg)

2. Based on 3.6kg-briquette price in Seoul

3. Gas station sales prices

4. Sales prices at general-purpose LPG stores

5. Gas station prices(Through 1999, refiner prices of butane for city gas and based on kilogram(kg).)

6. Based on city gas prices in Seoul. Beginning in 2013, prices are based on megajoule(MJ)

Source: Korea Coal Association, Korea National Oil Corporation, Korea City Gas Association, Korea Electric Power Corporation

1-19. 세계 에너지 수요 전망(CPS 시나리오)

단위: 억사줄

	2010	2023	2024	2035	2040	2050
일차에너지공급	536	641	654	744	777	838
신재생	43	78	83	142	169	217
바이오매스	21	19	19	17	16	14
원자력	30	30	31	42	49	57
천연가스	115	144	148	175	182	194
CCUS 적용 천연가스	0	1	1	2	2	2
석유	174	192	193	201	204	215
석탄	153	176	178	165	155	138
CCUS 적용 석탄	-	0	0	0	0	0
최종에너지	378	444	453	523	549	599
전력	64	91	95	131	145	172
액체연료	154	178	180	195	200	216
기체연료	57	71	73	89	94	102
고체연료	90	87	87	87	87	87
열	12	16	16	19	19	19
	2010	2023	2024	2035	2040	2050

주: CPS(Current Policies Scenario)는 현재 시행 중인 정책만을 반영한 현행 정책 기준 시나리오임.

자료: IEA, 『World Energy Outlook 2025』

1-19. World Energy Outlook(CPS)

Unit: EJ(Exa Joule)

비중(%)			'24년 이후 연평균 증가율 (%)		
2024	2035	2050	2035	2050	
100.0	100.0	100.0	1.2	1.0	Total energy supply
12.6	19.1	25.9	5.1	3.8	Renewables
2.9	2.3	1.7	-1.0	-1.0	Traditional use of biomass
4.7	5.7	6.8	2.9	2.4	Nuclear
22.6	23.5	23.2	1.6	1.1	Unabated natural gas
0.1	0.2	0.2	9.9	4.8	Natural gas with CCUS
29.5	27.0	25.6	0.4	0.4	Oil
27.3	22.1	16.5	-0.7	-1.0	Unabated coal
0.0	0.0	0.1	24.9	13.1	Coal with CCUS
100.0	100.0	100.0	1.3	1.1	Total final consumption
21.0	25.0	28.7	2.9	2.3	Electricity
39.7	37.2	36.1	0.7	0.7	Liquid fuels
16.1	17.0	17.0	1.8	1.3	Gaseous fuels
19.2	16.7	14.5	0.0	-0.0	Solid fuels
3.6	3.6	3.2	1.3	0.6	Heat
2024	2035	2050	2035	2050	
Shares (%)			CAAGR (%) 2024 to:		

Note: CPS (Current Policies Scenario) is a current-policy scenario that reflects only policies currently in force.

Source: IEA, "World Energy Outlook 2025,"

1-20. 세계 에너지 수요 전망(STEPS 시나리오)

단위: 엑사줄

	2010	2023	2024	2035	2040	2050
일차에너지공급	536	641	654	708	717	747
신재생	43	78	83	149	179	233
바이오매스	21	19	19	14	13	10
원자력	30	30	31	43	50	61
천연가스	115	144	148	165	165	161
CCUS 적용 천연가스	0	1	1	1	2	2
석유	174	192	193	192	187	184
석탄	153	176	178	143	121	95
CCUS 적용 석탄	-	0	0	0	0	1
최종에너지	378	444	453	504	516	541
전력	64	91	95	130	144	169
액체연료	154	178	180	186	184	184
기체연료	57	71	73	85	87	91
고체연료	90	87	87	81	79	75
열	12	16	16	19	19	18
	2010	2023	2024	2035	2040	2050

주: STEPS(Stated Policies Scenario)는 현재 시행 중인 정책과 정부가 공식 발표한 정책·계획을 반영한 시나리오임.

자료: IEA, 『World Energy Outlook 2025』

1-20. World Energy Outlook(STEPS)

Unit: EJ(Exa Joule)

비중(%)			'24년 이후 연평균 증가율 (%)		
2024	2035	2050	2035	2050	
100.0	100.0	100.0	0.7	0.5	Total energy supply
12.6	21.0	31.2	5.5	4.1	Renewables
2.9	2.0	1.4	-2.7	-2.3	Traditional use of biomass
4.7	6.1	8.2	3.0	2.6	Nuclear
22.6	23.4	21.6	1.0	0.3	Unabated natural gas
0.1	0.2	0.3	9.5	5.1	Natural gas with CCUS
29.5	27.1	24.6	-0.1	-0.2	Oil
27.3	20.3	12.8	-2.0	-2.4	Unabated coal
0.0	0.0	0.1	26.2	14.3	Coal with CCUS
100.0	100.0	100.0	1.0	0.7	Total final consumption
21.0	25.9	31.2	2.9	2.2	Electricity
39.7	36.9	34.0	0.3	0.1	Liquid fuels
16.1	16.9	16.8	1.4	0.8	Gaseous fuels
19.2	16.0	13.8	-0.7	-0.6	Solid fuels
3.6	3.7	3.4	1.2	0.4	Heat
2024	2035	2050	2035	2050	
Shares (%)			CAAGR (%) 2024 to:		

Note: STEPS (Stated Policies Scenario) reflects policies currently in force as well as policies and plans officially announced by governments.

Source: IEA, 「World Energy Outlook 2025」

1-21. 세계 에너지 수요 전망(NZE 시나리오)

단위: 억사줄

	2010	2023	2024	2035	2040	2050
일차에너지공급	536	641	654	571	551	570
신재생	43	78	83	224	298	401
바이오매스	21	19	19	-	-	-
원자력	30	30	31	55	69	78
천연가스	115	144	148	91	62	30
CCUS 적용 천연가스	0	1	1	8	13	16
석유	174	192	193	129	92	45
석탄	153	176	178	70	29	15
CCUS 적용 석탄	-	0	0	6	9	12
최종에너지	378	444	453	408	380	352
전력	64	91	95	133	156	192
액체연료	154	178	180	135	104	65
기체연료	57	71	73	62	52	38
고체연료	90	87	87	58	47	35
열	12	16	16	15	13	9
	2010	2023	2024	2035	2040	2050

주: NZE(Net Zero Emissions by 2050 Scenario)는 2050년 넷제로 달성을 전제로 한 목표달성형 시나리오임.

자료: IEA, 『World Energy Outlook 2025』

1-21. World Energy Outlook(NZE)

Unit: EJ(Exa Joule)

비중(%)			'24년 이후 연평균 증가율 (%)		
2024	2035	2050	2035	2050	
100.0	100.0	100.0	-1.2	-0.5	Total energy supply
12.6	39.2	70.3	9.5	6.3	Renewables
2.9	-	-	-	-	Traditional use of biomass
4.7	9.7	13.7	5.4	3.6	Nuclear
22.6	16.0	5.3	-4.3	-5.9	Unabated natural gas
0.1	1.4	2.9	28.1	14.0	Natural gas with CCUS
29.5	22.6	7.9	-3.6	-5.4	Oil
27.3	12.3	2.7	-8.2	-9.0	Unabated coal
0.0	1.1	2.0	69.9	28.2	Coal with CCUS
100.0	100.0	100.0	-0.9	-1.0	Total final consumption
21.0	32.6	54.6	3.1	2.8	Electricity
39.7	33.0	18.6	-2.6	-3.8	Liquid fuels
16.1	15.2	10.9	-1.4	-2.4	Gaseous fuels
19.2	14.1	9.9	-3.7	-3.5	Solid fuels
3.6	3.6	2.7	-0.9	-2.1	Heat
2024	2035	2050	2035	2050	
Shares (%)			CAAGR (%) 2024 to:		

Note: NZE (Net Zero Emissions by 2050 Scenario) is a target-oriented scenario based on achieving net zero emissions by 2050.

Source: IEA, 「World Energy Outlook 2025」

02

에너지 밸런스 Energy Balances



02 에너지 밸런스

2-1. 1990년

2-2. 2000년

2-3. 2010년

2-4. 2014년

2-5. 2015년

2-6. 2016년

2-7. 2017년

2-8. 2018년

2-9. 2019년

2-10. 2020년

2-11. 2021년

2-12. 2022년

2-13. 2023년

2-14. 2024년



02 Energy Balances



- 2-1. 1990
- 2-2. 2000
- 2-3. 2010
- 2-4. 2014
- 2-5. 2015
- 2-6. 2016
- 2-7. 2017
- 2-8. 2018
- 2-9. 2019
- 2-10. 2020
- 2-11. 2021
- 2-12. 2022
- 2-13. 2023
- 2-14. 2024



2-1. 1990년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만 m³)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 및 기타¹ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	17,217	-	-	-	-	52,887	4,684	16	-	3	22,160
수입	24,119	2,237	-	310,494	101,248	-	-	-	-	-	74,609
수출	-8	-	-	-	-27,184	-	-	-	-	-	-4,002
국제병커링	-	-	-	-	-28,800	-	-	-	-	-	-4,308
재고변화	2,035	38	-	3,469	-5,166	-	-	-	-	-	822
일차에너지공급	43,364	2,275	-	313,963	40,098	52,887	4,684	16	-	3	89,280
제품이동	-	-	-	14	-19	-	-	-	-	-	3
통계오차	1,269	41	256	-4	-6,062	-	-	-	-	-	92
일차에너지소비	44,632	2,317	256	313,973	34,017	52,887	4,684	16	-	3	89,376
전환공정	-7,737	-2,313	708	-313,973	270,951	-52,887	-4,684	-	106,005	76	-16,272
발전전용	-7,737	-1,741	-	-	-29,720	-52,887	-4,684	-	106,005	-3	-16,890
열병합	-	-	-	-	-	-	-	-	-	79	79
열전용	-	-	-	-	-0	-	-	-	-	-	-0
석유제품생산	-	-	-	-313,973	300,671	-	-	-	-	-	539
가스제조	-	-572	708	-	-	-	-	-	-	-	-
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	-	-	-	-
전환자제소비	-	-	-	-0	-6,177	-	-	-	-7,401	-	-1,392
손실	-	-	-	-	-	-	-	-	-5,619	-79	-563
최종소비	36,895	4	963	-	298,791	-	-	16	92,985	-	71,150
산업	18,335	4	223	-	136,088	-	-	-	57,850	-	36,799
농림어업	522	-	0	-	12,701	-	-	-	1,458	-	2,212
광업	7	-	-	-	974	-	-	-	1,011	-	238
제조업	17,767	4	223	-	113,624	-	-	-	55,381	-	32,968
식품및담배	23	-	10	-	6,895	-	-	-	3,540	-	1,394
섬유및가죽	494	-	12	-	10,291	-	-	-	9,505	-	2,768
목재및나무제품	-	-	0	-	461	-	-	-	623	-	126
제지및인쇄	113	-	2	-	5,395	-	-	-	3,877	-	1,257
화학및석유화학	262	-	12	-	61,567	-	-	-	9,511	-	9,334
비금속광물	4,030	-	35	-	8,150	-	-	-	5,633	-	4,416
철강	12,594	-	61	-	6,174	-	-	-	10,064	-	10,192
비철금속	-	-	-	-	1,306	-	-	-	13	-	188
기계류	-	-	81	-	4,134	-	-	-	12,091	-	1,737
수송장비	-	-	-	-	1,711	-	-	-	-	-	254
기타제조	251	4	9	-	7,449	-	-	-	525	-	1,287
기타에너지	-	-	-	-	90	-	-	-	-	-	14
건설업	39	-	-	-	8,789	-	-	-	-	-	1,382
수송	-	-	-	-	87,424	-	-	-	1,012	-	12,140
철도	-	-	-	-	2,082	-	-	-	1,012	-	392
도로	-	-	-	-	81,682	-	-	-	-	-	11,201
국내해운	-	-	-	-	3,211	-	-	-	-	-	479
국내항공	-	-	-	-	449	-	-	-	-	-	68
가정	17,343	-	433	-	8,285	-	-	6	17,735	-	11,262
상업·공공	1,218	-	307	-	66,994	-	-	11	16,388	-	10,948
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others¹	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
7,748	-	-	-	-	13,222	1,171	16	-	3	22,160	Production
15,832	2,909	-	42,465	13,403	-	-	-	-	-	74,609	Imports
-5	-	-	-	-3,997	-	-	-	-	-	-4,002	Exports
-	-	-	-	-4,308	-	-	-	-	-	-4,308	International Bunkers
948	49	-	463	-639	-	-	-	-	-	822	Stock changes
24,523	2,958	-	42,928	4,459	13,222	1,171	16	-	3	89,280	Total primary energy supply
-	-	-	3	1	-	-	-	-	-	3	Transfers
695	54	268	-1	-924	-	-	-	-	-	92	Statistical differences
25,217	3,012	268	42,930	3,536	13,222	1,171	16	-	3	89,376	Total primary energy consumption
-4,688	-3,007	743	-42,930	38,811	-13,222	-1,171	-	9,116	76	-16,272	Transformation processes
-4,688	-2,264	-	-	-4,658	-13,222	-1,171	-	9,116	-3	-16,890	Electricity-only plants
-	-	-	-	-	-	-	-	-	79	79	CHP plants
-	-	-	-	-0	-	-	-	-	-	-0	Heat-only plants
-	-	-	-42,930	43,469	-	-	-	-	-	539	Petroleum Products
-	-743	743	-	-	-	-	-	-	-	-	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	-	-	-	-	Non-specified Transformation
-	-	-	-0	-755	-	-	-	-636	-	-1,392	Transformation Own Use
-	-	-	-	-	-	-	-	-483	-79	-563	Losses
20,529	5	1,012	-	41,591	-	-	16	7,997	-	71,150	Total final consumption
11,943	5	235	-	19,641	-	-	-	4,975	-	36,799	Industry
237	-	0	-	1,849	-	-	-	125	-	2,212	Agriculture/forestry/Fishing
3	-	-	-	148	-	-	-	87	-	238	Mining and quarrying
11,690	5	235	-	16,275	-	-	-	4,763	-	32,968	Manufacturing
15	-	11	-	1,064	-	-	-	304	-	1,394	Food and tobacco
326	-	13	-	1,612	-	-	-	817	-	2,768	Textile and leather
-	-	0	-	72	-	-	-	54	-	126	Wood and wood products
74	-	2	-	847	-	-	-	333	-	1,257	Paper, pulp and print
173	-	13	-	8,331	-	-	-	818	-	9,334	Chemical and petrochemical
2,660	-	37	-	1,235	-	-	-	484	-	4,416	Non-metallic minerals
8,311	-	64	-	952	-	-	-	865	-	10,192	Iron and steel
-	-	-	-	187	-	-	-	1	-	188	Non-ferrous metals
-	-	85	-	612	-	-	-	1,040	-	1,737	Machinery
-	-	-	-	254	-	-	-	-	-	254	Transport Equipment
132	5	9	-	1,096	-	-	-	45	-	1,287	Other manufacturing
-	-	-	-	14	-	-	-	-	-	14	Other energy
12	-	-	-	1,369	-	-	-	-	-	1,382	Construction
-	-	-	-	12,053	-	-	-	87	-	12,140	Transport
-	-	-	-	305	-	-	-	87	-	392	Rail
-	-	-	-	11,201	-	-	-	-	-	11,201	Road
-	-	-	-	479	-	-	-	-	-	479	Domestic navigation
-	-	-	-	68	-	-	-	-	-	68	Domestic aviation
8,023	-	454	-	1,254	-	-	6	1,525	-	11,262	Residential
563	-	323	-	8,642	-	-	11	1,409	-	10,948	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-2. 2000년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	4,150	-	-	-	-	108,964	4,010	1,135	-	10	31,255
수입	64,170	15,239	-	899,809	204,301	-	-	-	-	-	210,191
수출	-5	-	-	-743	-306,293	-	-	-	-	-	-43,891
국제병커링	-	-	-	-	-86,266	-	-	-	-	-	-13,097
재고변화	-1,019	-52	-	-442	-6,900	-	-	-	-	-	-1,770
일차에너지공급	67,296	15,187	-	898,624	-195,158	108,964	4,010	1,135	-	10	182,689
제품이동	-	-	-	891	-878	-	-	-	-	-	50
통계오차	1,652	-633	383	-1,971	-481	-	-	-	-	-	325
일차에너지소비	68,949	14,554	383	897,544	-196,516	108,964	4,010	1,135	-	10	183,063
전환공정	-36,155	-14,057	11,531	-897,543	863,327	-108,964	-4,010	-2	264,838	1,768	-34,166
발전전용	-36,155	-2,575	-	-	-32,247	-108,964	-4,010	-2	264,838	-10	-36,869
열병합	-	-1,954	-266	-	-6,281	-	-	-	-	1,620	-2,188
열전용	-	-	-	-	-2,715	-	-	-	-	158	-268
석유제품생산	-	-	-	-897,543	904,570	-	-	-	-	-	5,158
가스제조	-	-9,528	11,797	-	-	-	-	-	-	-	-
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	-	-	-	-
전환자재소비	-	-337	-	-0	-36,267	-	-	-	-16,690	-	-6,260
손실	-	-	-	-	-	-	-	-	-12,418	-570	-1,638
최종소비	32,794	160	11,914	-	630,544	-	-	1,132	235,730	1,208	141,000
산업	31,747	160	3,151	-	334,302	-	-	624	128,455	-	81,006
농림어업	161	-	12	-	24,905	-	-	-	5,306	-	4,138
광업	1	-	2	-	362	-	-	-	1,003	-	143
제조업	31,584	160	3,137	-	295,387	-	-	624	122,146	-	74,581
식품및담배	63	-	168	-	5,790	-	-	-	6,149	-	1,635
섬유및가죽	1,831	-	407	-	10,526	-	-	-	15,497	-	4,617
목재및나무제품	-	-	2	-	539	-	-	59	1,137	-	242
제지및인쇄	1	-	63	-	7,790	-	-	-	8,843	-	2,043
화학및석유화학	2,242	-	304	-	230,727	-	-	168	23,054	-	33,514
비금속광물	5,308	-	240	-	7,665	-	-	397	8,981	-	6,060
철강	20,673	160	616	-	6,171	-	-	-	19,997	-	17,094
비철금속	257	-	-	-	1,349	-	-	-	3,794	-	675
기계류	-	-	687	-	4,055	-	-	-	23,624	-	3,330
수송장비	-	-	-	-	6,386	-	-	-	9,373	-	1,778
기타제조	1,211	0	650	-	10,339	-	-	0	1,349	-	2,953
기타에너지	-	-	-	-	4,049	-	-	-	348	-	640
건설업	2	-	0	-	13,648	-	-	-	-	-	2,145
수송	-	-	-	-	183,621	-	-	-	2,037	-	25,007
철도	-	-	-	-	2,307	-	-	-	2,037	-	513
도로	-	-	-	-	175,081	-	-	-	-	-	23,549
국내해운	-	-	-	-	6,125	-	-	-	-	-	930
국내항공	-	-	-	-	108	-	-	-	-	-	15
가정	1,000	-	7,003	-	29,545	-	-	78	37,102	1,113	16,284
상업·공공	47	-	1,761	-	83,076	-	-	430	68,137	95	18,703
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
1,868	-	-	-	-	27,241	1,002	1,135	-	10	31,255	Production
41,943	19,811	-	123,049	25,388	-	-	-	-	-	210,191	Imports
-3	-	-	-129	-43,758	-	-	-	-	-	-43,891	Exports
-	-	-	-	-13,097	-	-	-	-	-	-13,097	International Bunkers
-664	-68	-	-62	-977	-	-	-	-	-	-1,770	Stock changes
43,143	19,743	-	122,858	-32,443	27,241	1,002	1,135	-	10	182,689	Total primary energy supply
-	-	-	166	-116	-	-	-	-	-	50	Transfers
1,105	-823	402	-302	-57	-	-	-	-	-	325	Statistical differences
44,248	18,920	402	122,721	-32,616	27,241	1,002	1,135	-	10	183,063	Total primary energy consumption
-22,988	-18,274	12,107	-122,721	121,412	-27,241	-1,002	-2	22,776	1,768	-34,166	Transformation processes
-22,988	-3,347	-	-	-5,054	-27,241	-1,002	-2	22,776	-10	-36,869	Electricity-only plants
-	-2,541	-279	-	-987	-	-	-	-	1,620	-2,188	CHP plants
-	-	-	-	-426	-	-	-	-	158	-268	Heat-only plants
-	-	-	-122,721	127,879	-	-	-	-	-	5,158	Petroleum Products
-	-12,387	12,387	-	-	-	-	-	-	-	-	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	-	-	-	-	Non-specified Transformation
-	-438	-	-0	-4,387	-	-	-	-1,435	-	-6,260	Transformation Own Use
-	-	-	-	-	-	-	-	-1,068	-570	-1,638	Losses
11,260	207	12,510	-	84,409	-	-	1,132	20,273	1,208	141,000	Total final consumption
20,789	207	3,308	-	45,030	-	-	624	11,047	-	81,006	Industry
69	-	13	-	3,600	-	-	456	4,138	-	14,382	Agriculture/forestry/Fishing
0	-	2	-	54	-	-	86	143	-	143	Mining and quarrying
20,720	207	3,294	-	39,231	-	-	624	10,505	-	74,581	Manufacturing
41	-	176	-	889	-	-	-	529	-	1,635	Food and tobacco
1,208	-	428	-	1,648	-	-	-	1,333	-	4,617	Textile and leather
-	-	2	-	83	-	-	59	98	-	242	Wood and wood products
1	-	66	-	1,216	-	-	-	760	-	2,043	Paper, pulp and print
1,479	-	319	-	29,565	-	-	168	1,983	-	33,514	Chemical and petrochemical
3,503	-	252	-	1,136	-	-	397	772	-	6,060	Non-metallic minerals
13,597	207	647	-	923	-	-	-	1,720	-	17,094	Iron and steel
164	-	-	-	185	-	-	-	326	-	675	Non-ferrous metals
-	-	721	-	577	-	-	-	2,032	-	3,330	Machinery
-	-	-	-	972	-	-	-	806	-	1,778	Transport Equipment
726	0	682	-	1,428	-	-	0	116	-	2,953	Other manufacturing
-	-	-	-	610	-	-	-	30	-	640	Other energy
1	-	0	-	2,145	-	-	-	-	-	2,145	Construction
-	-	-	-	24,831	-	-	-	175	-	25,007	Transport
-	-	-	-	337	-	-	-	175	-	513	Rail
-	-	-	-	23,549	-	-	-	-	-	23,549	Road
-	-	-	-	930	-	-	-	-	-	930	Domestic navigation
-	-	-	-	15	-	-	-	-	-	15	Domestic aviation
450	-	7,353	-	4,099	-	-	78	3,191	1,113	16,284	Residential
21	-	1,849	-	10,448	-	-	430	5,860	95	18,703	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-3. 2010년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	2,084	415	-	380	-	148,596	3,705	3,773	-	16	38,097
수입	119,304	32,603	-	874,666	276,849	-	-	-	-	-	280,300
수출	-12	-	-	-3,330	-341,784	-	-	-	-	-	-48,993
국제병커링	-	-	-	-	-87,436	-	-	-	-	-	-13,140
재고변화	-317	-956	-	-1,896	-3,830	-	-	0	-	-	-2,402
일차에너지공급	121,059	32,063	-	869,820	-156,202	148,596	3,705	3,773	-	16	253,862
제품이동	-	-	-	520	-2,072	-	-	-	-	-	-64
통계오차	4,066	893	167	-737	-1,727	-	-	0	-	-	3,695
일차에너지소비	125,125	32,956	167	869,604	-160,000	148,596	3,705	3,773	-	16	257,493
전환공정	-79,078	-31,943	21,028	-869,469	875,081	-148,596	-3,682	-510	471,945	2,001	-64,958
발전전용	-79,078	-9,462	-	-	-18,201	-148,596	-3,682	-535	463,865	-16	-57,068
열병합	-	-5,127	-167	-	-1,767	-	-	-10	8,080	1,878	-4,557
열전용	-	-	-592	-	-2,403	-	-	-6	-	139	-869
석유제품생산	-	-	-	-869,469	901,813	-	-	-	-	-	-2,507
가스제조	-	-17,354	21,787	-	-4,361	-	-	-	-	-	0
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	42	-	-	42
전환자제소비	-	-274	-	-135	-33,486	-	-	-2	-28,962	-	-6,597
손실	-	-	-	-	-	-	-	-17,466	-	-64	-1,566
최종소비	46,047	739	21,195	-	681,595	-	23	3,281	425,518	1,953	184,372
산업	44,630	739	6,947	-	397,694	-	-	1,550	214,529	-	109,779
농림어업	524	-	4	-	16,348	-	-	10	10,042	-	3,454
광업	0	-	0	-	662	-	-	-	1,683	-	240
제조업	44,104	739	6,942	-	363,444	-	-	1,540	202,804	-	103,432
식품및담배	62	-	567	-	2,281	-	-	10	8,737	-	1,744
섬유및가죽	1,910	-	512	-	2,569	-	-	67	12,362	-	3,249
목재및나무제품	-	-	50	-	244	-	-	84	1,754	-	324
제지및인쇄	23	-	288	-	2,551	-	-	363	10,019	-	1,938
화학및석유화학	3,744	-	1,563	-	326,623	-	-	154	34,496	-	48,754
비금속광물	4,564	-	432	-	6,045	-	-	706	11,620	-	5,919
철강	29,202	572	1,384	-	2,011	-	-	7	34,494	-	25,394
비철금속	608	-	195	-	648	-	-	17	7,415	-	1,336
기계류	-	-	727	-	2,049	-	-	101	59,283	-	6,254
수송장비	-	12	566	-	1,889	-	-	-	20,207	-	2,615
기타제조	3,991	155	658	-	10,122	-	-	6	1,874	-	4,874
기타에너지	-	-	-	-	6,410	-	-	25	544	-	1,030
건설업	2	-	0	-	17,241	-	-	0	-	-	2,654
수송	-	-	1,054	-	223,353	-	-	357	2,191	-	31,009
철도	-	-	-	-	1,355	-	-	-	2,191	-	383
도로	-	-	1,054	-	214,105	-	-	357	-	-	29,462
국내해운	-	-	-	-	5,080	-	-	-	-	-	772
국내항공	-	-	-	-	2,813	-	-	-	-	-	392
가정	1,120	-	9,607	-	23,677	-	-	77	61,194	1,742	20,733
상업·공공	296	-	3,588	-	36,871	-	23	1,277	147,604	211	22,851
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
969	539	-	56	-	31,948	797	3,773	-	16	38,097	Production
75,340	42,384	-	128,349	34,226	-	-	-	-	-	280,300	Imports
-8	-	-	-620	-48,365	-	-	-	-	-	-48,993	Exports
-	-	-	-	-13,140	-	-	-	-	-	-13,140	International Bunkers
-292	-1,242	-	-338	-529	-	-	0	-	-	-2,402	Stock changes
76,008	41,681	-	127,447	-27,807	31,948	797	3,773	-	16	253,862	Total primary energy supply
-	-	-	97	-161	-	-	-	-	-	-64	Transfers
2,769	1,161	176	-137	-274	-	-	0	-	-	3,695	Statistical differences
78,777	42,843	176	127,407	-28,243	31,948	797	3,773	-	16	257,493	Total primary energy consumption
-48,520	-41,526	22,185	-127,387	120,951	-31,948	-792	-510	40,587	2,001	-64,958	Transformation processes
-48,520	-12,300	-	-	-2,849	-31,948	-792	-535	39,892	-16	-57,068	Electricity-only plants
-	-6,665	-176	-	-278	-	-	-10	695	1,878	-4,557	CHP plants
-	-	-624	-	-378	-	-	-6	-	139	-869	Heat-only plants
-	-	-	-127,387	124,880	-	-	-	-	-	-2,507	Petroleum Products
-	-22,561	22,985	-	-425	-	-	-	-	-	0	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	42	-	-	42	Non-specified Transformation
-	-357	-	-20	-3,728	-	-	-2	-2,491	-	-6,597	Transformation Own Use
-	-	-	-	-	-	-	-1,502	-64	-1,566	-	Losses
30,256	960	22,361	-	88,981	-	5	3,261	36,595	1,953	184,372	Total final consumption
29,571	960	7,329	-	51,920	-	-	1,550	18,449	-	109,779	Industry
242	-	5	-	2,334	-	-	10	864	-	3,454	Agriculture/forestry/Fishing
0	-	0	-	95	-	-	-	145	-	240	Mining and quarrying
29,328	960	7,324	-	46,838	-	-	1,540	17,441	-	103,432	Manufacturing
39	-	598	-	346	-	-	10	751	-	1,744	Food and tobacco
1,184	-	540	-	396	-	-	67	1,063	-	3,249	Textile and leather
-	-	53	-	36	-	-	84	151	-	324	Wood and wood products
14	-	304	-	395	-	-	363	862	-	1,938	Paper, pulp and print
2,321	-	1,648	-	41,663	-	-	154	2,967	-	48,754	Chemical and petrochemical
2,830	-	456	-	929	-	-	706	999	-	5,919	Non-metallic minerals
19,939	743	1,460	-	279	-	-	7	2,966	-	25,394	Iron and steel
387	-	206	-	89	-	-	17	638	-	1,336	Non-ferrous metals
-	-	768	-	288	-	-	101	5,098	-	6,254	Machinery
-	16	597	-	264	-	-	-	1,738	-	2,615	Transport Equipment
2,614	201	694	-	1,198	-	-	6	161	-	4,874	Other manufacturing
-	-	-	-	958	-	-	25	47	-	1,030	Other energy
1	-	0	-	2,652	-	-	0	-	-	2,654	Construction
-	-	1,112	-	29,352	-	-	357	188	-	31,009	Transport
-	-	-	-	195	-	-	-	188	-	383	Rail
-	-	1,112	-	27,993	-	-	357	-	-	29,462	Road
-	-	-	-	772	-	-	-	-	-	772	Domestic navigation
-	-	-	-	392	-	-	-	-	-	392	Domestic aviation
542	-	10,135	-	2,974	-	-	77	5,263	1,742	20,733	Residential
143	-	3,785	-	4,735	-	5	1,277	12,694	211	22,851	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-4. 2014년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	1,748	247	-	198	-	156,407	2,754	6,636	-	68	41,424
수입	131,563	37,107	-	933,736	326,623	-	-	-	-	-	307,855
수출	-47	-	-	-992	-448,822	-	-	-	-	-	-62,804
국제병커링	-	-	-	-	-86,802	-	-	-	-	-	-13,035
재고변화	355	-997	-	-8,093	-89	-	-	-0	-	-	-2,187
일차에너지공급	133,619	36,357	-	924,848	-209,090	156,407	2,754	6,636	-	68	271,253
제품이동	-	-	-	14,305	-16,289	-	-	-	-	-	339
통계오차	3,399	225	294	68	-2,523	-	-	-0	-	-	2,652
일차에너지소비	137,017	36,582	294	939,222	-227,903	156,407	2,754	6,636	-	68	274,245
전환공정	-80,271	-35,689	21,618	-939,156	976,258	-156,407	-2,751	-1,850	517,005	2,376	-67,956
발전전용	-80,271	-14,132	-	-	-10,433	-156,407	-2,751	-1,873	483,361	-68	-62,858
열병합	-	-3,591	-534	-	-592	-	-	-175	33,644	2,301	-314
열전용	-	-	-324	-	-1,036	-	-	-2	-	143	-361
석유제품생산	-	-	-	-939,156	988,461	-	-	-	-	-	-4,622
가스제조	-	-17,967	22,476	-	-142	-	-	-	-	-	0
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	199	-	-	199
전환자제소비	-	-111	-1,309	-66	-39,214	-	-	-	-33,210	-	-8,507
손실	-	-	-	-	-	-	-	-	-17,478	-506	-2,009
최종소비	56,746	781	20,602	-	709,141	-	3	4,785	466,317	1,938	195,773
산업	55,448	781	7,367	-	428,460	-	-	2,980	253,343	-	122,769
농림어업	450	-	3	-	11,802	-	-	22	13,556	-	3,053
광업	-	-	-	-	510	-	-	0	1,571	-	208
제조업	54,994	781	7,363	-	401,259	-	-	2,954	238,216	-	117,215
식품및담배	62	-	671	-	630	-	-	77	10,105	-	1,770
섬유및가죽	1,949	-	361	-	553	-	-	105	11,965	-	2,793
목재및나무제품	-	-	74	-	65	-	-	154	1,928	-	406
제지및인쇄	25	-	309	-	250	-	-	936	9,980	-	2,168
화학및석유화학	4,982	-	1,542	-	378,821	-	-	132	43,615	-	55,165
비금속광물	4,916	-	543	-	3,006	-	-	839	11,643	-	5,892
철강	38,183	568	1,215	-	880	-	-	13	40,367	-	31,219
비철금속	777	-	246	-	247	-	-	-	8,526	-	1,461
기계류	-	-	1,044	-	1,379	-	-	-	73,248	-	7,578
수송장비	-	11	693	-	2,123	-	-	20	24,014	-	3,124
기타제조	4,099	202	665	-	8,300	-	-	677	2,265	-	4,863
기타에너지	-	-	-	-	5,004	-	-	-	559	-	777
건설업	4	-	1	-	14,890	-	-	5	-	-	2,293
수송	-	-	1,253	-	232,807	-	-	394	1,999	-	32,406
철도	-	-	-	-	910	-	-	-	1,999	-	302
도로	-	-	1,253	-	221,575	-	-	394	-	-	30,647
국내해운	-	-	-	-	2,324	-	-	-	-	-	346
국내항공	-	-	-	-	7,997	-	-	-	-	-	1,111
가정	912	-	8,764	-	17,278	-	-	111	62,675	1,720	18,876
상업·공공	386	-	3,218	-	30,596	-	3	1,300	148,299	218	21,722
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petroleum	Nuclear	Hydro	Renewables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
787	322	-	29	-	33,002	581	6,636	-	68	41,424	Production
81,782	48,388	-	136,928	40,757	-	-	-	-	-	307,855	Imports
-28	-	-	-185	-62,591	-	-	-	-	-	-62,804	Exports
-	-	-	-	-13,035	-	-	-	-	-	-13,035	International Bunkers
224	-1,300	-	-1,178	68	-	-	-0	-	-	-2,187	Stock changes
82,764	47,409	-	135,594	-34,801	33,002	581	6,636	-	68	271,253	Total primary energy supply
-	-	-	2,664	-2,324	-	-	-	-	-	339	Transfers
2,339	293	306	70	-356	-	-	-0	-	-	2,652	Statistical differences
85,103	47,702	306	138,328	-37,482	33,002	581	6,636	-	68	274,245	Total primary energy consumption
-48,841	-46,539	22,547	-138,315	131,787	-33,002	-581	-1,850	44,462	2,376	-67,956	Transformation processes
-48,841	-18,428	-	-	-1,635	-33,002	-581	-1,873	41,569	-68	-62,858	Electricity-only plants
-	-4,683	-557	-	-94	-	-	-175	2,893	2,301	-314	CHP plants
-	-	-338	-	-164	-	-	-2	-	143	-361	Heat-only plants
-	-	-	-138,315	133,693	-	-	-	-	-	-4,622	Petroleum Products
-	-23,429	23,442	-	-14	-	-	-	-	-	0	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	199	-	-	199	Non-specified Transformation
-	-145	-1,366	-12	-4,128	-	-	-	-2,856	-	-8,507	Transformation Own Use
-	-	-	-	-	-	-	-	-1,503	-506	-2,009	Losses
36,262	1,018	21,488	-	90,177	-	1	4,785	40,103	1,938	195,773	Total final consumption
35,668	1,018	7,684	-	53,631	-	-	2,980	21,788	-	122,769	Industry
192	-	3	-	1,670	-	-	22	1,166	-	3,053	Agriculture/forestry/Fishing
-	-	-	-	73	-	-	0	135	-	208	Mining and quarrying
35,475	1,018	7,679	-	49,602	-	-	2,954	20,487	-	117,215	Manufacturing
38	-	700	-	86	-	-	77	869	-	1,770	Food and tobacco
1,201	-	376	-	82	-	-	105	1,029	-	2,793	Textile and leather
-	-	77	-	9	-	-	154	166	-	406	Wood and wood products
16	-	323	-	35	-	-	936	858	-	2,168	Paper, pulp and print
3,069	-	1,609	-	46,604	-	-	132	3,751	-	55,165	Chemical and petrochemical
3,028	-	566	-	457	-	-	839	1,001	-	5,892	Non-metallic minerals
25,628	740	1,267	-	100	-	-	13	3,472	-	31,219	Iron and steel
438	-	257	-	33	-	-	-	733	-	1,461	Non-ferrous metals
-	-	1,089	-	190	-	-	-	6,299	-	7,578	Machinery
-	14	723	-	302	-	-	20	2,065	-	3,124	Transport Equipment
2,058	264	694	-	976	-	-	677	195	-	4,863	Other manufacturing
-	-	-	-	729	-	-	-	48	-	777	Other energy
1	-	1	-	2,286	-	-	5	-	-	2,293	Construction
-	-	1,306	-	30,534	-	-	394	172	-	32,406	Transport
-	-	-	-	130	-	-	-	172	-	302	Rail
-	-	1,306	-	28,946	-	-	394	-	-	30,647	Road
-	-	-	-	346	-	-	-	-	-	346	Domestic navigation
-	-	-	-	1,111	-	-	-	-	-	1,111	Domestic aviation
417	-	9,141	-	2,097	-	-	111	5,390	1,720	18,876	Residential
177	-	3,357	-	3,916	-	1	1,300	12,754	218	21,722	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-5. 2015년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	1,764	144	-	115	-	164,762	2,150	7,455	-	125	43,798
수입	135,610	33,366	-	1,030,315	307,875	-	-	-	-	-	316,749
수출	-23	-	-	-2,400	-477,425	-	-	-	-	-	-66,736
국제병커링	-	-	-	-	-93,774	-	-	-	-	-	-14,083
재고변화	-1,999	200	-	-10,774	-2,047	-	-	-0	-	-	-2,935
일차에너지공급	135,352	33,710	-	1,017,256	-265,370	164,762	2,150	7,455	-	125	276,794
제품이동	-	-	-	13,626	-14,507	-	-	-	-	-	624
통계오차	3,039	-271	520	-757	-1,026	-	-	0	-	-	1,927
일차에너지소비	138,391	33,440	520	1,030,124	-280,904	164,762	2,150	7,455	-	125	279,345
전환공정	-82,479	-32,513	20,174	-1,030,109	1,059,280	-164,762	-2,146	-2,622	524,566	2,325	-70,650
발전전용	-82,476	-12,336	-	-	-12,079	-164,762	-2,146	-2,717	502,547	-125	-62,866
열병합	-	-3,445	-497	-	-773	-	-	-250	22,019	2,255	-1,234
열전용	-	-	-263	-	-767	-	-	-19	-	194	-221
석유제품생산	-	-	-	-1,030,109	1,073,059	-	-	-	-	-	-6,692
가스제조	-	-16,732	20,933	-	-159	-	-	-	-	-	0
석탄합성가스제조	-3	-	-	-	-	-	-	1	-	-	-0
기타전환	-	-	-	-	-	-	-	363	-	-	363
전환자제소비	-	-56	-267	-15	-43,816	-	-	-	-36,289	-	-8,084
손실	-	-2	-	-	-	-	-	-	-15,831	-544	-1,908
최종소비	55,911	868	20,427	-	734,560	-	4	4,832	472,446	1,905	198,704
산업	54,730	868	7,228	-	433,577	-	-	2,977	254,424	-	122,520
농림어업	421	-	3	-	10,371	-	-	88	14,645	-	2,994
광업	-	-	-	-	469	-	-	0	1,631	-	207
제조업	54,304	868	7,224	-	406,338	-	-	2,885	238,148	-	116,795
식품및담배	65	-	672	-	600	-	-	137	10,485	-	1,861
섬유및가죽	1,640	-	349	-	604	-	-	164	11,604	-	2,628
목재및나무제품	-	-	58	-	39	-	-	276	1,904	-	506
제지및인쇄	24	9	225	-	241	-	-	740	9,933	-	1,888
화학및석유화학	4,817	-	1,334	-	383,865	-	-	301	44,326	-	55,394
비금속광물	4,650	-	523	-	3,537	-	-	871	12,023	-	5,854
철강	37,142	662	1,108	-	946	-	-	7	36,998	-	30,208
비철금속	815	-	335	-	234	-	-	-	9,318	-	1,651
기계류	-	-	977	-	663	-	-	1	74,325	-	7,500
수송장비	-	7	721	-	1,743	-	-	3	24,291	-	3,098
기타제조	5,151	191	921	-	8,302	-	-	385	2,392	-	5,347
기타에너지	-	-	-	-	5,563	-	-	-	549	-	860
건설업	4	-	1	-	16,399	-	-	5	-	-	2,524
수송	-	-	1,228	-	247,511	-	-	441	2,217	-	34,509
철도	-	-	-	-	829	-	-	-	2,217	-	309
도로	-	-	1,228	-	233,419	-	-	441	-	-	32,319
국내해운	-	-	-	-	3,808	-	-	-	-	-	569
국내항공	-	-	-	-	9,456	-	-	-	-	-	1,313
가정	830	-	8,754	-	16,402	-	-	217	63,794	1,663	18,939
상업·공공	352	-	3,216	-	37,070	-	4	1,197	152,011	242	22,735
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
794	188	-	17	-	34,765	454	7,455	-	125	43,798	Production
84,123	43,509	-	150,983	38,134	-	-	-	-	-	316,749	Imports
-12	-	-	-446	-66,278	-	-	-	-	-	-66,736	Exports
-	-	-	-	-14,083	-	-	-	-	-	-14,083	International Bunkers
-1,255	261	-	-1,612	-328	-	-	-0	-	-	-2,935	Stock changes
83,650	43,958	-	148,942	-42,554	34,765	454	7,455	-	125	276,794	Total primary energy supply
-	-	-	2,537	-1,913	-	-	-	-	-	624	Transfers
1,962	-353	542	-87	-137	-	-	0	-	-	1,927	Statistical differences
85,612	43,605	542	151,391	-44,604	34,765	454	7,455	-	125	279,345	Total primary energy consumption
-50,047	-42,397	21,041	-151,389	142,545	-34,765	-453	-2,622	45,113	2,325	-70,650	Transformation processes
-50,045	-16,087	-	-	-1,893	-34,765	-453	-2,717	43,219	-125	-62,866	Electricity-only plants
-	-4,492	-	-518	-122	-	-	-250	1,894	2,255	-1,234	CHP plants
-	-	-	-274	-121	-	-	-19	-	194	-221	Heat-only plants
-	-	-	-151,389	144,697	-	-	-	-	-	-6,692	Petroleum Products
-	-21,818	21,834	-	-16	-	-	-	-	-	0	Gas manufacturing
-2	-	-	-	-	-	-	1	-	-	-0	Coal-to-Gas plants
-	-	-	-	-	-	-	363	-	-	363	Non-specified Transformation
-	-74	-278	-3	-4,608	-	-	-	-3,121	-	-8,084	Transformation Own Use
-	-2	-	-	-	-	-	-	-1,361	-544	-1,908	Losses
35,565	1,132	21,305	-	93,333	-	1	4,832	40,630	1,905	198,704	Total final consumption
35,026	1,132	7,539	-	53,966	-	-	2,977	21,880	-	122,520	Industry
177	-	3	-	1,467	-	-	88	1,259	-	2,994	Agriculture/forestry/Fishing
-	-	-	-	67	-	-	0	140	-	207	Mining and quarrying
34,847	1,132	7,534	-	49,916	-	-	2,885	20,481	-	116,795	Manufacturing
40	-	701	-	81	-	-	137	902	-	1,861	Food and tobacco
1,010	-	364	-	92	-	-	164	998	-	2,628	Textile and leather
-	-	60	-	6	-	-	276	164	-	506	Wood and wood products
15	11	235	-	34	-	-	740	854	-	1,888	Paper, pulp and print
2,967	-	1,391	-	46,923	-	-	301	3,812	-	55,394	Chemical and petrochemical
2,864	-	546	-	540	-	-	871	1,034	-	5,854	Non-metallic minerals
24,895	863	1,155	-	106	-	-	7	3,182	-	30,208	Iron and steel
469	-	349	-	31	-	-	-	801	-	1,651	Non-ferrous metals
-	-	1,020	-	87	-	-	1	6,392	-	7,500	Machinery
-	9	752	-	245	-	-	3	2,089	-	3,098	Transport Equipment
2,586	249	961	-	960	-	-	385	206	-	5,347	Other manufacturing
-	-	-	-	813	-	-	-	47	-	860	Other energy
2	-	1	-	2,516	-	-	5	-	-	2,524	Construction
-	-	1,281	-	32,596	-	-	441	191	-	34,509	Transport
-	-	-	-	119	-	-	-	191	-	309	Rail
-	-	1,281	-	30,597	-	-	441	-	-	32,319	Road
-	-	-	-	569	-	-	-	-	-	569	Domestic navigation
-	-	-	-	1,313	-	-	-	-	-	1,313	Domestic aviation
379	-	9,130	-	2,064	-	-	217	5,486	1,663	18,939	Residential
161	-	3,355	-	4,706	-	1	1,197	13,073	242	22,735	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-6. 2016년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	1,726	118	-	104	-	161,995	2,859	8,258	-	117	44,106
수입	134,930	33,453	-	1,084,066	334,608	-	-	-	-	-	327,086
수출	-1	-	-	-3,597	-487,716	-	-	-	-	-	-68,509
국제병커링	-	-	-	-	-105,124	-	-	-	-	-	-15,811
재고변화	-1,065	1,339	-	-4,172	2,603	-	-	3	-	-	1,033
일차에너지공급	135,590	34,911	-	1,076,400	-255,629	161,995	2,859	8,261	-	117	287,905
제품이동	-	-	-	11,657	-14,036	-	-	-	-	-	394
통계오차	-1,038	-14	303	-1,635	497	-	-	-0	-	-	-490
일차에너지소비	134,552	34,897	303	1,086,422	-269,168	161,995	2,859	8,261	-	117	287,808
전환공정	-80,784	-33,404	20,798	-1,085,610	1,098,055	-161,995	-2,846	-2,918	536,794	2,507	-71,214
발전전용	-80,620	-12,227	-	-	-18,500	-161,995	-2,846	-3,070	504,257	-117	-62,319
열병합	-	-3,994	-483	-	-807	-	-	-147	32,537	2,382	-807
열전용	-	-	-220	-	-1,251	-	-	-18	-	243	-202
석유제품생산	-	-	-	-1,085,610	1,118,794	-	-	-	-	-	-8,102
가스제조	-	-17,184	21,501	-	-182	-	-	-	-	-	0
석탄합성가스제조	-165	-	-	-	-	-	-	76	-	-	-25
기타전환	-	-	-	-	-	-	-	242	-	-	242
전환자제소비	-	-123	-77	-812	-46,129	-	-	-	-34,818	-	-8,347
손실	-	-3	-	-	-	-	-	-	-17,181	-549	-2,030
최종소비	53,768	1,367	21,024	-	782,758	-	12	5,343	484,795	2,075	206,217
산업	52,611	1,367	7,149	-	469,195	-	-	3,135	257,732	-	126,284
농림어업	218	-	3	-	9,843	-	-	155	15,397	-	2,959
광업	-	-	-	-	437	-	-	0	1,755	-	212
제조업	52,390	1,367	7,145	-	441,087	-	-	2,971	240,580	-	120,356
식품및담배	65	-	681	-	614	-	-	135	10,999	-	1,911
섬유및가죽	1,650	-	310	-	549	-	-	179	11,426	-	2,585
목재및나무제품	-	-	28	-	33	-	-	181	1,918	-	379
제지및인쇄	26	416	247	-	298	-	-	726	10,014	-	2,445
화학및석유화학	5,390	-	970	-	417,523	-	-	602	46,099	-	59,559
비금속광물	4,591	-	502	-	3,820	-	-	667	12,575	-	5,682
철강	35,064	751	1,142	-	730	-	-	4	35,159	-	28,851
비철금속	841	-	291	-	254	-	-	0	9,986	-	1,680
기계류	170	-	985	-	757	-	-	29	75,601	-	7,758
수송장비	-	8	643	-	1,862	-	-	396	23,712	-	3,378
기타제조	4,593	192	1,347	-	9,251	-	-	51	2,547	-	5,295
기타에너지	-	-	-	-	5,395	-	-	-	544	-	835
건설업	3	-	1	-	17,829	-	-	9	-	-	2,756
수송	-	-	1,217	-	257,307	-	-	523	2,689	-	36,029
철도	-	-	-	-	725	-	-	-	2,689	-	335
도로	-	-	1,217	-	244,047	-	-	523	-	-	33,924
국내해운	-	-	-	-	3,291	-	-	-	-	-	487
국제항공	-	-	-	-	9,244	-	-	-	-	-	1,283
가정	792	-	9,249	-	18,889	-	-	299	66,173	1,771	20,150
상업·공공	364	-	3,408	-	37,366	-	12	1,387	158,202	304	23,754
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
777	154	-	15	-	34,181	603	8,258	-	117	44,106	Production
83,621	43,623	-	158,918	40,923	-	-	-	-	-	327,086	Imports
-1	-	-	-670	-67,839	-	-	-	-	-	-68,509	Exports
-	-	-	-	-15,811	-	-	-	-	-	-15,811	International Bunkers
-523	1,747	-	-600	406	-	-	3	-	-	1,033	Stock changes
83,874	45,524	-	157,664	-42,320	34,181	603	8,261	-	117	287,905	Total primary energy supply
-	-	-	2,170	-1,777	-	-	-	-	-	394	Transfers
-597	-18	316	-243	52	-	-	-0	-	-	-490	Statistical differences
83,278	45,506	316	159,592	-44,046	34,181	603	8,261	-	117	287,808	Total primary energy consumption
-48,976	-43,559	21,692	-159,440	148,098	-34,181	-601	-2,918	46,164	2,507	-71,214	Transformation processes
-48,875	-15,944	-	-	-2,898	-34,181	-601	-3,070	43,366	-117	-62,319	Electricity-only plants
-	-5,208	-504	-	-127	-	-	-147	2,798	2,382	-807	CHP plants
-	-	-229	-	-198	-	-	-18	-	243	-202	Heat-only plants
-	-	-	-159,440	151,338	-	-	-	-	-	-8,102	Petroleum Products
-22,408	22,426	-	-	-18	-	-	-	-	-	0	Gas manufacturing
-102	-	-	-	-	-	-	76	-	-	-25	Coal-to-Gas plants
-	-	-	-	-	-	-	242	-	-	242	Non-specified Transformation
-160	-80	-151	-4,960	-	-	-	-2,994	-	-	-8,347	Transformation Own Use
-3	-	-	-	-	-	-	-1,478	-549	-	-2,030	Losses
34,302	1,783	21,928	-	99,092	-	3	5,343	41,692	2,075	206,217	Total final consumption
33,775	1,783	7,456	-	57,970	-	-	3,135	22,165	-	126,284	Industry
86	-	3	-	1,392	-	-	155	1,324	-	2,959	Agriculture/forestry/Fishing
-	-	-	-	61	-	-	0	151	-	212	Mining and quarrying
33,688	1,783	7,452	-	53,773	-	-	2,971	20,690	-	120,356	Manufacturing
40	-	711	-	80	-	-	135	946	-	1,911	Food and tobacco
1,017	-	323	-	83	-	-	179	983	-	2,585	Textile and leather
-	-	29	-	5	-	-	181	165	-	379	Wood and wood products
16	542	257	-	42	-	-	726	861	-	2,445	Paper, pulp and print
3,320	-	1,012	-	50,660	-	-	602	3,965	-	59,559	Chemical and petrochemical
2,828	-	523	-	582	-	-	667	1,081	-	5,682	Non-metallic minerals
23,572	980	1,191	-	80	-	-	4	3,024	-	28,851	Iron and steel
485	-	303	-	32	-	-	0	859	-	1,680	Non-ferrous metals
104	-	1,027	-	95	-	-	29	6,502	-	7,758	Machinery
-	11	670	-	261	-	-	396	2,039	-	3,378	Transport Equipment
2,305	250	1,405	-	1,064	-	-	51	219	-	5,295	Other manufacturing
-	-	-	-	788	-	-	-	47	-	835	Other energy
1	-	1	-	2,745	-	-	9	-	-	2,756	Construction
-	-	1,270	-	34,005	-	-	523	231	-	36,029	Transport
-	-	-	-	104	-	-	-	231	-	335	Rail
-	-	1,270	-	32,131	-	-	523	-	-	33,924	Road
-	-	-	-	487	-	-	-	-	-	487	Domestic navigation
-	-	-	-	1,283	-	-	-	-	-	1,283	Domestic aviation
361	-	9,647	-	2,382	-	-	299	5,691	1,771	20,150	Residential
166	-	3,555	-	4,734	-	3	1,387	13,605	304	23,754	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-7. 2017년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	1,485	261	-	217	-	148,427	2,820	9,960	-	127	43,378
수입	148,678	37,537	-	1,124,938	314,487	-	-	-	-	-	341,836
수출	-135	-	-	-2,447	-509,113	-	-	-	-	-	-71,507
국제병커링	-	-	-	-	-103,695	-	-	-	-	-	-15,564
재고변화	-156	-613	-	-1,633	-1,663	-	-	-2	-	-	-1,430
일차에너지공급	149,872	37,185	-	1,121,075	-299,983	148,427	2,820	9,959	-	127	296,713
제품이동	-	-	-	34,286	-34,338	-	-	-	-	-	2,048
통계오차	-2,745	-809	201	-1,442	-383	-	-	-14	-	-	-2,567
일차에너지소비	147,127	36,376	201	1,153,920	-334,705	148,427	2,820	9,944	-	127	296,194
전환공정	-91,299	-34,620	22,348	-1,153,915	1,176,532	-148,427	-2,809	-3,380	549,498	2,717	-72,861
발전전용	-90,927	-12,010	-	-	-7,042	-148,427	-2,809	-3,731	513,303	-127	-61,636
열병합	-	-4,411	-513	-	-1,019	-	-	-234	36,194	2,691	-860
열전용	-	-	-258	-	-1,184	-	-	-2	-	154	-301
석유제품생산	-	-	-	-1,153,915	1,185,996	-	-	-	-	-	-10,431
가스제조	-	-18,199	23,119	-	-219	-	-	-	-	-	0
석탄합성가스제조	-372	-	-	-	-	-	-	274	-	-	53
기타전환	-	-	-	-	-	-	-	313	-	-	313
전환자제소비	-	-363	-79	-5	-40,552	-	-	-	-35,756	-	-8,051
손실	-	7	-	-	-	-	-	-	-18,600	-544	-2,134
최종소비	55,828	1,401	22,470	-	801,275	-	11	6,564	495,141	2,300	213,147
산업	54,857	1,401	7,729	-	487,121	-	-	4,155	264,067	-	131,574
농림어업	198	-	3	-	9,173	-	-	679	15,981	-	3,433
광업	-	-	-	-	395	-	-	0	1,746	-	205
제조업	54,657	1,401	7,725	-	460,469	-	-	3,462	246,340	-	125,288
식품및담배	48	-	689	-	681	-	-	124	11,282	-	1,919
섬유및가죽	1,907	-	302	-	693	-	-	156	11,261	-	2,656
목재및나무제품	-	-	28	-	29	-	-	138	1,925	-	337
제지및인쇄	-	417	245	-	316	-	-	717	9,784	-	2,400
화학및석유화학	6,470	-	970	-	433,460	-	-	905	47,710	-	62,568
비금속광물	4,175	-	519	-	3,398	-	-	658	12,612	-	5,260
철강	36,573	793	1,203	-	838	-	-	4	35,524	-	29,726
비철금속	891	-	270	-	274	-	-	0	9,959	-	1,671
기계류	474	-	1,055	-	649	-	-	194	79,986	-	8,520
수송장비	-	12	553	-	1,822	-	-	477	22,324	-	3,237
기타제조	4,118	179	1,891	-	10,342	-	-	92	3,409	-	5,828
기타에너지	-	-	-	-	7,965	-	-	-	563	-	1,165
건설업	2	-	1	-	17,084	-	-	14	-	-	2,648
수송	-	-	1,218	-	257,708	-	-	564	2,864	-	36,260
철도	-	-	-	-	703	-	-	-	2,820	-	343
도로	-	-	1,218	-	244,104	-	-	564	45	-	34,101
국내해운	-	-	-	-	3,073	-	-	-	-	-	453
국제항공	-	-	-	-	9,829	-	-	-	-	-	1,363
가정	666	-	9,950	-	18,353	-	-	375	66,517	1,955	20,927
상업·공공	306	-	3,573	-	38,094	-	11	1,471	161,693	345	24,386
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
702	341	-	32	-	31,615	601	9,960	-	127	43,378	Production
89,227	49,023	-	165,241	38,344	-	-	-	-	-	341,836	Imports
-86	-	-	-455	-70,965	-	-	-	-	-	-71,507	Exports
-	-	-	-	-15,564	-	-	-	-	-	-15,564	International Bunkers
-63	-800	-	-295	-269	-	-	-2	-	-	-1,430	Stock changes
89,780	48,564	-	164,522	-48,454	31,615	601	9,959	-	127	296,713	Total primary energy supply
-	-	-	6,384	-4,336	-	-	-	-	-	2,048	Transfers
-1,452	-1,056	207	-208	-44	-	-	-14	-	-	-2,567	Statistical differences
88,328	47,508	207	170,698	-52,834	31,615	601	9,944	-	127	296,194	Total primary energy consumption
-53,157	-45,214	22,996	-170,698	158,831	-31,615	-598	-3,380	47,257	2,717	-72,861	Transformation processes
-52,937	-15,685	-	-	-1,067	-31,615	-598	-3,731	44,144	-127	-61,636	Electricity-only plants
-	-5,761	-	-	-141	-	-	-234	3,113	2,691	-860	CHP plants
-	-	-	-266	-187	-	-	-2	-	154	-301	Heat-only plants
-	-	-	-170,698	160,267	-	-	-	-	-	-10,431	Petroleum Products
-23,768	23,789	-	-	-21	-	-	-	-	-	0	Gas manufacturing
-220	-	-	-	-	-	-	274	-	-	53	Coal-to-Gas plants
-	-	-	-	-	-	-	313	-	-	313	Non-specified Transformation
-	-473	-81	-1	-4,420	-	-	-	-3,075	-	-8,051	Transformation Own Use
-	9	-	-	-	-	-	-	-1,600	-544	-2,134	Losses
35,171	1,830	23,122	-	101,576	-	2	6,564	42,582	2,300	213,147	Total final consumption
34,710	1,830	7,953	-	60,217	-	-	4,155	22,710	-	131,574	Industry
78	-	3	-	1,298	-	-	679	1,374	-	3,433	Agriculture/forestry/Fishing
-	-	-	-	55	-	-	0	150	-	205	Mining and quarrying
34,631	1,830	7,949	-	56,230	-	-	3,462	21,185	-	125,288	Manufacturing
29	-	709	-	88	-	-	124	970	-	1,919	Food and tobacco
1,129	-	310	-	93	-	-	156	968	-	2,656	Textile and leather
-	-	29	-	4	-	-	138	166	-	337	Wood and wood products
-	545	252	-	44	-	-	717	841	-	2,400	Paper, pulp and print
3,830	-	998	-	52,732	-	-	905	4,103	-	62,568	Chemical and petrochemical
2,472	-	534	-	512	-	-	658	1,085	-	5,260	Non-metallic minerals
24,304	1,036	1,238	-	90	-	-	4	3,055	-	29,726	Iron and steel
503	-	278	-	34	-	-	0	857	-	1,671	Non-ferrous metals
281	-	1,086	-	81	-	-	194	6,879	-	8,520	Machinery
-	15	569	-	256	-	-	477	1,920	-	3,237	Transport Equipment
2,084	234	1,946	-	1,181	-	-	92	293	-	5,828	Other manufacturing
-	-	-	-	1,117	-	-	-	48	-	1,165	Other energy
1	-	1	-	2,633	-	-	14	-	-	2,648	Construction
-	-	1,253	-	34,196	-	-	564	246	-	36,260	Transport
-	-	-	-	101	-	-	-	242	-	343	Rail
-	-	1,253	-	32,279	-	-	564	4	-	34,101	Road
-	-	-	-	453	-	-	-	-	-	453	Domestic navigation
-	-	-	-	1,363	-	-	-	-	-	1,363	Domestic aviation
316	-	10,238	-	2,323	-	-	375	5,720	1,955	20,927	Residential
145	-	3,677	-	4,841	-	2	1,471	13,906	345	24,386	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-8. 2018년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	1,202	234	-	189	-	133,505	3,374	11,008	-	68	41,133
수입	149,170	44,015	-	1,126,403	341,628	-	-	-	-	-	354,195
수출	-70	-	-	-4,124	-531,563	-	-	-	-	-	-74,876
국제병커링	-	-	-	-	-102,293	-	-	-	-	-	-15,307
재고변화	1,514	-2,067	-	-8,626	-10,905	-	-	2	-	-	-4,353
일차에너지공급	151,816	42,183	-	1,113,842	303,132	133,505	3,374	11,009	-	68	300,791
제품이동	-	-	-	63,333	-64,154	-	-	-	-	-	3,669
통계오차	-133	87	240	-1,899	83	-	-	0	-	-	14
일차에너지소비	151,683	42,269	240	1,175,276	367,203	133,505	3,374	11,009	-	68	304,474
전환공정	-95,281	-39,988	24,035	-1,175,276	1,197,091	-133,505	-3,359	-3,969	566,889	2,891	-78,392
발전전용	-94,792	-14,802	-	-	-8,016	-133,505	-3,359	-4,525	519,856	-68	-64,900
열병합	-	-5,562	-689	-	-591	-	-	-174	47,033	2,797	-1,388
열전용	-	-	-288	-	-1,099	-	-	-10	-	163	-317
석유제품생산	-	-	-	-1,175,276	1,207,900	-	-	-	-	-	-12,237
가스제조	-	-19,624	25,011	-	-1,103	-	-	-	-	-	-0
석탄합성가스제조	-489	-	-	-	-	-	-	363	-	-	73
기타전환	-	-	-	-	-	-	-	376	-	-	376
전환자제소비	-	-919	-1,152	-	-41,677	-	-	-	-35,645	-	-9,709
손실	-	5	-	-	-	-	-	-	-18,002	-425	-1,966
최종소비	56,401	1,367	23,123	-	788,210	-	15	7,040	513,242	2,535	214,407
산업	55,585	1,367	7,621	-	478,445	-	-	4,281	270,798	0	131,130
농림어업	170	-	3	-	8,747	-	-	671	17,126	0	3,449
광업	-	-	-	-	396	-	-	0	1,478	-	182
제조업	55,413	1,367	7,618	-	453,271	-	-	3,597	252,193	-	125,020
식품및담배	-	-	773	-	737	-	-	117	11,950	-	2,037
섬유및가죽	1,831	-	240	-	455	-	-	181	10,835	-	2,507
목재및나무제품	-	-	51	-	25	-	-	90	1,875	-	308
제지및인쇄	-	398	253	-	314	-	-	711	9,637	-	2,364
화학및석유화학	6,277	-	1,938	-	428,496	-	-	1,405	49,256	-	63,289
비금속광물	3,709	-	533	-	3,507	-	-	633	12,147	-	4,956
철강	37,168	780	1,204	-	619	-	-	4	34,852	-	29,928
비철금속	897	-	386	-	290	-	-	-	10,172	-	1,815
기계류	254	-	1,173	-	634	-	-	253	84,862	-	8,987
수송장비	-	9	744	-	1,472	-	-	65	21,804	-	2,924
기타제조	5,277	180	321	-	10,323	-	-	138	4,218	-	4,918
기타에너지	-	-	-	-	6,400	-	-	-	585	-	988
건설업	1	-	0	-	16,031	-	-	14	-	-	2,478
수송	-	-	1,203	-	256,066	-	-	686	3,080	-	36,227
철도	-	-	-	-	699	-	-	-	2,968	-	356
도로	-	-	1,203	-	242,977	-	-	686	112	-	34,133
국내해운	-	-	-	-	2,345	-	-	-	-	-	345
국제항공	-	-	-	-	10,045	-	-	-	-	-	1,393
가정	560	-	10,593	-	18,477	-	-	417	70,687	2,125	22,122
상업·공공	257	-	3,704	-	35,222	-	15	1,656	168,677	410	24,929
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petroleum	Nuclear	Hydro	Renewables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
569	305	-	28	-	28,437	719	11,008	-	68	41,133	Production
89,484	57,484	-	165,588	41,639	-	-	-	-	-	354,195	Imports
-47	-	-	-764	-74,065	-	-	-	-	-	-74,876	Exports
-	-	-	-	-15,307	-	-	-	-	-	-15,307	International Bunkers
1,011	-2,699	-	-1,272	-1,396	-	-	2	-	-	-4,353	Stock changes
91,017	55,090	-	163,580	-49,129	28,437	719	11,009	-	68	300,791	Total primary energy supply
-	-	-	11,793	-8,124	-	-	-	-	-	3,669	Transfers
-55	113	247	-286	-5	-	-	0	-	-	14	Statistical differences
90,962	55,204	247	175,087	-57,258	28,437	719	11,009	-	68	304,474	Total primary energy consumption
-55,585	-52,225	24,732	-175,087	161,251	-28,437	-716	-3,969	48,752	2,891	-78,392	Transformation processes
-55,295	-19,332	-	-	-1,235	-28,437	-716	-4,525	44,708	-68	-64,900	Electricity-only plants
-	-7,264	-	-	-83	-	-	-174	4,045	2,797	-1,388	CHP plants
-	-	-	-296	-174	-	-	-10	-	163	-317	Heat-only plants
-	-	-	-175,087	162,850	-	-	-	-	-	-12,237	Petroleum Products
-25,629	25,736	-	-	-107	-	-	-	-	-	-0	Gas manufacturing
-289	-	-	-	-	-	-	363	-	-	73	Coal-to-Gas plants
-	-	-	-	-	-	-	376	-	-	376	Non-specified Transformation
-	-1,200	-1,185	-	-4,259	-	-	-	-3,065	-	-9,709	Transformation Own Use
-	7	-	-	-	-	-	-	-1,548	-425	-1,966	Losses
35,377	1,786	23,793	-	99,734	-	3	7,040	44,139	2,535	214,407	Total final consumption
34,990	1,786	7,842	-	58,942	-	-	4,281	23,289	0	131,130	Industry
67	-	4	-	1,235	-	-	671	1,473	0	3,449	Agriculture/forestry/Fishing
-	-	-	-	55	-	-	0	127	-	182	Mining and quarrying
34,922	1,786	7,839	-	55,188	-	-	3,597	21,689	-	125,020	Manufacturing
-	-	796	-	96	-	-	117	1,028	-	2,037	Food and tobacco
1,084	-	247	-	63	-	-	181	932	-	2,507	Textile and leather
-	-	53	-	4	-	-	90	161	-	308	Wood and wood products
-	520	260	-	44	-	-	711	829	-	2,364	Paper, pulp and print
3,716	-	1,994	-	51,937	-	-	1,405	4,236	-	63,289	Chemical and petrochemical
2,196	-	549	-	534	-	-	633	1,045	-	4,956	Non-metallic minerals
24,601	1,019	1,239	-	68	-	-	4	2,997	-	29,928	Iron and steel
505	-	397	-	38	-	-	-	875	-	1,815	Non-ferrous metals
151	-	1,207	-	78	-	-	253	7,298	-	8,987	Machinery
-	12	766	-	206	-	-	65	1,875	-	2,924	Transport Equipment
2,670	235	330	-	1,182	-	-	138	363	-	4,918	Other manufacturing
-	-	-	-	938	-	-	-	50	-	988	Other energy
1	-	0	-	2,464	-	-	14	-	-	2,478	Construction
-	-	1,238	-	34,038	-	-	686	265	-	36,227	Transport
-	-	-	-	100	-	-	-	255	-	356	Rail
-	-	1,238	-	32,199	-	-	686	10	-	34,133	Road
-	-	-	-	345	-	-	-	-	-	345	Domestic navigation
-	-	-	-	1,393	-	-	-	-	-	1,393	Domestic aviation
265	-	10,901	-	2,335	-	-	417	6,079	2,125	22,122	Residential
122	-	3,812	-	4,419	-	3	1,656	14,506	410	24,929	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-9. 2019년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	1,084	198	-	155	-	145,910	2,791	11,544	-	66	44,078
수입	141,792	40,748	-	1,075,973	352,147	-	-	-	-	-	338,899
수출	-17	-	-	-769	-522,099	-	-	-	-	-	-72,524
국제병커링	-	-	-	-	-94,656	-	-	-	-	-	-14,056
재고변화	-1,707	305	-	5,758	8,063	-	-	-2	-	-	1,171
일차에너지공급	141,152	41,252	-	1,081,117	-256,545	145,910	2,791	11,541	-	66	297,568
제품이동	-	-	-	92,390	-93,168	-	-	-	-	-	5,345
통계오차	477	-262	477	-14,500	-1,103	-	-	2	-	-	-1,396
일차에너지소비	141,628	40,990	477	1,159,008	-350,816	145,910	2,791	11,543	-	66	301,517
전환공정	-87,762	-38,038	22,792	-1,159,008	1,188,707	-145,910	-2,789	-5,035	559,744	3,095	-77,349
발전전용	-87,455	-14,016	-	-	-5,287	-145,910	-2,789	-5,492	513,686	-66	-63,662
열병합	-	-5,390	-432	-	-397	-	-	-227	46,058	2,920	-883
열전용	-	-	-256	-	-1,711	-	-	-24	-	241	-272
석유제품생산	-	-	-	-1,159,008	1,196,345	-	-	-	-	-	-12,860
가스제조	-	-18,633	23,671	-	-243	-	-	-	-	-	0
석탄합성가스제조	-307	-	-	-	-	-	-	220	-	-	38
기타전환	-	-	-192	-	-	-	-	487	-	-	290
전환자제소비	-	-1,479	-825	-	-41,759	-	-	-	-36,061	-	-9,939
손실	-	2	-	-	-	-	-	-	-16,381	-690	-2,096
최종소비	53,866	1,476	22,444	-	796,132	-	2	6,508	507,302	2,471	212,133
산업	53,221	1,476	7,475	-	483,878	-	-	3,990	266,573	0	129,609
농림어업	64	-	4	-	9,846	-	-	164	17,305	0	3,065
광업	-	-	-	-	401	-	-	0	1,493	-	184
제조업	53,156	1,476	7,470	-	457,806	-	-	3,792	247,775	-	123,894
식품및담배	-	-	785	-	554	-	-	75	12,232	-	2,004
섬유및가죽	1,682	-	258	-	266	-	-	161	9,936	-	2,315
목재및나무제품	-	-	26	-	29	-	-	109	1,735	-	289
제지및인쇄	-	440	290	-	227	-	-	665	9,421	-	2,379
화학및석유화학	5,751	-	1,743	-	432,146	-	-	1,186	49,012	-	62,695
비금속광물	3,989	-	561	-	4,047	-	-	700	11,724	-	5,281
철강	36,407	845	1,198	-	730	-	-	11	32,617	-	29,406
비철금속	892	-	367	-	282	-	-	-	9,546	-	1,738
기계류	449	-	1,215	-	633	-	-	364	84,842	-	9,254
수송장비	-	13	677	-	1,543	-	-	59	21,853	-	2,866
기타제조	3,987	176	351	-	10,620	-	-	418	4,283	-	4,598
기타에너지	-	-	-	-	6,730	-	-	46	575	-	1,070
건설업	0	-	0	-	15,826	-	-	34	-	-	2,467
수송	-	-	1,181	-	263,189	-	-	685	3,156	-	37,193
철도	-	-	-	-	664	-	-	-	2,909	-	346
도로	-	-	1,181	-	249,929	-	-	685	248	-	35,074
국내해운	-	-	-	-	2,750	-	-	-	-	-	409
국제항공	-	-	-	-	9,845	-	-	-	-	-	1,365
가정	590	-	10,184	-	17,196	-	-	510	70,455	2,080	21,560
상업·공공	56	-	3,604	-	31,868	-	2	1,323	167,118	391	23,770
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
513	259	-	23	-	31,079	594	11,544	-	66	44,078	Production
85,586	53,217	-	157,955	42,140	-	-	-	-	-	338,899	Imports
-12	-	-	-138	-72,374	-	-	-	-	-	-72,524	Exports
-	-	-	-	-14,056	-	-	-	-	-	-14,056	International Bunkers
-1,084	399	-	815	1,044	-	-	-2	-	-	1,171	Stock changes
85,003	53,875	-	158,655	-43,245	31,079	594	11,541	-	66	297,568	Total primary energy supply
-	-	-	17,203	-11,858	-	-	-	-	-	5,345	Transfers
734	-342	490	-2,132	-150	-	-	2	-	-	-1,396	Statistical differences
85,737	53,533	490	173,726	-55,253	31,079	594	11,543	-	66	301,517	Total primary energy consumption
-51,690	-49,678	23,452	-173,726	159,768	-31,079	-594	-5,035	48,138	3,095	-77,349	Transformation processes
-51,509	-18,304	-	-	-795	-31,079	-594	-5,492	44,177	-66	-63,662	Electricity-only plants
-	-7,040	-	-	-53	-	-	-227	3,961	2,920	-883	CHP plants
-	-	-	-263	-226	-	-	-24	-	241	-272	Heat-only plants
-	-	-	-173,726	160,866	-	-	-	-	-	-12,860	Petroleum Products
-24,334	24,358	-	-	-24	-	-	-	-	-	0	Gas manufacturing
-182	-	-	-	-	-	-	220	-	-	38	Coal-to-Gas plants
-	-	-	-197	-	-	-	487	-	-	290	Non-specified Transformation
-	-1,931	-849	-	-4,059	-	-	-	-3,101	-	-9,939	Transformation Own Use
-	3	-	-	-	-	-	-	-1,409	-690	-2,096	Losses
34,046	1,927	23,094	-	100,457	-	1	6,508	43,628	2,471	212,133	Total final consumption
33,740	1,927	7,692	-	59,336	-	-	3,990	22,925	0	129,609	Industry
16	-	4	-	1,392	-	-	164	1,488	0	3,065	Agriculture/forestry/Fishing
-	-	-	-	55	-	-	0	128	-	184	Mining and quarrying
33,724	1,927	7,687	-	55,456	-	-	3,792	21,309	-	123,894	Manufacturing
-	-	807	-	70	-	-	75	1,052	-	2,004	Food and tobacco
996	-	265	-	38	-	-	161	854	-	2,315	Textile and leather
-	-	27	-	4	-	-	109	149	-	289	Wood and wood products
-	575	298	-	30	-	-	665	810	-	2,379	Paper, pulp and print
3,405	-	1,794	-	52,096	-	-	1,186	4,215	-	62,695	Chemical and petrochemical
2,361	-	578	-	635	-	-	700	1,008	-	5,281	Non-metallic minerals
24,176	1,104	1,232	-	76	-	-	11	2,805	-	29,406	Iron and steel
503	-	378	-	37	-	-	-	821	-	1,738	Non-ferrous metals
266	-	1,250	-	78	-	-	364	7,296	-	9,254	Machinery
-	18	697	-	214	-	-	59	1,879	-	2,866	Transport Equipment
2,017	230	361	-	1,203	-	-	418	368	-	4,598	Other manufacturing
-	-	-	-	974	-	-	46	49	-	1,070	Other energy
0	-	0	-	2,433	-	-	34	-	-	2,467	Construction
-	-	1,216	-	35,021	-	-	685	271	-	37,193	Transport
-	-	-	-	95	-	-	-	250	-	346	Rail
-	-	1,216	-	33,152	-	-	685	21	-	35,074	Road
-	-	-	-	409	-	-	-	-	-	409	Domestic navigation
-	-	-	-	1,365	-	-	-	-	-	1,365	Domestic aviation
280	-	10,479	-	2,152	-	-	510	6,059	2,080	21,560	Residential
26	-	3,708	-	3,948	-	1	1,323	14,372	391	23,770	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-10. 2020년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	1,019	142	-	103	-	160,184	3,879	12,624	-	73	48,325
수입	123,886	39,982	-	987,422	347,376	-	-	-	-	-	313,516
수출	-159	-	-	-448	-468,529	-	-	-	-	-	-65,398
국제병커링	-	-24	-	-	-90,868	-	-	-	-	-	-13,772
재고변화	1,293	1,183	-	1,876	1,198	-	-	1	-	-	2,880
일차에너지공급	126,039	41,282	-	988,952	-210,822	160,184	3,879	12,625	-	73	285,551
제품이동	-	-	-	101,616	-102,676	-	-	-	-	-	5,482
통계오차	-823	175	382	-1,275	1,082	-	-	0	-	-	450
일차에너지소비	125,216	41,458	382	1,089,293	-312,416	160,184	3,879	12,625	-	73	291,484
전환공정	-73,935	-38,024	22,067	-1,089,282	1,105,784	-160,184	-3,877	-5,957	549,061	3,210	-75,496
발전전용	-73,283	-14,258	-	-	-3,377	-160,184	-3,877	-7,043	503,493	-73	-61,022
열병합	-	-5,721	-360	-	-449	-	-	-151	45,567	3,065	-1,074
열전용	-	-	-205	-	-1,594	-	-	-20	-	218	-228
석유제품생산	-	-	-	-1,089,282	1,111,458	-	-	-	-	-	-13,740
가스제조	-	-18,045	22,927	-	-254	-	-	-	-	-	0
석탄합성가스제조	-652	-	-	-	-	-	-	506	-	-	120
기타전환	-	-	-295	-	-	-	-	751	-	-	448
전환자제소비	-	-1,848	-455	-11	-41,309	-	-	-34,765	-	-	-9,876
손실	-	6	-	-	-	-	-	-17,406	-690	-	-2,180
최종소비	51,280	1,591	21,995	-	752,060	-	2	6,688	496,890	2,592	203,932
산업	50,774	1,591	7,138	-	461,960	-	-	4,030	254,749	0	124,199
농림어업	103	-	1	-	10,971	-	-	176	17,037	0	3,218
광업	-	-	-	-	486	-	-	0	1,552	-	201
제조업	50,671	1,591	7,137	-	435,262	-	-	3,839	236,161	-	118,423
식품및담배	-	-	823	-	561	-	-	103	12,902	-	2,131
섬유및가죽	1,523	-	222	-	202	-	-	171	8,697	-	2,077
목재및나무제품	-	-	24	-	47	-	-	114	1,703	-	291
제지및인쇄	-	411	296	-	261	-	-	702	9,041	-	2,355
화학및석유화학	6,376	-	1,726	-	410,106	-	-	1,138	49,520	-	60,412
비금속광물	3,404	-	516	-	3,634	-	-	732	11,154	-	4,803
철강	34,298	970	1,001	-	694	-	-	11	26,452	-	27,444
비철금속	950	-	462	-	313	-	-	-	10,061	-	1,910
기계류	300	-	1,251	-	635	-	-	432	82,634	-	9,083
수송장비	-	36	620	-	1,611	-	-	76	20,658	-	2,757
기타제조	3,819	175	196	-	10,656	-	-	360	3,338	-	4,203
기타에너지	-	-	-	-	6,541	-	-	-	-	-	956
건설업	0	-	0	-	15,242	-	-	15	-	-	2,356
수송	-	-	1,068	-	245,380	-	-	695	3,315	-	34,745
철도	-	-	-	-	586	-	-	-	2,899	-	333
도로	-	-	1,068	-	238,014	-	-	695	416	-	33,451
국내해운	-	-	-	-	2,274	-	-	-	-	-	336
국내항공	-	-	-	-	4,506	-	-	-	-	-	625
가정	463	-	10,593	-	16,774	-	-	569	74,074	2,200	22,356
상업·공공	44	-	3,196	-	27,946	-	2	1,374	164,752	393	22,632
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
482	185	-	15	-	34,119	826	12,624	-	73	48,325	Production
74,875	52,217	-	145,093	41,331	-	-	-	-	-	313,516	Imports
-110	-	-	-80	-65,207	-	-	-	-	-	-65,398	Exports
-	-32	-	-	-13,741	-	-	-	-	-	-13,772	International Bunkers
756	1,545	-	282	296	-	-	1	-	-	2,880	Stock changes
76,003	53,915	-	145,311	-37,321	34,119	826	12,625	-	73	285,551	Total primary energy supply
-	-	-	18,921	-13,438	-	-	-	-	-	5,482	Transfers
-91	229	394	-172	91	-	-	0	-	-	450	Statistical differences
75,912	54,144	394	164,060	-50,669	34,119	826	12,625	-	73	291,484	Total primary energy consumption
-43,524	-49,659	22,707	-164,058	149,512	-34,119	-826	-5,957	47,219	3,210	-75,496	Transformation processes
-43,138	-18,621	-	-	-502	-34,119	-826	-7,043	43,300	-73	-61,022	Electricity-only plants
-	-7,471	-371	-	-65	-	-	-151	3,919	3,065	-1,074	CHP plants
-	-	-211	-	-215	-	-	-20	-	218	-228	Heat-only plants
-	-	-	-164,058	150,318	-	-	-	-	-	-13,740	Petroleum Products
-23,567	23,592	-	-	-25	-	-	-	-	-	0	Gas manufacturing
-386	-	-	-	-	-	-	506	-	-	120	Coal-to-Gas plants
-	-	-303	-	-	-	-	751	-	-	448	Non-specified Transformation
-2,414	-468	-2	-4,003	-	-	-	-2,990	-	-	-9,876	Transformation Own Use
-	8	-	-	-	-	-	-1,497	-690	-	-2,180	Losses
32,387	2,078	22,632	-	94,841	-	0	6,668	42,733	2,592	203,932	Total final consumption
32,147	2,078	7,345	-	56,690	-	-	4,030	21,908	0	124,199	Industry
25	-	1	-	1,550	-	-	176	1,465	0	3,218	Agriculture/forestry/Fishing
-	-	-	-	68	-	-	0	133	-	201	Mining and quarrying
32,122	2,078	7,344	-	52,731	-	-	3,839	20,310	-	118,423	Manufacturing
-	-	847	-	72	-	-	103	1,110	-	2,131	Food and tobacco
902	-	229	-	28	-	-	171	748	-	2,077	Textile and leather
-	-	24	-	7	-	-	114	146	-	291	Wood and wood products
-	536	304	-	35	-	-	702	778	-	2,355	Paper, pulp and print
3,775	-	1,777	-	49,464	-	-	1,138	4,259	-	60,412	Chemical and petrochemical
2,015	-	531	-	566	-	-	732	959	-	4,803	Non-metallic minerals
22,792	1,266	1,030	-	70	-	-	11	2,275	-	27,444	Iron and steel
528	-	475	-	41	-	-	-	865	-	1,910	Non-ferrous metals
178	-	1,288	-	80	-	-	432	7,107	-	9,083	Machinery
-	46	638	-	221	-	-	76	1,777	-	2,757	Transport Equipment
1,932	229	202	-	1,192	-	-	360	287	-	4,203	Other manufacturing
-	-	-	-	956	-	-	-	-	-	956	Other energy
0	-	0	-	2,341	-	-	15	-	-	2,356	Construction
-	-	1,099	-	32,666	-	-	695	285	-	34,745	Transport
-	-	-	-	84	-	-	-	249	-	333	Rail
-	-	1,099	-	31,621	-	-	695	36	-	33,451	Road
-	-	-	-	336	-	-	-	-	-	336	Domestic navigation
-	-	-	-	625	-	-	-	-	-	625	Domestic aviation
219	-	10,900	-	2,097	-	-	569	6,370	2,200	22,356	Residential
21	-	3,289	-	3,387	-	0	1,374	14,169	393	22,632	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-11. 2021년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	898	42	-	36	-	158,015	3,057	14,373	-	68	49,234
수입	126,099	45,932	-	973,734	392,317	-	-	-	-	-	326,860
수출	-313	-	-	-1,782	-446,559	-	-	-	-	-	-62,374
국제병커링	-	-22	-	-	-89,844	-	-	-	-	-	-13,676
재고변화	764	-321	-	1,928	1,109	-	-	-1	-	-	321
일차에너지공급	127,448	45,631	-	973,916	-142,976	158,015	3,057	14,373	-	68	300,365
제품이동	-	-	-	116,592	-117,175	-	-	-	-	-	6,107
통계오차	1,644	150	274	-1,406	1,771	-	-	0	-	-	1,842
일차에너지소비	129,093	45,781	274	1,089,101	-258,380	158,015	3,057	14,373	-	68	308,313
전환공정	-75,292	-42,367	23,328	-1,089,068	1,105,789	-158,015	-3,055	-7,231	573,304	3,022	-80,196
발전전용	-74,678	-16,943	-	-	-3,811	-158,015	-3,055	-8,508	524,978	-68	-64,378
열병합	-	-6,306	-335	-	-377	-	-	-173	48,326	2,865	-1,773
열전용	-	-	-281	-	-1,773	-	-	-40	-	225	-339
석유제품생산	-	-	-	-1,089,068	1,113,422	-	-	-	-	-	-14,341
가스제조	-	-19,118	24,423	-	-1,672	-	-	-	-	-	0
석탄합성가스제조	-614	-	-	-	-	-	-	467	-	-	103
기타전환	-	-	-478	-	-	-	-	1,023	-	-	531
전환자제소비	-	-1,817	-880	-33	-38,312	-	-	-	-35,708	-	-10,009
순실	-	8	-	-	-	-	-	-	-17,269	-389	-1,863
최종소비	53,801	1,605	22,723	-	809,098	-	3	7,141	520,326	2,701	216,245
산업	53,354	1,605	7,634	-	505,836	-	-	4,392	269,561	-	133,541
농림어업	146	-	2	-	9,795	-	-	132	18,496	-	3,144
광업	-	-	-	-	657	-	-	0	1,807	-	253
제조업	53,208	1,605	7,631	-	481,043	-	-	4,248	249,257	-	127,926
식품및담배	-	-	884	-	390	-	-	105	13,537	-	2,226
섬유및가죽	1,629	-	234	-	156	-	-	151	9,232	-	2,171
목재및나무제품	-	-	27	-	50	-	-	90	1,761	-	276
제지및인쇄	-	387	301	-	230	-	-	713	9,214	-	2,351
화학및석유화학	6,988	58	1,923	-	452,940	-	-	1,558	53,405	-	67,261
비금속광물	3,649	-	537	-	3,388	-	-	853	11,700	-	5,097
철강	35,352	791	1,065	-	674	-	-	12	25,906	-	27,941
비철금속	1,026	137	482	-	281	-	-	-	9,315	-	2,076
기계류	308	-	1,354	-	645	-	-	275	89,539	-	9,632
수송장비	-	47	655	-	1,478	-	-	87	22,086	-	2,922
기타제조	4,255	185	169	-	10,383	-	-	403	3,562	-	4,421
기타에너지	-	-	-	-	10,428	-	-	1	-	-	1,551
건설업	0	-	-	-	14,340	-	-	11	-	-	2,218
수송	-	-	1,030	-	259,041	-	-	704	3,701	-	36,636
철도	-	-	-	-	521	-	-	-	2,996	-	332
도로	-	-	1,030	-	243,566	-	-	704	705	-	34,199
국내해운	-	-	-	-	2,863	-	-	-	-	-	428
국내항공	-	-	-	-	12,090	-	-	-	-	-	1,676
가정	409	-	10,791	-	16,827	-	-	612	77,558	2,265	22,940
상업·공공	39	-	3,269	-	27,395	-	3	1,434	169,506	435	23,128
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petroleum	Nuclear	Hydro	Renewables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
425	55	-	5	-	33,657	651	14,373	-	68	49,234	Production
76,172	59,987	-	143,343	47,359	-	-	-	-	-	326,860	Imports
-217	-	-	-323	-61,835	-	-	-	-	-	-62,374	Exports
-	-29	-	-	-13,647	-	-	-	-	-	-13,676	International Bunkers
438	-419	-	239	63	-	-	-1	-	-	321	Stock changes
76,818	59,594	-	143,265	-28,060	33,657	651	14,373	-	68	300,365	Total primary energy supply
-	-	-	21,709	-15,602	-	-	-	-	-	6,107	Transfers
1,415	196	282	-191	140	-	-	0	-	-	1,842	Statistical differences
78,233	59,790	282	164,783	-43,522	33,657	651	14,373	-	68	308,313	Total primary energy consumption
-44,317	-55,331	24,005	-164,777	149,437	-33,657	-651	-7,231	49,304	3,022	-80,196	Transformation processes
-43,954	-22,127	-	-	-561	-33,657	-651	-8,508	45,148	-68	-64,378	Electricity-only plants
-	-8,236	-344	-	-40	-	-	-173	4,156	2,865	-1,773	CHP plants
-	-	-289	-	-235	-	-	-40	-	225	-339	Heat-only plants
-	-	-	-164,777	150,436	-	-	-	-	-	-14,341	Petroleum Products
-24,968	25,131	-	-	-163	-	-	-	-	-	0	Gas manufacturing
-363	-	-	-	-	-	-	467	-	-	103	Coal-to-Gas plants
-	-	-492	-	-	-	-	1,023	-	-	531	Non-specified Transformation
-	-2,373	-905	-6	-3,654	-	-	-	-3,071	-	-10,009	Transformation Own Use
-	11	-	-	-	-	-	-	-1,485	-389	-1,863	Losses
33,915	2,097	23,382	-	102,260	-	1	7,141	44,748	2,701	216,245	Total final consumption
33,704	2,097	7,855	-	62,312	-	-	4,392	23,182	-	133,541	Industry
36	-	2	-	1,382	-	-	132	1,591	-	3,144	Agriculture/forestry/Fishing
-	-	-	-	98	-	-	0	155	-	253	Mining and quarrying
33,668	2,097	7,852	-	58,625	-	-	4,248	21,436	-	127,926	Manufacturing
-	-	910	-	47	-	-	105	1,164	-	2,226	Food and tobacco
965	-	241	-	21	-	-	151	794	-	2,171	Textile and leather
-	-	28	-	7	-	-	90	151	-	276	Wood and wood products
-	505	310	-	30	-	-	713	792	-	2,351	Paper, pulp and print
4,137	76	1,979	-	54,918	-	-	1,558	4,593	-	67,261	Chemical and petrochemical
2,160	-	553	-	524	-	-	853	1,006	-	5,097	Non-metallic minerals
23,506	1,033	1,096	-	67	-	-	12	2,228	-	27,941	Iron and steel
565	179	495	-	36	-	-	-	801	-	2,076	Non-ferrous metals
182	-	1,393	-	81	-	-	275	7,700	-	9,632	Machinery
-	62	674	-	200	-	-	87	1,899	-	2,922	Transport Equipment
2,153	242	173	-	1,143	-	-	403	306	-	4,421	Other manufacturing
-	-	-	-	1,550	-	-	1	-	-	1,551	Other energy
0	-	-	-	2,207	-	-	11	-	-	2,218	Construction
-	-	1,060	-	34,554	-	-	704	318	-	36,636	Transport
-	-	-	-	75	-	-	-	258	-	332	Rail
-	-	1,060	-	32,375	-	-	704	61	-	34,199	Road
-	-	-	-	428	-	-	-	-	-	428	Domestic navigation
-	-	-	-	1,676	-	-	-	-	-	1,676	Domestic aviation
193	-	11,104	-	2,096	-	-	612	6,670	2,265	22,940	Residential
18	-	3,364	-	3,299	-	1	1,434	14,578	435	23,128	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-12. 2022년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	820	-	-	17	-	176,054	3,545	15,908	-	69	54,621
수입	125,563	46,394	-	1,047,685	367,072	-	-	-	-	-	336,443
수출	-29	-	-	-1,848	-497,020	-	-	-	-	-	-69,338
국제병커링	-	-8	-	-	-102,335	-	-	-	-	-	-15,514
재고변화	-596	-1,206	-	-3,290	48	-	-	1	-	-	-2,405
일차에너지공급	125,758	45,180	-	1,042,564	-232,234	176,054	3,545	15,909	-	69	303,807
제품이동	-	-	-	116,442	-116,865	-	-	-	-	-	6,249
통계오차	-1,421	269	-65	-3,113	7,735	-	-	0	-	-	-159
일차에너지소비	124,337	45,449	-65	1,155,893	-341,364	176,054	3,545	15,909	-	69	309,897
전환공정	-76,016	-42,318	24,271	-1,155,425	1,179,249	-176,054	-3,541	-8,644	590,852	3,156	-84,687
발전전용	-75,457	-16,096	-	-	-4,056	-176,054	-3,541	-9,424	545,428	-69	-66,403
열병합	-	-6,579	-294	-	-967	-	-	-221	45,424	2,887	-2,435
열전용	-	-	-382	-	-1,683	-	-	-24	-	338	-310
석유제품생산	-	-	-	-1,155,425	1,189,404	-	-	-	-	-	-15,630
가스제조	-	-19,643	25,543	-	-3,449	-	-	-	-	-	0
석탄합성가스제조	-559	-	-	-	-	-	-	419	-	-	91
기타전환	-	-	-596	-	-	-	-	607	-	-	-
전환자제소비	-	-1,514	-813	-468	-38,981	-	-	-	-37,316	-	-9,801
손실	-	4	-	-	-	-	-	-19,233	-279	-	-1,929
최종소비	48,321	1,621	23,392	-	798,903	-	4	7,285	534,303	2,946	213,481
산업	47,898	1,621	7,639	-	496,939	-	-	4,471	274,066	-	129,554
농림어업	111	-	3	-	8,939	-	-	193	19,285	-	3,141
광업	-	-	-	-	701	-	-	4	1,759	-	261
제조업	47,787	1,621	7,636	-	474,186	-	-	4,274	253,021	-	124,140
식품및담배	7	-	900	-	354	-	-	85	13,908	-	2,243
섬유및가죽	1,584	-	221	-	170	-	-	173	8,858	-	2,112
목재및나무제품	-	-	31	-	48	-	-	115	1,754	-	305
제지및인쇄	-	410	300	-	220	-	-	694	9,196	-	2,356
화학및석유화학	5,448	241	1,886	-	446,587	-	-	1,345	53,422	-	65,339
비금속광물	3,657	-	522	-	3,156	-	-	991	11,798	-	5,155
철강	32,504	567	1,056	-	558	-	-	3	25,902	-	25,901
비철금속	808	178	492	-	354	-	-	-	9,308	-	2,040
기계류	296	27	1,395	-	638	-	-	439	92,551	-	10,110
수송장비	-	14	661	-	1,783	-	-	60	22,742	-	2,952
기타제조	3,483	184	171	-	9,899	-	-	369	3,583	-	4,079
기타에너지	-	-	-	-	10,418	-	-	-	-	-	1,548
건설업	0	-	-	-	13,113	-	-	0	-	-	2,012
수송	-	-	1,006	-	258,008	-	-	682	4,107	-	36,298
철도	-	-	-	-	439	-	-	-	2,736	-	298
도로	-	-	1,006	-	242,421	-	-	682	1,372	-	33,864
국내해운	-	-	-	-	3,091	-	-	-	-	-	464
국내항공	-	-	-	-	12,057	-	-	-	-	-	1,671
가정	419	-	11,255	-	16,452	-	-	695	78,558	2,432	23,575
상업·공공	3	-	3,491	-	27,504	-	4	1,418	177,573	514	24,054
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
386	-	-	2	-	37,500	755	15,908	-	69	54,621	Production
75,794	60,683	-	156,690	43,276	-	-	-	-	-	336,443	Imports
-19	-	-	-331	-68,987	-	-	-	-	-	-69,338	Exports
-	-10	-	-	-15,503	-	-	-	-	-	-15,514	International Bunkers
-358	-1,577	-	-526	55	-	-	1	-	-	-2,405	Stock changes
75,803	59,096	-	155,835	-41,159	37,500	755	15,909	-	69	303,807	Total primary energy supply
-	-	-	21,681	-15,433	-	-	-	-	-	6,249	Transfers
-669	351	-66	-472	696	-	-	0	-	-	-159	Statistical differences
75,134	59,447	-66	177,044	-55,895	37,500	755	15,909	-	69	309,897	Total primary energy consumption
-44,291	-55,352	24,732	-176,957	160,111	-37,500	-754	-8,644	50,813	3,156	-84,687	Transformation processes
-43,964	-21,053	-	-	-546	-37,500	-754	-9,424	46,907	-69	-66,403	Electricity-only plants
-	-8,606	-	-300	-101	-	-	-221	3,906	2,887	-2,435	CHP plants
-	-	-	-389	-235	-	-	-24	-	338	-310	Heat-only plants
-	-	-	-176,957	161,327	-	-	-	-	-	-15,630	Petroleum Products
-	-25,694	26,028	-	-334	-	-	-	-	-	0	Gas manufacturing
-327	-	-	-	-	-	-	419	-	-	91	Coal-to-Gas plants
-	-	-607	-	-	-	-	607	-	-	-	Non-specified Transformation
-	-1,980	-829	-87	-3,696	-	-	-	-3,209	-	-9,801	Transformation Own Use
-	5	-	-	-	-	-	-	-1,654	-279	-1,929	Losses
30,842	2,120	23,837	-	100,520	-	1	7,265	45,950	2,946	213,481	Total final consumption
30,643	2,120	7,784	-	60,966	-	-	4,471	23,570	-	129,554	Industry
28	-	3	-	1,259	-	-	193	1,659	-	3,141	Agriculture/forestry/Fishing
-	-	-	-	106	-	-	4	151	-	261	Mining and quarrying
30,616	2,120	7,781	-	57,590	-	-	4,274	21,760	-	124,140	Manufacturing
4	-	917	-	41	-	-	85	1,196	-	2,243	Food and tobacco
928	-	226	-	23	-	-	173	762	-	2,112	Textile and leather
-	-	32	-	7	-	-	115	151	-	305	Wood and wood products
-	536	306	-	29	-	-	694	791	-	2,356	Paper, pulp and print
3,193	316	1,922	-	53,969	-	-	1,345	4,594	-	65,339	Chemical and petrochemical
2,143	-	532	-	474	-	-	991	1,015	-	5,155	Non-metallic minerals
21,797	742	1,076	-	56	-	-	3	2,228	-	25,901	Iron and steel
462	232	501	-	44	-	-	-	801	-	2,040	Non-ferrous metals
174	35	1,422	-	81	-	-	439	7,959	-	10,110	Machinery
-	18	673	-	245	-	-	60	1,956	-	2,952	Transport Equipment
1,916	240	174	-	1,072	-	-	369	308	-	4,079	Other manufacturing
-	-	-	-	1,548	-	-	-	-	-	1,548	Other energy
0	-	-	-	2,012	-	-	0	-	-	2,012	Construction
-	-	1,025	-	34,238	-	-	682	353	-	36,298	Transport
-	-	-	-	63	-	-	-	235	-	298	Rail
-	-	1,025	-	32,039	-	-	682	118	-	33,864	Road
-	-	-	-	464	-	-	-	-	-	464	Domestic navigation
-	-	-	-	1,671	-	-	-	-	-	1,671	Domestic aviation
198	-	11,469	-	2,026	-	-	695	6,756	2,432	23,575	Residential
1	-	3,558	-	3,290	-	1	1,418	15,271	514	24,054	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-13. 2023년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	646	-	-	-	-	180,494	3,718	17,604	-	35	57,180
수입	119,761	44,117	-	1,018,299	372,054	-	-	-	-	-	326,760
수출	-1	-	-	-2,515	-494,404	-	-	-	-	-	-68,758
국제병커링	-	-12	-	-	-112,404	-	-	-	-	-	-16,827
재고변화	1,171	-743	-	4,688	-6,174	-	-	1	-	-	-217
일치에너지공급	121,577	43,362	-	1,020,472	-240,928	180,494	3,718	17,604	-	35	298,138
제품이동	-	-	-	132,952	-133,361	-	-	-	-	-	7,108
통계오차	-1,114	556	176	-3,364	3,926	-	-	-0	-	-	201
일치에너지소비	120,463	43,918	176	1,150,059	-370,363	180,494	3,718	17,604	-	35	305,447
전환공정	-72,046	-39,747	22,087	-1,149,566	1,175,749	-180,494	-3,716	-10,309	584,424	3,243	-85,083
발전전용	-71,755	-15,134	-	-	-2,678	-180,494	-3,716	-11,304	536,465	-35	-66,414
열병합	-	-6,485	-262	-	-529	-	-	-482	47,959	3,061	-2,109
열전용	-	-	-271	-	-1,388	-	-	-12	-	217	-266
석유제품생산	-	-	-	-1,149,566	1,183,019	-	-	-	-	-	-16,692
가스제조	-	-18,129	23,525	-	-2,674	-	-	-	-	-	-0
석탄합성가스제조	-291	-	-	-	-	-	-	467	-	-	296
기타전환	-	-	-904	-	-	-	-	1,023	-	-	102
전환자제소비	-	-2,020	-571	-494	-39,205	-	-	-35,537	-	-	-10,087
손실	-	7	-	-	-	-	-	-16,179	-389	-	-1,771
최종소비	48,417	2,159	21,693	-	766,182	-	2	7,295	532,708	2,889	208,506
산업	48,028	2,159	7,065	-	473,704	-	-	4,208	268,447	-	126,463
농림어업	73	-	4	-	8,653	-	-	244	18,777	-	3,100
광업	-	-	-	-	535	-	-	4	1,709	-	233
제조업	47,955	2,159	7,061	-	451,071	-	-	3,960	247,961	-	121,061
식품및담배	6	-	861	-	346	-	-	76	13,996	-	2,200
섬유및가죽	1,757	-	173	-	116	-	-	159	7,849	-	2,055
목재및나무제품	-	-	28	-	44	-	-	57	1,648	-	234
제지및인쇄	-	381	277	-	221	-	-	749	8,833	-	2,318
화학및석유화학	6,062	153	1,554	-	421,536	-	-	812	53,391	-	61,800
비금속광물	3,479	-	482	-	3,422	-	-	1,252	11,438	-	5,282
철강	32,879	808	1,067	-	581	-	-	18	23,469	-	26,306
비철금속	818	280	476	-	349	-	-	-	9,569	-	2,190
기계류	273	330	1,352	-	608	-	-	351	90,707	-	10,199
수송장비	-	26	637	-	2,249	-	-	57	23,645	-	3,077
기타제조	2,680	180	154	-	9,584	-	-	430	3,417	-	3,619
기타에너지	-	-	-	-	12,014	-	-	-	-	-	1,780
건설업	0	-	-	-	13,445	-	-	-	-	-	2,070
수송	-	-	969	-	250,712	-	-	696	4,929	-	35,334
철도	-	-	-	-	401	-	-	-	2,766	-	295
도로	-	-	969	-	240,784	-	-	696	2,163	-	33,681
국내해운	-	-	-	-	3,051	-	-	-	-	-	460
국내항공	-	-	-	-	6,476	-	-	-	-	-	898
가정	386	-	10,198	-	15,045	-	-	727	79,886	2,331	22,334
상업·공공	3	-	3,460	-	26,720	-	2	1,663	179,446	558	24,375
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
304	-	-	-	-	38,445	792	17,604	-	35	57,180	Production
72,434	57,705	-	152,166	44,455	-	-	-	-	-	326,760	Imports
-0	-	-	-466	-68,292	-	-	-	-	-	-68,758	Exports
-	-15	-	-	-16,812	-	-	-	-	-	-16,827	International Bunkers
770	-972	-	738	-754	-	-	1	-	-	-217	Stock changes
73,507	56,718	-	152,438	-41,402	38,445	792	17,604	-	35	298,138	Total primary energy supply
-	-	-	24,755	-17,648	-	-	-	-	-	7,108	Transfers
-536	727	180	-523	354	-	-	-0	-	-	201	Statistical differences
72,972	57,445	180	176,670	-58,696	38,445	792	17,604	-	35	305,447	Total primary energy consumption
-41,977	-51,989	22,507	-176,579	158,996	-38,445	-792	-10,309	50,261	3,243	-85,083	Transformation processes
-41,806	-19,795	-	-	-373	-38,445	-792	-11,304	46,136	-35	-66,414	Electricity-only plants
-	-8,482	-267	-	-64	-	-	-482	4,125	3,061	-2,109	CHP plants
-	-	-277	-	-194	-	-	-12	-	217	-266	Heat-only plants
-	-	-	-176,579	159,887	-	-	-	-	-	-16,692	Petroleum Products
-23,712	23,971	-	-259	-	-	-	-	-	-	-0	Gas manufacturing
-171	-	-	-	-	-	-	467	-	-	296	Coal-to-Gas plants
-	-	-921	-	-	-	-	1,023	-	-	102	Non-specified Transformation
-	-2,642	-582	-92	-3,715	-	-	-	-3,056	-	-10,087	Transformation Own Use
-	10	-	-	-	-	-	-	-1,391	-389	-1,771	Losses
30,995	2,823	22,105	-	96,585	-	0	7,295	45,813	2,889	208,506	Total final consumption
30,812	2,823	7,199	-	58,334	-	-	4,208	23,086	-	126,463	Industry
18	-	4	-	1,219	-	-	244	1,615	-	3,100	Agriculture/forestry/Fishing
-	-	-	-	81	-	-	4	147	-	233	Mining and quarrying
30,794	2,823	7,195	-	54,964	-	-	3,960	21,325	-	121,061	Manufacturing
4	-	877	-	40	-	-	76	1,204	-	2,200	Food and tobacco
1,030	-	177	-	15	-	-	159	675	-	2,055	Textile and leather
-	-	29	-	6	-	-	57	142	-	234	Wood and wood products
-	498	282	-	29	-	-	749	760	-	2,318	Paper, pulp and print
3,553	201	1,583	-	51,061	-	-	812	4,592	-	61,800	Chemical and petrochemical
2,039	-	491	-	517	-	-	1,252	984	-	5,282	Non-metallic minerals
22,067	1,057	1,088	-	58	-	-	18	2,018	-	26,306	Iron and steel
468	366	485	-	47	-	-	-	823	-	2,190	Non-ferrous metals
160	432	1,377	-	78	-	-	351	7,801	-	10,199	Machinery
-	34	649	-	304	-	-	57	2,033	-	3,077	Transport Equipment
1,474	235	157	-	1,029	-	-	430	294	-	3,619	Other manufacturing
-	-	-	-	1,780	-	-	-	-	-	1,780	Other energy
0	-	-	-	2,070	-	-	-	-	-	2,070	Construction
-	-	988	-	33,226	-	-	696	424	-	35,334	Transport
-	-	-	-	58	-	-	-	238	-	295	Rail
-	-	988	-	31,811	-	-	696	186	-	33,681	Road
-	-	-	-	460	-	-	-	-	-	460	Domestic navigation
-	-	-	-	898	-	-	-	-	-	898	Domestic aviation
182	-	10,392	-	1,832	-	-	727	6,870	2,331	22,334	Residential
1	-	3,526	-	3,193	-	0	1,663	15,432	558	24,375	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petroleum	Nuclear	Hydro	Renewables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

2-14. 2024년

	석탄 및 석탄제품	천연가스	도시가스	원유 및 정제원료	석유제품	원자력	수력	신재생 및 기타 ¹⁾	전기	열	합계
	(천톤)	(천톤)	(백만 m ³)	(천배럴)	(천배럴)	(GWh)	(GWh)	(천toe)	(GWh)	(천toe)	(천toe)
국내생산	543	-	-	-	-	188,754	4,302	18,670	-	71	60,118
수입	115,866	46,318	-	1,039,832	393,762	-	-	-	-	-	333,730
수출	-1	-	-	-2,605	-514,246	-	-	-	-	-	-71,233
국제병커링	-	-17	-	-	-125,279	-	-	-	-	-	-18,686
재고변화	-1,586	237	-	1,213	7,205	-	-	-4	-	-	324
일차에너지공급	114,822	46,537	-	1,038,440	-238,559	188,754	4,302	18,667	-	71	304,253
제품이동	-	-	-	143,022	-143,458	-	-	-	-	-	7,266
통계오차	-1,897	-93	275	-2,611	6,270	-	-	4	-	-	-963
일차에너지소비	112,925	46,444	275	1,178,852	-375,747	188,754	4,302	18,670	-	71	310,555
전환공정	-65,453	-40,923	21,698	-1,178,689	1,211,591	-188,754	-4,300	-11,251	591,057	3,229	-85,492
발전전용	-64,836	-15,921	-	-	-2,644	-188,754	-4,300	-12,739	547,942	-71	-65,743
열병합	-	-6,795	-253	-	-734	-	-	-530	43,115	3,032	-3,011
열전용	-	-3	-215	-	-787	-	-	-13	-	268	-70
석유제품생산	-	-	-	-1,178,689	1,216,838	-	-	-	-	-	-17,008
가스제조	-	-18,204	23,469	-	-1,083	-	-	-	-	-	0
석탄합성가스제조	-617	-	-	-	-	-	-	441	-	-	79
기타전환	-	-	-1,304	-	-	-	-	1,590	-	-	262
전환자제소비	-	-2,230	-678	-163	-39,445	-	-	-	-36,104	-	-10,474
손실	-	-1	-	-	-	-	-	-	-18,374	-660	-2,242
최종소비	47,471	3,290	21,295	-	796,398	-	2	7,419	536,579	2,640	212,348
산업	47,129	3,290	7,050	-	507,395	-	-	4,208	263,994	-	130,720
농림어업	79	-	4	-	8,561	-	-	250	19,065	-	3,118
광업	-	-	-	-	338	-	-	4	1,639	-	193
제조업	47,050	3,290	7,046	-	485,171	-	-	3,954	243,291	-	125,357
식품및담배	6	-	845	-	328	-	-	77	14,338	-	2,213
섬유및가죽	1,745	-	160	-	101	-	-	156	7,010	-	1,957
목재및나무제품	-	-	20	-	51	-	-	54	1,564	-	216
제지및인쇄	-	360	285	-	193	-	-	761	8,772	-	2,301
화학및석유화학	5,990	429	1,719	-	456,796	-	-	830	54,091	-	66,486
비금속광물	2,743	-	433	-	3,190	-	-	1,174	10,539	-	4,607
철강	32,601	1,118	1,014	-	431	-	-	17	21,554	-	26,126
비철금속	723	289	457	-	329	-	-	-	8,697	-	2,048
기계류	273	879	1,313	-	584	-	-	415	89,699	-	10,852
수송장비	-	42	615	-	2,245	-	-	56	23,703	-	3,087
기타제조	2,968	173	185	-	9,485	-	-	415	3,324	-	3,766
기타에너지	-	-	-	-	11,438	-	-	-	-	-	1,698
건설업	0	-	-	-	13,326	-	-	-	-	-	2,052
수송	-	-	916	-	248,272	-	-	764	5,724	-	34,970
철도	-	-	-	-	384	-	-	-	2,744	-	291
도로	-	-	916	-	241,989	-	-	764	2,980	-	33,837
국내해운	-	-	-	-	2,380	-	-	-	-	-	354
국내항공	-	-	-	-	3,519	-	-	-	-	-	488
가정	340	-	9,832	-	14,589	-	-	761	84,427	2,089	22,057
상업·공공	2	-	3,498	-	26,142	-	2	1,687	182,434	551	24,600
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstock	Petro-leum	Nuclear	Hydro	Renew-ables & Others ¹⁾	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nm ³)	(Thou. Barrels)	(Thou. Barrels)	(GWh)	(GWh)	(Thou. toe)	(GWh)	(Thou. toe)	(Thou. toe)

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

석탄 및 석탄제품	천연 가스	도시 가스	원유 및 정제원료	석유 제품	원자력	수력	신재생 및 기타 ¹	전기	열	합계	
(천toe)											
256	-	-	-	-	40,205	916	18,670	-	71	60,118	Production
70,452	60,584	-	155,296	47,398	-	-	-	-	-	333,730	Imports
-1	-	-	-475	-70,758	-	-	-	-	-	-71,233	Exports
-	-23	-	-	-18,663	-	-	-	-	-	-18,686	International Bunkers
-1,043	310	-	198	862	-	-	-4	-	-	324	Stock changes
69,664	60,871	-	155,020	-41,160	40,205	916	18,667	-	71	304,253	Total primary energy supply
-	-	-	26,630	-19,365	-	-	-	-	-	7,266	Transfers
-1,313	-122	281	-388	576	-	-	4	-	-	-963	Statistical differences
68,351	60,748	281	181,262	-59,949	40,205	916	18,670	-	71	310,555	Total primary energy consumption
-38,104	-53,527	22,110	-181,232	163,572	-40,205	-916	-11,251	50,831	3,229	-85,492	Transformation processes
-37,742	-20,825	-	-	-370	-40,205	-916	-12,739	47,123	-71	-65,743	Electricity-only plants
-	-8,888	-258	-	-74	-	-	-530	3,708	3,032	-3,011	CHP plants
-	-4	-219	-	-103	-	-	-13	-	268	-70	Heat-only plants
-	-	-	-181,232	164,223	-	-	-	-	-	-17,008	Petroleum Products
-	-23,810	23,915	-	-105	-	-	-	-	-	0	Gas manufacturing
-362	-	-	-	-	-	-	441	-	-	79	Coal-to-Gas plants
-	-	-1,328	-	-	-	-	1,590	-	-	262	Non-specified Transformation
-	-2,917	-691	-30	-3,730	-	-	-	-3,105	-	-10,474	Transformation Own Use
-	-2	-	-	-	-	-	-	-1,580	-660	-2,242	Losses
30,247	4,303	21,700	-	99,892	-	0	7,419	46,146	2,640	212,348	Total final consumption
30,086	4,303	7,183	-	62,236	-	-	4,208	22,704	-	130,720	Industry
20	-	4	-	1,206	-	-	250	1,640	-	3,118	Agriculture/forestry/Fishing
-	-	-	-	48	-	-	4	141	-	193	Mining and quarrying
30,067	4,303	7,180	-	58,930	-	-	3,954	20,923	-	125,357	Manufacturing
4	-	861	-	38	-	-	77	1,233	-	2,213	Food and tobacco
1,023	-	163	-	13	-	-	156	603	-	1,957	Textile and leather
-	-	21	-	7	-	-	54	135	-	216	Wood and wood products
-	470	291	-	25	-	-	761	754	-	2,301	Paper, pulp and print
3,510	561	1,751	-	55,183	-	-	830	4,652	-	66,486	Chemical and petrochemical
1,607	-	441	-	478	-	-	1,174	906	-	4,607	Non-metallic minerals
21,716	1,463	1,034	-	43	-	-	17	1,854	-	26,126	Iron and steel
415	378	465	-	42	-	-	-	748	-	2,048	Non-ferrous metals
160	1,149	1,337	-	76	-	-	415	7,714	-	10,852	Machinery
-	55	627	-	310	-	-	56	2,038	-	3,087	Transport Equipment
1,632	227	188	-	1,017	-	-	415	286	-	3,766	Other manufacturing
-	-	-	-	1,698	-	-	-	-	-	1,698	Other energy
0	-	-	-	2,052	-	-	-	-	-	2,052	Construction
-	-	933	-	32,781	-	-	764	492	-	34,970	Transport
-	-	-	-	55	-	-	-	236	-	291	Rail
-	-	933	-	31,884	-	-	764	256	-	33,837	Road
-	-	-	-	354	-	-	-	-	-	354	Domestic navigation
-	-	-	-	488	-	-	-	-	-	488	Domestic aviation
160	-	10,018	-	1,769	-	-	761	7,261	2,089	22,057	Residential
1	-	3,565	-	3,107	-	0	1,687	15,689	551	24,600	Commercial-Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstoc	Petro- leum	Nuclear	Hydro	Renew- ables & Others ¹	Electric	Heat	Total	
(Thou. toe)											

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

03

주요국의 에너지통계 Energy Statistics in Selected Country



03 주요국의 에너지통계

- 3-1. 세계 일차에너지 공급
- 3-2. 국가 및 에너지원별 일차에너지 공급(2024년)
- 3-3. 국가별 일차에너지 공급
- 3-4. 국가별 1인당 일차에너지 공급
- 3-5. 국가별 원유 생산(천 배럴/일)
- 3-6. 국가별 원유 생산(백만 톤)
- 3-7. 국가별 석유제품 소비(천 배럴/일)
- 3-8. 국가별 석유제품 소비(백만 톤)
- 3-9. 국가별 석유 정제 능력
- 3-10. 국가별 원유 정제 처리량
- 3-11. 국가별 천연가스 생산
- 3-12. 국가별 천연가스 소비
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3-1. 세계 일차에너지 공급

Total Energy Supply of World

단위: 엑사줄

Unit: Exajoules

	합계	증감율 (%, YoY)	석유	천연가스	석탄	원자력	재생에너지	수력발전
1965	149.7	-	64.8	22.7	58.2	0.3	3.7	3.3
1970	197.7	6.6	96.1	34.6	61.5	0.9	4.7	4.2
1975	232.0	0.7	115.2	42.0	65.0	4.0	5.9	5.2
1980	269.5	-1.0	128.0	51.3	75.2	7.8	7.2	6.2
1985	291.2	2.8	121.3	58.5	86.4	16.2	8.8	7.1
1990	332.1	1.4	136.5	70.1	93.3	21.8	10.4	7.8
1991	334.3	0.6	136.4	71.9	92.5	22.9	10.7	8.0
1992	336.4	0.6	138.3	72.2	92.1	23.0	10.8	7.9
1993	338.4	0.6	137.7	73.0	92.6	23.8	11.3	8.4
1994	342.8	1.3	140.6	73.4	92.9	24.3	11.5	8.5
1995	349.7	2.0	142.8	76.0	93.6	25.3	12.0	8.9
1996	360.2	3.0	146.1	79.8	95.8	26.3	12.2	9.1
1997	363.5	0.9	149.9	79.3	95.6	26.1	12.6	9.2
1998	365.6	0.6	150.4	80.8	95.0	26.5	12.8	9.3
1999	371.9	1.7	152.8	83.1	95.4	27.5	13.1	9.4
2000	381.7	2.6	154.9	86.4	98.8	28.2	13.5	9.5
2001	386.4	1.2	156.2	87.5	100.4	28.9	13.3	9.3
2002	395.0	2.2	157.3	90.2	104.3	29.4	13.8	9.5
2003	409.5	3.7	160.6	92.6	113.5	28.8	14.0	9.4
2004	430.2	5.0	167.1	96.4	121.4	30.1	15.2	10.1
2005	444.5	3.3	169.3	98.8	130.3	30.2	15.9	10.5
2006	456.8	2.8	170.8	101.4	137.1	30.6	16.9	10.9
2007	471.4	3.2	173.1	105.6	144.9	30.0	17.9	11.1
2008	476.1	1.0	171.7	108.2	146.9	29.9	19.5	11.7
2009	468.2	-1.7	167.9	105.9	144.8	29.4	20.3	11.7
2010	490.7	4.8	173.5	113.7	151.3	30.2	22.0	12.3
2011	501.7	2.2	174.9	116.5	158.3	28.9	23.0	12.6
2012	507.6	1.2	177.7	119.7	158.8	27.0	24.5	13.1
2013	515.6	1.6	179.7	121.4	161.1	27.2	26.2	13.6
2014	520.7	1.0	181.2	122.3	161.7	27.7	27.8	14.0
2015	524.3	0.7	184.7	125.2	157.3	28.1	29.0	14.0
2016	529.5	1.0	188.3	128.1	154.0	28.5	30.6	14.5
2017	540.2	2.0	191.7	131.8	155.6	28.8	32.3	14.6
2018	553.7	2.5	193.7	137.9	158.0	29.5	34.6	15.1
2019	559.0	1.0	194.4	140.6	157.1	30.5	36.5	15.3
2020	536.1	-4.1	176.8	139.3	152.3	29.3	38.3	15.7
2021	563.3	5.1	186.6	144.8	160.7	30.6	40.5	15.5
2022	571.0	1.4	192.8	144.2	161.7	29.2	43.0	15.6
2023	580.3	1.6	197.4	144.5	163.1	29.9	45.3	15.3
2024	592.2	2.1	199.1	148.6	165.1	30.7	48.8	16.0
	Total	YoY (%)	Oil	Natural Gas	Coal	Nuclear	Renewables	Hydro- electricity

주: 일차에너지는 발전에 사용된 신재생에너지를 포함한

Note: Primary energy comprises

상업적 거래 연료로 구성됨.

commercially traded fuels, including modern renewables

자료: Energy Institute, 2025 Statistical Review of World Energy

used to generate electricity.

Source: Energy Institute, 2025 Statistical Review of World Energy

3-2. 국가 및 에너지원별 일차에너지 공급(2024년)

TES by Country and Energy Source(2024)

단위: 엑사줄

Unit: Exajoules

	합계	석유	천연가스	석탄	원자력	재생 에너지	수력발전	
세계	592.2	199.1	148.6	165.1	30.7	48.8	16.0	World
비OECD	374.4	111.8	84.4	140.7	10.2	27.3	10.8	Non-OECD
OECD	217.8	87.2	64.2	24.4	20.5	21.4	5.2	OECD
중국	158.9	32.3	15.6	92.2	4.9	13.9	4.9	China
미국	91.8	35.8	32.5	7.9	9.0	6.7	0.9	US
인도	38.8	10.9	2.5	23.0	0.6	1.8	0.6	India
러시아	31.8	7.7	17.2	3.7	2.4	0.8	0.8	Russian Federation
일본	16.4	6.4	3.3	4.5	0.9	1.3	0.3	Japan
한국	13.1	5.5	2.3	2.9	2.1	0.4	0.0	South Korea
이란	12.8	3.8	8.8	0.1	0.1	0.1	0.1	Iran
캐나다	11.9	4.4	4.6	0.3	0.9	1.7	1.2	Canada
사우디아라비아	11.8	7.4	4.4	0.0	-	0.0	-	Saudi Arabia
인도네시아	11.1	3.2	1.7	4.7	-	1.5	0.1	Indonesia
브라질	10.7	5.1	1.1	0.5	0.2	3.7	1.5	Brazil
독일	10.1	4.2	2.8	1.6	-	1.5	0.1	Germany
프랑스	9.0	2.8	1.2	0.2	4.2	0.7	0.3	France
멕시코	8.0	3.6	3.6	0.3	0.1	0.4	0.1	Mexico
튀르키예	7.0	2.4	1.8	1.8	-	1.0	0.3	Turkey
영국	6.4	2.7	2.2	0.2	0.4	0.9	0.0	United Kingdom
이탈리아	5.6	2.6	2.1	0.1	-	0.8	0.2	Italy
아랍에미리트	5.5	2.3	2.6	0.1	0.4	0.1	-	United Arab Emirates
호주	5.5	2.2	1.3	1.5	-	0.4	0.0	Australia
스페인	5.1	2.7	1.0	0.1	0.6	0.7	0.1	Spain
태국	5.0	2.4	1.7	0.6	-	0.3	0.0	Thailand
남아공	4.8	1.0	0.2	3.5	0.1	0.1	0.0	South Africa
말레이시아	4.8	1.8	1.7	1.1	-	0.2	0.1	Malaysia
베트남	4.6	1.4	0.2	2.5	-	0.5	0.3	Vietnam
대만	4.4	1.6	1.1	1.4	0.1	0.1	0.0	Taiwan
이집트	3.9	1.6	2.2	0.1	-	0.1	0.1	Egypt
폴란드	3.8	1.4	0.8	1.3	-	0.3	0.0	Poland
싱가포르	3.8	3.3	0.5	0.0	-	0.0	-	Singapore
아르헨티나	3.3	1.2	1.6	0.0	0.1	0.3	0.1	Argentina
네덜란드	3.0	1.6	0.9	0.2	0.0	0.3	0.0	Netherlands
카자흐스탄	3.0	0.7	0.7	1.5	-	0.1	0.0	Kazakhstan
파키스탄	3.0	0.8	1.3	0.4	0.2	0.2	0.1	Pakistan
알제리	2.7	0.9	1.8	0.0	-	0.0	0.0	Algeria
이라크	2.6	1.9	0.7	-	-	0.0	0.0	Iraq
필리핀	2.5	1.0	0.1	1.0	-	0.5	0.0	Philippines
우즈베키스탄	2.4	0.2	2.0	0.2	-	0.0	0.0	Uzbekistan
카타르	2.3	0.7	1.7	0.0	-	0.0	-	Qatar
벨기에	2.3	1.2	0.5	0.1	0.3	0.1	0.0	Belgium
	Total	Oil	Natural Gas	Coal	Nuclear	Renew-ables	Hydro-electricity	

주: 일차에너지는 발전에 사용된 신재생에너지를 포함한
상업적 거래 연료로 구성됨.

자료: Energy Institute, 2025 Statistical Review of World Energy

Note: Primary energy comprises commercially traded fuels,
including modern renewables used to generate electricity.

Source: Energy Institute, 2025 Statistical Review of World Energy

3-3. 국가별 일차에너지 공급

단위: 엑사줄

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	149.7	197.7	232.0	269.5	291.2	332.1	349.7	381.7	444.5	490.7	524.3
OECD	105.3	138.8	153.0	169.6	172.9	192.9	207.7	224.8	234.9	230.4	224.7
비OECD	44.4	58.9	79.0	99.9	118.3	139.3	142.0	156.9	209.6	260.3	299.6
유럽연합	32.6	43.7	49.5	56.7	58.8	62.4	61.6	62.9	66.5	63.7	58.6
북미	55.7	70.7	76.5	84.2	83.3	93.6	101.3	111.2	114.8	111.6	111.6
캐나다	4.2	5.6	6.8	8.0	8.2	8.8	9.9	10.7	11.3	11.3	12.1
멕시코	1.0	1.3	2.1	3.2	3.9	4.7	5.1	6.0	7.3	7.6	7.9
미국	50.6	63.8	67.6	73.0	71.2	80.1	86.2	94.5	96.2	92.7	91.6
중남미	4.6	6.0	7.8	9.9	10.4	11.9	14.4	17.0	19.0	22.6	25.6
아르헨티나	1.2	1.3	1.4	1.6	1.6	1.7	2.1	2.3	2.6	3.0	3.4
브라질	0.8	1.4	2.4	3.3	3.7	4.2	5.1	6.4	7.0	8.9	10.4
유럽	42.8	55.5	61.5	69.5	82.8	88.6	82.8	84.6	89.1	85.9	79.5
프랑스	4.5	6.2	6.9	7.9	8.4	9.4	10.2	11.0	11.5	10.9	10.4
독일	10.6	12.9	13.4	15.2	15.4	15.1	14.3	14.2	14.1	13.6	12.9
이탈리아	3.1	4.8	5.5	6.0	5.7	7.6	7.6	7.4	7.9	7.2	6.3
네덜란드	1.5	2.4	3.0	3.1	3.0	3.3	3.5	3.6	4.0	4.2	3.6
폴란드	2.8	3.5	4.4	5.4	5.3	4.3	4.0	3.6	3.8	4.1	3.9
스페인	1.1	1.7	2.5	3.0	3.1	3.7	4.3	5.3	6.2	5.6	5.2
튀르키예	0.3	0.5	0.8	1.0	1.3	1.9	2.3	2.9	3.3	4.2	5.3
영국	8.3	9.2	8.6	8.6	8.6	9.0	9.2	9.6	9.8	8.9	8.0
CIS	24.3	30.8	39.8	47.2	41.8	44.5	32.7	30.5	32.4	34.2	35.3
카자흐스탄	-	-	-	-	2.8	3.0	2.1	1.3	1.8	2.1	2.2
러시아	-	-	-	-	33.3	35.2	26.6	24.9	26.0	27.3	27.8
중동	1.9	2.5	3.4	5.2	8.2	10.7	14.3	17.1	22.7	29.5	35.0
이란	0.3	0.6	1.1	1.4	2.3	2.9	3.7	5.0	6.9	8.8	9.9
이라크	0.1	0.1	0.2	0.4	0.5	0.8	1.2	1.1	1.1	1.4	1.7
사우디아라비아	0.8	0.9	0.9	1.5	2.6	3.3	4.1	4.8	6.5	8.8	11.0
아랍에미리트	0.0	0.0	0.1	0.4	0.7	1.2	1.7	1.9	2.5	3.5	4.4
아프리카	2.5	3.0	4.1	5.8	7.7	9.0	9.9	11.0	13.1	15.4	17.9
알제리	0.1	0.1	0.3	0.6	0.9	1.1	1.1	1.1	1.3	1.6	2.2
이집트	0.3	0.3	0.4	0.7	1.1	1.3	1.5	1.9	2.4	3.1	3.4
남아프리카공화국	1.3	1.5	2.0	2.3	3.3	3.7	4.0	4.3	4.7	5.3	5.1
아시아-태평양	17.8	29.1	38.9	47.8	57.0	73.8	94.4	110.3	153.3	191.5	219.3
호주	1.5	2.0	2.5	2.9	3.1	3.7	4.0	4.6	5.0	5.3	5.6
중국	5.4	8.3	12.9	17.0	21.5	27.7	35.9	40.9	73.1	99.8	118.6
인도	2.1	2.5	3.2	4.0	5.3	7.8	10.1	12.9	15.9	21.7	27.4
인도네시아	0.3	0.4	0.6	1.1	1.5	2.1	3.1	4.2	5.2	6.4	7.0
일본	6.1	11.8	14.3	14.9	15.7	18.2	21.0	22.2	22.7	21.4	18.6
말레이시아	0.1	0.2	0.2	0.4	0.6	0.8	1.4	2.2	3.0	3.3	3.9
파키스탄	0.3	0.4	0.4	0.5	0.7	1.0	1.3	1.6	2.1	2.5	2.8
싱가포르	0.2	0.3	0.3	0.4	0.5	1.0	1.4	1.6	2.0	2.9	3.3
한국	0.3	0.6	0.9	1.6	2.2	3.9	6.4	8.2	9.6	11.2	12.2
대만	0.2	0.4	0.6	1.1	1.4	2.1	2.8	3.7	4.4	4.7	4.8
태국	0.1	0.2	0.4	0.5	0.7	1.2	2.2	2.6	3.6	4.2	4.9
베트남	0.1	0.3	0.2	0.2	0.2	0.2	0.4	0.7	1.2	1.8	2.6

주: 일차에너지는 발전에 사용된 신재생에너지를 포함한 상업적 거래 연료로 구성됨.

자료: Energy Institute, 2025 Statistical Review of World Energy

3-3. Energy Supply by Country

Unit: Exajoules

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
529.5	540.2	553.7	559.0	536.1	563.3	571.0	580.3	592.2	100.0%	World
225.5	227.7	230.8	228.4	210.6	220.8	220.9	216.3	217.8	36.8%	OECD
303.9	312.5	322.8	330.6	325.5	342.5	350.2	364.0	374.4	63.2%	Non-OECD
59.2	60.4	59.9	58.9	53.6	56.8	54.2	51.7	52.0	8.8%	European Union
111.2	111.5	114.9	113.9	104.9	110.0	112.1	111.0	111.7	18.9%	North America
11.9	12.1	12.4	12.3	11.5	11.6	11.9	11.8	11.9	2.0%	Canada
8.1	8.3	8.1	8.0	7.2	7.6	8.0	8.0	8.0	1.4%	Mexico
91.2	91.1	94.4	93.6	86.2	90.8	92.3	91.2	91.8	15.5%	US
25.3	25.3	24.9	24.8	22.4	24.4	25.2	25.7	26.0	4.4%	S. & Cent. America
3.5	3.4	3.4	3.2	2.9	3.2	3.4	3.3	3.3	0.6%	Argentina
9.9	10.0	9.9	10.1	9.6	10.3	10.3	10.6	10.7	1.8%	Brazil
80.5	81.9	81.5	80.1	73.6	77.6	73.8	70.9	71.7	12.1%	Europe
10.1	10.1	10.2	9.9	8.8	9.4	8.3	8.6	9.0	1.5%	France
13.1	13.3	12.9	12.5	11.5	12.0	11.3	10.1	10.1	1.7%	Germany
6.3	6.3	6.3	6.2	5.6	6.0	6.0	5.6	5.6	0.9%	Italy
3.7	3.7	3.6	3.6	3.4	3.5	3.2	3.1	3.0	0.5%	Netherlands
4.0	4.2	4.3	4.2	4.0	4.3	4.1	3.9	3.8	0.6%	Poland
5.2	5.4	5.4	5.3	4.6	5.0	5.2	5.0	5.1	0.9%	Spain
5.6	6.1	6.1	6.2	6.2	6.7	6.7	6.7	7.0	1.2%	Turkey
7.9	7.8	7.7	7.5	6.7	6.8	6.7	6.4	6.4	1.1%	United Kingdom
36.1	36.4	38.0	37.7	36.6	38.1	39.5	40.0	41.1	6.9%	CIS
2.5	2.7	2.8	2.8	2.6	2.9	2.9	3.0	3.0	0.5%	Kazakhstan
28.3	28.5	29.6	29.4	28.2	29.1	30.3	30.8	31.8	5.4%	Russian Federation
36.2	36.8	36.9	37.3	36.6	37.5	39.3	40.5	41.4	7.0%	Middle East
10.4	10.8	11.2	11.7	12.2	12.1	12.5	12.8	12.8	2.2%	Iran
1.8	2.1	2.2	2.4	2.1	2.2	2.4	2.6	2.6	0.4%	Iraq
11.4	11.5	11.2	10.7	10.4	10.7	11.3	11.5	11.8	2.0%	Saudi Arabia
4.6	4.4	4.1	4.4	4.2	4.5	4.9	5.1	5.5	0.9%	United Arab Emirates
18.3	18.9	19.2	19.6	18.6	20.2	20.4	20.7	21.0	3.6%	Africa
2.2	2.2	2.4	2.5	2.3	2.5	2.6	2.8	2.7	0.5%	Algeria
3.6	3.8	3.8	3.7	3.4	3.7	3.9	3.8	3.9	0.7%	Egypt
5.3	5.3	5.0	5.3	5.0	5.0	4.8	4.8	4.8	0.8%	South Africa
221.9	229.4	238.4	245.6	243.3	255.5	260.7	271.4	279.2	47.2%	Asia Pacific
5.6	5.6	5.6	5.7	5.3	5.3	5.5	5.4	5.5	0.9%	Australia
118.5	122.8	128.4	134.0	138.0	145.2	146.6	154.7	158.9	26.8%	China
28.7	29.7	31.3	31.9	30.1	32.7	34.3	37.1	38.8	6.5%	India
7.0	7.5	7.9	8.4	7.9	8.2	10.2	10.3	11.1	1.9%	Indonesia
18.4	18.5	18.4	18.0	16.6	17.3	17.1	16.7	16.4	2.8%	Japan
4.1	4.1	4.2	4.3	4.1	4.3	4.7	4.6	4.8	0.8%	Malaysia
3.0	3.2	3.3	3.3	3.2	3.6	3.3	3.0	3.0	0.5%	Pakistan
3.5	3.5	3.6	3.5	3.3	3.3	3.2	3.6	3.8	0.6%	Singapore
12.6	12.7	13.0	12.8	12.3	13.0	13.1	12.9	13.1	2.2%	South Korea
4.8	4.8	4.9	4.8	4.6	4.9	4.7	4.4	4.4	0.7%	Taiwan
5.0	5.1	5.2	5.2	4.9	4.9	4.9	4.9	5.0	0.8%	Thailand
2.8	2.9	3.4	3.9	3.9	3.8	3.9	4.3	4.6	0.8%	Vietnam

Note: Primary energy comprises commercially traded fuels, including modern renewables used to generate electricity.

Source: Energy Institute, 2025 Statistical Review of World Energy



3-4. 국가별 1인당 일차에너지 공급

단위: 기가줄

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010
세계	44.9	53.5	57.0	60.6	59.8	62.3	60.7	61.8	67.5	69.9
OECD	122.1	151.6	158.0	167.2	162.2	173.4	179.0	187.2	188.5	178.2
비OECD	18.0	21.2	25.5	29.1	31.1	33.0	30.9	31.6	39.3	238.4
유럽연합	91.0	117.7	129.1	144.4	144.5	148.6	144.6	147.2	153.0	144.6
북미	215.6	252.6	253.8	261.8	243.0	257.2	260.6	270.6	264.5	243.2
캐나다	211.8	261.8	294.7	326.8	315.8	316.5	335.5	345.1	348.9	331.8
멕시코	23.0	26.5	34.8	47.1	52.3	56.9	56.6	61.1	68.9	66.8
미국	258.5	306.9	308.5	317.7	294.4	316.2	321.6	335.7	325.3	297.9
중남미	22.2	25.4	29.5	33.7	31.8	33.1	36.9	40.3	42.3	47.5
아르헨티나	53.1	52.8	54.7	57.1	53.0	52.8	59.6	62.8	67.4	72.0
브라질	9.6	14.7	22.1	26.9	27.1	28.0	31.5	36.6	37.8	45.9
유럽	89.7	111.7	119.3	130.9	136.3	142.3	130.8	132.6	137.5	130.2
프랑스	92.7	122.0	131.0	147.0	151.7	164.5	175.3	185.6	186.0	171.9
독일	139.2	164.7	170.9	193.6	198.0	189.1	173.8	174.0	171.8	167.8
이탈리아	60.4	90.6	99.1	105.6	99.8	133.4	132.8	128.6	134.7	119.1
네덜란드	121.1	182.0	216.7	221.9	203.9	218.2	225.5	225.4	242.3	249.8
폴란드	89.1	108.9	128.9	150.9	141.6	114.2	103.7	95.4	99.8	108.5
스페인	33.5	50.5	69.1	79.6	80.8	94.8	106.4	129.0	140.3	119.2
튀르키예	9.7	13.8	19.5	21.9	25.8	33.2	37.8	44.2	47.9	57.0
영국	152.8	164.6	152.7	152.1	152.1	157.4	158.3	162.4	161.6	141.2
CIS	105.9	127.5	157.2	177.7	195.8	197.3	143.1	133.6	141.4	146.8
카자흐스탄	-	-	-	-	176.5	177.3	125.3	82.4	110.5	127.6
러시아	-	-	-	-	232.2	236.1	179.1	169.8	179.9	189.7
중동	34.3	38.2	43.7	56.3	73.0	80.0	94.0	99.9	116.8	132.6
이란	13.5	19.9	34.0	35.7	45.9	49.1	60.3	75.3	95.9	113.5
이라크	10.0	14.4	16.2	26.5	32.6	46.8	59.2	46.6	37.9	44.7
사우디아라비아	289.0	265.6	200.1	250.0	322.3	314.1	306.1	297.0	317.1	350.8
아랍에미리트	18.4	120.7	158.2	383.3	526.8	654.2	717.0	552.1	543.8	504.6
아프리카	7.7	8.3	9.8	11.9	13.7	14.0	13.5	13.2	13.9	14.4
알제리	7.0	9.3	16.0	34.2	42.7	44.6	39.5	34.9	39.7	43.6
이집트	10.4	8.6	10.3	15.8	22.1	22.9	22.8	26.6	30.0	35.1
남아프리카공화국	66.8	68.1	77.2	78.5	93.9	90.9	90.4	90.5	94.6	100.9
아시아-태평양	10.0	14.5	17.4	19.4	21.1	24.8	29.2	31.8	41.6	49.1
호주	130.2	157.2	180.0	200.0	197.5	214.8	223.5	239.4	244.5	239.6
중국	7.4	10.1	14.1	17.3	20.3	24.0	29.4	32.2	55.8	73.9
인도	4.3	4.6	5.3	5.8	6.9	9.0	10.6	12.2	13.8	17.4
인도네시아	2.9	3.1	4.3	7.3	8.8	11.6	15.6	19.6	22.5	26.0
일본	60.0	110.4	126.3	126.2	129.9	147.7	167.1	174.9	177.5	166.7
말레이시아	12.7	14.8	18.4	34.4	38.9	47.2	68.5	93.8	115.0	116.0
파키스탄	2.5	2.7	5.1	6.0	7.1	8.4	9.8	10.4	12.0	12.6
싱가포르	92.2	150.1	136.5	164.8	186.8	323.4	396.2	395.2	457.3	561.5
한국	9.0	18.3	26.3	42.6	54.3	88.2	141.9	175.0	201.4	228.9
대만	17.9	24.8	36.9	61.8	71.9	101.0	130.4	164.3	191.2	201.5
태국	3.4	6.4	9.1	11.3	13.1	22.6	36.7	41.7	55.1	61.4
베트남	2.8	7.8	5.2	3.5	3.6	3.7	5.3	8.7	15.0	20.1

주: 일차에너지는 발전에 사용된 신재생에너지를 포함한 상업적 거래 연료로 구성됨.

자료: Energy Institute, 2025 Statistical Review of World Energy

3–4. TES per Capita

Unit: Gigajoule per capita

2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
70.2	70.0	70.7	71.6	71.6	68.0	70.8	71.2	71.7	72.6	World
167.9	167.3	167.8	168.9	166.1	152.5	159.5	158.9	154.9	155.5	OECD
48.8	48.9	49.7	50.7	51.4	50.0	52.1	52.8	54.4	55.4	Non-OECD
132.0	133.0	135.5	134.1	131.6	119.7	126.8	120.6	114.7	115.5	European Union
230.9	228.0	226.4	231.2	227.2	208.0	217.3	220.2	216.6	216.5	North America
337.1	328.2	328.6	331.5	326.3	300.8	301.6	305.7	300.4	298.6	Canada
65.1	66.5	67.4	65.1	63.6	57.1	59.7	62.0	61.9	61.5	Mexico
280.7	276.9	274.2	281.8	277.0	254.0	266.9	270.1	265.5	265.9	US
51.3	50.2	49.7	48.5	47.9	43.1	46.6	47.9	48.5	48.9	S. & Cent. America
79.3	78.6	76.9	75.3	70.1	64.7	71.3	74.6	73.5	71.6	Argentina
51.6	48.8	49.0	48.2	48.8	46.0	48.9	49.0	50.1	50.5	Brazil
118.5	119.4	121.1	120.1	117.7	108.0	113.7	108.4	104.3	105.3	Europe
159.5	154.9	154.8	155.1	151.2	133.1	142.4	124.7	129.0	135.3	France
157.1	158.4	160.5	155.1	149.6	137.8	143.3	134.5	119.9	119.9	Germany
103.4	103.6	105.0	104.8	103.8	93.5	101.2	101.0	94.9	94.4	Italy
213.1	215.2	214.5	207.4	204.2	194.1	196.5	179.6	171.6	165.8	Netherlands
101.6	105.8	110.9	112.6	109.0	104.3	112.3	106.7	99.5	98.7	Poland
112.2	112.0	115.6	115.0	112.0	97.2	104.0	108.7	104.3	107.0	Spain
66.6	69.0	73.7	72.4	72.5	71.5	77.5	76.9	76.4	80.3	Turkey
121.9	119.4	117.6	115.9	111.6	98.8	98.8	98.7	93.5	93.0	United Kingdom
146.7	148.8	149.3	154.5	152.7	147.5	153.2	157.7	158.7	162.7	CIS
123.4	135.5	143.9	146.7	146.3	132.4	146.2	143.4	145.8	145.7	Kazakhstan
191.7	194.3	195.2	202.1	200.4	192.8	199.8	208.2	211.6	219.3	Russian Federation
140.1	142.0	141.9	140.4	139.6	134.8	136.1	139.6	140.3	140.5	Middle East
119.5	124.4	126.9	129.9	134.1	138.9	136.4	139.5	141.5	140.0	Iran
44.8	46.7	54.4	55.3	57.6	50.2	51.2	55.2	57.1	57.4	Iraq
367.1	372.7	372.1	367.7	350.5	335.4	342.6	352.1	345.6	347.2	Saudi Arabia
507.6	506.1	472.2	435.7	465.1	448.6	454.7	475.1	483.7	496.5	United Arab Emirates
14.7	14.7	14.7	14.6	14.6	13.5	14.3	14.1	14.0	13.9	Africa
55.5	54.3	53.8	56.6	57.6	53.0	56.8	58.1	61.1	58.4	Algeria
34.3	35.6	36.3	35.6	34.1	31.3	33.1	34.2	33.2	33.5	Egypt
89.5	92.7	91.4	85.8	88.2	82.3	81.2	76.4	76.5	75.3	South Africa
53.4	53.5	54.9	56.5	57.8	56.8	59.4	60.3	62.4	63.9	Asia Pacific
232.5	228.2	224.5	222.1	225.3	207.8	203.8	209.5	205.5	204.8	Australia
84.9	84.4	87.0	90.5	94.2	96.8	101.8	102.8	108.7	111.9	China
20.6	21.3	21.8	22.8	22.9	21.4	23.1	24.1	25.8	26.7	India
26.8	26.3	28.1	29.3	30.7	28.7	29.6	36.5	36.7	39.0	Indonesia
146.2	144.5	145.9	145.0	142.4	131.1	137.4	137.1	134.0	132.8	Japan
125.7	128.9	127.2	127.5	128.7	122.1	125.7	134.7	129.9	133.8	Malaysia
12.8	13.8	14.5	14.6	14.2	13.7	15.1	13.7	12.3	11.9	Pakistan
593.8	620.0	633.2	634.6	618.5	584.7	591.5	569.9	615.5	649.2	Singapore
238.6	245.3	246.7	251.0	247.2	237.9	250.1	253.7	249.6	254.2	South Korea
204.6	204.3	203.6	205.9	201.5	195.7	208.2	199.4	189.7	188.2	Taiwan
69.7	70.7	71.5	73.3	73.1	68.2	68.4	68.4	68.3	70.0	Thailand
27.7	29.5	30.5	35.2	40.4	40.0	38.2	39.1	42.6	45.4	Vietnam

Note: Primary energy comprises commercially traded fuels, including modern renewables used to generate electricity.

Source: Energy Institute, 2025 Statistical Review of World Energy



3-5. 국가별 원유 생산(천 배럴/일)

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	31,792	48,075	55,811	62,942	57,345	65,022	67,841	74,450	81,824	83,230	91,686
OECD	11,018	14,178	13,862	17,318	20,303	19,291	21,352	22,147	20,445	19,357	24,597
비OECD	20,774	33,897	41,948	45,624	37,042	45,731	46,489	52,304	61,379	63,873	67,089
OPEC	13,687	22,420	25,675	25,419	15,212	22,721	26,020	29,397	32,920	31,885	34,522
비OPEC	18,105	25,654	30,135	37,523	42,132	42,301	41,821	45,054	48,904	51,346	57,164
유럽연합	697	690	680	608	749	788	781	852	867	626	534
북미	10,296	13,257	12,549	14,063	15,305	13,823	13,779	13,892	13,707	13,850	19,749
캐나다	920	1,473	1,735	1,764	1,813	1,968	2,402	2,703	3,041	3,332	4,388
멕시코	362	487	806	2,129	2,912	2,941	3,055	3,456	3,766	2,959	2,587
미국	9,014	11,297	10,008	10,170	10,580	8,914	8,322	7,733	6,901	7,559	12,774
중남미	4,334	4,829	3,697	3,747	3,721	4,507	5,779	6,690	7,337	7,419	7,991
아르헨티나	276	399	406	506	491	517	758	848	842	712	646
브라질	96	167	177	188	561	651	715	1,276	1,706	2,137	2,525
콜롬비아	203	226	164	131	183	446	591	687	526	786	1,006
에콰도르	8	4	161	206	286	292	395	403	534	488	543
가이아나	-	-	-	-	-	-	-	-	-	-	-
베네수엘라	3,503	3,754	2,422	2,228	1,744	2,244	2,959	3,112	3,302	2,842	2,864
유럽	786	847	1,072	2,980	4,565	4,668	6,643	6,965	5,851	4,304	3,601
노르웨이	-	-	189	528	823	1,716	2,903	3,246	2,983	2,159	1,953
영국	2	4	34	1,676	2,695	1,933	2,769	2,710	1,838	1,358	964
CIS	4,858	7,127	9,916	12,116	11,870	11,403	7,168	7,949	11,687	13,428	13,966
아제르바이잔	-	-	-	-	274	254	185	281	445	1,025	841
카자흐스탄	-	-	-	-	485	571	450	740	1,294	1,676	1,672
러시아	-	-	-	-	10,863	10,342	6,236	6,583	9,598	10,379	11,087
중동	8,387	13,922	19,701	18,872	10,596	17,242	20,150	23,292	25,480	25,612	29,901
이란	1,908	3,848	5,387	1,479	2,205	3,270	3,744	3,850	4,217	4,421	3,853
이라크	1,313	1,549	2,271	2,658	1,425	2,149	530	2,613	1,833	2,469	3,986
쿠웨이트	2,371	3,036	2,132	1,757	1,127	964	2,130	2,244	2,669	2,564	3,069
오만	-	332	341	285	502	695	868	955	774	865	981
카타르	233	363	437	476	315	434	461	851	1,148	1,630	1,844
사우디아라비아	2,219	3,851	7,216	10,270	3,601	7,106	8,974	9,121	10,839	9,865	11,998
아랍에미리트	282	780	1,664	1,735	1,211	1,985	2,444	2,599	2,945	2,915	3,876
아프리카	2,232	6,113	5,068	6,219	5,369	6,667	7,050	7,783	9,771	10,161	8,099
알제리	570	1,054	1,025	1,134	1,087	1,367	1,310	1,549	1,990	1,689	1,558
앙골라	13	103	158	150	232	475	633	746	1,269	1,812	1,796
이집트	126	319	228	580	882	897	924	779	672	725	726
리비아	1,220	3,357	1,514	1,862	1,025	1,424	1,439	1,475	1,745	1,737	412
나이지리아	274	1,083	1,783	2,058	1,499	1,787	1,949	2,174	2,482	2,531	2,199
아시아-태평양	899	1,979	3,808	4,946	5,918	6,712	7,271	7,880	7,991	8,456	8,378
호주	7	176	451	460	655	647	579	806	570	550	378
중국	227	616	1,548	2,122	2,508	2,778	2,993	3,257	3,642	4,077	4,309
인도	62	140	171	193	627	715	774	726	755	901	904
인도네시아	486	854	1,306	1,577	1,342	1,539	1,578	1,456	1,096	1,003	838
말레이시아	1	18	98	276	445	622	704	724	742	733	696
태국	-	-	-	-	49	60	85	186	310	393	481

주: 원유, 셰일유, 오일샌드, NGL 포함. 바이오매스와 석탄 파생물 등의

다른 에너지원의 역제연료는 제외

자료: Energy Institute, 2025 Statistical Review of World Energy

3-5. Crude Oil Production by Country(Thousand Barrels per Day)

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
92,065	92,565	95,029	95,114	88,938	90,251	94,313	96,329	96,890	100.0%	World
24,014	24,816	27,259	29,066	28,246	28,558	29,697	31,395	31,958	33.0%	OECD
68,051	67,749	67,769	66,048	60,692	61,693	64,616	64,934	64,932	67.0%	Non-OECD
35,680	35,541	35,589	33,617	29,795	30,677	33,000	32,783	32,798	33.9%	OPEC
56,385	57,023	59,440	61,497	59,143	59,574	61,313	63,546	64,092	66.1%	Non-OPEC
468	463	448	414	392	372	344	328	330	0.3%	European Union
19,279	20,180	22,641	24,427	23,536	24,073	25,443	27,121	27,934	28.8%	North America
4,464	4,813	5,244	5,371	5,128	5,414	5,575	5,648	5,888	6.1%	Canada
2,456	2,224	2,068	1,918	1,910	1,926	1,943	2,040	1,911	2.0%	Mexico
12,359	13,143	15,329	17,138	16,498	16,733	17,925	19,433	20,135	20.8%	US
7,590	7,285	6,679	6,428	6,082	6,097	6,618	7,358	7,798	8.0%	S. & Cent. America
610	590	592	720	721	797	955	1,072	1,214	1.3%	Argentina
2,607	2,731	2,691	2,890	3,030	2,991	3,112	3,499	3,466	3.6%	Brazil
886	854	865	886	781	736	754	779	773	0.8%	Colombia
548	531	517	531	479	473	481	475	475	0.5%	Ecuador
-	-	-	1	74	117	278	391	616	0.6%	Guyana
2,566	2,209	1,659	1,053	676	665	726	843	960	1.0%	Venezuela
3,629	3,580	3,550	3,437	3,611	3,439	3,213	3,229	2,999	3.1%	Europe
2,004	1,982	1,863	1,750	2,017	2,037	1,907	2,024	1,833	1.9%	Norway
1,015	1,005	1,092	1,118	1,049	874	809	715	653	0.7%	United Kingdom
14,171	14,336	16,607	14,701	13,468	13,806	13,933	13,865	13,461	13.9%	CIS
828	782	784	763	703	708	669	621	598	0.6%	Azerbaijan
1,637	1,813	1,900	1,903	1,796	1,805	1,771	1,891	1,836	1.9%	Kazakhstan
11,342	11,374	11,562	11,679	10,666	11,000	11,202	11,074	10,752	11.1%	Russian Federation
31,709	31,316	31,685	30,124	27,783	28,137	30,816	30,238	30,119	31.1%	Middle East
4,578	4,939	4,747	3,502	3,221	3,680	3,894	4,573	5,062	5.2%	Iran
4,423	4,538	4,632	4,779	4,114	4,102	4,520	4,355	4,398	4.5%	Iraq
3,150	3,009	3,050	2,976	2,721	2,707	3,023	2,902	2,719	2.8%	Kuwait
1,004	971	978	971	951	971	1,064	1,049	993	1.0%	Oman
1,846	1,783	1,798	1,737	1,703	1,689	1,729	1,783	1,806	1.9%	Qatar
12,406	11,892	12,261	11,832	11,039	10,954	12,140	11,261	10,856	11.2%	Saudi Arabia
4,020	3,880	3,894	3,984	3,702	3,699	4,120	4,017	4,006	4.1%	United Arab Emirates
7,636	8,086	8,237	8,328	7,009	7,334	7,039	7,258	7,294	7.5%	Africa
1,577	1,540	1,511	1,487	1,332	1,353	1,443	1,466	1,380	1.4%	Algeria
1,745	1,671	1,519	1,420	1,325	1,177	1,191	1,150	1,181	1.2%	Angola
691	660	674	653	632	608	616	610	637	0.7%	Egypt
388	892	1,135	1,196	423	1,253	1,109	1,237	1,188	1.2%	Libya
1,898	1,966	2,000	2,093	1,894	1,678	1,445	1,540	1,641	1.7%	Nigeria
8,051	7,773	7,630	7,669	7,449	7,366	7,252	7,261	7,285	7.5%	Asia Pacific
353	322	342	458	454	444	412	381	365	0.4%	Australia
3,999	3,846	3,802	3,848	3,901	3,994	4,111	4,198	4,264	4.4%	China
896	897	892	851	795	770	740	729	735	0.8%	India
873	837	808	781	742	692	647	638	613	0.6%	Indonesia
726	718	713	672	615	571	561	557	535	0.6%	Malaysia
489	486	475	475	421	398	328	324	353	0.4%	Thailand

Note: Includes crude oil, shale oil, oil sands and NGLs(the liquid content of natural gas where this is recovered separately).

excludes liquid fuels from other sources such as biomass and coal derivatives

Source: Energy Institute, 2025 Statistical Review of World Energy



3-6. 국가별 원유 생산(백만 톤)

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	1,568	2,359	2,738	3,091	2,792	3,158	3,279	3,594	3,933	3,976	4,362
OECD	526	674	656	827	968	917	1,007	1,038	955	900	1,140
비OECD	1,041	1,685	2,082	2,264	1,823	2,241	2,272	2,556	2,977	3,076	3,222
OPEC	687	1,115	1,274	1,257	739	1,103	1,264	1,427	1,584	1,519	1,642
비OPEC	880	1,244	1,464	1,835	2,052	2,055	2,016	2,167	2,349	2,456	2,721
유럽연합	34	34	33	29	36	38	38	41	42	30	26
북미	490	628	592	671	730	655	646	643	638	639	910
캐나다	44	70	82	83	86	93	112	125	143	161	216
멕시코	18	24	40	107	146	145	150	170	186	146	128
미국	428	533	470	480	499	417	384	348	309	333	567
중남미	226	252	192	195	193	234	300	345	375	379	411
아르헨티나	14	20	20	25	24	25	37	41	39	33	30
브라질	5	9	9	10	29	34	38	67	89	112	132
콜롬비아	11	12	8	7	10	23	31	36	28	41	53
에콰도르	0	0	9	11	15	16	21	22	29	26	29
가이아나	-	-	-	-	-	-	-	-	-	-	-
베네수엘라	184	197	127	117	92	118	155	160	169	146	148
유럽	39	42	52	143	217	223	315	331	274	201	167
노르웨이	-	-	9	25	39	82	138	156	139	100	88
영국	0	0	2	80	128	92	130	126	85	63	45
CIS	243	353	491	603	590	565	354	393	576	660	683
아제르바이잔	-	-	-	-	13	13	9	14	22	51	42
카자흐스탄	-	-	-	-	23	26	21	35	61	80	79
러시아	-	-	-	-	542	516	311	327	475	512	545
중동	419	693	979	934	514	837	975	1,129	1,222	1,209	1,406
이란	96	193	269	74	110	163	185	192	208	212	180
이라크	65	76	112	131	70	105	26	129	90	121	196
쿠웨이트	119	152	106	87	55	47	105	110	130	123	148
오만	-	16	17	14	25	34	43	47	38	42	48
카타르	12	18	22	24	15	21	22	40	53	71	77
사우디아라비아	111	192	359	510	172	343	431	439	517	463	568
아랍에미리트	14	38	81	84	56	93	114	122	137	134	175
아프리카	106	292	243	300	258	318	336	371	464	484	385
알제리	26	48	47	52	47	58	56	67	86	74	67
앙골라	1	5	8	7	11	23	31	37	62	89	88
이집트	6	16	12	30	45	45	47	39	33	35	35
리비아	58	160	72	88	48	67	68	69	82	82	19
나이지리아	14	53	88	102	74	87	95	107	121	122	106
아시아-태평양	45	99	189	245	289	326	352	381	383	403	399
호주	0	9	22	22	31	30	27	37	25	25	17
중국	11	31	77	106	125	138	149	163	181	203	215
인도	3	7	8	9	30	34	37	34	35	41	41
인도네시아	25	43	66	79	66	74	76	72	54	49	41
말레이시아	0	1	5	13	21	30	33	34	34	33	32
태국	-	-	-	-	2	2	3	7	12	15	18

주: 원유, 셰일유, 오일샌드, NGL 포함. 바이오매스와 석탄 파생물 등의

다른 에너지원의 역제연료는 제외

자료: Energy Institute, 2025 Statistical Review of World Energy

3-6. Crude Oil Production by Country(Million tonnes)

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
4,380	4,386	4,491	4,485	4,188	4,237	4,427	4,514	4,543	100.0%	World
1,107	1,138	1,247	1,327	1,283	1,293	1,340	1,413	1,436	31.6%	OECD
3,273	3,248	3,244	3,157	2,906	2,945	3,087	3,101	3,107	68.4%	Non-OECD
1,699	1,686	1,685	1,586	1,404	1,442	1,553	1,540	1,543	34.0%	OPEC
2,681	2,700	2,806	2,899	2,785	2,796	2,874	2,974	2,999	66.0%	Non-OPEC
23	23	22	20	19	18	17	16	16	0.4%	European Union
883	920	1,030	1,109	1,061	1,081	1,138	1,210	1,244	27.4%	North America
219	237	258	263	252	267	274	278	290	6.4%	Canada
121	109	102	95	95	96	98	103	96	2.1%	Mexico
543	574	670	751	714	718	766	830	858	18.9%	US
391	374	343	330	313	313	339	378	401	8.8%	S. & Cent. America
29	27	28	34	34	38	45	51	59	1.3%	Argentina
137	143	141	151	159	157	163	184	182	4.0%	Brazil
47	45	46	47	41	39	40	41	41	0.9%	Colombia
29	28	28	28	26	25	26	25	26	0.6%	Ecuador
-	-	-	0	4	6	14	19	31	0.7%	Guyana
133	114	85	54	34	34	37	43	50	1.1%	Venezuela
168	165	164	159	168	161	151	152	142	3.1%	Europe
91	89	84	79	93	94	89	95	86	1.9%	Norway
47	47	51	52	49	41	38	33	30	0.7%	United Kingdom
695	701	714	718	659	673	679	675	656	14.4%	CIS
41	39	39	38	35	35	33	30	29	0.6%	Azerbaijan
78	86	90	91	86	86	84	90	88	1.9%	Kazakhstan
558	559	568	573	524	539	549	542	526	11.6%	Russian Federation
1,495	1,473	1,488	1,411	1,300	1,314	1,442	1,412	1,407	31.0%	Middle East
216	235	223	161	147	169	178	211	234	5.2%	Iran
218	222	227	234	202	201	221	213	216	4.7%	Iraq
153	145	147	143	131	130	145	140	131	2.9%	Kuwait
49	48	48	47	46	47	51	51	48	1.1%	Oman
78	75	75	72	72	70	72	74	75	1.7%	Qatar
587	559	577	557	520	515	573	529	510	11.2%	Saudi Arabia
182	175	176	180	167	166	185	180	180	4.0%	United Arab Emirates
364	384	391	396	334	347	332	343	345	7.6%	Africa
68	67	65	64	58	58	62	63	59	1.3%	Algeria
86	82	74	69	65	57	58	56	57	1.3%	Angola
34	32	33	32	31	30	30	30	31	0.7%	Egypt
18	42	53	56	20	59	52	58	56	1.2%	Libya
91	94	96	101	91	81	69	74	79	1.7%	Nigeria
384	369	361	361	353	348	344	345	347	7.6%	Asia Pacific
15	14	15	19	19	18	17	16	15	0.3%	Australia
200	192	189	192	195	199	205	209	213	4.7%	China
41	40	40	37	35	34	33	33	33	0.7%	India
43	41	39	38	36	34	31	31	30	0.7%	Indonesia
33	33	33	31	28	26	25	25	24	0.5%	Malaysia
18	18	17	17	15	14	11	11	12	0.3%	Thailand

Note: Includes crude oil, shale oil, oil sands and NGLs(the liquid content of natural gas where this is recovered separately).

excludes liquid fuels from other sources such as biomass and coal derivatives

Source: Energy Institute, 2025 Statistical Review of World Energy

3-7. 국가별 석유제품 소비(천 배럴/일)

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	30,883	45,697	55,026	61,434	59,301	66,644	70,405	76,702	84,246	87,062	93,347
OECD	23,245	34,598	39,269	41,490	38,254	42,548	45,916	48,674	50,421	46,131	45,389
비OECD	7,638	11,099	15,758	19,944	21,047	24,096	24,489	28,028	33,825	40,930	47,958
유럽연합	6,333	10,565	11,901	13,003	11,444	12,596	12,874	12,920	13,194	12,029	11,022
북미	12,936	16,610	18,787	20,071	18,782	20,378	21,303	23,702	25,104	22,894	22,972
캐나다	1,108	1,472	1,775	1,943	1,699	1,755	1,899	2,063	2,348	2,396	2,435
멕시코	316	441	690	1,072	1,357	1,684	1,770	2,046	2,225	2,176	2,038
미국	11,512	14,697	16,322	17,056	15,726	16,940	17,634	19,594	20,531	18,322	18,499
중남미	1,704	2,209	2,856	3,412	3,161	3,518	4,193	4,912	5,199	5,968	6,555
아르헨티나	456	473	481	508	427	409	467	484	501	577	725
브라질	306	542	935	1,159	1,105	1,278	1,542	1,966	1,975	2,357	2,622
유럽	8,219	13,323	14,654	15,769	15,594	16,939	16,393	16,196	16,739	15,382	14,395
벨기에	312	512	504	506	400	473	559	616	661	644	613
프랑스	1,065	1,860	2,181	2,220	1,769	1,864	1,897	1,992	1,927	1,705	1,579
독일	1,709	2,765	2,875	3,014	2,643	2,685	2,860	2,741	2,550	2,373	2,269
이탈리아	979	1,659	1,815	1,929	1,726	2,406	2,348	1,931	1,842	1,546	1,303
네덜란드	478	700	688	780	622	751	784	845	990	1,007	915
폴란드	109	181	272	347	332	325	317	426	482	564	528
스페인	268	534	814	1,043	914	983	1,180	1,416	1,547	1,355	1,202
튀르키예	69	136	240	306	359	475	605	664	656	680	884
영국	1,466	2,031	1,815	1,649	1,616	1,751	1,766	1,708	1,807	1,598	1,526
CIS	3,314	4,826	6,912	8,338	6,588	6,770	3,855	3,250	3,348	3,578	4,088
러시아	-	-	-	-	4,944	5,042	3,058	2,540	2,646	2,879	3,277
중동	835	1,029	1,309	1,919	2,969	3,447	4,450	5,036	6,379	7,914	9,007
이란	139	220	445	565	888	949	1,211	1,347	1,595	1,754	1,604
이라크	30	53	68	153	233	330	534	495	498	548	684
쿠웨이트	106	92	66	78	141	87	109	238	402	502	503
사우디아라비아	390	435	408	592	993	1,136	1,354	1,627	2,203	3,169	3,964
아랍에미리트	2	3	13	99	169	297	396	376	496	654	912
아프리카	576	736	1,018	1,394	1,719	1,968	2,174	2,445	2,882	3,461	4,114
이집트	131	117	159	256	406	457	463	553	606	736	817
남아프리카공화국	118	179	243	248	296	349	418	456	517	528	600
아시아·태평양	3,299	6,963	9,491	10,530	10,488	13,625	18,037	21,161	24,594	27,864	32,216
호주	344	497	600	642	630	711	775	827	868	935	1,016
중국	215	554	1,342	1,643	1,734	2,204	3,220	4,655	6,816	9,307	11,890
인도	252	390	477	643	896	1,212	1,585	2,279	2,625	3,337	4,181
인도네시아	122	138	221	394	465	631	852	1,112	1,266	1,425	1,510
일본	1,727	4,156	5,281	5,001	4,465	5,191	5,765	5,691	5,552	4,553	4,234
말레이시아	53	68	92	162	190	236	410	496	677	692	754
필리핀	97	153	198	219	151	235	348	345	308	307	386
싱가포르	76	138	137	179	230	444	606	696	783	1,145	1,291
한국	25	162	277	476	537	1,041	2,017	2,209	2,291	2,361	2,586
대만	44	105	209	364	359	561	748	869	1,001	1,016	1,020
태국	48	103	168	230	225	405	709	753	996	1,022	1,171
베트남	31	128	65	40	42	60	100	174	265	355	450

주: 1. 국내 수요에 국제 항공, 해상 병거, 정제 원료와 손실량 합산

2. 연료용 에탄올과 바이오디젤 소비량 포함

3. 세계 소비와 생산간의 차이는 재고 변화, 비석유 첨가물 및 대체 연료의 소비, 공급과

수요의 전환이나 측정의 정밀 차이 등으로 발생함

자료: Energy Institute, 2025 Statistical Review of World Energy

3-7. Petroleum Products Consumption by Country(Thousand Barrels per Day)

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
95,142	97,234	98,449	98,898	90,118	95,314	98,297	100,694	101,418	100.0%	World
45,891	46,577	46,885	46,648	41,110	43,908	44,890	44,708	44,760	44.1%	OECD
49,251	50,658	51,564	52,250	49,008	51,406	53,407	55,986	56,658	55.9%	Non-OECD
11,157	11,547	11,451	11,473	9,997	10,518	10,841	10,590	10,661	10.5%	European Union
23,105	23,278	23,801	23,716	20,957	22,770	23,088	23,170	23,182	22.9%	North America
2,427	2,395	2,466	2,475	2,171	2,215	2,294	2,313	2,333	2.3%	Canada
2,085	2,038	1,918	1,818	1,602	1,770	1,931	1,843	1,853	1.8%	Mexico
18,593	18,845	19,417	19,424	17,183	18,785	18,862	19,014	18,995	18.7%	US
6,425	6,371	6,150	6,079	5,262	5,811	6,220	6,353	6,336	6.2%	S. & Cent. America
707	688	654	570	507	605	683	664	604	0.6%	Argentina
2,489	2,516	2,389	2,417	2,268	2,413	2,513	2,577	2,575	2.5%	Brazil
14,644	15,151	15,041	15,024	13,084	13,717	14,165	14,011	14,128	13.9%	Europe
615	620	668	628	541	600	583	568	577	0.6%	Belgium
1,547	1,577	1,538	1,528	1,288	1,388	1,381	1,364	1,360	1.3%	France
2,310	2,468	2,337	2,362	2,132	2,122	2,169	2,034	2,051	2.0%	Germany
1,276	1,286	1,314	1,289	1,059	1,179	1,295	1,267	1,262	1.2%	Italy
932	939	917	887	846	846	826	834	785	0.8%	Netherlands
576	650	667	683	644	674	698	695	705	0.7%	Poland
1,233	1,243	1,262	1,265	1,016	1,123	1,247	1,199	1,270	1.3%	Spain
940	1,014	1,018	1,025	970	1,033	1,072	1,143	1,162	1.1%	Turkey
1,568	1,590	1,563	1,515	1,200	1,216	1,299	1,315	1,325	1.3%	United Kingdom
4,225	4,199	4,311	4,372	4,240	4,527	4,642	4,792	4,884	4.8%	CIS
3,328	3,334	3,360	3,425	3,304	3,523	3,614	3,765	3,846	3.8%	Russian Federation
9,242	9,410	9,358	9,155	8,472	8,995	9,533	9,734	9,893	9.8%	Middle East
1,659	1,706	1,772	1,858	1,788	1,897	1,906	1,931	1,953	1.9%	Iran
688	828	814	799	693	777	852	906	925	0.9%	Iraq
480	489	511	493	465	515	482	496	519	0.5%	Kuwait
4,100	4,052	3,871	3,632	3,437	3,600	3,854	3,900	3,959	3.9%	Saudi Arabia
995	984	984	962	877	959	1,100	1,138	1,183	1.2%	United Arab Emirates
4,102	4,187	4,185	4,243	3,855	4,203	4,430	4,450	4,559	4.5%	Africa
843	809	727	692	607	654	756	741	782	0.8%	Egypt
577	579	563	554	475	502	501	505	467	0.5%	South Africa
33,400	34,639	35,603	36,309	34,248	35,291	36,218	38,185	38,436	37.9%	Asia Pacific
1,017	1,063	1,076	1,064	915	941	999	1,058	1,087	1.1%	Australia
12,297	13,003	13,641	14,316	14,404	14,888	14,970	16,579	16,374	16.1%	China
4,574	4,754	5,004	5,179	4,738	4,841	5,209	5,452	5,621	5.5%	India
1,459	1,570	1,621	1,587	1,406	1,471	1,597	1,598	1,633	1.6%	Indonesia
4,103	4,083	3,941	3,846	3,412	3,485	3,502	3,422	3,238	3.2%	Japan
838	797	806	868	729	703	845	919	934	0.9%	Malaysia
415	446	457	465	381	412	451	463	487	0.5%	Philippines
1,360	1,384	1,415	1,389	1,267	1,250	1,228	1,408	1,492	1.5%	Singapore
2,811	2,804	2,800	2,789	2,630	2,816	2,856	2,796	2,891	2.9%	South Korea
1,021	1,012	1,009	952	909	961	883	835	824	0.8%	Taiwan
1,197	1,243	1,272	1,285	1,154	1,160	1,221	1,217	1,253	1.2%	Thailand
488	531	580	614	556	525	614	658	707	0.7%	Vietnam

Note: 1. Inland demand plus international aviation and marine bunkers and refinery fuel and loss

2. Consumption of fuel ethanol and biodiesel is also included

3. Differences between world consumption and production figures reflect stock changes, use of non-petroleum additives and substitute fuels, and data discrepancies in oil supply and demand.

Source: Energy Institute, 2025 Statistical Review of World Energy



3-8. 국가별 석유제품 소비(백만 톤)

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	1,514	2,245	2,687	2,982	2,815	3,167	3,307	3,580	3,916	4,007	4,261
OECD	1,128	1,686	1,899	1,985	1,776	1,988	2,126	2,243	2,327	2,102	2,049
비OECD	386	559	788	997	1,039	1,179	1,181	1,336	1,590	1,905	2,212
유럽연합	326	541	605	650	556	612	623	624	636	575	522
북미	602	772	869	928	842	926	955	1,064	1,135	1,017	1,009
캐나다	54	72	84	92	75	81	85	92	105	107	107
멕시코	15	21	33	50	61	76	78	93	103	97	91
미국	533	680	752	786	706	770	792	878	927	813	812
중남미	86	110	141	168	152	168	199	232	245	282	306
아르헨티나	23	24	24	25	20	19	22	23	23	27	34
브라질	15	26	45	56	52	59	71	92	91	110	122
유럽	422	682	744	786	760	823	790	776	801	731	679
벨기에	16	26	25	26	20	23	27	30	33	31	29
프랑스	54	94	110	110	84	88	90	95	92	82	75
독일	86	139	143	147	126	127	135	130	120	112	107
이탈리아	52	87	95	98	84	122	118	95	90	74	62
네덜란드	25	37	35	39	30	36	37	41	48	47	41
폴란드	5	9	13	17	16	16	15	20	22	26	24
스페인	14	28	43	52	43	47	58	70	77	68	59
튀르키예	4	7	12	15	18	23	29	31	31	31	42
영국	75	104	92	81	77	83	82	79	83	74	70
CIS	168	245	349	421	330	339	191	158	159	166	187
러시아	-	-	-	-	247	252	151	123	125	133	150
중동	42	51	63	93	143	164	212	236	292	352	398
이란	7	11	22	28	43	46	59	65	76	80	71
이라크	2	3	3	7	11	16	26	24	23	26	33
쿠웨이트	5	5	3	4	7	4	5	11	19	22	22
사우디아라비아	20	21	19	28	47	51	60	72	93	134	173
아랍에미리트	0	0	1	5	9	15	21	19	25	31	41
아프리카	29	36	50	69	84	95	105	117	137	163	192
이집트	7	6	8	13	21	23	23	27	29	35	39
남아프리카공화국	6	9	12	12	14	17	20	22	25	25	28
아시아·태평양	165	348	470	517	504	653	856	996	1,148	1,296	1,490
호주	17	24	29	31	29	32	35	38	39	43	47
중국	11	28	68	83	86	108	154	221	324	441	557
인도	13	20	23	32	43	58	75	106	122	155	195
인도네시아	6	7	11	19	22	31	41	53	60	65	67
일본	87	208	260	242	211	245	270	264	256	208	194
말레이시아	3	3	5	8	9	11	19	23	30	29	32
필리핀	5	8	10	11	7	12	17	17	15	14	18
싱가포르	4	8	7	10	12	23	32	36	41	60	67
한국	1	8	14	24	26	50	95	101	104	104	114
대만	2	5	11	18	17	27	36	42	47	46	45
태국	2	5	8	11	11	19	34	35	45	44	49
베트남	1	6	3	2	2	3	5	8	13	17	21

주: 1. 국내 수요에 국제 항공, 해상 병거, 정제 원료와 손실량 합산

2. 연료용 에탄올과 바이오디젤 소비량 포함

3. 세계 소비와 생산간의 차이는 재고 변화, 비석유 첨가물 및 대체 연료의 소비, 공급과

수요의 전환이나 측정의 정미 차이 등으로 발생함

자료: Energy Institute, 2025 Statistical Review of World Energy

3-8. Petroleum Products Consumption by Country(Million tonnes)

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
4,348	4,427	4,468	4,484	4,081	4,304	4,450	4,554	4,589	100.0%	World
2,075	2,100	2,107	2,092	1,835	1,960	2,010	1,994	1,996	43.5%	OECD
2,273	2,328	2,362	2,391	2,245	2,345	2,441	2,560	2,592	56.5%	Non-OECD
529	546	542	542	473	496	513	500	504	11.0%	European Union
1,015	1,020	1,037	1,031	902	983	1,000	998	998	21.7%	North America
105	104	108	107	93	95	99	99	101	2.2%	Canada
93	91	85	81	70	80	88	83	84	1.8%	Mexico
817	825	844	843	740	808	813	816	814	17.7%	US
299	295	285	284	246	271	289	296	296	6.4%	S. & Cent. America
33	32	30	27	24	29	32	31	28	0.6%	Argentina
115	116	110	112	105	112	116	119	119	2.6%	Brazil
692	715	710	708	618	646	669	660	666	14.5%	Europe
29	30	32	30	25	28	28	27	27	0.6%	Belgium
74	75	73	72	61	65	65	64	64	1.4%	France
109	116	111	112	101	100	103	96	97	2.1%	Germany
60	60	62	60	50	56	61	60	59	1.3%	Italy
42	43	41	40	38	39	38	38	35	0.8%	Netherlands
27	30	31	31	30	31	32	32	33	0.7%	Poland
61	61	62	62	50	55	61	59	62	1.4%	Spain
46	49	50	49	47	50	52	55	56	1.2%	Turkey
72	73	72	70	55	56	60	61	61	1.3%	United Kingdom
193	190	196	198	192	204	210	218	222	4.8%	CIS
152	151	153	156	150	159	163	171	176	3.8%	Russian Federation
410	415	411	400	369	393	417	428	437	9.5%	Middle East
73	73	76	81	78	83	83	84	86	1.9%	Iran
34	41	40	39	34	37	41	44	45	1.0%	Iraq
21	21	22	21	20	22	21	22	23	0.5%	Kuwait
180	177	168	155	147	153	165	169	171	3.7%	Saudi Arabia
44	44	44	43	39	43	49	50	53	1.1%	United Arab Emirates
192	194	193	195	177	193	204	204	210	4.6%	Africa
40	38	34	32	27	30	35	34	36	0.8%	Egypt
27	27	27	26	23	24	24	24	22	0.5%	South Africa
1,547	1,597	1,637	1,667	1,577	1,614	1,661	1,751	1,760	38.4%	Asia Pacific
47	49	50	50	43	44	47	50	51	1.1%	Australia
574	606	635	667	676	692	695	768	755	16.5%	China
216	222	230	238	216	218	238	249	257	5.6%	India
65	70	72	70	62	64	70	70	72	1.6%	Indonesia
188	186	179	175	155	158	159	156	147	3.2%	Japan
36	34	34	38	31	30	37	40	41	0.9%	Malaysia
19	20	21	21	17	18	20	21	22	0.5%	Philippines
71	72	73	71	66	66	64	73	78	1.7%	Singapore
124	123	122	121	115	122	124	121	125	2.7%	South Korea
45	45	45	42	40	42	39	37	37	0.8%	Taiwan
51	52	53	54	49	49	52	52	54	1.2%	Thailand
23	24	26	28	25	24	28	30	32	0.7%	Vietnam

Note: 1. Inland demand plus international aviation and marine bunkers and refinery fuel and loss

2. Consumption of fuel ethanol and biodiesel is also included

3. Differences between world consumption and production figures reflect stock changes, use of non-petroleum additives and substitute fuels, and data discrepancies in oil supply and demand.

Source: Energy Institute, 2025 Statistical Review of World Energy



3-9. 국가별 석유 정제 능력

단위: 천 배럴/일

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	34,785	51,700	70,906	79,421	73,387	75,077	76,800	82,864	88,183	94,257	98,129
OECD	22,955	34,729	46,467	50,040	41,485	41,088	42,245	45,012	45,782	45,727	44,668
비OECD	11,831	16,971	24,438	29,381	31,902	33,989	34,555	37,852	42,401	48,530	53,461
유럽연합	6,939	12,814	18,164	18,016	14,241	13,706	13,476	13,840	14,387	13,544	12,871
북미	11,896	14,818	18,075	22,001	18,602	19,223	18,569	19,910	20,698	21,112	21,770
캐나다	1,089	1,396	2,089	2,155	1,880	1,920	1,792	1,861	1,896	1,913	1,931
멕시코	417	562	746	1,226	1,263	1,627	1,444	1,481	1,463	1,463	1,522
미국	10,390	12,860	15,240	18,620	15,459	15,676	15,333	16,568	17,339	17,736	18,317
중남미	3,562	4,808	6,886	7,203	5,996	6,061	5,884	6,314	6,516	6,612	6,341
아르헨티나	402	438	684	684	677	681	639	625	615	625	657
브라질	347	525	996	1,393	1,435	1,440	1,481	1,849	1,942	1,992	2,281
베네수엘라	1,120	1,289	1,445	1,283	1,243	1,243	1,217	1,274	1,291	1,303	1,303
유럽	8,676	15,863	22,104	23,180	18,915	18,323	17,918	17,997	18,401	17,483	15,812
벨기에	335	721	978	1,060	569	684	669	739	756	787	776
프랑스	1,411	2,339	3,404	3,326	2,184	1,699	1,728	1,984	1,978	1,702	1,375
독일	1,747	2,643	3,461	3,422	2,198	2,024	2,104	2,262	2,322	2,091	2,049
이탈리아	1,560	2,939	4,343	3,101	2,585	2,528	2,359	2,485	2,515	2,396	1,900
네덜란드	614	1,348	1,985	1,852	1,478	1,207	1,257	1,277	1,274	1,274	1,298
폴란드	86	161	311	361	361	361	341	384	507	560	581
스페인	311	894	994	1,392	1,312	1,267	1,308	1,330	1,377	1,421	1,562
튀르키예	96	204	281	366	466	703	713	713	613	613	596
영국	1,474	2,305	2,940	2,614	1,864	1,850	1,844	1,778	1,819	1,757	1,337
CIS	4,518	6,105	8,435	8,707	9,278	9,344	8,113	7,249	6,927	7,140	8,139
러시아	-	-	-	6,802	7,072	7,138	6,612	5,521	5,313	5,527	6,457
중동	1,702	2,466	3,061	3,520	5,175	5,647	5,939	6,744	7,417	8,152	9,384
이란	467	594	810	975	1,085	1,190	1,405	1,647	1,692	1,950	2,075
이라크	79	103	186	319	660	670	648	718	728	914	763
쿠웨이트	342	469	563	579	584	570	824	745	936	936	936
오만	-	-	-	-	50	80	80	80	85	222	222
사우디아라비아	303	676	703	700	1,510	1,860	1,692	1,798	2,102	2,109	2,899
아랍에미리트	-	-	-	15	180	185	220	668	711	702	1,149
아프리카	823	1,016	1,406	2,287	2,528	2,868	2,941	2,940	3,264	3,309	3,357
알제리	54	58	116	440	440	434	434	434	443	554	651
이집트	181	175	201	324	433	583	633	654	810	810	810
나이지리아	32	55	60	210	261	445	370	320	405	321	449
아시아-태평양	3,608	6,626	10,939	12,523	12,893	13,612	17,436	21,710	24,960	30,450	33,326
중국	241	605	1,328	1,972	2,348	3,160	4,386	5,908	8,463	12,323	15,024
인도	231	412	564	557	867	1,122	1,133	2,219	2,558	3,703	4,307
인도네시아	225	270	343	427	824	823	941	1,071	1,004	1,099	1,111
일본	1,917	3,504	5,567	5,643	4,724	4,324	5,006	5,010	4,531	4,291	3,721
말레이시아	118	125	143	172	209	230	365	572	522	582	612
싱가포르	50	288	923	1,063	1,043	933	1,175	1,340	1,420	1,427	1,514
한국	33	209	418	608	751	798	1,727	2,316	2,598	2,774	3,128
대만	46	103	274	542	570	570	732	732	1,159	1,197	988
태국	45	122	153	177	166	222	477	899	1,078	1,230	1,252

자료: Energy Institute, 2025 Statistical Review of World Energy

3-9. Refinery Capacity by Country

Unit: Thousand barrels per day

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
98,797	99,022	100,515	101,892	101,825	101,145	101,322	103,370	104,523	100.0%	World
44,863	44,699	45,174	45,522	44,561	43,701	43,471	43,654	43,536	41.7%	OECD
53,934	54,322	55,341	56,370	57,264	57,444	57,851	59,715	60,987	58.3%	Non-OECD
12,761	12,757	12,772	12,785	12,725	12,441	12,299	12,216	12,185	11.7%	European Union
22,073	22,113	22,305	22,586	21,766	21,453	21,573	21,941	21,928	21.0%	North America
1,934	1,970	1,939	2,054	2,065	1,954	1,954	1,954	1,954	1.9%	Canada
1,522	1,546	1,558	1,558	1,558	1,558	1,558	1,558	1,558	1.5%	Mexico
18,617	18,598	18,808	18,974	18,143	17,941	18,061	18,429	18,416	17.6%	US
6,494	6,490	6,413	6,418	6,598	6,359	6,278	6,274	6,294	6.0%	S. & Cent. America
657	657	580	580	580	580	580	580	600	0.6%	Argentina
2,289	2,285	2,285	2,290	2,290	2,303	2,304	2,290	2,290	2.2%	Brazil
1,303	1,303	1,303	1,303	1,303	1,303	1,303	1,303	1,303	1.2%	Venezuela
15,591	15,569	15,806	15,824	15,787	15,388	15,213	15,046	15,015	14.4%	Europe
776	776	776	776	776	645	645	645	645	0.6%	Belgium
1,245	1,245	1,245	1,245	1,245	1,170	1,145	1,145	1,145	1.1%	France
2,051	2,069	2,062	2,062	2,062	2,121	2,121	2,076	2,076	2.0%	Germany
1,900	1,900	1,900	1,900	1,900	1,900	1,794	1,794	1,803	1.7%	Italy
1,298	1,299	1,299	1,291	1,244	1,238	1,241	1,241	1,241	1.2%	Netherlands
581	568	581	581	581	581	581	583	583	0.6%	Poland
1,562	1,562	1,564	1,586	1,586	1,591	1,591	1,591	1,591	1.5%	Spain
596	596	818	822	822	822	822	822	822	0.8%	Turkey
1,227	1,227	1,227	1,227	1,251	1,251	1,219	1,219	1,219	1.2%	United Kingdom
6,563	6,590	6,596	6,661	6,746	6,801	6,781	6,781	6,781	6.5%	Russian Federation
9,548	9,498	9,687	10,130	10,262	10,155	10,675	11,412	11,719	11.2%	Middle East
2,075	2,220	2,330	2,495	2,475	2,423	2,430	2,454	2,460	2.4%	Iran
779	779	849	919	919	919	1,150	1,219	1,219	1.2%	Iraq
936	736	736	736	800	800	835	1,309	1,430	1.4%	Kuwait
222	222	222	282	304	304	304	396	564	0.5%	Oman
2,901	2,826	2,835	2,905	2,947	2,977	3,224	3,289	3,289	3.1%	Saudi Arabia
1,149	1,229	1,229	1,307	1,331	1,246	1,246	1,259	1,271	1.2%	United Arab Emirates
3,357	3,343	3,338	3,143	3,143	3,033	2,911	2,908	3,486	3.3%	Africa
651	657	657	657	657	657	657	657	657	0.6%	Algeria
810	810	795	795	795	795	795	795	825	0.8%	Egypt
449	449	454	460	460	475	475	529	1,030	1.0%	Nigeria
33,488	33,811	34,745	35,535	35,917	36,340	36,274	37,397	37,690	36.1%	Asia Pacific
14,895	15,231	15,655	16,199	16,691	16,990	17,259	18,428	18,514	17.7%	China
4,620	4,699	4,972	4,994	5,018	5,005	5,045	5,085	5,172	4.9%	India
1,111	1,111	1,094	1,111	1,094	1,094	1,180	1,242	1,259	1.2%	Indonesia
3,600	3,343	3,343	3,343	3,285	3,285	3,164	3,069	2,955	2.8%	Japan
618	625	625	625	625	955	955	955	1,155	1.1%	Malaysia
1,514	1,514	1,514	1,514	1,514	1,461	1,302	1,302	1,302	1.2%	Singapore
3,259	3,298	3,346	3,393	3,334	3,363	3,363	3,363	3,363	3.2%	South Korea
988	1,083	1,083	1,083	1,131	1,131	1,083	1,083	1,083	1.0%	Taiwan
1,235	1,235	1,235	1,235	1,245	1,245	1,245	1,244	1,242	1.2%	Thailand

Source: Energy Institute, 2025 Statistical Review of World Energy



3-10. 국가별 원유 정제 처리량

단위: 천 배럴/일

	1980	1985	1990	1995	2000	2005	2010	2015	2016
세계	58,758.4	54,108.9	60,310.4	61,713.8	67,775.7	73,831.2	74,900.6	79,688.8	80,313.8
OECD	35,465.6	29,760.7	33,667.3	36,907.9	39,595.5	40,175.7	37,517.2	38,242.2	38,132.7
비OECD	23,292.8	24,348.2	26,643.1	24,806.0	28,180.2	33,655.5	37,383.4	41,446.6	42,181.2
유럽연합	12,247.0	9,384.0	10,409.0	10,894.5	11,451.3	11,911.3	10,702.2	10,568.4	10,534.2
북미	16,391.2	14,584.9	16,278.8	16,774.0	18,041.7	18,350.2	17,678.0	18,891.9	18,714.4
캐나다	1,893.0	1,376.8	1,548.4	1,518.2	1,722.8	1,845.9	1,769.8	1,639.5	1,594.3
멕시코	1,017.2	1,206.1	1,321.3	1,282.8	1,251.9	1,284.2	1,184.1	1,064.4	933.1
미국	13,481.0	12,002.0	13,409.0	13,973.0	15,067.0	15,220.1	14,724.0	16,188.0	16,187.0
중남미	5,077.3	3,986.2	4,452.7	4,591.9	5,380.2	5,468.9	4,970.2	4,625.1	4,305.6
아르헨티나	481.2	420.4	424.2	457.0	521.7	538.1	531.0	535.7	510.5
브라질	1,085.5	1,084.8	1,173.5	1,226.1	1,588.6	1,703.0	1,787.2	1,971.9	1,812.5
콜롬비아	153.3	186.1	231.9	256.1	290.8	299.2	295.4	201.2	285.5
유럽	14,702.7	11,609.9	14,161.8	13,856.6	14,195.1	14,909.4	13,187.5	12,708.4	12,573.4
벨기에	671.0	409.0	506.9	529.6	679.7	644.0	668.4	643.7	640.4
프랑스	2,226.2	1,432.3	1,436.6	1,581.6	1,706.2	1,710.9	1,313.9	1,151.6	1,121.6
독일	2,423.0	1,771.0	1,839.0	2,070.0	2,139.0	2,300.3	1,915.4	1,875.5	1,887.0
그리스	285.7	243.8	289.4	298.5	388.9	373.6	393.1	435.7	464.4
이탈리아	1,836.5	1,319.0	1,555.5	1,576.0	1,752.3	1,889.8	1,672.5	1,347.4	1,293.5
네덜란드	1,012.9	816.3	960.3	1,130.8	1,101.4	1,055.3	1,041.1	1,055.4	1,079.7
폴란드	324.0	282.0	265.0	310.0	379.0	376.1	457.9	532.2	516.7
스페인	981.8	895.3	1,016.8	1,109.6	1,143.5	1,194.9	1,060.2	1,306.0	1,301.5
튀르키예	256.0	335.0	462.0	550.0	485.0	520.4	391.6	525.5	531.5
영국	1,625.0	1,383.2	1,568.3	1,687.6	1,639.9	1,619.4	1,395.1	1,117.5	1,071.1
CIS	9,388.8	9,489.8	7,795.7	4,527.8	4,295.9	5,184.1	5,975.4	6,912.2	6,744.1
카자흐스탄	-	-	393.2	218.0	117.8	217.8	256.9	342.4	338.8
러시아	-	-	5,984.5	3,660.5	3,481.3	4,172.0	5,017.7	5,773.3	5,714.7
중동	2,491.7	3,574.5	4,466.0	5,372.7	5,864.0	6,681.9	6,894.5	7,714.5	7,916.8
이란	684.9	662.9	870.5	1,300.3	1,604.0	1,665.6	1,670.1	1,696.1	1,686.5
이라크	184.7	385.6	377.7	440.3	513.1	450.5	514.8	408.3	439.5
쿠웨이트	342.6	593.7	575.1	828.8	747.9	862.6	892.5	904.8	840.6
사우디아라비아	610.2	1,014.9	1,512.4	1,579.9	1,669.2	2,001.8	1,921.5	2,447.0	2,753.0
아랍에미리트	11.8	164.6	198.5	221.6	315.0	604.4	571.0	1,098.0	1,078.0
아프리카	1,400.7	1,792.4	2,104.1	2,162.3	2,180.9	2,501.1	2,437.3	2,095.7	2,090.5
알제리	226.3	407.7	421.1	407.9	427.5	355.9	548.1	590.5	584.2
이집트	277.1	406.0	488.7	548.3	497.4	633.1	579.7	530.2	508.7
아시아-태평양	9,306.1	9,071.3	11,051.4	14,428.5	17,818.0	20,735.5	23,757.7	26,740.9	27,969.0
중국	1,510.0	1,697.0	2,153.0	2,711.0	4,066.6	5,832.0	8,408.3	10,824.1	11,303.9
인도	502.0	828.0	1,038.0	1,165.0	2,039.0	2,561.5	3,898.9	4,561.0	4,930.4
인도네시아	527.0	586.0	750.0	897.0	986.9	979.9	853.4	743.0	887.0
일본	4,015.0	3,120.0	3,437.0	4,169.0	4,145.0	4,135.6	3,618.7	3,257.6	3,280.1
말레이시아	123.1	158.5	183.6	337.8	451.8	508.8	461.9	493.5	548.1
싱가포르	550.0	700.0	936.0	1,101.0	880.0	1,176.0	978.6	900.7	929.1
한국	492.0	551.0	842.0	1,729.0	2,433.0	2,335.4	2,389.7	2,784.0	2,928.2
대만	359.0	344.8	413.4	582.2	727.4	1,042.2	876.3	837.9	860.6
태국	155.0	164.0	220.4	484.8	729.2	892.3	953.4	1,066.3	1,022.4

자료: Energy Institute, 2025 Statistical Review of World Energy

3-10. Oil Refinery Throughput by Country

Unit: Thousand barrels per day

2017	2018	2019	2020	2021	2022	2023	2024	Share	
82,010.4	82,967.1	82,754.8	75,024.1	78,546.8	81,628.6	82,994.1	82,970.6	100.0%	World
38,927.3	38,766.0	38,389.6	33,343.1	34,650.0	36,470.0	36,155.3	36,315.4	43.8%	OECD
43,083.1	44,201.2	44,365.2	41,681.0	43,896.8	45,158.6	46,838.8	46,655.2	56.2%	Non-OECD
10,790.6	10,627.4	10,449.0	9,070.2	9,291.6	9,797.7	9,746.7	9,715.8	11.7%	European Union
19,114.3	19,233.8	18,977.0	16,387.3	17,511.8	18,489.1	18,474.5	18,870.7	22.7%	North America
1,757.3	1,653.0	1,822.0	1,584.6	1,653.2	1,696.4	1,715.5	1,741.1	2.1%	Canada
767.0	611.9	592.0	590.6	711.6	815.8	792.0	905.6	1.1%	Mexico
16,590.0	16,969.0	16,563.0	14,212.0	15,147.0	15,977.0	15,967.0	16,224.0	19.6%	US
4,153.5	3,890.2	3,724.4	3,354.1	3,645.6	3,811.1	3,899.5	3,975.9	4.8%	S. & Cent. America
499.6	470.2	476.1	417.1	471.8	488.7	518.7	525.0	0.6%	Argentina
1,741.1	1,732.7	1,750.9	1,768.6	1,818.3	1,935.2	2,003.9	1,994.5	2.4%	Brazil
306.9	373.0	381.4	361.3	357.5	419.6	419.2	424.2	0.5%	Colombia
12,913.9	12,689.1	12,651.3	11,075.8	11,324.9	11,949.0	11,836.6	11,778.1	14.2%	Europe
684.6	663.2	693.3	544.5	577.1	557.5	606.2	616.8	0.7%	Belgium
1,149.4	1,085.0	978.0	664.6	683.1	828.8	912.0	907.1	1.1%	France
1,869.7	1,752.5	1,762.9	1,685.2	1,690.0	1,801.0	1,594.5	1,731.6	2.1%	Germany
482.6	488.5	462.4	445.4	476.2	441.8	469.5	477.0	0.6%	Greece
1,398.9	1,346.3	1,354.9	1,105.2	1,223.5	1,317.0	1,303.9	1,222.5	1.5%	Italy
1,059.6	1,085.5	1,124.0	983.1	1,039.4	1,000.7	1,068.5	945.3	1.1%	Netherlands
508.1	540.2	545.9	515.8	497.1	535.1	501.6	519.7	0.6%	Poland
1,326.2	1,363.4	1,318.4	1,104.6	1,143.1	1,275.0	1,242.8	1,288.5	1.6%	Spain
541.5	472.3	673.1	654.8	691.9	736.4	726.0	698.6	0.8%	Turkey
1,073.2	1,041.2	1,043.7	889.9	897.1	1,017.5	952.0	974.1	1.2%	United Kingdom
6,760.7	6,907.1	6,892.0	6,495.7	6,793.4	6,628.1	6,793.1	6,620.9	8.0%	CIS
354.6	373.6	392.4	367.1	390.7	457.2	418.9	406.1	0.5%	Kazakhstan
5,715.4	5,835.9	5,813.9	5,492.2	5,725.9	5,533.5	5,681.8	5,507.5	6.6%	Russian Federation
8,301.5	8,551.3	8,302.1	7,420.1	8,095.7	8,902.3	9,029.9	9,291.4	11.2%	Middle East
1,854.0	1,919.3	1,952.9	1,907.4	1,893.9	2,066.0	2,102.2	2,113.9	2.5%	Iran
526.1	692.6	739.8	632.2	716.4	807.4	892.1	899.6	1.1%	Iraq
685.8	679.2	662.9	582.9	653.4	807.5	1,047.0	1,248.3	1.5%	Kuwait
2,802.0	2,770.0	2,580.7	2,178.8	2,536.4	2,915.7	2,707.2	2,762.5	3.3%	Saudi Arabia
1,119.0	1,096.0	1,037.0	935.9	1,062.5	954.1	979.1	976.7	1.2%	United Arab Emirates
2,041.2	2,054.0	2,036.9	1,747.4	1,706.1	1,854.4	1,736.6	1,942.8	2.3%	Africa
572.7	600.7	569.4	584.8	588.1	649.0	649.6	648.8	0.8%	Algeria
508.1	522.4	565.3	605.2	599.8	628.6	534.5	517.1	0.6%	Egypt
28,725.3	29,641.6	30,171.1	28,543.7	29,469.4	29,994.6	31,223.8	30,490.8	36.7%	Asia Pacific
11,843.9	12,573.9	13,433.4	13,823.6	14,421.5	13,995.2	15,214.4	14,628.9	17.6%	China
5,009.5	5,154.1	5,119.1	4,493.4	4,792.2	5,082.0	5,249.3	5,322.1	6.4%	India
885.0	916.0	918.0	826.0	823.0	884.0	907.0	807.2	1.0%	Indonesia
3,214.4	3,058.8	3,046.5	2,492.2	2,488.4	2,694.3	2,544.6	2,352.6	2.8%	Japan
542.9	513.2	560.0	530.6	507.8	633.5	660.5	639.0	0.8%	Malaysia
993.6	984.8	909.5	728.2	739.4	772.1	780.4	793.9	1.0%	Singapore
3,061.3	3,030.9	2,921.7	2,678.6	2,633.9	2,811.2	2,757.9	2,807.4	3.4%	South Korea
848.2	889.5	890.5	725.5	769.6	815.3	806.8	778.0	0.9%	Taiwan
1,064.4	1,093.2	989.7	981.8	976.2	1,020.9	1,054.2	1,085.0	1.3%	Thailand

Source: Energy Institute, 2025 Statistical Review of World Energy

3-11. 국가별 천연가스 생산

단위: 억사줄

	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	35.1	42.3	51.4	59.1	70.9	75.2	86.4	99.3	113.2	126.5
OECD	26.1	28.2	30.0	27.8	30.0	34.5	38.0	38.3	40.7	46.1
비OECD	9.1	14.1	21.4	31.3	40.9	40.7	48.4	61.0	72.6	80.5
유럽연합	3.3	5.9	5.9	5.6	5.1	5.3	4.7	4.7	4.5	3.0
북미	22.9	21.7	22.4	20.0	22.1	24.7	26.2	25.7	27.9	34.2
캐나다	1.9	2.6	2.6	2.9	3.7	5.5	6.3	6.4	5.4	5.8
멕시코	0.4	0.5	0.9	1.0	0.9	1.1	1.2	1.6	1.8	1.7
미국	20.6	18.6	18.9	16.1	17.4	18.1	18.7	17.6	20.7	26.7
중남미	0.7	0.9	1.3	1.7	2.2	2.8	3.7	5.0	5.8	6.4
아르헨티나	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.6	1.4	1.3
브라질	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.9
페루	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5
트리니다드토바고	0.1	0.1	0.1	0.2	0.2	0.3	0.5	1.1	1.5	1.3
베네수엘라	0.3	0.4	0.6	0.7	0.9	1.1	1.1	1.1	1.1	1.3
유럽	3.8	7.2	8.2	9.6	8.8	9.6	11.2	11.8	11.1	9.3
노르웨이	-	-	0.9	0.9	0.9	1.0	1.8	3.1	3.8	4.1
우크라이나	-	-	-	1.5	1.0	0.6	0.6	0.7	0.7	0.7
영국	0.4	1.3	1.3	1.5	1.7	2.7	4.1	3.3	2.1	1.5
CIS	6.8	9.9	14.8	20.0	26.3	22.5	23.2	26.1	26.6	27.0
아제르바이잔	-	-	-	0.5	0.3	0.2	0.2	0.2	0.6	0.7
카자흐스탄	-	-	-	0.1	0.2	0.2	0.3	0.7	1.0	1.0
러시아	-	-	-	15.3	21.6	19.5	19.3	21.2	21.5	21.0
투르크메니스탄	-	-	-	2.8	2.9	1.0	1.5	2.0	1.4	2.4
우즈베키스탄	-	-	-	1.2	1.3	1.6	1.8	2.0	2.1	1.9
중동	0.4	1.0	1.2	2.1	3.6	5.0	7.3	11.2	17.1	21.6
바레인	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5
이란	0.1	0.5	0.2	0.3	0.9	1.1	2.0	3.5	5.2	6.6
이스라엘	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3
오만	-	-	0.0	0.1	0.1	0.1	0.4	0.8	0.9	1.1
카타르	0.0	0.1	0.2	0.2	0.2	0.3	0.9	1.7	4.4	6.3
사우디아라비아	0.1	0.1	0.3	0.6	1.1	1.5	1.7	2.4	3.0	3.6
아랍에미리트	0.0	0.1	0.3	0.5	0.7	1.1	1.3	1.7	1.8	2.1
아프리카	0.1	0.4	0.9	1.8	2.6	3.1	4.9	6.1	7.3	7.4
알제리	0.1	0.2	0.6	1.3	1.9	2.2	3.3	3.1	2.8	2.9
이집트	0.0	0.0	0.1	0.2	0.3	0.4	0.7	1.5	2.1	1.5
나이지리아	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.8	1.1	1.7
아시아-태평양	0.5	1.3	2.6	3.9	5.4	7.5	10.0	13.4	17.4	20.5
호주	0.1	0.2	0.4	0.5	0.7	1.1	1.1	1.4	1.9	2.7
방글라데시	-	0.0	0.0	0.1	0.2	0.2	0.3	0.5	0.7	0.9
중국	0.1	0.3	0.5	0.5	0.6	0.7	1.0	1.8	3.5	4.9
인도	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.0	1.7	1.0
인도네시아	0.0	0.1	0.7	1.2	1.6	2.2	2.5	2.7	3.0	3.1
말레이시아	-	0.0	0.1	0.4	0.6	1.0	1.8	2.4	2.3	2.8
파키스탄	0.1	0.1	0.2	0.3	0.4	0.5	0.6	1.2	1.3	1.3
태국	-	-	-	0.1	0.2	0.4	0.8	0.9	1.2	1.3

자료: Energy Institute, 2025 Statistical Review of World Energy

3-11. Natural Gas Production by Country

Unit: Exajoules

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
127.9	132.6	138.8	143.0	139.2	145.7	145.8	146.3	148.5	100.0%	World
46.5	47.9	51.7	54.6	53.9	54.7	57.6	58.6	58.4	39.3%	OECD
81.5	84.7	87.2	88.4	85.3	91.0	88.2	87.7	90.1	60.7%	Non-OECD
3.0	2.8	2.5	2.2	1.7	1.6	1.5	1.2	1.2	0.8%	European Union
33.8	34.6	38.1	40.9	40.6	41.4	43.6	45.4	45.5	30.6%	North America
5.9	6.2	6.4	6.1	6.0	6.2	6.7	6.8	7.0	4.7%	Canada
1.7	1.5	1.4	1.4	1.3	1.2	1.3	1.4	1.3	0.9%	Mexico
26.2	26.9	30.3	33.4	33.3	34.0	35.7	37.2	37.2	25.0%	US
6.4	6.5	6.3	6.2	5.6	5.7	5.9	5.8	5.9	4.0%	S. & Cent. America
1.3	1.3	1.4	1.5	1.4	1.4	1.5	1.5	1.6	1.1%	Argentina
0.9	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.6%	Brazil
0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.6	0.4%	Peru
1.1	1.1	1.2	1.2	1.1	0.9	0.9	0.9	0.9	0.6%	Trinidad & Tobago
1.3	1.4	1.1	0.9	0.8	1.0	1.0	1.1	1.1	0.8%	Venezuela
9.3	9.4	9.0	8.4	7.8	7.6	7.9	7.3	7.1	4.8%	Europe
4.1	4.4	4.3	4.1	4.0	4.1	4.4	4.2	4.1	2.7%	Norway
0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.4%	Ukraine
1.5	1.5	1.5	1.4	1.4	1.2	1.4	1.2	1.1	0.7%	United Kingdom
27.2	28.9	30.5	30.9	29.1	32.1	29.1	27.8	29.3	19.7%	CIS
0.7	0.6	0.7	0.9	0.9	1.1	1.2	1.3	1.4	0.9%	Azerbaijan
1.1	1.3	1.4	1.2	1.1	1.0	1.0	1.1	1.1	0.7%	Kazakhstan
21.2	22.9	24.1	24.4	23.0	25.3	22.3	21.1	22.7	15.3%	Russian Federation
2.3	2.1	2.2	2.3	2.4	2.9	2.8	2.7	2.6	1.8%	Turkmenistan
1.9	1.9	2.1	2.1	1.7	1.8	1.8	1.6	1.5	1.0%	Uzbekistan
22.5	22.8	23.2	23.8	24.0	24.7	25.2	25.9	26.6	17.9%	Middle East
0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.4%	Bahrain
7.2	7.7	7.9	8.2	8.5	8.7	8.9	9.4	9.5	6.4%	Iran
0.3	0.3	0.4	0.4	0.5	0.7	0.8	0.7	0.8	0.5%	Israel
1.1	1.2	1.3	1.3	1.3	1.4	1.5	1.6	1.6	1.1%	Oman
6.3	6.1	6.3	6.4	6.3	6.4	6.4	6.5	6.5	4.4%	Qatar
3.8	3.9	4.0	4.0	4.1	4.1	4.2	4.2	4.4	2.9%	Saudi Arabia
2.1	1.9	1.7	1.9	1.9	1.9	2.0	2.0	2.2	1.5%	United Arab Emirates
7.6	8.3	8.7	8.8	8.3	9.6	9.2	9.1	8.6	5.8%	Africa
3.3	3.3	3.4	3.1	2.9	3.6	3.5	3.7	3.4	2.3%	Algeria
1.4	1.8	2.1	2.3	2.1	2.4	2.3	2.1	1.7	1.2%	Egypt
1.5	1.7	1.7	1.8	1.8	1.9	1.7	1.6	1.7	1.1%	Nigeria
21.2	22.2	22.9	24.0	23.7	24.6	24.8	24.9	25.5	17.2%	Asia Pacific
3.4	4.0	4.6	5.3	5.2	5.3	5.6	5.4	5.4	3.6%	Australia
1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.5%	Bangladesh
5.0	5.4	5.8	6.4	7.0	7.5	8.0	8.4	8.9	6.0%	China
1.0	1.0	1.0	1.0	0.9	1.0	1.1	1.1	1.2	0.8%	India
3.1	3.0	3.0	2.7	2.4	2.4	2.4	2.5	2.6	1.7%	Indonesia
2.8	2.9	2.7	2.8	2.6	2.8	3.0	2.8	2.9	1.9%	Malaysia
1.2	1.2	1.2	1.2	1.1	1.2	1.0	1.0	0.9	0.6%	Pakistan
1.3	1.3	1.3	1.3	1.2	1.1	0.9	0.9	1.0	0.7%	Thailand

Source: Energy Institute, 2025 Statistical Review of World Energy



3-12. 국가별 천연가스 소비

단위: 엑사줄

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	22.7	34.6	42.0	51.3	58.5	70.1	76.0	86.4	98.8	113.7	125.2
OECD	17.0	25.7	28.7	31.9	31.8	36.0	42.4	48.5	51.2	55.9	58.5
비OECD	5.7	9.0	13.3	19.3	26.8	34.2	33.6	37.9	47.5	57.8	66.8
유럽연합	1.3	3.4	6.7	8.2	9.0	10.5	11.3	12.9	15.1	15.2	12.5
북미	16.0	22.3	21.1	21.8	19.8	21.9	25.4	27.1	26.5	29.0	33.6
캐나다	0.8	1.2	1.7	1.8	2.0	2.3	2.8	3.2	3.2	3.3	4.0
멕시코	0.3	0.4	0.5	0.8	1.0	1.0	1.1	1.3	1.9	2.4	2.9
미국	15.0	20.7	18.9	19.2	16.8	18.6	21.5	22.6	21.4	23.3	26.8
중남미	0.5	0.7	0.9	1.3	1.7	2.1	2.8	3.5	4.6	5.3	6.4
아르헨티나	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.4	1.5	1.7
브라질	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.7	1.0	1.5
베네수엘라	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.1	1.1	1.1	1.3
유럽	1.4	3.9	8.1	10.1	14.5	17.4	17.1	20.1	22.6	22.4	18.3
프랑스	0.2	0.3	0.7	0.9	1.0	1.1	1.2	1.5	1.7	1.8	1.5
독일	0.1	0.6	1.7	2.2	2.1	2.3	2.8	3.0	3.3	3.2	2.8
이탈리아	0.3	0.4	0.8	0.9	1.1	1.6	1.9	2.4	3.0	2.8	2.3
네덜란드	0.1	0.6	1.3	1.3	1.4	1.3	1.5	1.5	1.5	1.7	1.2
스페인	-	0.0	0.1	0.1	0.1	0.2	0.3	0.6	1.2	1.3	1.0
튀르키예	-	-	-	-	0.0	0.1	0.2	0.5	0.9	1.3	1.7
영국	0.0	0.4	1.3	1.7	2.0	2.0	2.7	3.6	3.6	3.5	2.6
CIS	4.4	6.8	9.9	13.6	15.6	18.4	16.4	16.3	17.9	19.0	19.0
러시아	-	-	-	-	12.8	14.9	13.4	13.2	14.4	15.3	14.7
투르크메니스탄	-	-	-	-	0.3	0.3	0.3	0.3	0.4	0.7	0.9
우즈베키스탄	-	-	-	-	1.1	1.3	1.4	1.8	1.7	1.6	1.7
중동	0.1	0.3	0.6	1.1	2.0	3.4	4.9	6.6	9.6	13.7	17.3
이란	0.0	0.1	0.2	0.2	0.3	0.8	1.1	2.1	3.5	5.2	6.6
오만	-	-	-	0.0	0.1	0.1	0.1	0.3	0.4	0.6	0.8
카타르	0.0	0.0	0.1	0.2	0.2	0.2	0.5	0.4	0.6	0.9	1.6
사우디아라비아	0.0	0.1	0.1	0.3	0.6	1.1	1.5	1.7	2.4	3.0	3.6
아랍에미리트	-	0.0	0.1	0.2	0.4	0.6	0.9	1.1	1.5	2.1	2.6
아프리카	0.0	0.1	0.2	0.7	1.0	1.4	1.7	2.0	2.9	3.5	4.7
알제리	0.0	0.0	0.1	0.4	0.6	0.7	0.7	0.7	0.8	0.9	1.4
이집트	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.7	1.1	1.6	1.7
아시아-태평양	0.2	0.5	1.3	2.6	3.9	5.5	7.6	10.7	14.7	20.7	25.8
호주	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.7	0.8	1.1	1.4
방글라데시	-	-	0.0	0.0	0.1	0.2	0.2	0.3	0.5	0.7	0.9
중국	0.0	0.1	0.3	0.5	0.5	0.6	0.6	0.9	1.7	3.9	7.0
인도	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.9	1.2	2.1	1.7
인도네시아	0.0	0.0	0.1	0.3	0.5	0.6	1.0	1.2	1.3	1.6	1.7
일본	0.1	0.1	0.3	0.9	1.4	1.8	2.2	2.7	3.0	3.6	4.3
말레이시아	-	0.0	0.0	0.1	0.2	0.3	0.5	1.0	1.3	1.4	1.7
파키스탄	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	1.2	1.3	1.3
한국	-	-	-	-	-	0.1	0.3	0.7	1.1	1.6	1.6
대만	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.2	0.4	0.6	0.7
태국	-	-	-	-	0.1	0.2	0.4	0.8	1.2	1.6	1.8

자료: Energy Institute, 2025 Statistical Review of World Energy

3-12. Natural Gas Consumption by Country

Unit: Exajoules

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
128.1	131.8	137.9	140.6	139.3	144.8	144.2	144.5	148.6	100.0%	World
59.7	60.5	63.8	65.3	63.9	65.1	64.6	63.3	64.2	43.2%	OECD
68.4	71.2	74.2	75.3	75.4	79.7	79.6	81.2	84.4	56.8%	Non-OECD
13.3	13.9	13.6	14.1	13.7	14.3	12.3	11.4	11.6	7.8%	European Union
33.8	33.8	37.1	38.3	37.6	37.8	39.5	40.1	40.7	27.4%	North America
3.8	3.9	4.2	4.3	4.2	4.3	4.5	4.5	4.6	3.1%	Canada
3.1	3.2	3.3	3.4	3.4	3.4	3.4	3.6	3.6	2.4%	Mexico
27.0	26.6	29.6	30.6	30.1	30.1	31.7	32.0	32.5	21.9%	US
6.3	6.3	6.1	5.9	5.3	6.1	5.8	5.8	6.1	4.1%	S. & Cent. America
1.7	1.7	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.1%	Argentina
1.3	1.4	1.3	1.3	1.1	1.5	1.2	1.1	1.1	0.8%	Brazil
1.3	1.4	1.1	0.9	0.8	1.0	1.0	1.1	1.1	0.8%	Venezuela
19.3	20.1	19.7	20.0	19.5	20.6	17.9	16.6	16.9	11.4%	Europe
1.6	1.6	1.5	1.6	1.5	1.5	1.4	1.2	1.2	0.8%	France
3.1	3.2	3.1	3.2	3.1	3.3	2.7	2.6	2.8	1.9%	Germany
2.4	2.6	2.5	2.5	2.4	2.6	2.3	2.1	2.1	1.4%	Italy
1.3	1.3	1.3	1.3	1.3	1.3	1.0	0.9	0.9	0.6%	Netherlands
1.0	1.1	1.1	1.3	1.2	1.2	1.2	1.1	1.0	0.7%	Spain
1.6	1.9	1.7	1.6	1.7	2.1	1.8	1.7	1.8	1.2%	Turkey
2.9	2.8	2.8	2.8	2.6	2.8	2.5	2.3	2.2	1.5%	United Kingdom
19.4	19.8	20.9	20.6	20.0	20.7	21.4	21.3	22.2	14.9%	CIS
15.1	15.5	16.4	16.0	15.2	15.5	16.1	16.3	17.2	11.6%	Russian Federation
0.9	0.9	1.0	1.0	1.2	1.3	1.4	1.3	1.0	0.7%	Turkmenistan
1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	2.0	1.3%	Uzbekistan
18.0	18.3	18.6	19.2	19.9	19.8	20.4	20.9	21.3	14.4%	Middle East
7.1	7.4	7.7	7.9	8.5	8.3	8.6	8.9	8.8	5.9%	Iran
0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1	0.8%	Oman
1.5	1.5	1.5	1.5	1.4	1.5	1.4	1.6	1.7	1.1%	Qatar
3.8	3.9	4.0	4.0	4.1	4.1	4.2	4.2	4.4	2.9%	Saudi Arabia
2.6	2.4	2.1	2.4	2.4	2.4	2.4	2.4	2.6	1.7%	United Arab Emirates
4.9	5.2	5.6	5.7	5.6	6.4	6.3	6.4	6.4	4.3%	Africa
1.4	1.4	1.6	1.6	1.6	1.7	1.8	2.0	1.8	1.2%	Algeria
1.8	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.2	1.4%	Egypt
26.4	28.1	29.9	30.9	31.4	33.6	33.0	33.4	35.0	23.6%	Asia Pacific
1.4	1.3	1.3	1.6	1.5	1.4	1.6	1.4	1.3	0.9%	Australia
1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	0.7%	Bangladesh
7.5	8.7	10.2	11.1	12.1	13.7	13.6	14.6	15.6	10.5%	China
1.8	1.9	2.1	2.1	2.2	2.2	2.1	2.2	2.5	1.7%	India
1.6	1.8	1.6	1.5	1.4	1.5	1.4	1.6	1.7	1.1%	Indonesia
4.2	4.2	4.2	3.9	3.7	3.7	3.6	3.3	3.3	2.2%	Japan
1.6	1.6	1.6	1.6	1.6	1.8	1.9	1.6	1.7	1.1%	Malaysia
1.4	1.5	1.6	1.6	1.5	1.6	1.4	1.4	1.3	0.9%	Pakistan
1.7	1.8	2.1	2.0	2.1	2.2	2.2	2.2	2.3	1.5%	South Korea
0.8	0.8	0.9	0.8	0.9	1.0	1.0	1.0	1.1	0.7%	Taiwan
1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.7	1.7	1.2%	Thailand

Source: Energy Institute, 2025 Statistical Review of World Energy



3-13. 국가별 석탄 생산

단위: 엑사줄

	1985	1990	1995	2000	2005	2010	2015	2016	2017
세계	87.4	94.8	94.1	96.5	126.2	150.6	160.4	151.9	155.5
OECD	44.2	46.1	42.7	42.4	44.3	44.0	41.3	37.9	38.3
비OECD	43.2	48.7	51.4	54.1	81.9	106.6	119.1	114.0	117.2
유럽연합	16.0	13.4	10.4	8.3	7.8	6.5	5.8	5.5	5.4
북미	21.0	24.4	24.2	24.7	25.0	23.9	19.6	16.3	17.3
캐나다	1.5	1.7	1.8	1.6	1.5	1.5	1.4	1.4	1.3
멕시코	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3
미국	19.4	22.5	22.2	22.8	23.2	22.1	18.0	14.7	15.7
중남미	0.5	0.8	1.0	1.5	2.1	2.3	2.7	2.8	2.8
브라질	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
콜롬비아	0.3	0.6	0.7	1.1	1.7	2.1	2.5	2.6	2.6
베네수엘라	0.0	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.0
유럽	23.5	20.6	14.5	11.7	10.8	9.7	7.9	7.6	7.3
불가리아	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
체코	1.8	1.5	1.1	1.0	1.0	0.9	0.7	0.7	0.6
독일	6.2	5.2	3.3	2.5	2.4	1.9	1.8	1.7	1.7
그리스	0.2	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2
헝가리	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
폴란드	5.2	4.2	3.9	3.0	2.9	2.3	2.2	2.2	2.1
루마니아	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
세르비아	-	-	-	-	-	0.3	0.3	0.3	0.3
스페인	0.5	0.5	0.4	0.3	0.3	0.1	0.1	0.0	0.0
튀르키예	0.4	0.5	0.5	0.5	0.5	0.7	0.5	0.6	0.6
우크라이나	3.9	3.6	1.8	1.5	1.5	1.3	0.7	0.8	0.6
영국	2.4	2.4	1.4	0.8	0.5	0.5	0.2	0.1	0.1
CIS	10.4	10.3	6.8	6.5	7.3	8.4	9.6	10.0	10.7
카자흐스탄	2.4	2.4	1.5	1.4	1.6	2.0	1.7	1.8	1.9
러시아	7.8	7.8	5.2	5.1	5.7	6.3	7.8	8.1	8.6
우즈베키스탄	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
중동	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
아프리카	4.3	4.4	5.1	5.5	5.9	6.1	6.3	6.3	6.5
남아프리카공화국	4.2	4.2	4.9	5.3	5.8	6.0	6.0	6.0	6.0
짐바브웨	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
아시아-태평양	27.7	34.3	42.5	46.7	75.1	100.2	114.3	108.8	110.9
호주	3.9	4.8	5.7	7.2	9.0	10.5	12.8	12.8	12.5
중국	18.3	22.6	28.5	29.6	52.0	69.7	76.6	70.8	73.2
인도	3.0	4.5	5.6	6.4	7.9	10.6	11.8	11.9	12.0
인도네시아	0.0	0.3	1.0	1.9	3.8	6.3	10.2	9.9	9.7
일본	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
몽골	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.7	0.9
뉴질랜드	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
파키스탄	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
한국	0.4	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0
태국	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2
베트남	0.1	0.1	0.2	0.3	0.8	1.1	1.0	0.9	0.9

주: 상업용 연료

자료: Energy Institute, 2025 Statistical Review of World Energy

3-13. Coal Production by Country

Unit: Exajoules

2018	2019	2020	2021	2022	2023	2024	Share	
162.5	164.9	156.6	163.3	174.8	180.3	182.2	100.0%	World
38.2	36.4	30.0	31.6	31.7	30.7	28.8	15.8%	OECD
124.3	128.4	126.6	131.7	143.1	149.6	153.4	84.2%	Non-OECD
5.2	4.4	3.7	4.0	4.0	3.3	2.9	1.6%	European Union
16.9	15.7	12.1	13.0	13.4	13.2	11.9	6.5%	North America
1.2	1.2	1.1	1.2	1.2	1.3	1.1	0.6%	Canada
0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1%	Mexico
15.4	14.3	10.7	11.6	12.1	11.8	10.6	5.8%	US
2.7	2.7	1.8	2.0	2.0	2.1	1.6	0.9%	S. & Cent. America
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1%	Brazil
2.5	2.5	1.6	1.8	1.9	2.0	1.5	0.8%	Colombia
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	Venezuela
7.1	6.4	5.5	5.8	5.8	4.9	4.5	2.5%	Europe
0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1%	Bulgaria
0.6	0.6	0.4	0.4	0.5	0.4	0.3	0.2%	Czech Republic
1.6	1.2	1.0	1.2	1.2	0.9	0.8	0.5%	Germany
0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0%	Greece
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	Hungary
2.0	1.9	1.7	1.8	1.7	1.5	1.4	0.8%	Poland
0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0%	Romania
0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1%	Serbia
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	Spain
0.7	0.7	0.7	0.8	0.8	0.6	0.7	0.4%	Turkey
0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.2%	Ukraine
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0%	United Kingdom
11.4	11.3	10.4	11.3	11.5	11.4	11.3	6.2%	CIS
2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.1%	Kazakhstan
9.2	9.2	8.4	9.2	9.3	9.2	9.1	5.0%	Russian Federation
0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0%	Uzbekistan
0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0%	Middle East
6.6	6.5	6.3	6.1	6.2	6.3	6.4	3.5%	Africa
6.0	6.0	5.9	5.5	5.4	5.5	5.6	3.1%	South Africa
0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1%	Zimbabwe
117.8	122.3	120.5	125.1	135.8	142.3	146.4	80.3%	Asia Pacific
13.1	13.2	12.0	12.3	11.7	11.7	11.8	6.5%	Australia
76.9	79.8	80.5	83.4	91.3	93.4	94.5	51.8%	China
12.8	12.6	12.6	13.4	15.0	16.8	18.1	9.9%	India
11.4	12.8	11.8	12.7	14.0	15.7	17.0	9.3%	Indonesia
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	Japan
1.0	1.1	0.8	0.6	0.7	1.6	2.0	1.1%	Mongolia
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0%	New Zealand
0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.2%	Pakistan
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	South Korea
0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1%	Thailand
1.0	1.1	1.0	1.1	1.2	1.1	1.0	0.6%	Vietnam

Note: Commercial solid fuels only

Source: Energy Institute, 2025 Statistical Review of World Energy



3-14. 국가별 석탄 소비

단위: 엑사줄

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	58.2	61.5	65.0	75.2	86.4	93.3	93.6	98.8	130.3	151.3	157.3
OECD	36.7	36.6	34.9	40.7	44.9	45.7	43.6	46.5	48.2	46.1	40.2
비OECD	21.5	24.9	30.1	34.5	41.4	47.7	50.0	52.3	82.1	105.2	117.1
유럽연합	16.5	16.1	15.1	17.4	18.5	16.4	13.3	11.9	11.7	10.5	10.0
북미	12.3	13.0	13.4	16.5	18.8	20.5	21.4	24.2	24.6	22.4	16.9
캐나다	0.6	0.7	0.6	0.9	1.1	1.1	1.1	1.3	1.3	1.0	0.8
멕시코	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.5
미국	11.6	12.3	12.7	15.5	17.5	19.2	20.1	22.6	22.8	20.9	15.6
중남미	0.2	0.3	0.3	0.5	0.7	0.7	0.8	0.9	0.9	1.2	1.5
브라질	0.1	0.1	0.1	0.2	0.4	0.4	0.5	0.5	0.5	0.6	0.7
칠레	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3
콜롬비아	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2
유럽	22.1	20.7	18.8	21.3	26.1	24.0	18.6	16.6	16.4	15.3	14.2
불가리아	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
체코	1.5	1.6	1.6	1.6	1.6	1.2	1.0	0.9	0.8	0.8	0.7
프랑스	1.9	1.6	1.1	1.4	1.1	0.8	0.6	0.6	0.6	0.5	0.4
독일	6.7	6.2	5.3	5.9	6.2	5.5	3.8	3.6	3.4	3.2	3.3
네덜란드	0.4	0.2	0.1	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.5
폴란드	2.5	2.9	3.5	4.3	4.2	3.3	2.9	2.4	2.3	2.3	2.0
튀르키예	0.2	0.2	0.2	0.3	0.5	0.7	0.7	0.9	0.9	1.3	1.5
우크라이나	-	-	-	-	3.6	3.5	2.1	1.6	1.6	1.6	1.1
영국	4.9	4.0	3.0	3.0	2.6	2.7	2.0	1.5	1.6	1.3	1.0
CIS	12.5	13.1	14.3	14.1	10.3	9.6	6.3	5.3	5.2	5.3	5.2
카자흐스탄	-	-	-	-	1.6	1.6	1.1	0.7	1.1	1.4	1.1
러시아	-	-	-	-	8.3	7.6	5.0	4.4	4.0	3.8	3.9
우즈베키스탄	-	-	-	-	0.1	0.1	0.0	0.0	0.0	0.0	0.1
중동	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4
아프리카	1.2	1.3	1.6	2.0	2.8	3.2	3.3	3.5	3.7	4.2	4.0
모로코	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.2
남아프리카공화국	1.0	1.1	1.5	1.8	2.6	2.8	3.0	3.1	3.3	3.9	3.5
아시아-태평양	10.0	13.1	16.4	20.8	27.6	35.2	43.0	48.1	79.1	102.4	115.1
호주	0.7	0.8	1.0	1.2	1.3	1.6	1.7	2.1	2.3	2.2	1.9
방글라데시	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
중국	4.8	6.9	9.6	12.7	17.1	22.1	27.9	29.6	55.5	73.2	80.4
홍콩	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.3
인도	1.5	1.6	2.0	2.4	3.1	4.6	5.9	6.9	8.8	12.1	16.2
인도네시아	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.0	1.5	1.9
일본	2.0	2.5	2.4	2.4	3.0	3.3	3.5	4.0	4.8	4.9	5.0
말레이시아	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.6	0.7
파키스탄	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2
필리핀	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.5
한국	0.2	0.2	0.3	0.6	0.9	1.1	1.2	1.9	2.3	3.3	3.6
대만	0.1	0.1	0.1	0.2	0.3	0.5	0.7	1.2	1.5	1.6	1.7
태국	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.5	0.6	0.7
베트남	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.6	1.1

주: 상업용 연료

자료: Energy Institute, 2025 Statistical Review of World Energy

3–14. Coal Consumption by Country

Unit: Exajoules

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
154.0	155.6	158.0	157.1	152.3	160.7	161.7	163.1	165.1	100.0%	World
38.1	37.8	36.6	32.4	27.7	30.2	29.2	25.4	24.4	14.8%	OECD
115.9	117.8	121.4	124.6	124.6	130.5	132.5	137.8	140.7	85.2%	Non-OECD
9.6	9.5	9.1	7.3	6.0	6.9	6.9	5.3	4.7	2.9%	European Union
15.5	15.3	14.5	12.5	10.0	11.2	10.5	8.8	8.5	5.1%	North America
0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.2%	Canada
0.5	0.6	0.6	0.5	0.2	0.2	0.2	0.3	0.3	0.2%	Mexico
14.3	13.9	13.3	11.3	9.2	10.6	9.9	8.2	7.9	4.8%	US
1.4	1.4	1.4	1.4	1.3	1.4	1.3	1.2	1.1	0.7%	S. & Cent. America
0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.5	0.3%	Brazil
0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1%	Chile
0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1%	Colombia
13.7	13.3	13.0	11.1	9.6	10.4	9.9	8.2	7.6	4.6%	Europe
0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1%	Bulgaria
0.7	0.7	0.7	0.6	0.5	0.5	0.6	0.5	0.4	0.2%	Czech Republic
0.4	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.1%	France
3.2	3.0	2.9	2.2	1.9	2.2	2.3	1.8	1.6	1.0%	Germany
0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1%	Netherlands
2.1	2.1	2.1	1.9	1.7	1.9	1.8	1.5	1.3	0.8%	Poland
1.6	1.7	1.7	1.8	1.7	1.7	1.8	1.7	1.8	1.1%	Turkey
1.4	1.1	1.2	1.1	1.0	1.0	0.4	0.4	0.4	0.2%	Ukraine
0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1%	United Kingdom
5.2	5.2	5.4	5.2	4.9	5.0	5.5	5.6	5.6	3.4%	CIS
1.3	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.5	0.9%	Kazakhstan
3.7	3.5	3.6	3.6	3.3	3.4	3.8	3.8	3.7	2.3%	Russian Federation
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1%	Uzbekistan
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.2%	Middle East
4.3	4.3	4.2	4.5	4.3	4.3	4.1	4.2	4.3	2.6%	Africa
0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2%	Morocco
3.8	3.7	3.5	3.8	3.7	3.6	3.4	3.4	3.5	2.1%	South Africa
113.3	115.8	119.2	122.0	122.0	127.9	130.0	134.7	137.6	83.4%	Asia Pacific
1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.5	1.5	0.9%	Australia
0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2%	Bangladesh
78.0	78.9	80.5	82.5	84.2	87.5	87.8	90.7	92.2	55.8%	China
0.3	0.3	0.3	0.3	0.1	0.2	0.2	0.1	0.1	0.1%	China Hong Kong SAR
16.5	17.1	17.9	18.0	17.0	19.3	20.0	22.1	23.0	13.9%	India
2.0	2.0	2.4	2.9	2.8	2.7	4.4	4.3	4.7	2.9%	Indonesia
5.0	5.1	5.0	4.9	4.6	4.9	4.9	4.5	4.5	2.7%	Japan
0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.1	0.7%	Malaysia
0.3	0.3	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.3%	Pakistan
0.5	0.6	0.7	0.7	0.7	0.8	0.8	0.9	1.0	0.6%	Philippines
3.5	3.7	3.8	3.6	3.2	3.3	3.1	3.0	2.9	1.7%	South Korea
1.7	1.7	1.7	1.7	1.6	1.7	1.6	1.5	1.4	0.9%	Taiwan
0.7	0.8	0.8	0.7	0.8	0.8	0.7	0.6	0.6	0.4%	Thailand
1.2	1.2	1.6	2.1	2.2	2.1	1.9	2.3	2.5	1.5%	Vietnam

Note: Commercial solid fuels only

Source: Energy Institute, 2025 Statistical Review of World Energy

3-15. 국가별 원자력 소비

단위: 엑사줄

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	0.3	0.9	4.0	7.8	16.2	21.8	25.3	28.2	30.2	30.2	28.1
OECD	0.3	0.8	3.6	6.8	13.8	18.9	22.4	24.5	25.8	25.1	21.5
비OECD	0.0	0.1	0.4	1.0	2.4	2.9	2.9	3.6	4.4	5.1	6.6
유럽연합	0.0	0.2	0.9	2.0	6.1	8.0	8.6	9.4	10.0	9.3	8.6
북미	0.0	0.3	2.1	3.3	5.1	7.4	8.9	9.5	10.1	10.3	10.4
캐나다	0.0	0.0	0.1	0.4	0.7	0.8	1.1	0.8	1.0	1.0	1.1
멕시코	-	-	-	-	-	0.0	0.1	0.1	0.1	0.1	0.1
미국	0.0	0.3	2.0	2.9	4.4	6.6	7.7	8.7	9.0	9.3	9.2
중남미	-	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
아르헨티나	-	-	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
브라질	-	-	-	-	0.0	0.0	0.0	0.1	0.1	0.2	0.2
유럽	0.2	0.5	1.3	2.6	7.5	9.8	10.7	11.4	12.1	11.3	10.6
벨기에	-	0.0	0.1	0.1	0.4	0.5	0.5	0.5	0.5	0.5	0.3
불가리아	-	-	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
체코	-	-	-	-	0.0	0.1	0.1	0.1	0.3	0.3	0.3
핀란드	-	-	-	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.3
프랑스	0.0	0.1	0.2	0.7	2.4	3.4	4.1	4.5	4.9	4.7	4.8
헝가리	-	-	-	-	0.1	0.1	0.2	0.2	0.2	0.2	0.2
네덜란드	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
루마니아	-	-	-	-	-	-	-	0.1	0.1	0.1	0.1
슬로바키아	-	-	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2
슬로베니아	-	-	-	-	-	0.1	0.1	0.1	0.1	0.1	0.1
스페인	-	0.0	0.1	0.1	0.3	0.6	0.6	0.7	0.6	0.7	0.6
스웨덴	0.0	0.0	0.1	0.3	0.6	0.7	0.8	0.6	0.8	0.6	0.6
스위스	-	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
우크라이나	-	-	-	-	0.6	0.8	0.8	0.8	1.0	1.0	1.0
영국	0.2	0.3	0.3	0.4	0.7	0.7	1.0	0.9	0.9	0.7	0.8
CIS	0.0	0.0	0.3	0.8	1.1	1.3	1.1	1.4	1.7	1.9	2.2
벨라루스	-	-	-	-	-	-	-	-	-	-	-
러시아	-	-	-	-	1.1	1.3	1.1	1.4	1.6	1.9	2.1
중동	-	-	-	-	-	-	-	-	-	-	0.0
이란	-	-	-	-	-	-	-	-	-	-	0.0
아랍에미리트	-	-	-	-	-	-	-	-	-	-	-
아프리카	-	-	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1
남아프리카공화국	-	-	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1
아시아-태평양	0.0	0.1	0.3	1.1	2.3	3.1	4.5	5.5	6.0	6.4	4.6
중국	-	-	-	-	-	-	0.1	0.2	0.6	0.8	1.9
인도	-	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4
일본	0.0	0.0	0.3	0.9	1.7	2.1	3.1	3.5	3.2	3.2	0.0
파키스탄	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
한국	-	-	-	0.0	0.2	0.6	0.7	1.2	1.6	1.6	1.8
대만	-	-	-	0.1	0.3	0.4	0.4	0.4	0.4	0.5	0.4

자료: Energy Institute, 2025 Statistical Review of World Energy

3-15. Nuclear Energy Consumption by Country

Unit: Exajoules

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
28.5	28.8	29.5	30.5	29.3	30.6	29.2	29.9	30.7	100.0%	World
21.5	21.4	21.5	21.8	20.4	20.9	19.5	20.0	20.5	66.8%	OECD
7.0	7.4	8.0	8.7	8.9	9.7	9.7	9.9	10.2	33.2%	Non-OECD
8.4	8.3	8.3	8.3	7.5	8.0	6.6	6.8	7.1	23.1%	European Union
10.5	10.5	10.5	10.5	10.3	10.1	9.9	10.0	10.0	32.7%	North America
1.1	1.1	1.1	1.1	1.1	1.0	0.9	1.0	0.9	3.0%	Canada
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4%	Mexico
9.3	9.2	9.3	9.3	9.1	9.0	8.9	8.9	9.0	29.2%	US
0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.9%	S. & Cent. America
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4%	Argentina
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6%	Brazil
10.3	10.2	10.2	10.1	9.1	9.6	8.1	8.0	8.4	27.2%	Europe
0.5	0.5	0.3	0.5	0.4	0.5	0.5	0.4	0.3	1.1%	Belgium
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6%	Bulgaria
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.1%	Czech Republic
0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	1.2%	Finland
4.4	4.3	4.5	4.4	3.9	4.1	3.2	3.7	4.2	13.5%	France
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6%	Hungary
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%	Netherlands
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4%	Romania
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6%	Slovakia
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2%	Slovenia
0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.9%	Spain
0.7	0.7	0.7	0.7	0.5	0.6	0.6	0.5	0.6	1.8%	Sweden
0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.8%	Switzerland
0.9	0.9	0.9	0.9	0.8	0.9	0.7	0.6	0.6	1.9%	Ukraine
0.8	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.4	1.4%	United Kingdom
2.2	2.2	2.3	2.3	2.4	2.5	2.5	2.5	2.6	8.3%	CIS
-	-	-	-	0.0	0.1	0.1	0.1	0.2	0.6%	Belarus
2.1	2.2	2.2	2.3	2.4	2.4	2.4	2.4	2.4	7.7%	Russian Federation
0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	1.7%	Middle East
0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.3%	Iran
-	-	-	-	0.0	0.1	0.2	0.4	0.4	1.4%	United Arab Emirates
0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3%	Africa
0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3%	South Africa
5.1	5.4	6.0	7.1	7.1	7.8	8.0	8.5	8.9	28.9%	Asia Pacific
2.3	2.7	3.2	3.8	4.0	4.4	4.6	4.7	4.9	16.0%	China
0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	1.9%	India
0.2	0.3	0.5	0.7	0.5	0.7	0.6	0.8	0.9	3.0%	Japan
0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.8%	Pakistan
1.8	1.6	1.5	1.6	1.7	1.7	1.9	2.0	2.1	6.7%	South Korea
0.3	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.1	0.4%	Taiwan

Source: Energy Institute, 2025 Statistical Review of World Energy

3-16. 국가별 재생에너지 소비

단위: 엑사줄

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	3.7	4.7	5.9	7.2	8.8	10.4	12.0	13.5	15.9	22.0	29.0
OECD	2.9	3.5	4.3	4.8	5.5	6.3	7.1	7.8	8.8	11.8	15.2
비OECD	0.8	1.2	1.6	2.5	3.3	4.0	4.9	5.7	7.1	10.2	13.8
유럽연합	0.9	1.0	1.1	1.3	1.3	1.3	1.5	1.9	2.3	3.9	5.0
북미	1.3	1.7	2.2	2.5	3.0	3.5	3.9	4.0	4.3	5.4	6.5
캐나다	0.4	0.6	0.7	0.9	1.1	1.1	1.3	1.4	1.4	1.4	1.7
멕시코	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.4
미국	0.9	1.1	1.4	1.4	1.7	2.2	2.3	2.2	2.5	3.6	4.4
중남미	0.2	0.3	0.5	0.9	1.4	1.7	2.2	2.5	2.9	3.8	4.3
아르헨티나	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
브라질	0.1	0.2	0.3	0.6	0.9	1.1	1.3	1.5	1.7	2.4	2.7
칠레	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2
콜롬비아	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
베네수엘라	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3
유럽	1.2	1.4	1.6	1.9	2.0	2.1	2.4	2.9	3.5	5.3	7.0
오스트리아	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
핀란드	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2
프랑스	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.5
독일	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.7	1.2
아이슬란드	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2
이탈리아	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.6	0.8
네덜란드	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
노르웨이	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.5
폴란드	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
스페인	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.5
스웨덴	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5
스위스	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
튀르키예	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.4
영국	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.6
CIS	0.3	0.4	0.5	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
러시아	-	-	-	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6
중동	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1
아프리카	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7
아시아·태평양	0.6	0.7	0.9	1.2	1.6	1.9	2.4	3.0	3.9	6.2	9.6
호주	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
중국	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.8	1.5	3.1	5.5
인도	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.8
인도네시아	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4
일본	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8
말레이시아	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
뉴질랜드	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4
필리핀	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.4	0.4	0.4	0.5
한국	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
태국	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
베트남	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2

자료: Energy Institute, 2025 Statistical Review of World Energy

3-16. Renewable Energy Consumption by Country

Unit: Exajoules

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
30.6	32.3	34.6	36.5	38.3	40.5	43.0	45.3	48.8	100.0%	World
15.7	16.4	17.1	17.6	18.4	19.0	19.8	20.5	21.4	43.9%	OECD
14.8	15.9	17.5	18.8	19.9	21.5	23.2	24.8	27.3	56.1%	Non-OECD
5.0	5.1	5.4	5.6	5.9	6.1	6.1	6.5	6.7	13.8%	European Union
6.9	7.3	7.3	7.4	7.5	7.8	8.3	8.4	8.7	17.9%	North America
1.7	1.8	1.7	1.7	1.7	1.7	1.8	1.7	1.7	3.4%	Canada
0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.9%	Mexico
4.8	5.1	5.2	5.3	5.3	5.6	6.0	6.2	6.7	13.6%	US
4.4	4.6	4.8	5.0	5.0	4.9	5.3	5.6	5.8	11.8%	S. & Cent. America
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5%	Argentina
2.8	2.8	3.0	3.2	3.2	3.1	3.4	3.6	3.7	7.7%	Brazil
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.6%	Chile
0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.6%	Colombia
0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5%	Venezuela
7.2	7.3	7.9	8.3	8.8	9.0	9.0	9.5	10.0	20.4%	Europe
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.6%	Austria
0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.5%	Finland
0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	1.5%	France
1.2	1.3	1.3	1.4	1.4	1.3	1.4	1.5	1.5	3.1%	Germany
0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5%	Iceland
0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	1.7%	Italy
0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.6%	Netherlands
0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	1.2%	Norway
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.6%	Poland
0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	1.5%	Spain
0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	1.1%	Sweden
0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.4%	Switzerland
0.5	0.5	0.6	0.8	0.8	0.8	0.9	0.9	1.0	2.1%	Turkey
0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.9	1.9%	United Kingdom
0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.1	2.2%	CIS
0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	1.7%	Russian Federation
0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.6%	Middle East
0.7	0.7	0.8	0.9	0.9	0.9	1.0	1.1	1.1	2.2%	Africa
10.4	11.4	12.7	13.8	15.0	16.7	18.3	19.4	21.9	44.8%	Asia Pacific
0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.8%	Australia
6.0	6.7	7.4	8.2	9.0	10.1	11.1	12.0	13.9	28.5%	China
0.9	0.9	1.1	1.2	1.3	1.4	1.6	1.6	1.8	3.6%	India
0.6	0.6	0.8	0.9	1.1	1.1	1.3	1.4	1.5	3.0%	Indonesia
0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.3	2.6%	Japan
0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.4%	Malaysia
0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9%	New Zealand
0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	1.0%	Philippines
0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.8%	South Korea
0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6%	Thailand
0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.5	1.0%	Vietnam

Source: Energy Institute, 2025 Statistical Review of World Energy



3-17. 국가별 수력 소비

단위: 엑사줄

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	3.3	4.2	5.2	6.2	7.1	7.8	8.9	9.5	10.5	12.3	14.0
OECD	2.6	3.1	3.7	4.0	4.4	4.4	4.9	5.0	4.8	5.1	5.2
비OECD	0.7	1.1	1.5	2.2	2.8	3.3	4.1	4.5	5.6	7.3	8.8
유럽연합	0.8	0.8	1.0	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.2
북미	1.2	1.5	1.9	2.0	2.2	2.2	2.4	2.4	2.4	2.3	2.4
캐나다	0.4	0.6	0.7	0.9	1.1	1.1	1.2	1.3	1.3	1.3	1.4
멕시코	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
미국	0.7	0.9	1.1	1.0	1.0	1.1	1.1	1.0	1.0	0.9	0.9
중남미	0.1	0.2	0.4	0.7	1.0	1.3	1.7	2.0	2.2	2.5	2.4
아르헨티나	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
브라질	0.1	0.1	0.3	0.5	0.6	0.7	0.9	1.1	1.2	1.5	1.3
칠레	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
콜롬비아	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
에콰도르	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
페루	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
베네수엘라	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3
유럽	1.1	1.2	1.4	1.6	1.7	1.8	2.0	2.2	2.1	2.3	2.3
오스트리아	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
핀란드	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
프랑스	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2
독일	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
아이슬란드	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
이탈리아	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2
노르웨이	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.5
포르투갈	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
루마니아	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
스페인	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
스웨덴	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.3
스위스	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
튀르키예	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2
CIS	0.3	0.4	0.5	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
러시아	-	-	-	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6
중동	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1
이란	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
아프리카	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4
이집트	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
아시아-태평양	0.6	0.7	0.8	1.0	1.2	1.4	1.7	1.9	2.6	4.0	5.6
중국	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.8	1.4	2.6	4.0
인도	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5
인도네시아	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
일본	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
말레이시아	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
뉴질랜드	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
파키스탄	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
한국	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
베트남	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2

자료: Energy Institute, 2025 Statistical Review of World Energy

3-17. Hydro Energy Consumption by Country

Unit: Exajoules

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
14.5	14.6	15.1	15.3	15.7	15.5	15.6	15.3	16.0	100.0%	World
5.3	5.2	5.4	5.2	5.4	5.2	5.0	5.0	5.2	32.3%	OECD
9.2	9.4	9.7	10.0	10.3	10.2	10.6	10.3	10.8	67.7%	Non-OECD
1.2	1.1	1.2	1.1	1.2	1.3	1.0	1.2	1.3	8.3%	European Union
2.4	2.6	2.5	2.5	2.5	2.4	2.5	2.2	2.2	13.6%	North America
1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.2	7.7%	Canada
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%	Mexico
0.9	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	5.4%	US
2.4	2.5	2.6	2.5	2.5	2.4	2.7	2.7	2.6	16.5%	S. & Cent. America
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7%	Argentina
1.4	1.3	1.4	1.4	1.4	1.3	1.5	1.5	1.5	9.3%	Brazil
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6%	Chile
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.2%	Colombia
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%	Ecuador
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7%	Peru
0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	1.6%	Venezuela
2.4	2.1	2.3	2.3	2.4	2.4	2.0	2.3	2.5	15.7%	Europe
0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	1.0%	Austria
0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.3%	Finland
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1.6%	France
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%	Germany
0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.3%	Iceland
0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	1.2%	Italy
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	3.1%	Norway
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3%	Portugal
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	Romania
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8%	Spain
0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	1.5%	Sweden
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.0%	Switzerland
0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	1.7%	Turkey
0.8	0.9	0.9	0.9	0.9	1.0	0.9	0.9	1.0	6.0%	CIS
0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.8	4.7%	Russian Federation
0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.5%	Middle East
0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.4%	Iran
0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	3.8%	Africa
0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3%	Egypt
5.9	6.0	6.2	6.4	6.7	6.7	6.9	6.5	7.0	43.8%	Asia Pacific
4.2	4.2	4.3	4.6	4.8	4.7	4.7	4.4	4.9	30.4%	China
0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.6	3.5%	India
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6%	Indonesia
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.8%	Japan
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8%	Malaysia
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5%	New Zealand
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.9%	Pakistan
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1%	South Korea
0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	2.0%	Vietnam

Source: Energy Institute, 2025 Statistical Review of World Energy

3-18. 국가별 에너지 부문 CO₂ 배출량단위: 백만톤 CO₂

	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015
세계	11,196.5	14,313.8	16,248.0	18,375.5	19,234.1	21,418.2	22,082.6	23,708.7	28,203.5	31,067.5	32,831.9
OECD	7,714.7	9,821.1	10,385.4	11,210.4	10,937.0	11,798.1	12,252.3	13,137.1	13,697.7	13,082.9	12,478.6
비OECD	3,481.7	4,492.8	5,862.6	7,165.1	8,297.1	9,620.1	9,830.3	10,571.7	14,505.8	17,984.6	20,353.3
유럽연합	2,629.2	3,342.5	3,598.9	3,946.8	3,793.3	3,833.5	3,596.6	3,544.9	3,686.0	3,389.3	3,046.4
북미	3,774.4	4,700.6	4,916.0	5,381.1	5,213.4	5,696.8	6,004.2	6,645.0	6,885.2	6,497.0	6,174.7
캐나다	260.3	344.9	398.1	440.6	403.5	444.8	471.5	533.1	555.5	544.0	555.9
멕시코	62.1	84.2	131.1	198.1	233.9	280.8	304.1	371.0	455.8	466.8	480.9
미국	3,451.9	4,271.5	4,386.8	4,742.4	4,576.0	4,971.2	5,228.6	5,740.9	5,873.9	5,486.2	5,137.8
중남미	308.6	398.7	500.4	610.1	592.7	661.7	797.0	926.3	1,019.3	1,197.9	1,374.5
아르헨티나	82.2	85.9	93.1	101.7	94.6	100.3	118.9	131.4	145.3	166.9	194.7
브라질	51.5	88.4	145.4	186.3	184.3	205.6	253.1	320.6	341.5	413.5	500.7
유럽	3,440.5	4,236.2	4,449.4	4,808.1	5,401.0	5,540.8	4,890.8	4,823.2	4,999.4	4,681.3	4,215.3
프랑스	342.2	443.4	464.2	491.9	384.9	366.7	363.0	384.8	390.5	361.4	308.9
독일	910.4	1,043.4	1,025.3	1,077.8	1,045.8	1,007.6	889.4	854.4	826.3	783.2	755.6
이탈리아	204.9	320.4	368.7	383.2	354.4	492.0	484.5	456.2	483.9	402.2	340.2
폴란드	253.0	312.8	380.1	465.9	457.7	373.5	341.3	299.8	306.8	320.8	290.1
스페인	80.4	121.1	168.4	208.2	194.4	214.6	247.9	311.0	374.4	296.0	286.9
튀르키예	25.1	39.3	60.7	74.7	100.4	136.2	161.1	205.7	224.8	276.3	341.1
영국	688.1	724.5	636.0	606.5	572.6	595.2	558.8	566.6	580.2	529.6	440.4
CIS	1,907.3	2,320.9	2,872.3	3,237.4	2,751.7	2,848.6	2,023.2	1,802.1	1,871.2	1,936.7	1,989.1
카자흐스탄	-	-	-	-	231.2	240.6	168.9	101.5	143.7	177.9	174.0
러시아	-	-	-	-	2,172.4	2,233.9	1,616.4	1,452.8	1,465.7	1,492.3	1,520.8
중동	132.0	169.8	224.4	340.6	532.9	673.1	897.4	1,051.3	1,339.4	1,697.2	2,013.4
이란	21.2	37.7	74.4	95.1	153.8	181.8	236.6	304.9	409.1	504.4	546.9
이라크	5.8	9.9	12.9	24.2	35.4	54.8	85.9	80.1	75.7	95.7	117.3
사우디아라비아	62.5	67.0	62.7	97.9	161.5	202.3	242.1	277.6	340.1	462.5	602.3
아랍에미리트	0.2	2.0	5.3	25.9	47.7	81.7	114.6	123.6	159.2	213.8	265.0
아프리카	198.1	233.9	313.6	427.4	579.3	659.0	717.8	789.6	936.2	1,093.4	1,240.5
알제리	5.6	8.3	15.5	38.5	57.6	65.4	65.2	62.6	76.9	94.6	129.0
이집트	22.9	20.3	27.6	45.1	72.5	86.5	93.6	118.7	144.2	182.3	206.3
남아프리카공화국	113.2	131.6	172.5	205.9	297.1	324.9	351.2	371.6	421.7	475.1	454.6
아시아·태평양	1,435.6	2,253.7	2,971.9	3,570.8	4,163.2	5,338.1	6,752.3	7,671.2	11,152.8	13,963.9	15,824.4
호주	118.8	155.3	191.9	224.3	237.7	279.7	307.7	355.1	382.9	402.0	407.6
중국	488.5	748.5	1,131.3	1,460.9	1,821.7	2,308.8	3,009.2	3,308.4	6,049.0	8,094.6	9,148.0
인도	167.3	189.7	252.8	310.3	409.0	602.1	773.4	959.9	1,203.5	1,644.5	2,120.5
인도네시아	20.1	22.6	36.9	68.8	86.5	132.4	193.4	264.2	333.6	423.1	470.6
일본	445.3	823.7	961.1	943.1	939.2	1,085.8	1,193.3	1,251.1	1,308.8	1,210.1	1,223.3
말레이시아	8.3	10.8	15.2	30.2	38.3	54.6	84.9	131.4	187.7	214.2	247.1
파키스탄	19.9	23.4	21.1	28.6	38.9	58.4	80.7	97.5	118.5	148.5	165.2
필리핀	15.3	23.8	30.4	35.5	28.0	40.4	59.9	69.0	72.5	79.6	106.1
싱가포르	13.1	23.9	23.5	30.1	37.1	69.6	98.6	107.1	128.7	190.2	210.9
한국	24.9	49.0	75.3	123.4	158.9	239.8	380.7	442.3	500.1	593.2	623.4
대만	18.8	27.6	41.8	73.6	73.7	120.1	169.0	232.4	264.2	268.1	275.8
태국	7.4	16.3	26.1	37.4	46.1	89.4	154.0	169.6	223.9	248.9	281.2
베트남	8.2	24.3	19.8	14.9	17.4	18.0	27.4	47.5	87.5	122.8	177.6

주: CO₂ 배출량은 석유·천연가스·석탄의 연소 관련 소비에서 발생한 배출량만 포함하며,탄소 격리본, 기타 CO₂ 배출원 및 다른 온실가스는 제외됨. 따라서 각국 공식 배출통계와 직접 비교하기 어려움.

자료: Energy Institute, 2025 Statistical Review of World Energy

3-18. CO₂ Emissions from Energy by Country

Unit: Million tonnes CO₂

2016	2017	2018	2019	2020	2021	2022	2023	2024	Share	
32,879.8	33,396.0	34,084.2	34,141.6	32,368.5	34,015.8	34,596.6	35,024.3	35,491.8	100.0%	World
12,407.7	12,465.1	12,559.5	12,178.8	10,917.7	11,535.9	11,624.7	11,141.7	11,072.2	31.2%	OECD
20,472.1	20,930.9	21,524.8	21,962.8	21,450.8	22,479.9	22,971.9	23,882.6	24,419.6	68.8%	Non-OECD
3,073.4	3,133.3	3,078.9	2,942.3	2,582.4	2,772.6	2,754.0	2,525.8	2,483.5	7.0%	European Union
6,075.2	6,044.7	6,195.3	6,027.6	5,388.0	5,711.5	5,798.5	5,640.7	5,619.5	15.5%	North America
540.2	554.1	567.9	560.3	500.5	509.1	522.6	521.6	522.5	1.5%	Canada
495.7	510.6	492.9	484.5	419.2	447.1	474.0	476.3	477.9	1.3%	Mexico
5,039.3	4,980.0	5,134.6	4,982.8	4,468.4	4,755.3	4,801.9	4,642.7	4,619.1	13.0%	US
1,343.8	1,325.1	1,287.4	1,273.1	1,124.6	1,252.9	1,276.0	1,287.6	1,294.5	3.6%	S. & Cent. America
193.8	190.2	186.5	173.4	159.2	179.8	189.8	184.2	177.1	0.5%	Argentina
461.8	466.7	447.5	447.4	417.7	466.8	443.4	448.1	446.7	1.3%	Brazil
4,257.0	4,327.4	4,271.4	4,097.7	3,646.4	3,885.4	3,806.8	3,550.6	3,525.9	9.9%	Europe
314.2	319.1	309.1	301.7	254.9	281.1	276.9	258.1	254.2	0.7%	France
767.4	774.4	746.2	693.9	617.5	654.4	648.4	576.7	569.7	1.6%	Germany
337.6	335.5	333.7	325.0	284.2	321.0	331.5	304.7	296.4	0.8%	Italy
303.2	316.0	320.7	302.5	284.3	310.3	294.0	268.1	257.1	0.7%	Poland
279.4	297.1	291.4	274.6	221.4	242.8	260.6	242.3	250.1	0.7%	Spain
359.2	404.2	401.8	394.0	384.6	420.7	420.1	414.8	437.9	1.2%	Turkey
414.7	404.2	396.9	380.6	324.0	339.5	339.1	326.2	321.2	0.9%	United Kingdom
2,021.7	2,021.3	2,107.0	2,083.3	1,985.8	2,070.4	2,166.4	2,203.8	2,255.7	6.4%	CIS
195.5	211.3	218.6	217.0	199.3	220.3	219.6	229.5	229.6	0.6%	Kazakhstan
1,529.3	1,516.9	1,573.3	1,557.1	1,459.8	1,510.8	1,597.3	1,631.8	1,681.1	4.7%	Russian Federation
2,078.0	2,096.1	2,103.7	2,111.3	2,048.0	2,125.5	2,225.7	2,289.1	2,330.7	6.6%	Middle East
567.2	575.8	602.3	629.2	654.8	671.9	692.9	709.4	709.0	2.0%	Iran
124.2	148.6	153.1	158.7	140.5	148.6	163.9	174.4	179.2	0.5%	Iraq
635.6	631.6	612.7	576.1	557.6	572.4	608.5	623.7	636.4	1.8%	Saudi Arabia
275.3	264.3	246.1	261.7	250.2	261.0	281.0	287.1	302.5	0.9%	United Arab Emirates
1,267.6	1,293.9	1,297.1	1,331.9	1,256.3	1,348.5	1,360.5	1,380.1	1,399.9	3.9%	Africa
127.7	130.7	137.3	142.4	132.7	144.5	150.2	160.1	156.4	0.4%	Algeria
217.1	221.0	219.0	210.6	189.6	208.6	221.4	217.9	226.2	0.6%	Egypt
473.7	470.0	449.3	470.9	451.0	444.6	423.6	432.6	432.2	1.2%	South Africa
15,836.5	16,287.4	16,822.4	17,216.7	16,919.4	17,621.6	17,962.8	18,672.5	19,065.7	53.7%	Asia Pacific
406.2	404.5	402.8	407.0	376.6	369.3	376.9	373.3	376.6	1.1%	Australia
8,998.7	9,239.3	9,570.6	9,890.9	10,082.7	10,470.9	10,504.5	11,007.5	11,172.8	31.5%	China
2,216.6	2,292.1	2,390.7	2,416.7	2,247.7	2,477.8	2,600.4	2,830.2	2,953.0	8.3%	India
461.7	494.3	518.1	557.5	514.0	525.4	696.0	696.5	746.9	2.1%	Indonesia
1,202.1	1,196.6	1,174.2	1,135.5	1,046.0	1,080.3	1,084.6	1,027.0	1,005.4	2.8%	Japan
252.5	241.3	251.3	255.9	251.3	259.3	284.8	284.1	296.3	0.8%	Malaysia
179.4	192.7	196.5	192.8	189.1	212.5	188.9	165.3	160.4	0.5%	Pakistan
116.1	128.5	133.0	139.9	126.6	134.3	141.2	152.9	163.6	0.5%	Philippines
225.6	236.8	233.7	226.4	211.4	213.8	213.3	231.4	247.9	0.7%	Singapore
640.2	650.3	675.6	648.7	600.4	623.2	616.4	601.4	594.8	1.7%	South Korea
281.0	287.1	284.7	278.9	265.6	280.8	272.8	265.0	263.0	0.7%	Taiwan
286.8	287.7	293.2	288.4	270.0	265.9	270.8	265.7	271.1	0.8%	Thailand
191.3	195.2	238.8	291.8	291.2	271.7	270.8	308.9	334.2	0.9%	Vietnam

Note: CO₂ emissions include only emissions from oil, natural gas and coal consumption for combustion-related activities, excluding sequestered carbon, other CO₂ sources and other greenhouse gases. Therefore, they are not directly comparable with official national emissions data.

Source: Energy Institute, 2025 Statistical Review of World Energy

04

주요 경제·사회 통계

Major Economic
and Social Statistics



04 주요 경제·사회 통계

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04 Major Economic and Social Statistics



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4-1. 주요 통계 지표

	추계인구 (천명)	추계가구 (천명)	국내총생산		
			당해년가격	2020년 연쇄가격	당해년가격
			(십억원)		(십억달러)
1990	42,869	11,244	206,713	495,738	292
1991	43,296	11,549	249,965	549,650	340
1992	43,748	11,896	286,437	584,561	366
1993	44,195	12,233	325,648	625,450	405
1994	44,642	12,586	384,997	684,066	478
1995	45,093	13,018	452,187	750,666	584
1996	45,525	13,241	507,768	810,647	629
1997	45,954	13,550	560,502	861,573	586
1998	46,287	13,839	556,787	819,021	393
1999	46,617	14,146	613,069	914,169	510
2000	47,008	14,507	675,733	998,289	594
2001	47,370	14,775	732,723	1,045,468	564
2002	47,645	15,110	813,225	1,126,429	648
2003	47,892	15,434	868,111	1,161,063	726
2004	48,083	15,732	942,885	1,221,249	822
2005	48,185	16,039	995,176	1,274,473	965
2006	48,438	16,322	1,045,663	1,341,320	1,091
2007	48,684	16,602	1,134,541	1,419,679	1,218
2008	49,055	16,883	1,202,973	1,462,332	1,091
2009	49,308	17,168	1,255,305	1,474,321	982
2010	49,554	17,495	1,379,460	1,577,253	1,195
2011	49,937	17,879	1,448,576	1,635,423	1,315
2012	50,200	18,119	1,504,674	1,677,088	1,349
2013	50,429	18,388	1,570,938	1,732,287	1,443
2014	50,747	18,705	1,638,485	1,787,975	1,563
2015	51,015	19,013	1,740,776	1,840,189	1,543
2016	51,218	19,281	1,833,027	1,898,551	1,585
2017	51,362	19,571	1,934,234	1,963,732	1,717
2018	51,585	19,876	2,006,975	2,026,102	1,831
2019	51,765	20,220	2,040,594	2,072,982	1,765
2020	51,836	20,731	2,058,467	2,058,466	1,759
2021	51,770	21,273	2,221,913	2,153,423	1,962
2022	51,673	21,664	2,323,782	2,212,159	1,820
2023	51,713	21,971	2,408,687	2,247,178	1,872
2024	51,751	22,180	2,556,857	2,292,202	1,902
	Population (Thou. Persons)	Household (Thou. Households)	At Current Prices	At Chained 2020 Prices	At Current Prices (Bil. USD)
			GDP(Bil. KRW)		

자료: 국가데이터처

4-1. Indicators and Statistics

국민총소득		1인당 명목 GNI		대미달러		
당해년가격	2020년 연쇄가격			연평균	기말	
(십억원)		(만원)	(달러)	(원)		
206,512	560,880	482	6,804	708.0	716.4	1990
249,718	622,725	577	7,862	733.6	760.8	1991
286,069	661,776	654	8,374	780.8	788.4	1992
325,227	710,351	736	9,167	802.7	808.1	1993
384,058	777,416	860	10,705	803.6	788.7	1994
450,583	846,834	999	12,959	771.0	774.7	1995
506,047	904,244	1,112	13,812	804.8	844.2	1996
557,591	943,160	1,213	12,757	951.1	1,415.2	1997
549,834	872,464	1,188	8,492	1,398.9	1,207.8	1998
606,546	967,269	1,301	10,939	1,189.5	1,145.4	1999
671,372	1,033,455	1,428	12,632	1,130.6	1,259.7	2000
727,938	1,073,365	1,537	11,905	1,290.8	1,326.1	2001
810,313	1,167,443	1,701	13,592	1,251.2	1,200.4	2002
865,189	1,198,482	1,807	15,157	1,191.9	1,197.8	2003
941,311	1,248,797	1,958	17,103	1,144.7	1,043.8	2004
988,413	1,282,430	2,051	20,026	1,024.3	1,013.0	2005
1,042,726	1,333,091	2,153	22,529	955.5	929.6	2006
1,131,779	1,407,233	2,325	25,019	929.2	938.2	2007
1,203,266	1,412,810	2,453	22,247	1,102.6	1,257.5	2008
1,253,438	1,449,570	2,542	19,916	1,276.4	1,167.6	2009
1,381,436	1,557,956	2,788	24,110	1,156.3	1,138.9	2010
1,457,173	1,584,315	2,918	26,334	1,108.1	1,153.3	2011
1,519,752	1,632,613	3,027	26,865	1,126.9	1,071.1	2012
1,580,504	1,696,556	3,134	28,621	1,095.0	1,055.3	2013
1,646,049	1,755,430	3,244	30,797	1,053.2	1,099.2	2014
1,745,962	1,870,222	3,422	30,247	1,131.5	1,172.0	2015
1,839,391	1,956,502	3,591	30,946	1,160.5	1,208.5	2016
1,941,717	2,019,724	3,780	33,431	1,130.8	1,071.4	2017
2,014,589	2,059,131	3,905	35,494	1,100.3	1,118.1	2018
2,057,204	2,072,357	3,974	34,094	1,165.7	1,157.8	2019
2,075,410	2,075,410	4,004	33,929	1,180.1	1,088.0	2020
2,245,327	2,154,357	4,337	37,898	1,144.4	1,185.5	2021
2,351,837	2,143,108	4,551	35,229	1,292.0	1,267.3	2022
2,443,362	2,186,579	4,725	36,195	1,305.4	1,289.4	2023
2,593,762	2,272,601	5,012	36,745	1,364.0	1,470.0	2024
At Current Prices (Bil. KRW)	At Chained 2020 Prices(Bil. KRW)	Per Capita GNI		Average	End of	
				Exchange Rates (KRW/USD)		
GNI		(10,000KRW)	(USD)			

Source: Ministry of Data and Statistics

4-2. 수출입액 및 경상수지

단위: 백만달러

	총수출액 ¹	총수입액 ¹	경상수지	에너지수입액	석탄 ²		
						무연탄	유연탄
1990	65,016	69,844	-2,804	8,209	1,288	52	1,217
1991	71,870	81,525	-8,034	9,921	1,600	66	1,514
1992	76,632	81,775	-2,901	14,281	1,616	42	1,535
1993	82,236	83,800	1,688	14,970	1,733	40	1,643
1994	96,013	102,348	-4,794	15,228	1,777	33	1,695
1995	125,058	135,119	-10,230	18,643	2,081	35	1,992
1996	129,715	150,339	-24,461	24,003	2,337	46	2,251
1997	136,164	144,616	-10,812	26,981	2,399	38	2,301
1998	132,313	93,282	40,113	18,092	2,229	36	2,147
1999	143,685	119,752	21,785	22,543	1,966	46	1,866
2000	172,268	160,481	10,181	37,622	2,186	72	2,033
2001	150,439	141,098	2,165	33,652	2,347	118	2,157
2002	162,471	152,126	4,066	31,997	2,475	148	2,254
2003	193,817	178,827	11,308	37,982	2,552	177	2,266
2004	253,845	224,463	29,290	49,075	4,438	233	3,891
2005	284,419	261,238	12,209	66,238	5,443	429	4,803
2006	325,465	309,383	2,095	84,905	5,318	407	4,700
2007	371,489	356,846	10,473	94,306	6,445	447	5,675
2008	422,007	435,275	1,753	139,298	12,810	991	11,156
2009	363,534	323,085	33,088	90,259	9,995	672	8,997
2010	466,384	425,212	27,951	119,060	13,131	1,016	11,425
2011	555,214	524,413	16,638	170,497	18,477	1,774	16,052
2012	547,870	519,584	48,791	182,287	16,069	1,361	14,221
2013	559,632	515,586	77,259	176,561	13,074	1,143	11,624
2014	572,665	525,515	83,030	170,140	12,114	921	10,723
2015	526,757	436,499	105,119	100,433	9,961	813	8,675
2016	495,426	406,193	97,924	79,953	9,310	759	8,168
2017	573,694	478,478	75,231	107,921	15,179	933	13,481
2018	604,860	535,202	77,467	143,285	16,703	1,199	14,668
2019	542,233	503,343	59,676	124,844	14,209	927	13,062
2020	512,498	467,633	76,503	85,455	9,596	611	8,805
2021	644,400	615,093	83,879	135,935	14,699	889	13,485
2022	683,585	731,370	23,238	216,409	28,332	1,661	26,231
2023	632,226	642,572	32,530	171,437	20,178	1,005	18,893
2024	683,609	631,767	99,974	161,342	16,488	845	15,423
	Export ¹	Import ¹	Current Account Balance	Energy Import	Coal ²	Anthracite	Bituminous

1. 통관기준

2. 코크스단, 연료탄, 기타석탄 포함.

자료: 통계청, 한국무역협회, 한국석유공사

4-2. Exports, Imports and Current Account

Unit: Million USD

석유			천연가스	우라늄	석유제품 수출액	
	원유	제품				
6,462	6,462	-	460	-	-	1990
7,835	7,835	-	485	0	-	1991
12,104	9,522	2,582	562	-	1,707	1992
12,421	9,432	2,989	781	35	1,787	1993
12,385	9,233	3,152	961	105	1,596	1994
15,265	11,266	3,999	1,275	22	2,313	1995
19,787	14,924	4,863	1,878	0	3,728	1996
22,204	17,879	4,325	2,296	82	5,232	1997
14,163	11,302	2,860	1,549	152	4,448	1998
18,435	14,943	3,492	1,973	170	5,657	1999
31,416	25,414	6,001	3,882	138	9,381	2000
27,097	21,620	5,477	3,990	218	7,783	2001
25,140	19,449	5,690	4,120	262	6,454	2002
30,104	23,394	6,710	5,082	243	6,653	2003
37,770	30,100	7,670	6,552	315	10,173	2004
51,883	43,088	8,796	8,646	265	15,364	2005
67,352	56,065	11,287	11,925	311	20,602	2006
74,762	60,609	14,152	12,653	446	23,481	2007
106,015	85,184	20,831	19,806	667	37,177	2008
65,706	50,880	14,826	13,875	684	22,720	2009
89,777	68,897	20,880	15,588	564	30,194	2010
127,413	100,335	27,078	23,859	748	49,584	2011
138,218	107,070	31,147	27,364	635	54,039	2012
131,866	99,490	32,376	30,645	976	50,742	2013
125,934	94,512	31,423	31,403	688	49,093	2014
70,875	54,909	15,967	18,779	817	30,203	2015
57,937	44,540	13,397	12,170	536	24,623	2016
76,185	60,075	16,110	15,616	941	32,654	2017
102,856	80,521	22,335	23,189	538	43,346	2018
89,362	70,478	18,885	20,567	707	38,191	2019
59,417	44,793	14,624	15,716	725	22,922	2020
95,039	68,771	26,268	25,453	744	36,088	2021
137,603	107,255	30,348	50,022	451	61,158	2022
114,109	87,734	26,375	36,049	1,101	50,238	2023
114,243	86,309	27,935	29,272	1,338	48,201	2024
Petroleum	Crude Oil	Products	LNG	Uranium	Exports of Petroleum Products	

1. Based on customs clearance

2. Includes brown coal, peat and others.

Sources: Statistics Korea, Korea International Trade Association, Korea National Oil Corporation

4-3. 경제활동별 국내총생산(2020년 기준 연쇄가격)

단위: 십억원

	농림어업	광업	제조업	음식료품 제조업	섬유 및 가죽 제품제조업	목재, 종이, 인쇄 및 복제업	코크스 및 석유정제품 제조업	화학물질 및 화학제품 제조업
1990	24,083	3,851	93,025	12,020	19,502	7,528	3,770	17,073
1991	24,852	3,924	106,445	13,231	19,015	8,192	12,726	17,602
1992	27,086	3,465	113,154	13,498	18,321	8,657	14,620	20,066
1993	25,941	3,452	121,346	14,005	16,611	8,720	18,213	21,420
1994	25,969	3,802	135,791	14,875	16,743	9,904	12,860	25,831
1995	27,746	3,740	153,983	15,173	16,037	10,328	13,513	29,414
1996	28,824	3,725	167,589	16,029	16,085	10,347	16,901	31,282
1997	30,065	3,674	177,930	16,281	16,503	10,852	31,177	32,570
1998	27,787	2,987	164,906	15,163	14,422	9,260	28,822	32,467
1999	29,223	3,190	197,154	15,592	17,764	10,946	25,986	37,693
2000	29,266	3,179	228,534	16,799	18,771	11,161	24,386	40,508
2001	29,374	3,220	235,202	16,812	18,764	10,790	23,884	43,714
2002	28,458	3,206	256,940	17,718	19,852	11,865	22,062	48,469
2003	26,710	3,287	269,225	17,468	18,143	11,748	22,653	48,633
2004	28,782	3,197	296,519	17,862	17,295	11,444	25,725	53,632
2005	28,958	3,129	311,370	17,824	17,476	11,525	24,314	54,811
2006	29,652	3,095	335,393	18,053	18,265	11,947	24,169	57,651
2007	31,172	2,880	361,881	18,414	18,842	12,073	21,685	61,696
2008	33,227	2,877	373,881	18,874	19,545	12,461	21,651	62,835
2009	34,759	2,811	367,654	18,437	18,405	13,040	18,205	65,183
2010	33,496	2,530	419,224	18,623	20,616	13,645	18,034	73,477
2011	33,149	2,209	440,819	18,484	20,825	13,773	18,747	75,416
2012	32,985	2,128	448,531	20,074	22,173	13,742	16,605	75,297
2013	34,374	2,222	464,239	21,971	22,986	13,711	15,930	78,470
2014	36,128	2,229	479,769	22,713	23,351	14,205	16,137	79,656
2015	36,036	2,025	488,241	23,139	21,683	14,210	16,051	82,686
2016	33,666	2,167	498,369	23,334	19,597	15,160	16,191	84,723
2017	34,087	2,069	519,574	24,369	19,911	14,369	15,806	87,699
2018	33,823	1,909	537,181	25,174	18,966	14,550	14,135	89,284
2019	34,809	1,795	539,843	26,389	17,681	14,353	11,162	88,822
2020	32,482	1,737	529,031	27,177	17,193	14,214	2,772	89,202
2021	33,599	1,975	563,295	28,567	16,742	14,383	8,175	91,237
2022	33,866	1,785	577,228	31,959	16,834	14,359	9,018	92,238
2023	33,240	1,748	585,750	30,703	14,448	13,471	8,651	93,020
2024	33,453	1,621	610,926	31,815	14,715	13,569	9,040	98,091
	Agriculture, Forestry & Fishing	Mining & Quarrying	Manufacturing	Food, Beverages Products	Textile and Leather Products	Wood and Paper Products, Printing and Reproduction of Recorded Media	Coke and Refined Petroleum Products	Chemicals and Chemical Products

자료: 한국은행

4-3. Gross Domestic Product by Economic Activity(At Chained 2020 Prices)

Unit: Billion KRW

비금속광물 제품 제조업	1차금속 제조업	금속가공제품 제조업	컴퓨터, 전자 및 광학기기 제조업	전기장비 제조업	기계 및 장비 제조업	운송장비 제조업	기타제조업 및 산업용 장비 수리업	
5,420	12,248	7,134	4,654	3,500	6,015	11,803	5,907	1990
5,975	13,097	8,680	4,991	3,695	7,335	13,726	6,200	1991
6,506	14,242	7,448	5,368	3,974	7,433	15,883	5,899	1992
6,576	14,561	9,892	6,138	4,524	8,170	18,022	5,958	1993
6,874	15,310	11,401	7,492	5,458	10,344	21,638	5,995	1994
6,437	17,600	13,330	9,839	6,391	13,899	24,029	5,943	1995
7,216	18,193	15,453	10,547	7,584	16,073	27,903	6,092	1996
7,095	18,445	16,323	10,895	8,287	16,419	29,625	6,104	1997
5,522	16,715	14,330	13,803	7,668	10,687	21,988	5,187	1998
6,764	18,595	15,983	17,666	10,356	14,063	29,001	6,016	1999
7,620	20,193	18,827	23,585	13,460	17,591	33,874	6,786	2000
8,071	21,282	19,020	25,203	13,555	17,196	34,355	6,300	2001
8,245	23,130	20,289	28,772	15,018	19,754	37,310	6,509	2002
8,712	22,950	22,816	32,587	16,073	21,693	38,910	6,651	2003
8,856	25,316	25,606	39,468	17,099	23,936	42,651	6,301	2004
8,814	25,314	28,555	43,605	18,297	25,605	46,062	6,635	2005
9,085	24,447	29,842	50,382	19,529	28,179	52,988	7,241	2006
9,473	25,466	32,403	57,823	20,819	30,922	58,813	8,008	2007
9,844	23,432	29,536	62,337	21,184	33,162	64,790	8,436	2008
9,949	23,388	26,843	66,200	22,200	30,725	55,786	8,332	2009
10,712	27,305	30,144	78,670	26,467	37,282	63,217	8,841	2010
10,720	28,321	31,270	85,696	26,709	39,650	69,132	9,414	2011
10,402	27,361	33,807	89,417	27,483	41,040	68,491	10,141	2012
11,007	28,059	33,268	95,242	28,631	42,068	69,328	10,765	2013
10,978	29,793	35,510	100,145	29,561	42,998	69,398	12,072	2014
11,584	29,915	38,373	103,763	28,383	43,174	68,447	13,009	2015
12,185	29,914	38,399	113,271	26,722	41,718	69,150	12,589	2016
13,525	30,533	38,522	121,003	29,782	49,983	64,497	13,820	2017
13,530	29,564	38,039	135,656	31,571	50,027	63,937	14,291	2018
12,786	29,956	37,716	142,236	31,970	49,503	64,435	12,898	2019
12,317	29,103	35,445	150,008	31,875	49,295	57,779	12,651	2020
12,335	27,581	30,688	169,273	35,120	55,209	61,377	12,606	2021
11,819	22,710	26,841	180,095	36,964	58,725	68,142	12,187	2022
10,834	23,850	26,875	188,167	36,053	54,698	79,664	10,995	2023
10,628	24,036	27,158	208,072	34,623	55,456	82,912	11,220	2024
Non- Metallic Mineral Products	Basic Metals	Fabricated Metal Products	Computer, Electronic and Optical Products	Electrical Equipment	Machinery and Equipment	Transportation Equipment	Other Manufacturing, Repair and Installation of Machinery and Equipment	

Source: Bank of Korea

4-3. 경제활동별 국내총생산(2020년 기준 연쇄가격)(계속)

단위: 십억원

	전기, 가스, 수도사업	건설업	서비스업	도소매 및 숙박음식업	운수업	금융 및 보험업	부동산업
1990	7,861	69,256	265,754	70,328	17,312	16,290	37,184
1991	8,730	77,289	293,738	76,702	18,751	18,932	41,387
1992	9,845	76,003	317,346	80,751	20,015	21,390	45,460
1993	11,105	82,761	343,890	86,169	20,567	25,141	49,895
1994	12,590	86,571	376,248	93,071	22,211	28,025	54,794
1995	13,488	91,158	410,290	99,848	24,328	31,874	60,062
1996	14,970	97,045	443,386	106,389	26,312	33,685	65,997
1997	16,412	97,921	476,377	110,389	28,945	34,792	73,881
1998	16,576	86,709	467,021	100,899	27,445	33,169	80,412
1999	18,366	80,225	513,657	117,692	32,051	35,847	84,372
2000	20,431	76,445	554,190	127,392	35,762	35,267	92,042
2001	21,677	80,596	585,737	134,101	37,643	38,253	94,546
2002	23,530	83,641	635,774	141,938	39,190	47,364	97,513
2003	24,543	91,105	651,045	138,354	39,934	47,169	100,817
2004	26,252	92,890	672,212	138,713	42,242	47,102	104,935
2005	28,195	93,001	703,075	141,427	43,951	50,239	110,054
2006	29,134	93,852	737,213	146,942	46,070	52,567	114,648
2007	30,340	96,250	780,807	155,238	49,401	59,164	117,486
2008	31,845	93,132	810,694	158,341	52,250	62,884	121,836
2009	33,635	94,542	824,841	158,213	50,206	66,531	123,018
2010	35,171	91,098	866,598	169,052	57,341	68,609	123,826
2011	35,655	86,752	899,788	176,932	60,348	70,259	127,563
2012	36,612	86,422	930,436	183,975	64,083	73,757	128,315
2013	36,149	90,260	963,220	190,956	65,562	76,791	128,856
2014	37,427	91,965	992,236	193,601	67,136	81,354	133,279
2015	39,952	97,544	1,023,286	199,431	68,980	87,195	136,409
2016	39,796	107,973	1,058,132	205,088	69,837	88,583	142,831
2017	42,052	115,098	1,088,066	209,812	72,166	92,106	147,477
2018	41,538	112,698	1,133,653	215,947	75,569	97,218	152,403
2019	43,129	110,744	1,176,690	224,177	77,008	100,168	155,442
2020	45,605	110,255	1,171,666	214,871	66,604	110,016	161,030
2021	46,403	109,318	1,222,603	219,694	73,635	117,412	163,741
2022	48,021	110,255	1,269,071	231,974	82,748	120,646	160,448
2023	46,767	109,562	1,303,096	225,315	96,657	121,471	161,592
2024	48,309	105,421	1,324,201	222,021	105,153	125,704	164,810
	Electricity, Gas & Water Supply	Construction	Services	Wholesale and Retail Trade, Accommodation and Food Services	Transportati on and Storage	Finance and Insurance	Real Estate

자료: 한국은행



4-3. Gross Domestic Product by Economic Activity(At Chained 2020 Prices, Continued)

Unit: Billion KRW

정보통신업	사업 서비스업	공공행정, 국방 및 사회보장	교육 서비스업	의료, 보건업 및 사회복지서비스 업	문화 및 기타 서비스업	총부가가치 (기초가격)	국내총생산 (시장가격)	
5,185	27,563	40,713	39,012	17,603	14,394	447,545	495,738	1990
6,152	32,003	43,677	40,691	19,486	16,014	497,101	549,650	1991
7,025	35,622	46,759	42,510	21,058	17,421	530,136	584,561	1992
7,992	38,950	49,924	44,224	22,657	19,013	568,757	625,450	1993
9,666	43,602	52,598	46,209	25,058	21,623	620,826	684,066	1994
11,377	48,595	54,797	48,135	27,149	24,098	681,183	750,666	1995
13,781	53,332	58,450	49,877	28,368	26,537	735,303	810,647	1996
15,962	59,246	61,973	51,432	30,632	28,741	782,149	861,573	1997
16,797	54,385	64,369	51,114	29,543	26,925	746,767	819,021	1998
21,015	55,675	67,931	52,770	31,265	30,085	830,274	914,169	1999
27,428	60,922	68,903	54,389	31,264	32,903	905,712	998,289	2000
32,815	63,535	70,335	57,436	30,088	35,778	947,783	1,045,468	2001
38,384	70,376	72,634	61,033	32,270	39,927	1,023,567	1,126,429	2002
40,947	76,391	75,211	64,434	34,443	39,547	1,056,314	1,161,063	2003
44,763	79,786	78,056	66,791	36,725	39,265	1,111,882	1,221,249	2004
49,132	83,431	81,403	68,777	39,357	40,703	1,160,377	1,274,473	2005
51,616	89,024	84,818	72,215	41,970	43,321	1,222,059	1,341,320	2006
53,454	96,246	87,552	74,783	45,797	46,287	1,297,657	1,419,679	2007
55,484	101,188	89,822	77,556	47,690	47,651	1,341,155	1,462,332	2008
57,398	101,712	93,532	78,420	51,542	47,997	1,352,853	1,474,321	2009
59,489	109,257	96,576	79,866	55,163	50,578	1,446,671	1,577,253	2010
62,558	113,717	99,460	82,041	59,046	50,657	1,499,369	1,635,423	2011
64,846	116,234	103,021	83,657	63,430	50,910	1,538,317	1,677,088	2012
68,188	124,016	105,567	85,700	67,563	51,311	1,591,989	1,732,287	2013
69,212	130,492	108,619	86,198	72,568	51,038	1,641,590	1,787,975	2014
70,109	137,233	111,737	86,636	76,074	50,425	1,688,389	1,840,189	2015
74,395	142,040	114,483	87,579	81,842	52,497	1,740,196	1,898,551	2016
77,209	144,385	117,515	88,424	87,351	52,463	1,801,131	1,963,732	2017
81,243	150,911	121,395	90,659	94,719	54,447	1,861,421	2,026,102	2018
85,576	156,316	126,186	91,936	104,356	56,332	1,907,158	2,072,982	2019
89,215	156,653	129,851	90,436	106,035	46,955	1,890,776	2,058,466	2020
97,514	159,604	134,868	95,484	112,371	48,283	1,977,193	2,153,423	2021
99,787	163,453	139,003	98,708	119,255	52,244	2,040,141	2,212,159	2022
104,404	170,792	141,575	99,980	122,756	56,690	2,081,561	2,247,178	2023
104,960	169,644	144,757	101,155	127,460	57,543	2,124,455	2,292,202	2024
Information and Communicat ion	Business Activities	Public Administration, Defence and Social Security	Education	Human Health and Social Work	Cultural and Other Services	Gross Value Added at Basic Prices	GDP at Market Prices	

Source: Bank of Korea

4-4. 산업생산지수

2020=100

	총지수	광업	석탄, 원유 및 천연가스 광업	금속 광업	비금속광물 광업 :연료용 제외	제조업	식료품	음료
1990	19.8	248.7	2,111.1	132.1	134.3	19.6	63.8	43.1
1991	21.7	256.2	1,824.3	125.2	158.0	21.5	67.9	50.9
1992	23.0	224.4	1,474.9	126.4	144.1	22.8	67.7	56.9
1993	24.1	213.8	1,171.8	91.5	151.7	23.8	67.5	61.3
1994	26.7	216.6	945.4	57.3	168.9	26.4	71.2	72.4
1995	29.9	205.7	742.8	57.2	168.7	29.6	72.9	68.5
1996	32.5	204.7	659.4	71.5	168.1	32.1	76.2	72.5
1997	34.1	198.0	605.7	75.9	162.6	33.5	74.6	73.9
1998	31.9	153.2	577.1	58.4	123.8	31.4	68.2	64.9
1999	39.7	166.2	548.1	49.3	137.0	39.3	72.9	76.3
2000	46.4	163.6	549.9	40.4	135.4	46.1	75.2	78.0
2001	46.7	163.4	505.2	23.5	138.0	46.2	78.6	85.2
2002	50.4	170.2	441.4	39.0	145.1	49.9	81.2	86.3
2003	53.2	168.7	438.9	34.1	144.2	52.7	79.8	84.6
2004	58.7	162.9	430.3	44.8	137.9	58.3	81.5	86.1
2005	62.5	150.1	377.8	43.3	127.6	62.0	81.3	84.9
2006	67.7	143.9	352.7	49.0	122.9	67.4	82.7	84.4
2007	72.4	137.4	310.1	74.0	118.6	72.2	82.8	86.4
2008	74.8	123.6	248.4	67.0	110.0	74.6	80.8	89.0
2009	74.7	132.0	336.8	52.9	110.8	74.4	80.5	84.3
2010	86.9	122.5	329.9	95.9	98.4	86.9	85.3	88.7
2011	92.1	128.0	302.2	119.8	106.7	92.1	87.0	91.8
2012	93.4	122.2	297.5	104.0	101.3	93.4	88.3	95.9
2013	94.0	127.2	284.4	94.3	108.6	94.0	88.5	96.5
2014	94.2	117.1	234.6	95.8	102.6	94.2	89.5	97.6
2015	94.0	118.9	194.9	75.6	109.6	94.0	91.1	100.4
2016	96.0	122.9	188.7	71.9	115.3	96.1	93.5	104.1
2017	98.5	119.2	168.5	63.6	113.8	98.4	93.7	106.1
2018	99.9	106.4	143.1	79.3	102.2	99.7	94.8	105.8
2019	100.3	101.5	122.1	74.2	99.6	100.2	98.4	104.2
2020	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2021	108.5	101.6	88.2	86.8	103.2	108.7	100.2	99.8
2022	109.6	93.3	80.5	77.7	94.9	109.8	102.4	106.9
2023	106.9	92.3	67.6	80.1	94.1	106.9	98.0	100.7
2024	111.2	81.6	53.4	69.3	83.7	111.6	100.0	101.5
	Total Index	Mining and Quarrying	Coal, Crude Oil and Natural Gas	Metal Ores	Non-Metallic Minerals, Except Fuel	Manufacturing	Food	Beverages

자료: 국가데이터처

4-4. Industrial Production Index

2020=100

담배	섬유제품	의복, 의복액세서리 및 모피제품	가죽, 가방 및 신발	목재 및 나무제품	펄프, 종이 및 종이제품	인쇄 및 기록매체 복제	
56.6	354.6	276.9	1,793.2	194.1	53.1	105.5	1990
57.2	350.2	263.0	1,668.7	210.1	55.2	108.1	1991
59.2	339.4	239.7	1,543.2	200.0	58.7	126.0	1992
60.7	311.2	204.6	1,178.7	166.1	63.5	124.1	1993
57.7	309.6	213.1	998.4	171.3	71.0	140.9	1994
55.8	301.1	217.3	849.3	168.4	75.9	167.8	1995
60.0	286.7	210.8	726.8	169.3	80.0	166.1	1996
61.3	268.2	167.6	615.3	170.1	83.4	159.7	1997
64.0	244.3	121.9	433.5	106.4	73.4	131.6	1998
60.8	260.6	132.8	436.6	134.4	81.7	133.0	1999
62.3	257.5	152.3	402.7	139.0	84.8	133.3	2000
62.0	230.9	140.3	380.3	149.0	84.3	130.8	2001
62.2	217.6	146.2	352.7	156.8	89.3	131.7	2002
81.1	193.2	128.1	304.2	158.3	89.4	121.3	2003
87.7	177.0	128.2	262.1	151.7	92.2	118.8	2004
70.6	155.0	135.2	236.6	145.1	92.7	111.2	2005
79.0	155.3	148.1	242.5	159.1	94.7	113.4	2006
82.1	153.3	157.2	237.9	155.3	97.2	113.2	2007
85.3	141.0	165.0	233.8	144.6	95.7	124.5	2008
85.0	133.1	160.2	206.1	128.0	93.0	110.3	2009
82.1	149.3	168.3	195.6	126.6	99.2	126.1	2010
83.4	151.5	169.3	197.8	123.4	101.5	115.7	2011
86.7	147.9	164.7	192.2	111.3	101.8	114.1	2012
79.2	145.7	157.6	218.2	117.5	104.2	109.4	2013
85.3	142.9	147.8	215.2	112.8	106.0	109.1	2014
79.1	134.0	142.1	203.2	117.1	104.8	106.3	2015
89.3	132.0	137.4	188.0	116.3	104.3	107.6	2016
97.0	127.6	136.1	166.7	121.4	102.3	108.4	2017
87.8	119.0	132.8	168.3	111.6	102.3	106.7	2018
95.7	112.0	124.1	145.4	101.9	100.9	101.3	2019
100.0	100.0	100.0	100.0	100.0	100.0	100.0	2020
93.2	101.6	103.6	101.6	100.7	101.9	101.6	2021
95.3	99.9	107.5	102.0	88.5	102.9	97.8	2022
96.7	91.9	88.7	86.4	77.8	98.3	94.2	2023
104.6	88.3	81.6	73.2	71.9	101.4	89.3	2024
Tobacco	Textiles	Wearing Apparel, Clothing Accessories and Fur Articles	Leather, Luggage and Footwear	Wood and of Products of Wood and Cork	Pulp, Paper and Paper Products	Printing and Reproduction of Recorded Media	

Source: Ministry of Data and Statistics



4-4. 산업생산지수(계속)

2020=100

제조업								
	코크스, 연탄 및 석유정제품	화학물질 및 화학제품	의약품 물질 및 의약품	고무제품 및 플라스틱제품	비금속 광물제품	1차 금속	금속 가공제품	전자부품, 컴퓨터, 영상, 음향 및 통신 장비
1990	28.5	20.0	16.9	52.7	61.7	38.0	75.9	1.4
1991	35.8	23.5	18.8	57.1	71.6	42.1	81.7	1.6
1992	44.9	29.2	19.7	60.5	76.3	44.1	78.0	1.7
1993	48.7	32.0	20.9	63.1	77.0	49.1	81.6	2.0
1994	49.7	34.7	22.8	68.3	82.8	53.2	90.1	2.4
1995	56.1	37.1	24.5	71.7	87.7	58.4	101.2	3.2
1996	65.4	41.7	27.4	76.0	92.9	62.0	106.9	3.9
1997	79.6	47.6	29.2	77.5	94.5	65.6	109.4	4.7
1998	71.3	47.0	25.8	61.3	72.6	57.7	85.9	6.2
1999	77.6	52.0	28.2	72.1	78.0	65.8	90.3	9.4
2000	78.9	54.7	31.0	77.0	83.1	71.4	94.7	13.0
2001	76.0	55.5	33.6	78.9	84.8	72.4	87.6	13.3
2002	69.6	59.1	35.4	84.1	86.6	76.0	90.4	16.5
2003	71.9	61.2	37.7	86.2	91.6	79.9	92.0	19.3
2004	74.3	64.2	40.3	89.1	90.2	84.0	94.5	24.5
2005	76.7	65.1	45.1	90.8	84.2	84.3	92.9	28.9
2006	77.7	66.8	50.1	97.0	89.4	87.3	98.8	35.3
2007	78.6	71.4	54.4	102.6	94.5	91.3	104.1	40.1
2008	79.2	72.2	58.7	99.2	95.5	92.7	109.9	43.8
2009	78.2	75.9	62.4	90.8	94.5	84.0	98.9	47.8
2010	80.9	82.1	65.0	101.9	99.7	100.9	107.3	59.9
2011	86.5	84.3	65.3	107.1	100.0	107.1	116.9	64.1
2012	88.3	87.5	65.8	108.4	94.9	107.8	126.6	65.7
2013	84.7	91.0	67.1	112.0	100.3	106.9	125.9	68.0
2014	89.1	91.7	68.1	112.9	96.6	110.9	130.5	66.8
2015	94.4	93.8	69.4	112.7	103.0	109.0	124.8	67.7
2016	101.0	98.9	76.2	113.4	112.3	111.1	127.5	71.1
2017	108.4	102.4	82.2	112.7	114.5	112.1	120.6	76.2
2018	110.5	104.7	88.9	107.2	110.4	109.1	111.0	85.3
2019	108.6	103.2	91.3	105.2	107.4	106.6	109.2	89.4
2020	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2021	103.2	108.5	102.6	103.2	104.3	105.1	94.6	120.2
2022	105.0	97.7	117.2	103.2	100.3	97.8	94.0	121.3
2023	106.0	89.2	124.8	98.8	98.8	98.3	97.9	109.3
2024	107.1	90.2	151.8	100.7	90.4	94.9	101.4	133.2
	Coke, Briquettes and Refined Petroleum Products	Chemicals and Chemical Products	Pharmaceuticals, Medicinal Chemicals and Botanical Products	Rubber and Plastic Products	Non-Metallic Mineral Products	Basic Metals	Fabricated Metal Products	Electronic Components, Computer, Visual, Sounding and Communication Equipment
Manufacturing								

자료: 국가데이터센터

4-4. Industrial Production Index(Continued)

2020=100

제조업							전기업 및 가스업	
의료, 정밀, 광학기 기 및 시계	전기장비	기타 기계 및 장비	자동차 및 트레일러	기타 운송장비	가구	기타 제품		
46.1	33.8	28.0	20.0	22.1	102.2	292.4	18.3	1990
46.1	37.3	31.0	23.1	26.3	106.0	292.4	20.4	1991
46.5	38.7	30.3	26.3	32.7	103.4	261.9	22.8	1992
47.5	41.0	31.6	30.7	28.8	101.6	231.3	25.5	1993
50.9	45.8	37.5	36.7	33.4	101.4	222.2	29.4	1994
54.2	52.7	44.8	42.9	38.2	104.8	215.6	33.4	1995
51.7	55.7	47.0	48.3	45.5	100.8	204.1	37.5	1996
50.7	55.5	45.7	48.1	49.7	90.7	188.2	41.2	1997
45.7	41.7	31.3	31.7	74.3	63.6	207.7	39.8	1998
50.9	52.8	38.8	48.6	80.6	89.5	215.5	44.7	1999
55.0	63.0	48.8	55.4	74.1	84.6	206.1	50.1	2000
55.9	62.7	46.6	54.8	90.3	82.4	192.5	53.5	2001
55.5	70.6	49.8	59.4	88.5	88.8	173.5	57.6	2002
56.6	70.6	53.1	63.3	94.5	89.5	141.8	60.7	2003
57.5	74.8	59.8	70.7	107.6	89.2	124.3	64.3	2004
54.4	77.5	61.6	76.6	115.8	86.9	109.4	68.9	2005
58.4	77.7	67.5	82.8	125.4	88.1	103.7	71.7	2006
61.2	81.2	74.2	87.9	134.2	87.4	102.7	74.9	2007
64.2	86.3	74.7	85.1	165.1	89.3	87.3	78.8	2008
65.2	87.6	66.9	79.6	186.2	80.0	82.3	80.2	2009
72.9	96.4	92.7	98.1	173.3	84.4	94.9	87.8	2010
77.0	97.2	101.3	112.5	176.3	89.0	97.0	91.8	2011
81.3	95.2	99.2	112.3	185.5	82.9	98.6	93.4	2012
90.5	93.5	95.2	113.9	176.3	82.1	99.6	93.8	2013
81.9	95.3	95.6	117.0	156.6	87.9	99.5	94.5	2014
78.6	92.2	92.6	118.5	142.4	92.8	95.8	93.8	2015
79.3	95.4	94.0	115.7	126.4	98.6	100.0	94.5	2016
93.9	98.3	106.7	112.6	96.8	101.6	103.6	99.7	2017
107.0	98.1	103.2	111.3	87.7	94.6	98.4	103.4	2018
95.5	101.0	97.0	110.5	103.0	92.7	103.4	101.9	2019
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2020
116.8	108.2	112.4	105.4	97.1	98.4	103.4	104.7	2021
123.3	111.9	113.2	115.2	116.7	84.2	106.8	107.7	2022
110.2	113.7	109.2	130.5	127.1	76.1	98.2	108.8	2023
113.6	103.5	103.4	124.7	146.8	67.5	94.6	106.0	2024
Medical, Precision and Optical Instruments, Watches and Clocks	Electrical Equipment	Other Machinery and Equipment	Motor Vehicles, Trailers and Semitrailers	Other Transport Equipment	Furniture	Other Manu- facturing	Electricity, Gas, Steam and Air Conditioning Supply	
Manufacturing								

Source: Ministry of Data and Statistics

4-5. 제조업 가동률지수

2020=100

	제조업	식료품	음료	담배	섬유제품
1990	109.9	101.5	109.0	163.2	205.7
1991	111.7	100.2	112.6	153.6	200.4
1992	110.0	96.7	108.2	154.4	195.8
1993	109.3	94.2	104.2	152.4	187.9
1994	114.2	96.2	110.6	133.5	179.7
1995	113.7	95.8	94.7	123.6	157.1
1996	113.4	97.6	93.5	131.3	156.0
1997	111.2	100.0	92.9	135.0	158.2
1998	95.6	87.7	82.9	140.9	149.3
1999	107.5	93.8	99.8	131.8	156.6
2000	110.1	94.9	102.5	130.1	151.4
2001	105.6	97.4	108.1	128.8	139.3
2002	109.8	101.2	107.1	129.7	135.2
2003	109.8	98.6	102.6	128.4	132.2
2004	112.9	96.8	103.3	138.9	129.1
2005	112.4	93.1	101.6	114.1	125.2
2006	112.7	91.6	100.6	127.7	128.5
2007	112.9	91.4	100.8	116.4	132.3
2008	109.3	91.9	104.8	102.1	125.2
2009	105.4	93.2	98.6	102.1	121.3
2010	113.6	98.9	100.5	101.3	132.2
2011	113.8	98.3	99.2	102.6	131.6
2012	110.7	98.9	102.5	110.3	129.3
2013	108.0	100.5	102.9	101.8	129.0
2014	107.0	98.5	103.6	106.7	127.1
2015	104.9	98.2	104.0	94.7	124.5
2016	103.9	100.2	106.6	106.5	121.0
2017	103.2	100.9	108.0	110.1	116.8
2018	103.7	99.6	106.0	93.3	115.5
2019	103.3	99.4	104.7	95.4	113.6
2020	100.0	100.0	100.0	100.0	100.0
2021	105.6	101.8	98.6	93.2	105.9
2022	104.8	109.6	107.7	95.3	116.9
2023	101.2	108.3	106.3	94.4	111.2
2024	102.0	112.4	104.0	91.7	109.7
	Manufacturing	Food	Beverage	Tobacco	Textiles

자료: 국가데이터처

4-5. Manufacturing Operation Ratio Index

2020=100

가죽, 가방 및 신발	목재 및 나무제품	펄프, 종이 및 종이제품	코크스, 연탄 및 석유정제	화학물질 및 화학제품	고무 및 플라스틱제품	
280.1	134.7	99.0	97.9	96.1	104.8	1990
257.2	125.8	96.3	108.9	96.2	108.2	1991
249.3	105.5	95.4	111.3	99.9	111.8	1992
229.3	98.6	96.2	114.4	99.9	108.2	1993
216.2	103.2	100.5	116.4	104.0	108.3	1994
204.8	105.7	101.2	106.5	102.4	104.5	1995
196.8	115.7	97.4	108.9	103.7	107.5	1996
161.2	129.7	101.0	108.7	107.8	108.0	1997
160.5	81.9	89.0	96.9	97.3	89.5	1998
182.9	108.1	98.2	100.4	105.9	103.1	1999
176.3	116.3	99.2	102.3	107.5	107.5	2000
179.9	118.4	96.4	99.0	106.8	105.2	2001
170.0	124.4	99.1	90.6	109.8	108.4	2002
146.0	123.1	98.9	94.6	110.8	106.7	2003
148.8	116.7	100.1	99.1	109.2	111.0	2004
133.0	113.8	100.0	103.2	105.6	108.4	2005
130.8	123.7	100.0	102.3	106.1	109.7	2006
133.2	111.3	103.6	102.0	108.7	109.9	2007
132.8	102.5	100.8	102.5	101.8	104.3	2008
126.8	92.9	100.7	100.3	102.8	100.8	2009
140.7	103.0	106.2	101.7	106.2	112.4	2010
128.8	102.5	106.7	106.7	105.2	113.9	2011
126.1	99.2	106.4	107.6	105.2	111.9	2012
131.6	104.4	107.3	101.7	104.4	111.9	2013
117.4	105.9	106.4	102.5	103.6	110.9	2014
119.5	110.1	106.1	104.5	103.4	110.4	2015
116.6	110.7	106.9	109.1	105.5	110.3	2016
100.6	114.3	105.6	112.1	106.7	109.4	2017
107.6	107.4	106.2	113.7	104.3	106.3	2018
112.6	99.4	102.7	111.0	99.8	104.0	2019
100.0	100.0	100.0	100.0	100.0	100.0	2020
100.8	109.8	107.1	101.5	106.5	107.8	2021
99.6	105.5	110.1	103.3	96.2	110.8	2022
78.4	89.6	104.8	103.4	87.4	109.0	2023
68.5	89.9	109.0	105.2	88.6	111.6	2024
Leather, Luggage and Footwear	Wood and of Products of Wood and Cork	Pulp, Paper and Paper Products	Coke, Briquettes and Refined Petroleum Products	Chemicals and Chemical Products	Rubber and Plastic Products	

Source: Ministry of Data and Statistics

4-5. 제조업 가동률지수(계속)

2020=100

	비금속 광물제품	1차 금속	금속가공제품	전자부품, 컴퓨터, 영상음향 및 통신장비	의료,정밀, 광학기기 및 시계	전기장비
1990	148.3	120.0	112.3	95.1	175.8	92.0
1991	155.8	117.4	122.9	93.2	181.7	96.9
1992	150.5	112.0	108.3	92.1	175.2	97.4
1993	146.5	114.3	109.7	97.7	170.3	97.2
1994	149.9	116.5	122.0	106.6	165.0	107.2
1995	149.8	116.7	124.7	105.2	166.5	115.2
1996	142.9	120.5	132.6	101.2	144.8	113.0
1997	138.3	123.2	123.6	105.4	131.3	111.2
1998	106.7	98.7	93.1	109.7	120.3	88.9
1999	117.6	104.1	110.5	115.8	135.1	110.7
2000	127.5	109.0	117.0	119.8	137.5	102.2
2001	130.0	109.9	117.5	107.2	127.3	101.8
2002	130.8	111.4	122.4	118.3	111.0	107.4
2003	130.4	114.1	117.2	117.5	118.7	99.8
2004	124.3	117.3	112.2	126.2	114.0	100.6
2005	113.2	114.5	111.6	127.7	112.5	104.8
2006	116.0	113.6	112.4	125.1	113.7	105.3
2007	117.6	112.0	109.5	123.6	107.9	103.2
2008	108.5	111.5	110.3	118.9	112.6	101.0
2009	106.1	98.5	99.5	122.7	107.1	99.0
2010	107.3	110.1	105.2	129.8	119.9	108.2
2011	105.5	110.1	111.6	120.8	118.7	104.7
2012	101.5	109.2	109.0	115.1	116.3	101.8
2013	103.8	108.0	107.4	111.6	117.2	97.9
2014	97.4	110.6	107.4	109.8	102.6	97.9
2015	101.7	108.7	104.5	100.5	100.5	98.9
2016	107.5	110.3	107.2	98.1	97.1	101.6
2017	107.6	111.2	107.5	98.4	99.7	102.8
2018	111.2	108.3	105.0	102.3	104.0	101.1
2019	109.1	105.9	104.0	98.7	100.7	102.7
2020	100.0	100.0	100.0	100.0	100.0	100.0
2021	108.7	105.3	108.4	106.2	112.3	108.0
2022	109.2	97.8	114.7	99.2	116.5	108.3
2023	108.9	97.7	114.0	91.2	109.4	105.9
2024	98.6	95.9	114.1	102.2	102.9	99.5
	Non-Metallic Mineral Products	Basic Metals	Fabricated Metal Products	Electronic Components, Computer: Visual, Sounding and Communication Equipment	Medical, Precision and Optical Instruments, Watches and Clocks	Electrical Equipment

자료: 국가데이터처

4-5. Manufacturing Operation Ratio Index(Continued)

2020=100

기타 기계 및 장비	자동차 및 트레일러	기타 운송장비	가구	기타 제품	
98.8	101.0	70.0	-	212.9	1990
97.5	106.3	84.6	-	218.5	1991
79.2	111.4	97.1	-	212.0	1992
82.6	114.8	73.3	-	195.9	1993
99.8	118.4	89.5	-	196.1	1994
123.2	122.4	86.7	-	189.1	1995
123.5	125.9	85.0	-	169.7	1996
111.1	112.8	80.4	-	153.5	1997
77.5	75.2	84.7	-	137.3	1998
94.3	100.4	97.1	-	153.1	1999
114.2	96.9	92.1	-	155.8	2000
105.8	90.0	95.8	-	134.9	2001
110.7	94.9	107.1	-	139.1	2002
122.1	95.5	110.3	-	132.4	2003
134.7	99.9	122.6	-	104.0	2004
129.1	105.9	134.5	101.6	99.4	2005
127.2	110.0	139.7	100.1	101.5	2006
127.8	114.5	137.4	97.7	114.9	2007
125.0	106.9	142.5	91.9	115.3	2008
109.8	98.0	137.7	90.3	112.3	2009
125.4	115.9	111.3	105.0	120.1	2010
129.1	123.4	117.5	104.9	119.3	2011
124.6	119.2	105.7	94.5	120.6	2012
114.8	118.2	96.6	91.9	116.5	2013
112.2	119.8	91.7	98.7	114.7	2014
105.0	121.6	92.9	97.9	117.4	2015
101.8	114.1	84.8	98.9	117.4	2016
107.2	106.6	68.7	121.4	115.6	2017
106.4	109.0	69.8	118.9	112.6	2018
107.5	112.8	94.4	105.5	113.1	2019
100.0	100.0	100.0	100.0	100.0	2020
107.6	101.1	100.1	105.3	100.7	2021
113.9	108.6	118.8	99.5	108.7	2022
111.9	112.0	119.8	89.7	126.6	2023
104.0	105.7	122.5	84.6	128.6	2024
Other Machinery and Equipment	Motor Vehicles, Trailers and Semitrailers	Other Transport Equipment	Furniture	Other Manufacturing	

Source: Ministry of Data and Statistics



4-6. 에너지 다소비 업종의 주요제품 생산량

단위: 천톤

	나프타 (kℓ)	에틸렌	프로필렌	부타디엔	벤젠
1990	-	-	-	-	-
1991	-	-	-	-	-
1992	-	-	-	-	-
1993	-	-	-	-	-
1994	-	-	-	-	-
1995	14,759,076	3,720,913	2,131,366	555,301	1,284,573
1996	16,432,946	3,967,575	2,244,393	600,759	1,406,646
1997	21,968,409	4,450,014	2,760,375	658,297	1,818,634
1998	21,766,594	5,109,965	3,246,916	730,898	2,412,217
1999	21,688,130	5,216,446	3,281,681	763,649	2,572,464
2000	21,749,026	5,438,736	3,409,256	808,014	2,834,218
2001	20,839,365	5,397,861	3,272,585	777,017	2,650,127
2002	18,747,831	5,636,344	3,556,797	815,959	2,852,494
2003	21,182,699	5,871,836	3,753,194	859,896	3,245,674
2004	24,528,586	5,944,704	3,891,762	917,217	3,462,155
2005	26,793,393	6,058,200	3,945,064	938,969	3,593,602
2006	25,055,270	6,054,945	4,170,642	948,302	3,718,609
2007	26,092,499	6,787,826	4,669,260	1,077,935	4,065,240
2008	24,357,810	6,989,337	4,772,052	1,071,510	4,005,882
2009	24,092,774	7,349,232	5,204,538	1,096,710	4,074,958
2010	26,551,189	7,289,944	5,578,404	1,160,945	4,411,768
2011	30,479,843	7,418,878	5,633,825	1,209,866	4,461,974
2012	31,329,206	8,075,418	6,128,347	1,345,833	4,741,340
2013	29,925,524	8,291,232	6,451,914	1,319,366	4,850,476
2014	33,766,163	8,287,643	6,604,024	1,227,538	5,403,074
2015	38,094,878	8,272,740	7,060,036	1,201,685	5,937,072
2016	40,929,991	8,504,391	7,932,506	1,226,112	5,907,338
2017	47,601,885	8,816,592	8,455,262	1,285,663	6,604,895
2018	49,143,291	8,769,019	8,539,984	1,266,625	6,672,383
2019	50,593,894	8,908,614	8,405,265	1,272,182	6,429,337
2020	48,055,838	8,741,694	8,339,951	1,207,480	5,907,499
2021	51,203,313	10,187,929	9,371,747	1,427,134	6,594,558
2022	55,320,887	9,667,267	8,362,462	1,286,625	6,008,514
2023	52,425,354	9,255,661	8,028,027	1,145,873	5,570,339
2024	52,423,644	9,956,878	8,669,497	1,293,362	5,997,794
	Naphtha (k ℓ)	Ethylene	Propylene	Butadiene	Benzene

자료: 국가데이터처



4-6. Product Production in Energy-Intensive Industries

Unit: Thousand Tons

톨루엔	파라자일렌	자일렌	합금철	알루미늄판	
-	-	-	-	-	1990
-	-	-	-	-	1991
-	-	-	-	-	1992
-	-	-	-	-	1993
-	-	-	-	-	1994
979,095	-	-	217,932	-	1995
1,110,862	-	-	216,142	-	1996
1,294,312	-	-	239,731	-	1997
1,207,183	-	-	265,797	-	1998
1,345,830	-	-	256,456	-	1999
1,585,760	3,635,559	2,699,152	250,294	389,656	2000
1,855,613	3,410,077	1,915,403	244,000	421,629	2001
1,913,491	3,494,385	1,525,137	230,736	561,571	2002
1,857,718	3,840,562	1,701,603	235,492	517,541	2003
1,727,408	4,055,226	1,719,380	253,902	614,981	2004
1,587,475	4,115,974	1,736,851	216,393	630,843	2005
1,764,694	4,356,409	2,178,318	298,183	630,116	2006
1,797,489	4,345,150	2,462,384	334,731	622,298	2007
1,670,689	4,126,014	2,140,179	374,961	634,551	2008
1,885,486	4,337,763	2,682,417	363,292	679,867	2009
1,837,467	4,655,198	2,764,587	583,224	742,799	2010
1,815,074	5,279,641	2,483,524	768,268	729,627	2011
2,009,988	5,648,652	1,885,323	881,875	714,967	2012
1,925,916	6,381,592	2,150,948	956,326	771,749	2013
1,809,689	7,067,681	2,047,516	915,531	843,874	2014
1,906,954	8,556,434	1,780,078	995,335	898,874	2015
2,012,981	9,046,116	1,751,076	851,456	895,753	2016
1,931,832	9,913,272	2,738,599	894,124	958,986	2017
1,794,149	10,050,449	2,784,504	931,435	964,496	2018
2,861,609	9,629,142	3,037,104	879,791	1,032,313	2019
2,809,708	8,710,600	2,610,244	784,293	1,001,799	2020
2,777,650	8,687,754	2,711,153	887,605	1,058,249	2021
2,926,090	7,613,971	2,551,435	888,202	1,057,352	2022
3,745,238	7,216,429	2,895,109	705,308	1,006,505	2023
3,762,006	7,161,451	3,323,556	427,360	1,042,270	2024
Toluene	ParaXylene	Xylene	FerroAlloy	Aluminium Plate	

Source: Ministry of Data and Statistics

4-7. 수송시설 및 설비

	도로연장 (km)	자동차 (대)				
			승용차	승합차	화물차	특수
1990	56,715	3,394,803	2,074,922	383,738	924,647	11,496
1991	58,088	4,248,000	2,727,852	427,650	1,077,467	15,031
1992	58,847	5,231,000	3,461,057	483,575	1,261,522	24,846
1993	61,296	6,274,000	4,271,253	527,958	1,448,634	26,155
1994	73,833	7,404,347	5,148,713	582,069	1,644,646	28,919
1995	74,237	8,468,901	6,006,290	612,584	1,816,582	33,445
1996	82,342	9,553,092	6,893,633	663,011	1,962,564	33,884
1997	84,968	10,413,427	7,586,474	719,127	2,072,256	35,570
1998	86,990	10,469,599	7,580,926	749,320	2,104,683	34,670
1999	87,534	11,163,728	7,837,206	993,169	2,298,116	35,237
2000	88,775	12,059,276	8,083,926	1,427,221	2,510,992	37,137
2001	91,396	12,914,115	8,889,327	1,257,008	2,728,405	39,375
2002	96,037	13,949,440	9,737,429	1,275,319	2,894,412	42,281
2003	97,253	14,586,795	10,278,923	1,246,629	3,016,407	44,836
2004	100,278	14,934,092	10,620,557	1,204,313	3,062,314	46,908
2005	102,293	15,396,715	11,122,199	1,124,645	3,102,171	47,700
2006	102,061	15,895,234	11,606,971	1,105,636	3,133,201	49,426
2007	103,340	16,428,177	12,099,779	1,104,949	3,171,351	52,098
2008	104,236	16,794,219	12,483,809	1,096,698	3,160,338	53,374
2009	104,983	17,325,210	13,023,819	1,080,687	3,166,512	54,192
2010	105,565	17,941,356	13,631,769	1,049,725	3,203,808	56,054
2011	105,931	18,437,373	14,136,478	1,015,391	3,226,421	59,083
2012	105,703	18,870,533	14,577,193	986,833	3,243,924	62,583
2013	106,414	19,400,864	15,078,354	970,805	3,285,707	65,998
2014	105,673	20,117,955	15,747,171	947,012	3,353,683	70,089
2015	107,527	20,989,885	16,561,665	920,320	3,432,937	74,963
2016	108,780	21,803,351	17,338,160	892,539	3,492,173	80,479
2017	110,091	22,528,295	18,034,540	867,522	3,540,323	85,910
2018	110,714	23,202,555	18,676,924	843,794	3,590,939	90,898
2019	111,314	23,677,366	19,177,517	811,799	3,592,586	95,464
2020	112,977	24,365,979	19,860,955	783,842	3,615,245	105,937
2021	113,405	24,911,101	20,410,648	749,968	3,631,975	118,510
2022	114,314	25,503,078	20,952,759	723,961	3,696,317	130,041
2023	115,878	25,949,201	21,390,202	694,574	3,726,400	138,025
2024	116,012	26,297,919	21,771,120	666,166	3,716,743	143,890
	Length of Roads (km)	Motor Vehicles (Unit)	Passenger car	Bus	Truck	Special

주: 자동차 대수는 이륜차 제외

자료: 국토교통부, 한국철도공사



4-7. Transport Facilities and Equipments

철도키로 (km)	차량보유 (대)					항공기 (대)	선박 (천 톤)	
	고속차량		기관차	동차	전동차			
	KTX	SRT						
3,091	-	-	585	200	560	178	7,115	1990
3,091	-	-	595	197	626	186	7,274	1991
3,092	-	-	598	339	668	185	6,911	1992
3,098	-	-	589	477	785	189	6,379	1993
3,101	-	-	582	503	915	216	6,497	1994
3,101	-	-	580	495	1,120	242	6,332	1995
3,120	-	-	583	511	1,268	254	6,993	1996
3,118	-	-	586	595	1,408	266	6,756	1997
3,125	-	-	586	603	1,707	255	5,243	1998
3,119	-	-	582	616	1,717	257	6,052	1999
3,123	-	-	563	615	1,684	267	6,153	2000
3,125	-	-	563	615	1,672	280	6,593	2001
3,129	-	-	579	610	1,662	291	7,638	2002
3,140	340	-	575	606	1,858	287	7,448	2003
3,374	920	-	587	602	1,824	290	8,513	2004
3,392	920	-	587	592	1,850	294	10,068	2005
3,392	920	-	590	576	2,086	324	11,128	2006
3,399	920	-	574	566	2,086	418	13,927	2007
3,391	920	-	567	524	2,088	447	14,707	2008
3,378	920	-	514	500	2,184	478	13,916	2009
3,557	1,110	-	509	471	2,287	514	14,266	2010
3,559	1,110	-	498	444	2,344	550	13,671	2011
3,572	1,160	-	519	397	2,381	590	13,060	2012
3,588	1,160	-	495	303	2,449	623	13,585	2013
3,590	1,160	-	509	204	2,458	655	13,918	2014
3,874	1,380	-	492	201	2,410	724	13,392	2015
3,979	1,420	100	483	178	2,546	761	13,037	2016
4,078	1,530	100	456	150	2,558	793	12,705	2017
4,074	1,530	100	440	150	2,569	835	11,697	2018
4,087	1,530	100	429	121	2,562	853	12,700	2019
4,093	1,560	100	418	121	2,627	826	14,533	2020
4,131	1,644	100	401	121	2,566	807	14,392	2021
4,131	1,644	100	395	80	2,699	818	16,872	2022
4,148	1,744	100	383	41	2,948	838	20,023	2023
4,272	1,760	100	379	80	2,832	865	20,091	2024
Railway (km)	KTX	SRT	Locomotive	Diesel Rail Car	Electric Rail Car	Aircraft (Unit)	Vessels (kt)	
	Express Train							
	Rolling Stock (Unit)							

Note: Excluding the two-wheeled vehicles

Source: Minister of Land, Infrastructure and Transport, KORAIL



4-8. 수송 실적

	여객 (1,000명)								
	공로	철도	지하철	해운			항공	국내선	국제선
					내항	외항			
1990	12,721,877	644,814	1,186,633	8,496	8,260	236	20,690	11,064	9,626
1991	12,854,212	679,281	1,422,615	8,819	8,485	335	22,524	12,253	10,271
1992	12,848,750	716,364	1,546,279	9,071	8,733	338	25,812	14,555	11,257
1993	12,117,439	723,057	1,576,040	8,286	7,990	296	27,201	15,550	11,651
1994	11,603,575	729,003	1,603,945	8,280	7,869	411	31,482	18,406	13,076
1995	11,289,507	790,381	1,693,003	9,097	8,702	395	35,611	21,009	14,603
1996	11,480,422	819,542	1,728,171	9,936	9,413	523	39,559	23,567	15,992
1997	10,887,456	832,999	1,855,166	10,463	9,899	564	42,237	25,639	16,598
1998	10,783,922	829,050	1,838,870	8,815	8,277	538	33,609	19,504	14,104
1999	10,455,862	823,563	2,015,999	9,857	9,052	805	37,895	21,145	16,750
2000	10,410,069	837,268	2,235,221	10,701	9,702	999	41,967	22,515	19,452
2001	9,936,126	850,971	2,527,099	10,415	9,340	1,075	42,162	21,811	20,351
2002	9,783,595	851,716	2,012,386	10,713	9,460	1,253	43,965	21,248	22,717
2003	9,404,764	894,621	1,982,192	11,715	10,336	1,380	42,839	21,380	21,459
2004	9,169,560	921,223	2,033,411	12,470	10,648	1,822	45,824	18,893	26,931
2005	8,801,840	950,995	2,020,360	13,205	11,100	2,105	46,832	17,148	29,684
2006	9,108,648	969,145	2,079,961	13,959	11,574	2,385	49,879	17,172	32,708
2007	9,301,810	989,294	2,090,290	15,184	12,634	2,550	53,714	16,841	36,873
2008	9,708,410	1,018,977	2,141,872	16,696	14,162	2,534	52,333	16,990	35,343
2009	9,724,316	1,020,319	2,181,346	16,957	14,868	2,089	51,575	18,061	33,514
2010	9,498,586	1,060,941	2,273,087	17,069	14,308	2,761	60,277	20,216	40,061
2011	25,943,079	1,118,621	2,358,758	16,926	14,266	2,660	63,629	20,981	42,649
2012	25,982,998	1,149,340	2,410,931	17,419	14,538	2,881	69,304	21,602	47,703
2013	26,327,678	1,224,820	2,476,394	18,800	16,063	2,737	73,340	22,353	50,987
2014	26,678,513	1,263,472	2,526,167	16,917	14,271	2,646	81,426	24,648	56,779
2015	27,193,794	1,269,417	2,522,900	17,998	15,381	2,617	89,415	27,980	61,434
2016	28,090,714	1,449,534	3,572,127	18,200	15,423	2,777	103,914	30,913	73,001
2017	28,192,366	1,490,319	3,604,712	19,638	16,910	2,728	109,362	32,406	76,956
2018	28,409,618	1,521,590	3,618,352	17,606	14,626	2,980	117,526	31,601	85,925
2019	28,649,339	1,570,415	3,705,150	17,554	14,585	2,969	123,367	32,981	90,386
2020	25,361,541	1,122,872	2,677,582	10,772	10,603	169	39,404	25,164	14,240
2021	30,168,830	1,170,749	2,759,948	11,464	11,464	-	36,356	33,147	3,209
2022	31,954,532	1,362,259	3,112,597	13,991	13,991	19	55,828	36,328	19,500
2023	32,525,536	1,551,979	3,419,767	13,268	13,268	773	100,509	32,190	68,319
2024	-	-	-	-	-	-	120,058	31,132	88,927
	Highway	Railways	Subway	Shipping	Coastal	Oversea	Aircraft	Domestic Lines	International Lines
	Passengers (1,000 persons)								

1. 2011년부터 승용차 통계 포함

2. 기존 여객수송실적은 일반열차와 광역전철의 합으로 계산되었으나 2016년부터 철도통계의 개편에 따라 일반열차 여객수송실적으로만 계산 됨.

3. 비영업용 화물차 포함

주: 원 자료 제공기관의 자료 공표시차 발생에 따른 최근 통계 미수록

자료: 국토교통부, 한국철도공사



4-8. Transport Performance

화물 (1,000 M/T)								
공로	철도	해운			항공			
			내항	외항		국내선	국제선	
215,125	57,922	283,695	63,914	219,781	960	183	777	1990
245,126	61,215	339,096	76,124	262,972	987	200	787	1991
266,009	58,768	371,162	85,589	285,573	1,079	242	837	1992
289,450	60,167	413,068	96,196	316,872	1,224	273	951	1993
345,831	57,866	471,122	117,694	353,428	1,419	306	1,112	1994
408,368	57,469	533,536	129,112	404,424	1,613	323	1,291	1995
426,414	53,527	582,068	140,948	441,120	1,782	351	1,431	1996
499,083	53,828	632,076	147,046	485,030	2,018	387	1,631	1997
408,136	43,345	589,931	115,179	474,752	1,834	364	1,471	1998
401,177	42,081	655,876	123,693	532,183	2,113	393	1,719	1999
496,174	45,240	701,586	131,987	569,599	2,383	434	1,949	2000
535,725	45,122	751,454	140,544	610,910	2,295	431	1,864	2001
584,573	45,733	777,251	141,706	635,545	2,510	433	2,077	2002
565,456	47,110	812,935	145,327	667,608	2,632	423	2,209	2003
518,856	44,512	849,013	115,636	733,377	2,978	409	2,569	2004
526,000	41,669	874,346	119,410	754,936	2,989	372	2,617	2005
529,278	43,341	927,635	117,805	809,830	3,209	355	2,854	2006
550,264	44,531	982,603	120,079	862,524	3,455	316	3,138	2007
555,801	46,806	1,021,657	126,964	894,693	3,252	254	2,997	2008
607,480	38,898	968,331	120,032	848,299	3,141	269	2,872	2009
619,530	39,217	1,090,418	124,225	966,193	3,589	262	3,327	2010
1,439,625	40,012	1,195,154	125,588	1,069,566	3,519	281	3,238	2011
1,554,510	40,309	1,227,595	119,057	1,108,538	3,474	265	3,209	2012
1,546,407	39,822	1,241,065	117,860	1,123,205	3,499	253	3,246	2013
1,512,700	37,379	1,302,561	117,920	1,184,641	3,694	283	3,411	2014
1,761,291	37,094	1,345,393	128,611	1,216,782	3,807	288	3,519	2015
1,799,565	32,555	1,385,824	143,227	1,242,597	4,074	293	3,781	2016
1,854,011	31,670	1,455,076	142,587	1,312,489	4,322	290	4,032	2017
1,895,686	30,915	1,526,252	120,327	1,405,925	4,442	273	4,169	2018
1,847,241	28,664	1,536,558	107,408	1,429,150	4,275	259	4,016	2019
1,788,917	26,277	1,387,741	111,513	1,276,228	3,253	182	3,071	2020
1,848,182	26,780	1,467,700	115,125	1,352,575	3,625	205	3,420	2021
1,785,562	23,623	1,429,674	122,032	1,307,642	3,550	229	3,320	2022
1,751,667	21,257	1,435,638	115,496	1,320,142	3,954	212	3,741	2023
-	-	-	-	-	4,395	204	4,192	2024
Highway	Railways	Shipping	Coastal	Oversea	Aircraft	Domestic Lines	International Lines	
Freight (1,000 M/T)								

1. Including car from 2011

2. Since 2016, Railways including only regular trains excluding metropolitan railway

3. Including non-business trucks

Note: Due to discrepancies in data disclosure of original providers, recent statistics no included

Source: Minister of Land, Infrastructure and Transport, KORAIL

4-9. 소비자 물가지수

2020=100.0

	총지수	식료품·비주류 음료	주류 및 담배	의류 및 신발	주택·수도·전 기 및 연료	전기, 가스 및 기타연료	가정용품 및 가 사 서비스	보건
1990	38.5	28.2	26.2	46.8	38.2	35.3	56.3	46.1
1991	42.1	31.3	27.1	49.4	42.4	38.1	59.4	49.1
1992	44.7	32.9	28.5	52.4	45.5	40.7	61.3	50.6
1993	46.8	33.9	30.2	54.2	47.9	42.2	63.3	52.0
1994	49.8	37.4	33.1	55.5	49.8	43.1	65.5	53.9
1995	52.0	38.5	33.9	56.4	52.0	44.0	66.7	56.8
1996	54.6	39.7	37.0	57.1	54.4	47.3	68.0	59.5
1997	57.0	41.3	39.4	58.0	57.2	52.3	68.3	61.9
1998	61.3	45.4	41.9	60.4	61.4	65.5	72.3	65.2
1999	61.8	47.5	44.6	61.4	59.5	62.5	71.3	66.1
2000	63.2	47.9	45.0	62.3	61.7	70.7	69.5	71.0
2001	65.7	50.3	47.2	64.2	65.4	78.0	70.9	79.1
2002	67.5	52.8	50.8	66.2	67.2	73.8	71.5	78.6
2003	69.9	55.2	52.2	68.5	70.0	77.5	73.0	80.4
2004	72.4	59.7	52.8	68.7	72.3	81.6	73.5	81.6
2005	74.4	61.5	60.6	69.4	73.7	86.6	73.9	83.4
2006	76.1	61.8	60.5	71.3	75.8	93.3	74.1	85.0
2007	78.0	63.4	60.7	73.2	77.5	95.6	76.0	86.5
2008	81.7	66.5	61.0	75.0	80.9	103.6	79.4	88.1
2009	83.9	71.6	61.7	78.8	81.8	102.9	82.9	90.1
2010	86.4	76.2	62.0	81.2	83.7	107.0	83.2	91.6
2011	89.9	82.4	62.5	83.9	87.5	113.9	86.3	93.3
2012	91.8	85.6	63.4	87.9	91.5	119.7	88.7	94.1
2013	93.0	86.4	64.5	90.4	94.7	124.9	89.0	94.4
2014	94.2	86.6	64.4	94.1	97.5	129.5	90.9	95.1
2015	94.9	88.0	96.7	95.3	96.8	117.1	93.2	96.3
2016	95.8	90.1	97.3	97.0	96.0	104.3	94.7	97.2
2017	97.6	93.1	98.8	98.1	97.7	103.0	95.7	98.1
2018	99.1	95.7	99.1	99.2	98.4	100.2	97.9	98.1
2019	99.5	95.8	99.7	99.3	99.5	101.9	100.0	98.5
2020	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2021	102.5	105.9	100.4	100.6	101.6	98.6	101.9	99.9
2022	107.7	112.2	102.6	103.7	107.2	115.6	106.8	100.8
2023	111.6	118.3	103.6	110.7	112.6	138.7	112.6	102.4
2024	114.2	122.9	104.6	114.3	114.5	142.9	114.8	104.3
	Total Item	Food & Nonalcoholic Beverages	Alcoholic Beverages & Cigarettes	Clothing & Footwear	Housing, Water & Fuels	Electricity, Gas & Other Fuels	Furnishings & Household Equipment	Health

자료: 국가데이터센터



4-9. Consumer Price Indices

2020=100.0

교통	운송 서비스	통신	오락 및 문화	교육	음식 및 숙박	기타상품 및 서비스	
32.0	16.6	160.9	75.3	26.0	33.6	38.3	1990
35.5	19.3	155.2	78.1	28.7	40.2	40.5	1991
38.8	22.0	154.9	80.0	31.8	44.2	42.1	1992
42.2	25.4	154.0	83.5	35.1	46.7	43.8	1993
45.4	29.3	150.1	85.6	38.5	49.9	45.4	1994
48.2	32.2	146.7	88.7	43.6	52.6	46.9	1995
51.8	35.4	146.0	92.1	48.5	55.6	49.6	1996
56.8	37.7	141.8	92.9	52.0	57.5	51.9	1997
66.3	44.6	141.5	96.1	53.9	60.4	56.6	1998
67.9	45.7	140.8	96.1	54.6	59.8	55.4	1999
70.9	48.1	137.6	95.1	57.3	60.4	56.1	2000
73.7	51.6	133.2	94.7	59.9	61.4	58.3	2001
74.4	53.5	127.3	95.3	63.3	63.5	60.2	2002
77.4	57.6	120.7	95.7	67.0	65.8	61.7	2003
80.1	60.6	118.8	95.6	70.7	68.3	63.0	2004
84.1	65.5	116.6	95.7	73.7	69.9	63.9	2005
88.0	67.6	115.1	93.5	77.3	71.3	67.2	2006
91.2	72.3	112.8	91.8	81.9	72.6	70.5	2007
99.2	73.9	111.2	93.2	86.4	76.1	76.9	2008
95.7	75.2	111.0	95.4	88.5	79.0	82.1	2009
100.3	76.6	110.0	96.2	90.5	80.9	85.0	2010
107.4	79.0	108.2	97.7	92.1	84.3	87.8	2011
110.9	84.1	105.4	98.0	93.4	85.3	84.9	2012
110.3	86.5	105.3	99.0	94.5	86.7	85.3	2013
108.5	88.2	105.2	99.4	95.9	87.9	87.9	2014
100.0	90.8	105.0	98.9	97.5	90.0	90.3	2015
97.8	93.4	105.1	100.7	99.1	92.2	93.4	2016
101.3	94.4	105.4	100.8	100.3	94.4	96.0	2017
103.7	95.2	104.5	101.3	101.6	97.3	96.5	2018
101.9	97.9	102.1	101.0	102.2	99.1	98.1	2019
100.0	100.0	100.0	100.0	100.0	100.0	100.0	2020
106.3	101.6	99.1	100.4	100.9	102.7	102.0	2021
116.7	103.8	100.0	103.3	102.2	110.5	108.3	2022
112.7	107.3	101.0	107.1	104.2	117.2	114.6	2023
114.3	112.4	101.3	108.6	106.0	120.8	119.2	2024
Transportation	Transport services	Communication	Culture & Recreation	Education	Food & Accommodation	Miscellaneous Goods & Services	

Source: Ministry of Data and Statistics

4-10. 생산자 물가지수

2020=100.0

	총지수	농림수산물	광산물	공산물	전력, 가스, 수도 및 폐기물	서비스	음식점 및 숙박서비스	
							운송서비스	음식점 및 숙박서비스
1990	38.5	38.5	38.5	38.5	38.5	38.2	35.3	35.3
1991	42.1	42.1	42.1	42.1	42.1	42.4	38.1	38.1
1992	44.7	44.7	44.7	44.7	44.7	45.5	40.7	40.7
1993	46.8	46.8	46.8	46.8	46.8	47.9	42.2	42.2
1994	49.8	49.8	49.8	49.8	49.8	49.8	43.1	43.1
1995	52.0	52.0	52.0	52.0	52.0	52.0	44.0	44.0
1996	54.6	54.6	54.6	54.6	54.6	54.4	47.3	47.3
1997	57.0	57.0	57.0	57.0	57.0	57.2	52.3	52.3
1998	61.3	61.3	61.3	61.3	61.3	61.4	65.5	65.5
1999	61.8	61.8	61.8	61.8	61.8	59.5	62.5	62.5
2000	63.2	63.2	63.2	63.2	63.2	61.7	70.7	70.7
2001	65.7	65.7	65.7	65.7	65.7	65.4	78.0	78.0
2002	67.5	67.5	67.5	67.5	67.5	67.2	73.8	73.8
2003	69.9	69.9	69.9	69.9	69.9	70.0	77.5	77.5
2004	72.4	72.4	72.4	72.4	72.4	72.3	81.6	81.6
2005	74.4	74.4	74.4	74.4	74.4	73.7	86.6	86.6
2006	76.1	76.1	76.1	76.1	76.1	75.8	93.3	93.3
2007	78.0	78.0	78.0	78.0	78.0	77.5	95.6	95.6
2008	81.7	81.7	81.7	81.7	81.7	80.9	103.6	103.6
2009	83.9	83.9	83.9	83.9	83.9	81.8	102.9	102.9
2010	86.4	86.4	86.4	86.4	86.4	83.7	107.0	107.0
2011	89.9	89.9	89.9	89.9	89.9	87.5	113.9	113.9
2012	91.8	91.8	91.8	91.8	91.8	91.5	119.7	119.7
2013	93.0	93.0	93.0	93.0	93.0	94.7	124.9	124.9
2014	94.2	94.2	94.2	94.2	94.2	97.5	129.5	129.5
2015	94.9	94.9	94.9	94.9	94.9	96.8	117.1	117.1
2016	95.8	95.8	95.8	95.8	95.8	96.0	104.3	104.3
2017	97.6	97.6	97.6	97.6	97.6	97.7	103.0	103.0
2018	99.1	99.1	99.1	99.1	99.1	98.4	100.2	100.2
2019	99.5	99.5	99.5	99.5	99.5	99.5	101.9	101.9
2020	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2021	102.5	102.5	102.5	102.5	102.5	101.6	98.6	98.6
2022	107.7	107.7	107.7	107.7	107.7	107.2	115.6	115.6
2023	111.6	111.6	111.6	111.6	111.6	112.6	138.7	138.7
2024	114.2	114.2	114.2	114.2	114.2	114.5	142.9	142.9
	Total item	Agricultural, Forest & Marine Products	Mining Products	Manu- facturing Products	Electric Power, Gas & Water Supply	Services	Transport	Food & Accommo- dation

자료: 국가데이터처



4-10. Producer Price Indices

2020=100.0

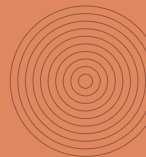
정보통신 및 방송서비스	금융 및 보험 서비스	부동산 서비스	전문, 과학 및 기술서비스	사업지원 서비스	교육 서비스	예술, 스포츠 및 여가관련 서비스	기타 서비스	
35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	1990
38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	1991
40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	1992
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	1993
43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	1994
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	1995
47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	1996
52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	1997
65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	1998
62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	1999
70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	2000
78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	2001
73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	2002
77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	2003
81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	2004
86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	2005
93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	2006
95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	2007
103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	2008
102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	2009
107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	2010
113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	2011
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	2012
124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	2013
129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5	2014
117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	2015
104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	2016
103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	2017
100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2	2018
101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9	2019
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2020
98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	2021
115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	2022
138.7	138.7	138.7	138.7	138.7	138.7	138.7	138.7	2023
142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	2024
Telecommuni- cation & Broadcasting	Financial & Insurance Activities	Real Estate Activities	Professional, scientific and technical activities	Business Services	Education	Cultural Activities & Amusement Activities	Other Services	

Source: Ministry of Data and Statistics

05

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기타
Others



05 기타

- 5-1. 에너지사용량 신고업체 에너지절약실적
- 5-2. 에너지 사용량 신고업체수
- 5-3. 에너지 사용량 신고업체 에너지 사용현황
- 5-4. 해외자원개발 현황



05 Others



- 5-1. Energy Savings of Energy usage reporting entities
- 5-2. Number of Companies for Energy Consumption Return
- 5-3. Energy Consumption in Companies for Energy Consumption Return
(Final Energy)
- 5-4. Overseas Resources Development



5-1. 에너지사용량 신고업체 에너지절약실적

단위: 천 toe

		산업						
		식품	섬유	제지·목재	화학	요업	금속	에너지 산업
2022	사용량	1,398	232	1,202	25,743	4,951	36,636	31,604
	절감량	57	6	25	404	309	370	302
	절감율(%)	3.9	2.6	2.0	1.5	5.9	1.0	0.9
	투자비(억원)	404	60	198	2,040	1,381	2,622	1,593
	용자	4	17	20	97	713	275	174
	자체	400	42	178	1,943	667	2,347	1,419
2023	사용량	1,372	198	1,171	25,432	5,072	38,387	32,943
	절감량	45	7	24	393	297	519	232
	절감율(%)	3.2	3.4	2.0	1.5	5.5	1.3	0.7
	투자비(억원)	495	61	260	2,586	1,901	3,710	1,911
	용자	37	27	51	110	756	294	191
	자체	458	34	209	2,477	1,145	3,416	1,721
2024	사용량	1,411	178	1,168	29,542	4,230	42,015	32,081
	절감량	38	14	12	488	317	571	132
	절감율(%)	2.6	7.2	1.0	1.6	7.0	1.3	0.4
	투자비(억원)	640	55	23	4,440	2,976	3,855	1,262
	용자	80	18	63	167	1,097	241	54
	자체	560	37	168	4,272	1,880	3,614	1,208
		Foods	Textiles	Paper·Wood	Chemicals	Ceramic	Metal	Energy Industry
		Industry						

자료: 한국에너지공단 「2024년 에너지사용량통계」

5-1. Energy Savings of Energy usage reporting entities

Unit: Thousand toe

		건물	수송	합계		
기타	소계					
926	102,691	3,179	2,879	108,749	Consumption	2022
22	1,496	51	9	1,556	Reduction	
2.4	1.4	1.6	0.3	1.4	Reduction Rate(%)	
497	8,794	1,321	102	10,217	Investment(100 Mil. KRW)	
16	1,317	201	13	1,532	Loan	
482	7,477	1,119	89	8,685	Own	
921	105,495	3,239	2,910	111,645	Consumption	2023
25	1,541	48	11	1,600	Reduction	
2.6	1.4	1.5	0.4	1.4	Reduction Rate(%)	
709	11,633	1,516	195	13,344	Investment(100 Mil. KRW)	
19	1,485	223	50	1,758	Loan	
690	10,148	1,293	145	11,586	Own	
931	111,557	3,380	2,673	117,609	Consumption	2024
40	1,612	70	18	1,701	Reduction	
4.1	1.4	2.0	0.6	1.4	Reduction Rate(%)	
697	14,156	1,828	319	16,303	Investment(100 Mil. KRW)	
72	1,791	169	50	2,010	Loan	
624	12,365	1,659	269	14,293	Own	
Others	Sub-Total	Building	Transport	Total		

Source: Korea Energy Agency, 「2024 Annual End-Use Energy Statistics」

5-2. 에너지 사용량 신고업체수

단위: 개

	산업						
	식품	섬유	제지·목재	화학	요업	금속	에너지산업
2000	172	238	103	275	127	437	28
2010	224	200	113	434	156	785	60
2017	292	173	117	623	186	1,190	106
2018	294	154	112	628	182	1,167	113
2019	305	129	112	644	188	1,161	119
2020	313	102	120	669	186	1,162	121
2021	325	111	124	683	187	1,210	121
2022	343	99	123	713	187	1,242	124
2023	352	86	127	717	180	1,248	133
2024	364	81	125	725	178	1,222	129
비중(%)	7.1	1.6	2.4	14.1	3.5	23.7	2.5
	Foods	Textiles	Paper·Wood	Chemicals	Ceramic	Metal	Energy Industry
	Industry						

자료: 한국에너지공단 「2024년 에너지사용량통계」

5-3. 에너지 사용량 신고업체 에너지 사용현황

단위: 천toe

	산업						
	식품	섬유	제지·목재	화학	요업	금속	에너지산업
2000	1,135	1,887	2,057	15,889	5,141	18,405	4,915
2010	1,101	1,011	1,679	18,854	5,095	29,966	8,827
2017	1,238	831	1,295	24,380	5,660	38,716	24,664
2018	1,279	785	1,251	25,183	5,424	39,375	28,596
2019	1,297	427	1,245	26,190	5,507	40,549	27,938
2020	1,331	233	1,186	24,605	4,949	38,009	27,577
2021	1,373	263	1,227	26,166	5,043	38,813	30,453
2022	1,398	232	1,202	25,743	4,951	36,636	31,604
2023	1,372	198	1,171	25,432	5,072	38,387	32,943
2024	1,411	178	1,168	29,542	4,230	42,015	32,081
비중(%)	1.2	0.2	1.0	25.1	3.6	35.7	27.3
	Foods	Textiles	Paper·Wood	Chemicals	Ceramic	Metal	Energy Industry
	Industry						

자료: 한국에너지공단 「2024년 에너지사용량통계」

5-2. Number of Companies for Energy Consumption Return

Unit: Each

산업기타	소계	건물	수송	발전	합계	
90	1,470	596	-	26	2,092	2000
154	2,126	894	-	34	3,054	2010
263	2,950	1,245	449	38	7,682	2017
269	2,919	1,297	441	37	4,694	2018
262	2,920	1,302	436	37	4,695	2019
271	2,944	1,320	408	42	4,714	2020
286	3,047	1,367	408	41	4,863	2021
293	3,124	1,469	415	41	5,049	2022
296	3,139	1,531	415	43	5,128	2023
290	3,114	1,594	401	47	5,156	2024
5.6	60.4	30.9	7.8	0.9	100.0	Share(%)
Others	Sub-Total	Building	Transport	Power Generation	Total	

Source: Korea Energy Agency, 「2024 Annual End-Use Energy Statistics」

5-3. Energy Consumption in Companies for Energy Consumption Return(Final Energy)

Unit: Thousand toe

산업기타	소계	건물	수송	합계	
308	49,737	1,452	-	51,189	2000
2,062	68,594	2,181	-	70,775	2010
789	97,573	2,765	3,492	103,830	2017
824	102,718	2,920	3,354	108,992	2018
861	104,014	2,897	3,338	110,249	2019
854	98,744	2,823	2,778	104,345	2020
895	104,233	2,948	2,841	110,022	2021
926	102,691	3,179	2,879	108,749	2022
921	105,495	3,239	2,910	111,645	2023
931	111,557	3,380	2,673	117,609	2024
0.8	94.9	2.9	2.3	100.0	Share(%)
Others	Sub-Total	Building	Transport	Total	

Source: Korea Energy Agency, 「2024 Annual End-Use Energy Statistics」

5-4. 해외자원개발 현황

	'10	'11	'12	'13	'14	'15	'16
해외자원개발 사업수(누적)							
석유·가스	301	341	359	367	372	376	378
진행사업	180	198	201	193	182	166	141
생산	53	69	80	78	74	78	81
개발	27	25	29	29	28	25	19
탐사(조사)	100	104	92	86	80	63	41
종료사업	121	143	158	174	190	210	237
일반광물	419	450	483	508	519	525	533
진행사업	289	307	331	343	345	334	335
생산	57	68	67	75	75	74	78
개발	90	89	105	110	109	108	107
탐사(조사)	142	150	159	158	161	152	150
종료사업	130	143	152	165	174	191	198
자원개발률(%)							
석유·가스	10.8	13.7	13.8	13.6	14.4	15.5	14.9
유연탄	48.3	52.2	57.7	55.9	55.4	52.8	49.9
우라늄	3.5	6.6	8.1	10.9	11.1	4.2	4.0
철	12.7	15.3	14.5	21.6	18.0	15.1	27.9
동	6.1	10.2	11.4	10.5	10.7	5.5	6.5
아연	34.5	24.7	19.9	21.2	21.5	21.2	22.8
니켈	37.6	30.5	31.9	45.8	61.7	68.9	63.2
투자현황(백만 \$)							
총계	-	-	8,486	6,950	6,323	4,260	2,396
석유·가스	-	-	6,644	4,516	4,395	3,831	1,802
일반광물	-	-	1,842	2,434	1,928	429	594

자료: 국가데이터처

5-4. Overseas Resources Development

'17	'18	'19	'20	'21	'22	'23	
Number of Businesses (Accumulative)							
380	380	383	386	388	391	391	Oil·Gas
131	122	119	118	110	105	100	Ongoing Business
79	73	70	69	62	56	55	Production
12	11	11	10	10	10	10	Development
40	38	38	39	38	39	35	Exploration(Investigation)
249	258	264	268	278	286	291	Expired Business
538	544	547	549	551	553	555	General Mineral
322	316	308	301	291	289	287	Ongoing Business
75	75	75	72	67	-	-	Production
105	101	100	95	94	-	-	Development
142	140	133	134	130	-	-	Exploration(Investigation)
216	228	239	248	260	264	268	Closed Business
Self-Development Ratio (%)							
12.7	12.5	13.3	12.0	10.7	11.0	11.0	Oil·Gas
37.6	29.9	32.2	34.3	41.2	40.0	40.0	Bituminous
4.0	3.1	3.3	1.4	-	-	-	Uranium
26.2	31.8	32.0	34.3	34.0	43.0	37.0	Iron
8.0	7.7	10.0	12.2	8.3	10.0	12.0	Copper
20.6	19.9	20.7	21.5	21.6	19.4	23.4	Zinc
61.8	55.2	55.0	47.2	29.7	44.0	43.3	Nickel
Investment (Mil. USD)							
1,747	1,799	2,061	1,409	2,392	-	-	Total
1,289	1,424	1,392	1,137	1,928	-	-	Oil · Gas
458	375	669	272	464	-	-	General Mineral

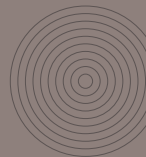
Source: Ministry of Data and Statistics

06

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부록

Appendices



06 부록

1. 에너지 열량 환산기준
2. 단위 환산표
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06 Appendices



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1. 에너지 열량 환산기준

Energy Conversion Factors

에너지법 시행규칙 제5조 제1항

에너지원		단위 Unit	총발열량 (kcal) Gross Calorific Value							
			1980	1981	1987	1990	2007	2012	2017	2022
석유	원유	kcal/kg	10,000	10,000	10,000	10,000	10,750	10,730	10,750	10,920
	휘발유	kcal/ℓ	8,300	8,300	8,300	8,300	8,000	7,780	7,810	7,750
	등유(실내)	kcal/ℓ	8,700	8,700	8,700	8,700	8,800	8,790	8,770	8,740
	등유(보일러)						8,950			
	경유	kcal/ℓ	9,200	9,200	9,200	9,200	9,050	9,010	9,030	9,020
	바이오디젤	kcal/ℓ	-	-	-	-	-	-	-	8,280
	B - A유	kcal/ℓ	9,500	9,400	9,400	9,400	9,300	9,290	9,310	9,310
	B - B유	kcal/ℓ	9,200	9,700	9,700	9,700	9,650	9,670	9,670	9,690
	B - C유	kcal/ℓ	9,900	9,900	9,900	9,900	9,900	9,950	9,960	9,980
	프로판	kcal/kg	12,000	12,000	12,000	12,000	12,050	12,050	12,040	12,000
	부탄	kcal/kg	11,800	11,800	11,800	11,800	11,850	11,850	11,820	11,790
	나프타	kcal/ℓ	8,000	8,000	8,000	8,000	8,050	7,710	7,710	7,700
	용제	kcal/ℓ	-	-	-	(8,200)	7,950	7,950	7,830	7,830
	항공유(JA-1)	kcal/ℓ	-	8,700	8,700	8,700	8,750	8,730	8,720	8,720
	항공유(JP-4)	kcal/ℓ	-	8,500	8,500	8,500				
	항공유(AVI-G)	kcal/ℓ	-	8,700	8,700	8,700				
	아스팔트	kcal/kg	-	-	-	(10,000)	9,900	9,910	9,890	9,880
	윤활유	kcal/ℓ	-	-	-	-9,400	9,250	9,500	9,550	9,450
	석유코크스	kcal/kg	-	-	-	(10,800)	8,100	8,000	8,360	8,330
	부생연료유1호	kcal/ℓ	-	-	-	-	8,850	8,800	8,860	8,900
	부생연료유2호	kcal/ℓ	-	-	-	-	9,700	9,550	9,530	9,530
가스	천연가스(LNG)	kcal/kg	-	9,500	12,980	13,000	13,000	13,040	13,060	13,080
	도시가스(LNG)	kcal/Nm³	7,000	7,000	7,000	10,500	10,550	10,430	10,290	10,190
	도시가스(LPG)	kcal/Nm³	-	-	-	15,000	15,000	15,000	15,190	15,150
석탄	국내무연탄	kcal/kg	4,600	4,600	4,500	4,500	4,650	4,500	4,730	4,710
	수입무연탄(연료용)	kcal/kg	-	-	-	6,000	6,550	5,020	5,060	5,500
	수입무연탄(원료용)	kcal/kg					5,900	6,020	6,170	6,170
	유연탄(연료용)	kcal/kg	6,600	6,600	6,600	6,600	6,200	6,160	5,920	5,860
	유연탄(원료용)	kcal/kg					7,000	7,000	6,970	7,030
	아역청탄	kcal/kg	-	-	-	-	5,350	5,420	5,110	4,920
	코크스	kcal/kg	6,500	6,500	6,500	6,500	7,050	6,960	6,930	6,840
전기	전기(발전기준)	kcal/kWh	2,500	2,500	2,500	2,500	2,150	2,110	2,130	2,130
	전기(소비기준)	kcal/kWh	-	-	-	-	-	2,300	2,290	2,290
	신탄	kcal/kg	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500

주 : 석탄의 발열량은 인수식 기준, 최종에너지소비 기준 전력 환산은 1kWh=860kcal

2. 단위 환산표

Unit Conversion Factors

① 에너지

Units	EJ	Gcal	Mtoe	Mbtu	bcme	GWh
EJ	1	2.388×10^8	23.88	9.478×10^8	27.78	2.778×10^5
Gcal	4.1868×10^{-9}	1	10^{-7}	3.968	1.163×10^{-7}	1.163×10^{-3}
Mtoe	4.1868×10^{-2}	10^7	1	3.968×10^7	1.163	11.630
Mbtu	1.0551×10^{-9}	0.252	2.52×10^{-8}	1	2.932×10^{-8}	2.931×10^{-4}
bcme	0.036	8.60×10^6	0.86	3.41×10^7	1	9.999
GWh	3.6×10^{-6}	860	8.6×10^{-5}	3.412×10^3	1×10^{-4}	1

② 무게

Units	g	kg	oz	lb	metric Ton	Short Ton (미)	Long Ton (영)
1 g	1	10^{-3}	0.03527396	2.204623×10^{-3}	10^{-6}	1.102311×10^{-6}	9.842×10^{-7}
1 kg	1000	1	35.27396	2.204623	10^{-3}	1.102311×10^{-3}	9.842×10^{-4}
1 oz(avdp)	28.34952	0.02834952	1	0.0625	2.834952×10^{-5}	5×10^{-1}	2.790×10^{-5}
1 lb(avdp)	453.5924	0.4535924	16	1	4.535924×10^{-4}	0.0005	4.464×10^{-4}
1 metric Ton	10^6	1000	35273.96	2204.623	1	1.102311	0.9842
1 Ton(U.S)	907184.7	907.1847	32000	2000	0.9071847	1	0.8927
1 Ton(U.K)	1016.0×10^3	1016.0	35.838×10^3	2240.143	1.0160	1.1200	1

③ 부피

Units	m ³	cm ³	liter	in ³	ft ³	미gal	영gal	bbl
1 m ³	1	106	103	6.102374×10^4	35.31467	264.1721	219.969	6.2892
1 cm ³	10^{-6}	1	10^{-3}	0.06102374	3.531467×10^{-5}	2.641721×10^{-4}	2.19969×10^{-1}	6.2892×10^{-5}
1 liter	10^{-3}	1000	1	61.02374	0.03531467	0.2641721	0.219969	6.2892×10^{-3}
1 in ³	1.638706×10^{-3}	16.38706	0.01638706	1	5.787037×10^{-4}	4.329004×10^{-3}	3.60465×10^{-3}	0.10306×10^{-3}
1 ft ³	2.831685×10^{-2}	28316.85	28.31685	1728	1	7.480520	6.2288	0.178
1 gal (U.S)	3.785412×10^{-3}	3785.412	3.785412	231	0.1336806	1	0.83268	0.023809
1 gal (U.K)	0.004561	4546.1	4.5461	277.42	0.160544	1.20094	1	0.028571
bbl	0.158988	158988	158.988	9.702	5.6146	42	34.9726	1

3. 용어해설

A. 에너지 단위

- **리터(ℓ , Liter)** : 부피의 단위로 1리터는 1,000세제곱센티미터(cm^3)와 동일함.
- **배럴(bbl, Barrel)** : 석유용량의 단위지만 본래는 '중간이 부분 나무 용기'를 의미. 미국 펜실베이니아주의 에드윈 드레이크(Edwin L. Drake)가 1859년 처음으로 석유의 기계 채유에 성공해 배럴이라는 나무통에 채워 판매한데서 유래하여 현재 국제 원유거래에서 이용되고 있음. 현재 1배럴=42갤런이며, 환산율은 1배럴=42갤런=5.6146ft³= 159 ℓ
- **석유환산톤(toe, Ton of Oil Equivalent)** : 에너지 원별로 상이하게 표기되는 에너지 단위를 통합하여 표기할 수 있도록 원유 1톤이 연소할 때 발열량을 기준으로 정의함. 1toe는 107kcal임.
- **와트(W, Watt)** : 단위 시간동안 공급되는 전기 에너지를 나타내는 단위.
- **와트아워(Wh, Watt-hour)** : 전력량의 단위로, 일정시간 동안에 공급 혹은 소비한 전력의 양을 나타냄.
- **줄(J, Joule)** : 에너지, 일, 열량의 정도를 나타내는 기본 단위로 1J=0.239cal
- **톤(t, Tonne)** : 1톤(t)은 1메트릭톤(Metric Ton), 1,000kg과 같은 개념이며, 에너지통계의 고유단위로 사용함.

B. 간이밸런스 용어

1. 에너지밸런스 종류

■ 확장밸런스 (Extended balance)

확장밸런스 국가 에너지 상품의 수급 흐름을 나타내는 기준 밸런스로, 일 년을 대상 기간으로 추가적인 조사 자료를 이용하여 우리나라 에너지 상품의 수급 흐름을 상세하고 정확하게 표현함. 따라서 우리나라의 공식적인 연간 에너지 상품 수급 수치는 확장밸런스를 통해 확정됨.

■ 간이밸런스 (Simple balance)

간이밸런스는 한 달을 집계 대상 기간으로 에너지 상품의 수급 추이를 신속히 파악하여 통계를 제공하기 위해 작성됨. 에너지통계연보와 에너지통계월보는 간이밸런스를 기준으로 작성됨.

2. 간이밸런스의 행 구조

에너지 상품의 흐름은 에너지 상품의 초기 출현에서 최종소비로 사라지는 과정을 표현하며, 에너지 밸런스의 종축에 표시함. 에너지 상품의 흐름은 공급, 전환 공정, 에너지 산업 자체소비, 최종소비로 구분할 수 있음.

■ 국내생산 (Production)

국내생산은 국내 및 배타적 경제수역 내에 있는 지하 또는 지상 매장지에서 일차 화석 연료를 채굴하거나, 물, 바람, 태양 등으로부터 재생에너지를 포획하는 것, 바이오 연료를 추출하는 것을 포함함. 단, 국내생산 또는 수입한 에너지 상품을 국내에서 전환하여 제조·생산한 연료는 국내생산이 아니라 에너지 전환에 포함됨.

■ 수입 (Imports)

수입은 해외에서 채굴·채취한 에너지 상품 또는 해외에서 전환·제조된 에너지 상품인면서 국내에 수송되어 공급된 에너지 상품을 의미함. 수입된 공업 제품에 포함되어 있는 에너지 상품은 해당 제품을 에너지원으로 다시 전환하여 이용할 목적으로 수입한 경우만 에너지 수입에 포함함. 따라서 원자력 발전의 경우 생산된 일차 열을 국내생산으로 취급하며, 핵 연료의 수입을 기입하지 않음.

■ 수출 (Exports)

수출은 국내에서 전환되거나 생산된 에너지 상품인면서 해외에 수송된 에너지 상품을 의미. 에너지 상품의 해외 수송을 위한 수송 수단에서 사용된 연료는 국제 병커링에 포함함. 에너지 상품의 국내 총공급을 구하기 위해서는 에너지 상품의 수출량을 삭감해야 함. 이를 위해 에너지 상품의 수출은 음의 부호로 표시되며, 공급에서 차감됨.

■ 국제해운병커링 (International marine bunkers)

국가 사이를 운항 중인 선박에서 소비하는 석유는 화물의 일부가 아니라 연료로 사용되는 것으로, 국적에 상관없이 국제해운병커링에 포함됨. 국제 항해를 하는 해군 선박에 공급되는 석유도 국제해운병커링에 해당됨. 하지만 원양 어선의 연료로 사용되는 석유는 국제해운병커링이 아니라 최종소비의 어업에 포함됨.

■ 국제항공병커링 (International aviation bunkers)

국가 사이를 운항 중인 항공기에서 소비하는 석유는 항공기의 국적과 상관없이 국제항공병커링에 포함됨.

■ 재고변화 (Stocks changes)

재고변화는 기초 및 기말재고 수준의 차이임. 재고 감소는 공급의 증가 요인이므로 양의 부호로 표현하고, 재고 증가는 반대로 음의 부호로 표현함. 즉, 재고 변동은 기초재고에서 기말재고를 뺀 수치임.

일차에너지공급 (Total primary energy supply)

일차에너지공급은 국내 자연자원에서의 생산을 비롯하여 경제 외부로부터 공급된 에너지 상품 흐름의 합계를 말함. 여기서 일차는 '초기' 공급의 개념으로 일차에너지 상품과 이차에너지 상품을 모두 포함함. 에너지 상품은 국내생산, 수입, 수출, 국제해운병커링, 국제항공병커링, 재고증감 등의 '공급원(sources of supply)'을 통해 한 국가에 공급되며 이들의 합계가 바로 일차에너지공급이 됨.

■ 제품이동 (Transfers between commodities)

제품이동은 주로 에너지 상품의 재분류에서 발생하는데, 이는 상품의 특성이 맞지 않아 낮은 등급의 다른 상품으로 재분류되는 경우를 의미함.

통계오차 (Statistical difference)

에너지 상품의 총공급과 총수요의 차이, 또는 제품 이동을 고려한 일차에너지공급과 일차에너지소비의 차이.

일차에너지소비 (Total primary energy consumption)

일차에너지소비는 경제 내부에서 발생하는 에너지 상품 흐름의 합계. 즉, 에너지 전환을 위한 에너지 상품의 투입 또는 산출, 에너지 산업을 포함한 모든 부문의 에너지 상품 소비, 공급과 소비 사이에 발생하는 손실을 합산한 소비량임.

전환공정 (Transformation processes)

전환공정이란 일차에너지 상품 또는 이차에너지 상품을 물리적 또는 화학적 방법으로 다른 이차에너지 상품으로 바꾸는 과정을 말함. 간이밸런스의 경우 발전전용, 열병합, 열전용은 사업자(전기·열 판매를 주 사업 목적으로 하는 사업체)만 해당함.

■ 발전전용 (Electricity-only plants)

발전전용은 전기만 생산하는 곳으로, 만약 발전소 내의 한 개 또는 그 이상의 발전기가 열병합 발전기인 경우 그 발전소는 열병합 발전소로 간주됨.

■ 열병합 (CHP plants)

열병합발전은 단일 플랜트에서 전기와 열을 동시에 생산하는 방식을 말함.

■ 열전용 (Heat-only plants)

열전용은 열전용 보일러에서 연료를 투입하여 열을 생산, 판매하는 공정을 말함.

■ 석유제품생산 (Petroleum products)

석유제품생산은 원유, 정제원료 등이 투입되어 휘발유, 경유 등의 석유제품이 생산되는 공정으로, 석유제품생산에는 정유사의 정제 산출량과 석유화학사의 부산물로서 정제에 사용한 연료량이 포함됨. 반면, 석유화학사에서 반제품 처리를 통해 석유제품을 제조하는 공정은 간이밸런스 상에서 석유화학산업 최종소비에 해당됨.

■ 가스제조 (Gas manufacturing (transf.))

가스제조는 일반 수요자에게 배관망을 통해 도시가스를 공급하는 사업을 위해 천연가스를 기화하고 열량을 조절하는 것(도시가스 제조)을 말함. 도시가스 제조에는 제조 원료로 천연가스 및 열량조절용 LPG가 투입됨. 단, 간이 가스 사업의 경우 LPG 소매의 형태로 취급하여 가스제조에 포함하지 않음.

■ 석탄합성가스제조 (Coal-to-gas plants (transf.))

석탄가스화 복합발전(Integrated Gasification Combined Cycle, IGCC)용 석탄합성가스가 투입되어 전기가 생산되는 공정.

■ 기타전환 (Non-specified transformation (transf.))

연료전지용 수소가 투입되어 전기가 생산되는 공정.

전환자체소비(Transformation own use)

전환자체소비 또는 에너지산업자체소비는 연료의 추출 및 전환 또는 에너지 생산 플랜트에서 여러가지 활동을 유지하는데 사용되는 양으로, 다른 에너지 상품으로 전환되는 것이 아니라 에너지 계통에서 사라진다는 점에서 에너지 전환 공정과는 구별됨. 또한 최종소비 부문의 산업부문에서 산업 활동을 위한 에너지소비와도 구분됨.

손실 (Losses)

밸런스의 손실은 에너지 부문과 구별되며, 에너지 상품을 생산지에서 소비지로 유통하는 과정에서 발생한 손실을 의미함. 전기나 가스와 같이 유통망과 관련된 송배전 손실이 대표적인 사례이며, 고로가스 및 코크스로 가스를 배송하거나 파이프라인을 통해 석유제품을 유통시키는 경우에도 발생함. 우리나라의 경우 고로 가스 및 코크스로 가스는 일관제철소의 단일 사업장에서 사용하는 경우가 대부분이며, 석유제품의 파이프라인 수송 또는 도로 수송에서 발생하는 손실은 보고되지 않기 때문에 석탄 가스 및 석유제품의 유통 손실은 대부분 통계오차에 포함되는 것으로 추정됨.

최종소비 (Total final consumption)

최종소비 부분은 에너지 상품이 아닌 제품의 생산 또는 활동을 위해 에너지 상품이 연료 또는 비에너지의 목적으로 최종소비되는 부분임. 에너지 상품은 최종소비 부분에서 모두 소비되는 것으로 간주되기 때문에 에너지 계정에서 사라짐.

■ 산업 (Industry)

산업부문은 기업의 생산활동을 목적으로 한 연료 소비를 표현함. 여기서 생산활동은 생산 공정뿐만 아니라 생산을 위한 지원 설비, 즉 조명, 공조, 난방 등의 연료 소비를 포함함. 반면, 건설 및 산업용 이동 장비가 공도(public road)에서 사용한 연료 소비는 구별 가능한 경우 수송부문에 포함해야 함. 산업부문의 하위 분류는 한국표준산업분류체계를 따름.

- 농림업 (Agriculture & Forestry)
- 어업 (Fishing): 원양어선을 포함한 모든 어선의 소비
- 광업 (Mining & Quarrying)
- 제조업 (Manufacturing): 식품 및 담배 (Food and tobacco), 섬유 및 가죽 (Textile and leather), 목재 및 나무제품(Wood and wood products), 제지 및 인쇄(Paper, pulp and print), 화학 및 석유화학 (Chemical and petrochemical), 비금속광물 (Non-metallic minerals), 철강 (Iron and steel), 비철금속 (Non-ferrous metals), 기계류 (Machinery), 수송장비 (Transport equipment), 기타제조 (Other manufacturing), 기타에너지(Other energy)
- 건설업 (Construction)

■ 수송 (Transport)

수송부문은 수송을 목적으로 한 이동 수단의 연료 소비를 포함. 따라서 수송 업체의 수송 목적 이외의 연료 소비는 서비스 부문에 포함. 하지만 건설 및 산업용 이동 장비가 건설 현장 및 산업체 외부로 이동할 경우 수송부문에 포함.

- 철도 (Rail)
- 도로 (Road)
- 국내해운 (Domestic navigation): 국내 노선의 해운 연료 소비
- 국내항공 (Domestic aviation): 국내선 항공 연료 소비

■ 가정 (Residential)

가정부문은 가구 내에서 취사, 난방, 온수 등의 용도로 사용되는 연료의 소비를 포함.

■ 상업·공공 (Commercial & Public services)

상업 및 공공부문은 영업 및 업무 용도 또는 공공 서비스에서 사용되는 연료의 소비를 포함함. 농림업, 어업, 광업, 제조업, 건설업, 수송 및 가정 부문을 제외한 서비스 부문이 이에 속함.

3. 간이벨런스의 열 구조

석탄 및 석탄제품 (Coal)

■ 무연탄 (Anthracite)

- 국내무연탄 (Domestic-c): 우리나라에서 생산된 무연탄으로 수입 무연탄보다 발열량이 낮음.
- 수입무연탄 (Import-c): 해외에서 수입해온 무연탄으로 국내 무연탄보다 발열량이 높음.

■ 유연탄 및 기타석탄 (Bituminous and other coal)

- 원료탄(Coking coal): 코크스 제조용 원료로 사용되는 석탄임. 코크스용 원료탄은 강점결성 및 미점결성을 가지고 있는 석탄을 주로 이용하여 거의 전량 코크스로에서 건류, 분쇄되어 사용됨.
- 기타유연탄 (Other bituminous coal): 발전, 증기, 생산, 가열 등의 목적으로 직접 연소시켜 사용되는 유연탄임. 휘발분 함량 22% 미만 유연탄 및 기타로 수입되는 것을 기타유연탄으로 분류함.
- 아역청탄 (Sub-bituminous coal): 무연탄 및 유연탄을 제외한 그 밖의 석탄으로 분류되며, 기타유연탄에 비해 단위 열량이 낮은 석탄으로 주로 발전용으로 사용됨.
- 갈탄 (Lignite & Brown Coal): 석탄 종류 중 수분 함량이 많아 열량이 낮은 석탄으로 보통 갈색이나 흑갈색을 띰.
- 토탄 (Peat): 토탄은 현재 연료로 사용하지 않고 주로 농업이나 가정에서 토질 개선 등을 위해 사용.
- 고히연료 (Patent fuel): 연탄, 마젤탄, 기타 고히연료 등
- 코크스 (Coke oven coke): 흑회색의 딱딱한 다공질 덩어리로 철광석을 환원시켜 선철을 만들 때 사용하는 중요 원료.

천연가스 (Natural gas)

천연가스란 지하에서 산출되는 광물성 가연 가스이며 정제에 의해 콘덴세이트를 제거함. 천연가스의 주 성분은 메탄이며 주로 발전용 연료와 난방 연료로 사용됨.

도시가스 (City gas)

도시가스는 도시가스 회사에서 가정이나 기업체에 가스 배관망을 통해 판매하는 천연가스나 공기로 희석한 액화석유가스를 의미함. 액화석유가스를 용기로 공급하는 사업이나 특정 건물에 대형 가스 용기와 간단한 배관 시설로 공급하는 간이 가스 사업은 제외함.

원유 및 정제원료 (Crude oil & Refinery feedstocks)

■ 원유 (Crude oil)

원유는 지하 유층에서 액체 상태로 얻어지며 상당한 휘발성을 가진 탄화수소의 혼합물임. 정제 공정을 거쳐 생산되는 각종 석유제품의 원료로 사용되며, 원유가스화, 원유연소 등 직접 공업 원료나 연료로 사용되기도 함.

■ 정제원료 (Refinery feedstocks)

정제 과정이나 석유화학의 납사분해설비(Naphtha Cracking Center, NCC) 및 정유 부문, BTX(Benzene, Toluene, Xylene) 공정에서 발생하는 반제품(reformate)으로 옥탄가가 높아 주로 휘발유를 생산하는데 투입됨.

■ 첨가물 (Additives & Blending components)

첨가물은 첨가제와 산소성분으로 주로 휘발유의 옥탄가를 높이는 등 휘발유 제조에 사용됨.

■ 기타탄화수소 (Other hydrocarbons)

기타탄화수소는 역청광물(합성원유, 세일오일, 역청샌드)에서 추출한 광물 석유나 석탄액화오일 등을 말함.

석유제품 (Petroleum)

■ 정제가스 (Refinery gas)

정제가스는 원유의 증류 및 석유제품의 처리 과정에서 발생하는 비응축 가스이며, 메탄과 에탄 등이 주 성분으로 정유 부문과 석유화학 부문에서 공정용 연료로 사용됨. 정제가스는 생산된 곳에서 공정 연료로만 사용될 수밖에 없기 때문에 국내외 거래는 없음.

■ 프로판 (Propane)

원유를 정제처리 하는 과정에서 얻어지는 액화석유가스(LPG)의 주성분으로 부탄과 함께 산업 부문에서 MA(maleic anhydride) 생산에 소요되는 합성가스를 생산하기 위해 투입됨. 또한 가정, 업무용 연료로도 많이 사용됨.

■ 부탄 (Butane)

프로판과 같이 LPG의 주성분으로 공업용 원료와 연료 및 자동차용 연료로 사용됨. 휘발유에 비해 세금이 낮기 때문에 택시나 승합용 차량에 많이 사용됨.

■ 휘발유 (Motor gasoline)

휘발유는 촉매를 이용하여 납사를 개질한 후 첨가제, 산소성분, 옥탄향상제 등을 혼합한 제품으로 옥상수송용 연료로 사용됨. 휘발유 통계는 무연 휘발유와 유연 휘발유를 포함하고 있음.

■ 항공휘발유 (Aviation gasoline)

항공휘발유는 본질적으로 휘발유와 마찬가지로 성상을 가지고 있지만 사용 환경 및 운전 조건이 다르기 때문에 좁은 끓는점 범위와 높은 옥탄가 등 항공기의 피스톤 엔진에 사용하기 위한 특별한 기준에 따라 제조됨.

■ 휘발유형항공유 (Gasoline type jet fuel)

등유와 납사로 구성되어 항공기의 터빈동력에 사용되는 경질유임.

■ 등유형항공유 (Kerosene type jet fuel)

등유형 항공유는 등유 유분에 여러 가지 첨가제를 넣은 것으로 항공기의 터빈 동력에 사용되는 중질유임.

■ 등유 (Kerosene)

우리나라에서 등유는 주로 가정용 난방이나 취사, 석유발동기용 연료 또는 기계 세척, 페인트, 농약 등의 용제로 사용됨. 또한 노말파라핀 생산에 투입되는 등 산업용 연료나 석유화학의 원료로도 사용됨. 에너지 통계에서는 등유형 부생유도 포함함.

■ 경유 (Gas & Diesel oil)

일반적으로 경유는 중간 제품과 최종 제품이 있는데, 중간 제품으로서의 경유는 상압증류탑에서 얻어지는 끓는점 220~340 °C의 유분인 경질경유와 감압증류탑에서 얻어지는 탈정 유분인 중질경유가 있음. 최종 제품으로서의 경유는 필요에 따라 경질경유를 탈황하여 생산하며 압축점화 엔진용 연료로 사용됨. 중질경유는 휘발유를 만드는 원료로 사용되거나 수소화탈황 공정을 거쳐 중유 생산을 위한 혼합 재료로 사용됨. 압축점화 엔진용 경유는 자동차, 건설기계, 철도용 소형고속엔진 등의 내연기관 연료로 사용됨.

■ B-A

경질중유(B-A)는 경유 유분 70%, 중질중유(B-C) 유분 30%를 혼합한 연료유임

■ B-B

중유(B-B)는 반대로 경유 유분 30%, 중질중유(B-C) 70%를 혼합시킨 연료유임

■ B-C

석유정제의 마지막 단계에서 생산되는 중질중유는 근래 경질유에 대한 수요가 증가함에 따라 고도화시설에서 경질유로 전환시키는데, 이 과정에서 중유 투입량의 5%가 석유화학 기초화학원료인 프로필렌, 황, 황산으로 전환됨. 에너지통계에서는 중유형 부생유도 포함함.

■ 납사 (Naphtha)

납사는 우리나라에서 방향족(BTX 공정)과 올레핀(NCC 공정)을 생산하기 위해 투입하는 석유화학의 중요 원료임. 정유사가 자체 BTX 공장에서 방향족 탄화수소를 생산하는 경우 에너지 통계는 이를 석유화학공정으로 취급함. 납사를 증기분해하면 평균적으로 62% 정도가 기초화학제품으로 생산되고 나머지는 연료로만 사용할 수 있는 부생연료가 됨. 석유화학 부문은 부생연료의 상당 부분을 정제 부문으로 되돌려 보내고(타산업 유입), 일부는 부생유, 액화석유가스 등으로 가공하여 시판하고 나머지는 공정 연료로 자체 소비함. 공정 연료의 일부는 석유화학 산업에서 전기 생산이나 열병합 발전에 투입됨.

■ 용제 (White spirit & SBP)

용제는 납사 및 등유와 같은 범위의 증류 온도를 가진 정제중간유분으로 정의되며, 화학 공업의 원료로 사용되거나 페인트를 희석시키는데 사용됨. 에너지 통계에서는 용제를 만드는 원료를 의미함.

■ 윤활유 (Lubricants)

윤활유는 상압증류 유분이나 잔사유를 감압증류 및 수소 첨가하여 생산한 파라핀이 풍부한 탄화수소물로, 기계 전반의 회전이나 마찰 부분을 보호하는데 사용됨. 에너지 통계에서는 윤활기유와 윤활유의 합계로 작성함.

■ 아스팔트 (Bitumen)

아스팔트는 역청이라고도 하며, 콜로이드 구조를 갖는 검정색의 고체 또는 반고체 물질. 주로 도로포장용이나 방수기공용 등으로 사용됨.

■ 파라핀왁스 (Paraffin waxes)

파라핀왁스는 윤활유 성분 중의 하나로, 용제를 이용하여 윤활유를 디악싱할 때 추출되는 잔여물임. 주로 양초, 파라핀지, 방수제, 약용, 크레용원료 등으로 사용됨.

■ 석유코크 (Petroleum coke)

석유코크는 검정색의 고체 부산물로, 주로 석유제품을 크래킹하고 남는 타르나 피치 등의 잔여물을 지연 코킹(delayed coking) 또는 유동 코킹(fluid coking) 같은 공정으로 건류시켜 얻음. 석유화학 산업의 원료로도 소량 사용되고 있지만 주로 철강, 시멘트, 전력 산업에서 가격 경쟁력에 힘입어 기존 화석 연료를 대체하고 있음.

■ 기타석유제품 (Other oil products)

위에서 정의되지 않은 모든 석유제품으로 주로 프로필렌과 황의 생산량임.

원자력 (Nuclear)

원자력은 핵 연료의 핵분열에서 발생하는 열을 이용하여 증기를 생산하고 생산된 증기로 증기터빈을 가동하여 발전함. 에너지 통계에서는 핵 발전소에서 생산하는 증기는 전량 전기 생산에 투입되고 다른 용도로는 이용하지 않는 것으로 취급함.

수력 (Hydro)

수력은 발전기가 연결된 특수하게 설계된 터빈에 흐르는 물을 통과시켜 전기를 생산하는 발전방식임. 규모가 큰 경우 특별히 건설된 저수지에서 물을 공급하기도 하며, 작은 규모의 경우는 자연적인 물의 흐름을 이용하기도 함.

수력은 위치에너지를 이용하여 직접 전기를 생산하기 때문에 일차 전기 에너지에 해당됨. 그러나 전기 사용이 적은 시간 대에 전기를 이용하여 낮은 지역의 강이나 호수에서 물을 끌어올려 특별한 저수지에 담아두고 이를 전기 수요가 많은 시간대에 흘려 보내 전기를 생산하는 양수 발전량은 제외함.

바이오 및 폐기물 (Renewables & Other sources)

산업폐기물, 도시폐기물_재생, 도시폐기물_비재생, 고형바이오매스, 바이오가스, 매립지가스, 바이오휘발유, 바이오경유, 기타 바이오연료, 목탄의 합계.

지열, 태양 및 기타 (Geothermal, solar, etc.)

지열, 태양광, 태양열, 해양, 풍력의 합계.

기타에너지원 (Other sources)

기타에너지원의 대표적인 예로 연료전지가 있음. 연료전지는 연료(주로 수소)와 산화제(주로 산소)를 전기화학적으로 반응시켜 그 반응 에너지를 전기로 변환하는 직류발전장치임.

전기 (Electricity)

전기는 석탄, 천연가스, 석유, 폐자원 같은 가연성 연료의 연소를 통해 생산하거나 핵분열, 지열, 태양열 같은 열을 이용하여 생산하는 이차 전기 에너지와 수력, 풍력, 태양광 등과 같은 자연자원에서 얻는 일차 전기 에너지로 구분할 수 있음. 생산된 전기 에너지는 국내 또는 국제 송배전망을 통해 최종소비자에게 전달됨.

열 (Heat)

전기와 마찬가지로 에너지 캐리어의 한 형태인 열은 주로 난방 및 산업 공정 용도로 사용됨. 열 역시 이차에너지 상품인 동시에 일차에너지 상품이기도 한데, 지열이나 태양열 같이 자연에서 얻는 경우 '일차 열'이라 하고 핵연료의 핵분열, 석탄, 천연가스, 석유, 바이오매스 및 폐자원 같은 일차 가연성 연료를 연소시켜 생산하는 경우 '이차 열'이라고 함. 열은 산업용의 경우 비교적 높은 온도의 증기 상태로 공급되며 난방용의 경우 100℃ ~ 120℃의 중온수로 공급됨.

총에너지 (Total of all energy)

모든 에너지 상품의 합계.

메모: 신재생 (Memo: New and renewables)

2019년 10월 1일 개정 시행 이전의 「신에너지 및 재생에너지 개발·이용·보급 촉진법」에 따른 신재생에너지의 합계.

C. 기타 에너지 용어

- **냉난방도일(Heating and cooling degree days)** : 매일의 일평균기온과 기준 온도의 차이를 일별로 누적하여, 일평균기온이 24℃ 보다 높은 경우는 냉방도일로, 18℃보다 낮은 경우는 난방도일로 계산함.
- **발열량(Calorific value)** : 단위량의 연료가 일정조건하에서 완전 연소한 경우에 내는 열량.
- **브렌트유(Brent)** : 브렌트유(Brent crude oil)는 영국 북해 지역에서 생산되는 원유로 유럽과 아프리카 지역에서 거래되는 원유 가격을 결정하는 기준 원유임.
- **석유 의존도(Rate of dependence on oil)** : 일차에너지공급량(TPES) 중에서 원유 및 정제원료, 프로판, 부탄, 휘발유, 항공유, 등유, 경유, 중유, 납사 등 석유제품 전체가 차지하는 비중.
- **아랍 라이트(Arab light)** : 사우디아라비아산 원유 중 API도(미국 석유협회가 규정한 비중측정단위)가 약 34도인 원유를 말함. 중동 원유 중에서 생산량이 많으며, 표준적인 상태에서 원유가격을 설정할 시의 기준원유로서 채택되고 있었지만 1985년 1월의 OPEC 제73회 임시총회에서 기준원유 가격제도로 변경됨.
- **압축 천연가스(CNG, Compressed Natural Gas)** : 천연가스를 냉동, 압축하여 액화한 LNG(액화 천연가스)와는 달리 고압으로 압축하여 압력 용기에 저장한 형태를 말함.
- **액성 천연가스(NGL, Natural Gas Liquid)** : 가스전설비 또는 가스정제 공장의 분리기에서 액체상태로 회수되는 천연가스의 일부임. 액성 천연가스는 에탄, 프로판, 부탄, 펜탄, 천연가솔린 및 응축액을 포함하나 이에 국한하지는 않으며, 소량의 비탄화수소 성분을 포함하는 경우도 있음.

- **액화석유가스(LPG, Liquefied Petroleum Gas)** : 석유생산, 석유정제 또는 석유화학공업의 과정에서 부생되는 탄화수소를 분리 추출해, 상온·상압에서 가스 상태의 프로판, 부탄 등의 혼합기체를 가압 또는 냉각해 액화한 것. 가정용, 공업용, 내연기관용 연료, 도시가스의 원료로서 사용되고 있음.
- **양수 발전(Pumping-up power generation)** : 고지대에 저수지를 만들고 전력의 비수요기인 밤에 잉여전력을 이용하여 여기에 물을 모터펌프로 퍼올려 놓았다가 수요기에 저수지물을 낙하시켜 발전하는 방식으로 우리나라의 양수발전은 무주, 청평, 삼랑진, 산청, 양양 등에 있음.
- **에너지원단위(Energy intensity)** : 국내총생산(GDP) 대비 일차에너지공급량(TPES)의 비율로 정의되며, 경제활동에 투입된 에너지소비의 효율성을 평가하는 지표로서 산업구조, 부가가치, 에너지절약 및 이용효율 수준 등에 영향을 받음.
- **에너지 수입의존도(Rate of dependence on imports)** : 일차에너지공급량(TPES) 중 수입에너지가 차지하는 비중.
- **옥탄가(Octane number)** : 휘발류에 있어서 안티노크성(Anti-knocking)의 고저를 표시하는 상대적인 척도를 말함. 옥탄가는 이소옥탄(Iso-Octane)의 옥탄가를 100, 노말헵탄(n-Heptane)의 옥탄가를 0으로 정한 후, 휘발류와 같은 안티노크성을 갖는 표준연료(이소옥탄과 노말헵탄의 혼합물)에 함유된 이소옥탄의 부피(%)로 표시함. 옥탄가가 높을수록 안티노크성이 높은 것을 의미함.
- **전력화 비중(Electrification share)** : 최종소비 부문에서 전기 에너지 소비가 차지하는 비중.
- **콘덴세이트(Condensate)** : 일부 천연가스에 섞여 나오는 경질의 휘발성 액체 탄화수소로 여러 가지 의미가 혼용되고 있으나 일반적으로 콘덴세이트라 함은 API 40~50도 이상의 초경질 원유를 말함. 주성분은 납사이고 소량의 중간유분(등유유분, 경유유분) 및 잔사유분을 함유하고 있음.
- **현물가격(Spot price)** : 일반적으로는 상품을 현물거래하는 경우의 가격을 말함. 장기계약 등에 의하지 않기 때문에 수급의 상태에 따라 가격이 변함. 최근에는 원유 거래 시장에서 쓰이는 일이 많으며 원유의 현물시장에서 거래되는 원유가격임.
- **API(American Petroleum Institute)** : 원유나 석유제품의 비중을 나타내기 위한 지표로 미국석유회(API : American Petroleum Institute)가 제정한 화학적 석유비중 표시방법. 일반적으로 탄화수소가 많을수록 비중이 커지는데 보통 API 34도 이상의 원유를 경질원유, API 30~34도의 원유를 중질원유, API 30도 이하의 원유를 중질원유로 분류함.
- **BPSD(Barrel Per Stream Day)** : 석유정제설비의 능력을 표시하는 단위로서 연간 처리량을 가동일수로 나눈 값.
- **CIF(Cost, Insurance and Freight)** : 운임·보험료 포함가격(Cost, Insurance and Freight)으로, 무역거래의 기본조건으로서 가장 넓게 사용됨. 이 조건으로 수출계약을 체결한 판매자는 화물을 수출항의 본선에 선적할 때까지의 위험과 비용을 부담하는 이외에도 목적지까지의 운임과 보험료를 부담해야만 함.

- **FOB(Free On Board)** : 본선인도가격이라고도 불리며 CIF와 더불어 가장 많이 이용되는 무역조건임. 이 조건에서는 구매자의 본선에 화물을 적재할 때까지의 비용과 위험을 판매자가 부담함.
- **IEA(International Energy Agency)** : 국제 에너지기구의 약칭. 제1차 석유파기 후의 국제에너지 정세에 대응하기 위하여 미국의 제창에 의해 1974년 11월에 설립된 석유소비국의 국제기구임. 사무국은 파리의 경제협력개발기구 본부 내에 있으며 현재 가맹국은 31개국임(2022년 8월 기준). 설립 당초는 OPEC의 원유공급 삭감과 가격인상에 대응하는 것이 큰 목적이었지만, 최근에는 비상시의 석유유통과 대체에너지 개발협력 등에 중점을 둠.
- **OECD(Organization for Economic Cooperation and Development)** : 경제협력개발기구. 구주부흥계획(마셜플랜)을 담당했던 구주경제협력기구(OEEC)의 뒤를 이어 OEEC 18개국에 미국, 캐나다가 참가해 1961년 9월에 발족됨. 주요목적은 가맹국의 협력에 의한 경제성장, 무역확대, 개발도상국 원조를 추진하는 데 있으며 현재 38개국(2021년 5월 기준)이 가입해 있음.
- **OPEC(Organization of Petroleum Exporting Countries)** : 석유수출기구의 약칭. 1960년 9월 이라크, 쿠웨이트, 사우디아라비아, 베네수엘라, 이란의 5개국에 의해 설립되었으며, 본부는 빈에 있음. OPEC설립의 직접적인 원인은 1959년과 1960년 2회에 걸친 원유공시가격의 대폭적인 인하가 메이저에 의해 일방적으로 행해진 데에 있으며, 산유국간의 석유정책협조와 이를 위한 정보수집, 의견교환 등에 목적을 두고 있음.
- **OPEC 바스켓가격(OPEC Basket Price)** : OPEC 회원국들이 생산하는 원유 가격을 가중치에 따라 평균한 가격으로 OPEC이 국제유가의 지표로 삼는 수치임. 알제리의 사하란 블렌드(Saharan Blend), 나이지리아의 보니 라이트(Bonny Light), 사우디아라비아의 아랍 라이트(Arab Light) 등 10여개 유종으로 구성됨.
- **WTI(West Texas Intermediate, 서부 텍사스유)** : 미국에서 생산되는 대표적인 원유임. 뉴욕상품거래소에서 이루어지는 선물거래의 주요상품의 하나로 북해 브렌트유와 함께 구미 석유시장의 지표가 됨.

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