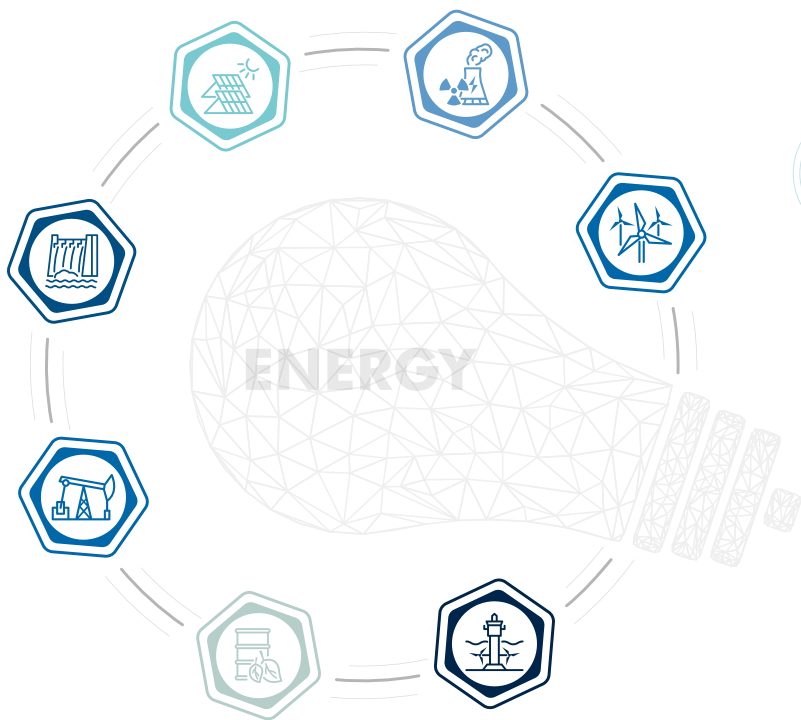




2023 자주찾는 에너지통계



01

에너지밸런스 개정에 따른 자주찾는 에너지통계 통계량의 변화

- 에너지경제연구원은 에너지수급통계 생산을 위한 작성 틀인 에너지밸런스를 전면 개정하였으며, 개정된 에너지밸런스는 새로운 에너지수급통계 작성 방법으로 통계변경 승인을 완료함(2022.10.17.).
 - 기존의 에너지밸런스(이하 구에너지밸런스)는 1980년대 구축된 이후 부분적인 수정만을 거쳐 왔기 때문에 최근의 복잡하고 다양화된 에너지수급 현황을 정확히 반영하는데 한계가 존재했음.
 - 이에 따라 에너지경제연구원은 국제기준(IEA)을 준용하면서 우리나라 에너지수급 현황을 가장 현실화할 수 있는 구조 설계와 작성 방법으로 개정된 에너지밸런스를 구축함.
 - 개정된 에너지밸런스는 에너지상품과 에너지흐름을 현실에 맞게 추가 및 세분화하여 구에너지밸런스가 갖고 있던 문제점들을 해소하고, 통계의 정확성을 제고함.
 - 개정된 에너지밸런스는 일 년의 기간에 대한 국가 에너지상품의 수급 흐름을 상세하게 표현하는 확장밸런스(Extended balances)와 에너지상품의 수급 흐름을 신속히 파악하는 것을 목적으로 한 달을 집계 기간으로 작성되는 간이밸런스(Simple balances)로 구성됨.
 - 구에너지밸런스: 에너지상품 29개, 에너지흐름 41개
 - 개정에너지밸런스(확장): 에너지상품 58개, 에너지흐름 88개
 - 개정에너지밸런스(간이): 에너지상품 41개, 에너지흐름 48개
- 에너지밸런스 변경 승인이 완료됨에 따라 에너지경제연구원은 에너지통계월보 2022년 12월호, 에너지통계연보 2022년호부터 개정된 에너지밸런스를 기준으로 작성된 통계량을 반영하여 발표함.
 - 에너지통계월보 및 연보는 자료의 시의성 확보 및 독자의 에너지통계 이해도 제고를 위하여 간이에너지밸런스를 기준으로 작성됨.
 - 이에 따라 2022 자주 찾는 에너지통계 또한 간이에너지밸런스 기준으로 개편되었음

01

Changes in statistics of this book according to the revision of the energy balance

- The Korea Energy Economics Institute (KEEI) has completely revised Energy balance, which serves as a framework for producing energy statistics on energy supply and demand. The revised energy balance has been approved as the new method for compiling energy statistics (Oct.17, 2022).
 - Due to its partial modifications since its establishment in the 1980s, the existing energy balances (hereinafter referred to as the previous energy balance) had limitations in accurately reflecting the complex and diversified energy supply and demand situation in recent years.
 - Accordingly, the KEEI has established revised energy balances that incorporate international standards (IEA standards) while adopting a structure and compiling methodologies that can most realistically reflect the energy supply and demand of the country.
 - The revised energy balances address the issues of the previous energy balances by adding and disaggregating energy commodities and energy flows in a manner that adequately reflects the reality, thereby enhancing the accuracy of the statistics.
 - The revised energy balances comprise two types of balances: extended balances, which offer a detailed information of the supply and demand flows of energy commodities over a one-year period, and simple balances, which are aggregated monthly to provide a rapid assessment of the supply and demand flow of energy commodities.
 - Previous energy balances: 29 energy commodities, 41 energy flows
 - Revised energy balances (extended): 58 energy commodities, 88 energy flows
 - Revised energy balances (simple): 41 energy commodities, 48 energy flows
- With the approval of the revised energy balances, KEEI has incorporated the statistics compiled using the revised energy balances in the Monthly Energy Statistics Report for Dec. 2022 and the Yearbook of Energy Statistics for 2022.
 - The Monthly Energy Statistics Report and the Yearbook of Energy Statistics are compiled in the form of simple energy balances to ensure timeliness and enhance users' comprehension of the energy statistics.
 - Also this book is compiled in the form of simple energy balances.

02

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

03

통계표의 수치는 해당기관의 사정에 의해 갱신될 수 있습니다.

04

2007년 이후 5년마다 개정된 열량을 적용하였습니다.

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)

06

통계표에 사용된 부호는 다음과 같습니다.

-	해당 숫자 없음
p	잠정치
e	추정치

02

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.

03

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

04

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

05

Abbreviations used in tables are as follows:

TPES	Total Primary Energy Supply
TFC	Total Final Consumption
Pop.	Population
Mil.	Million
Thou.	Thousand
Intl.	International

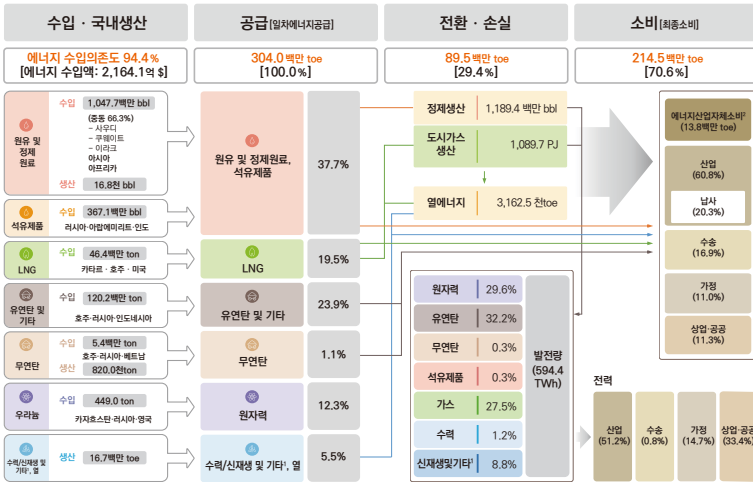
06

Symbols used in tables are as follows:

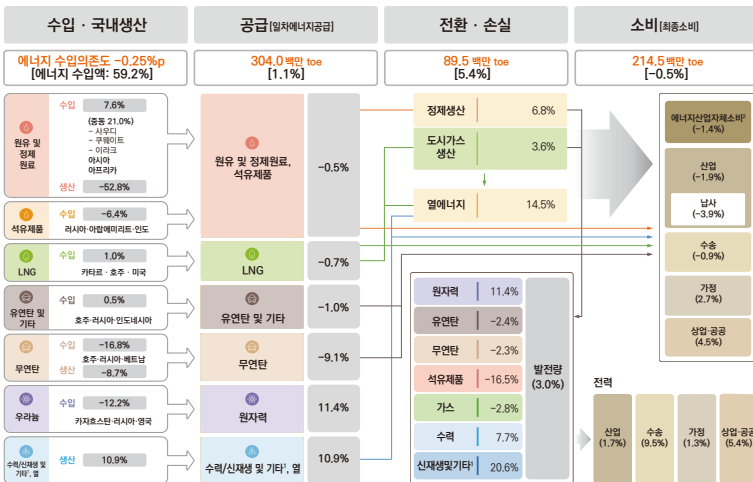
–	Nil
p	Preliminary
e	Estimate

2022년 에너지 수급 흐름

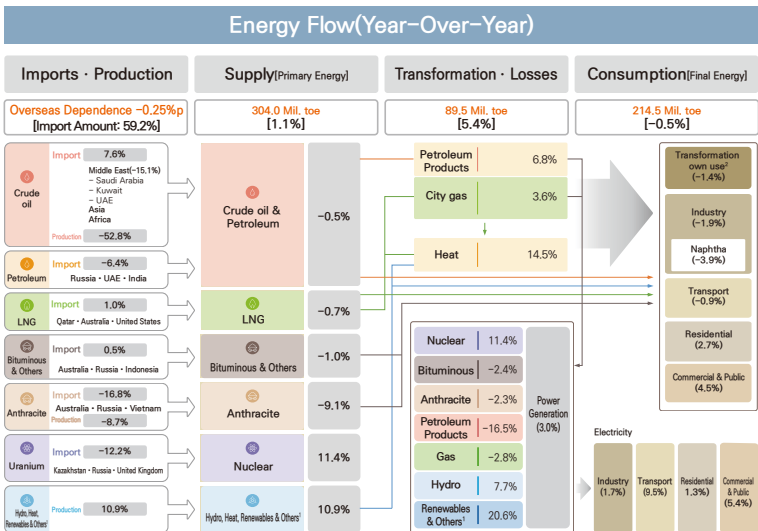
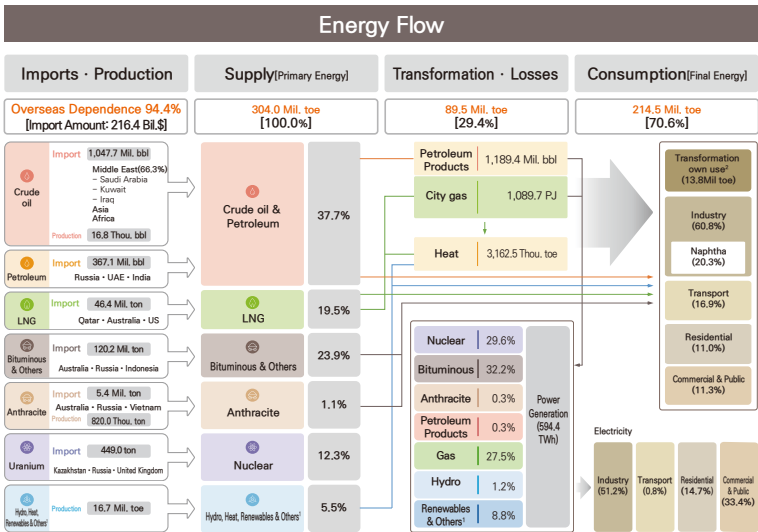
에너지 수급 흐름



에너지 수급 흐름(전년대비)



1. 신재생 및 기타: 바이오 및 폐기물, 지열, 태양 및 기타, 기타에너지원
2. 에너지산업자체소비는 에너지생산 플랜트의 활동을 유지하는데 사용되는 에너지 상품을 의미. 다른 에너지 상품으로 전환되지 않기 때문에 전환공정과 구별되며, 산업활동을 위한 에너지소비인 최종소비 산업부문에도 포함되지 않음.

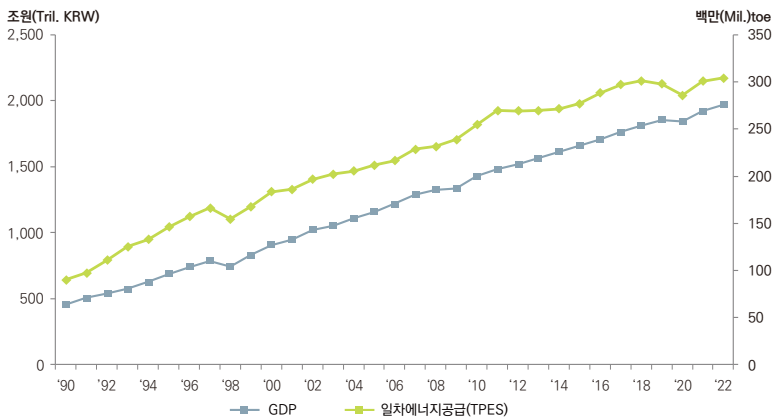


1. Renewables & Others: Biofuels and waste, Geothermal, solar, etc. Other sources
2. Transformation own use(energy industry own use) is distinct from the transformation process because it is not converted into other energy commodities and is not included in the final consumption, which is energy consumption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



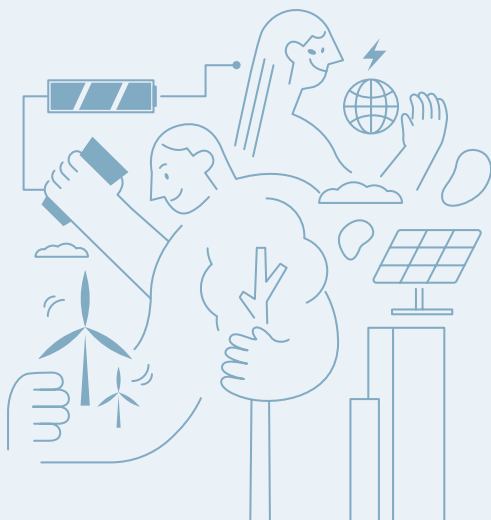
일차에너지공급 및 GDP 추이

Trends in Total Primary Energy Supply and GDP



2023

자주찾는 에너지통계



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우리나라 에너지 Energy in Korea



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1-1. 주요 에너지 지표

	GDP단위당 일차에너지 ¹ (toe/백만원)	1인당 일차에너지 (toe/인)	1인당 전력소비 (kWh/인)	1인당 가정용 전력소비 (kWh/인)	수입 의존도 ² (%)
1990	0.197	2.09	2,169	414	88.7 (73.9)
1991	0.192	2.24	2,373	450	92.2 (77.7)
1992	0.207	2.53	2,592	498	94.3 (81.6)
1993	0.219	2.83	2,843	541	95.5 (83.9)
1994	0.212	2.97	3,229	595	97.2 (86.2)
1995	0.213	3.23	3,567	628	97.7 (86.2)
1996	0.213	3.45	3,940	673	98.1 (86.3)
1997	0.212	3.61	4,290	708	98.3 (86.6)
1998	0.208	3.33	4,116	711	97.7 (83.2)
1999	0.202	3.59	4,524	742	97.9 (82.5)
2000	0.203	3.89	5,015	789	97.8 (82.9)
2001	0.196	3.92	5,357	828	98.0 (82.9)
2002	0.192	4.12	5,756	887	97.9 (82.8)
2003	0.192	4.21	6,020	931	97.6 (81.6)
2004	0.185	4.27	6,373	1,011	97.5 (81.6)
2005	0.183	4.39	6,774	1,056	97.5 (80.1)
2006	0.178	4.46	7,064	1,084	97.4 (80.2)
2007	0.177	4.69	7,430	1,113	97.5 (84.1)
2008	0.175	4.72	7,696	1,146	97.5 (83.5)
2009	0.178	4.84	7,837	1,168	97.4 (84.1)
2010	0.178	5.13	8,587	1,235	97.5 (85.0)
2011	0.182	5.39	8,924	1,233	97.4 (85.0)
2012	0.178	5.36	9,095	1,266	97.3 (85.5)
2013	0.172	5.34	9,210	1,269	97.1 (86.2)
2014	0.168	5.35	9,189	1,235	96.9 (84.8)
2015	0.167	5.43	9,261	1,250	96.8 (84.2)
2016	0.169	5.62	9,465	1,292	96.6 (84.7)
2017	0.169	5.78	9,641	1,295	96.1 (85.4)
2018	0.166	5.83	9,952	1,370	95.8 (86.3)
2019	0.161	5.75	9,805	1,361	95.7 (85.2)
2020	0.155	5.51	9,586	1,429	95.0 (83.1)
2021	0.157	5.81	10,056		94.8 (83.6)
2022	0.154	5.88	10,361	1,520	94.4 (82.0)
	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. 2015년 연쇄가격기준

2. ()는 원자력 발전을 국내생산에 포함시 수입의존도

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

1-1. Major Energy Indicators

석유의존도 (%)	일차에너지공급 (천toe)	최종소비 (천toe)	이산화탄소배출 ³ (백만톤 CO ₂ eq.)	
52.8	89,680	71,150	231.8	1990
54.4	96,801	80,179	255.8	1991
59.5	110,524	89,966	275.9	1992
60.3	124,999	99,400	302.9	1993
60.9	132,512	109,323	327.4	1994
60.3	145,618	116,508	357.3	1995
59.3	156,834	125,595	381.7	1996
58.1	165,754	134,489	402.3	1997
52.2	154,233	122,028	343.7	1998
51.9	167,341	133,014	378.2	1999
49.6	183,078	140,958	422.5	2000
48.6	185,809	143,589	431.0	2001
47.1	196,452	150,381	433.9	2002
46.0	201,738	153,972	436.0	2003
43.7	205,220	155,678	459.8	2004
41.8	211,344	158,478	457.7	2005
41.4	216,261	162,528	464.7	2006
44.4	228,129	167,225	477.4	2007
41.7	231,298	168,469	488.8	2008
42.1	238,416	169,567	502.1	2009
39.4	254,399	184,581	550.9	2010
37.4	269,199	193,726	573.8	2011
38.2	268,993	193,771	575.5	2012
37.6	269,531	195,292	574.6	2013
37.2	271,252	195,889	562.7	2014
38.4	276,793	199,347	582.0	2015
40.0	288,018	207,553	588.8	2016
39.1	296,719	212,431	599.8	2017
38.1	300,738	214,001	605.5	2018
38.8	297,612	211,733	587.2	2019
37.8	285,512	203,747	546.8	2020
38.3	300,515	215,664	558.6	2021
37.7	303,954	214,482	548.6	2022
Petroleum Dependence (%)	TPES (Thou. toe)	TFC (Thou. toe)	CO₂ Emissions³ (Mil. Tons CO₂eq.)	

1. Based on chained 2015 prices.

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	1,571	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
	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	13,404	5	-	3,997	1990
19,331	3,243	54,600	14,488	4	-	10,418	1991
20,190	3,892	69,996	17,587	2	112	13,769	1992
23,567	5,797	77,531	21,468	0	94	15,387	1993
25,904	7,795	80,727	24,514	104	148	13,791	1994
28,942	8,782	88,810	26,259	4	31	17,749	1995
30,616	12,035	101,430	27,411	1	280	22,691	1996
32,774	14,912	119,950	23,106	53	266	33,144	1997
34,450	13,246	112,392	21,498	3	48	42,233	1998
35,229	15,970	120,594	22,474	1	49	42,545	1999
41,943	19,811	123,049	25,389	3	129	43,375	2000
43,822	19,913	118,891	25,653	1	134	41,764	2001
46,058	23,390	109,680	28,670	1	163	33,383	2002
47,109	25,101	111,227	27,362	1	57	29,169	2003
51,995	28,316	113,564	23,906	7	17	32,617	2004
50,266	29,013	116,537	21,669	12	5	38,072	2005
52,053	32,832	121,897	23,281	9	4	40,250	2006
56,340	33,240	128,166	25,470	9	79	39,976	2007
63,723	35,436	127,156	27,410	26	314	45,249	2008
65,216	33,568	122,816	33,240	4	415	44,212	2009
75,340	42,384	128,349	34,228	8	620	47,947	2010
82,125	47,690	136,259	34,358	41	751	55,757	2011
78,261	47,184	138,986	37,636	20	460	59,383	2012
78,923	51,998	134,607	40,848	40	369	59,910	2013
81,782	48,388	136,928	40,758	28	185	62,593	2014
84,123	43,509	150,983	38,135	12	446	66,279	2015
83,621	43,623	158,918	40,924	1	670	67,840	2016
89,227	49,023	165,241	38,345	86	455	70,967	2017
89,484	57,484	165,588	41,639	47	764	74,067	2018
85,586	53,217	157,955	42,141	12	138	72,376	2019
74,875	52,217	145,093	41,319	110	80	65,209	2020
76,172	59,987	143,343	47,360	217	323	61,836	2021
75,794	60,683	156,690	43,277	19	331	68,988	2022
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. 국별 석탄 수입

단위: 천톤

	원료탄						
	합계	호주	캐나다	중국	미국	러시아	기타 ¹
1990	11,287	5,053	2,026	-	2,908	1,200	100
1991	15,572	6,876	5,130	500	2,850	216	-
1992	16,381	8,758	3,718	558	2,558	302	487
1993	17,321	9,394	4,348	796	2,294	-	489
1994	16,902	8,813	3,996	1,100	2,301	-	692
1995	17,151	8,410	4,251	1,072	2,324	347	747
1996	18,226	9,520	4,147	975	2,652	259	673
1997	17,395	9,709	3,907	707	2,254	195	623
1998	17,979	9,829	3,663	1,313	2,164	257	753
1999	17,227	9,437	3,057	2,134	1,586	308	705
2000	19,575	10,641	4,097	2,781	1,419	394	243
2001	17,899	11,396	3,337	2,341	571	187	67
2002	20,003	12,589	3,298	3,736	-	327	53
2003	20,315	12,535	3,026	3,781	-	937	36
2004	21,808	12,442	4,206	3,638	533	956	33
2005	20,627	11,664	4,315	3,258	901	489	-
2006	20,081	11,677	4,089	3,096	120	1,099	-
2007	22,532	14,362	5,034	2,172	252	712	-
2008	24,083	14,856	5,072	2,341	1,132	633	49
2009	20,659	12,577	4,371	1,313	1,642	725	31
2010	28,160	16,445	4,944	1,936	3,238	1,553	44
2011	32,234	16,281	6,560	1,922	5,213	2,258	-
2012	31,545	16,320	5,670	1,583	5,954	2,018	-
2013	30,194	15,697	5,450	825	3,536	2,378	2,308
2014	33,176	17,053	1,309	2,390	3,291	5,482	3,651
2015	33,933	21,706	4,813	1,061	2,639	3,532	182
2016	35,254	19,888	5,168	725	2,742	6,342	389
2017	35,851	18,799	5,482	484	3,264	6,885	938
2018	36,202	19,117	5,432	322	3,901	6,489	942
2019	34,947	18,072	6,247	378	2,687	5,937	1,626
2020	37,209	17,525	7,235	603	2,501	7,828	1,516
2021	35,923	22,416	6,391	32	1,040	4,156	1,887
2022	33,819	21,427	5,482	48	1,040	2,893	2,929
	Total	Australia	Canada	China	United States	Russia	Others ¹
	Cocking Coal						

1. 인도네시아, 남아프리카 등이 포함.

자료: OECD iLibrary

1-3. Coal Imports by Country

Unit: Thousand Tons

연료단							
합계	호주	캐나다	중국	미국	러시아	기타 ¹	
12,442	3,506	1,250	1,000	1,235	-	5,451	1990
13,522	4,750	102	3,500	1,190	303	3,677	1991
14,400	5,990	-	4,400	731	-	3,279	1992
20,060	6,200	1,443	4,974	1,352	678	5,413	1993
24,107	8,165	1,565	6,019	1,354	160	6,844	1994
28,680	9,464	2,156	7,209	2,150	533	7,168	1995
27,848	9,933	1,860	7,439	2,056	554	6,006	1996
34,602	12,769	1,992	8,181	1,301	533	9,826	1997
35,607	15,723	2,696	6,725	323	418	9,722	1998
37,342	12,249	2,364	11,611	185	561	10,372	1999
41,940	12,019	1,647	21,281	166	2,197	4,630	2000
44,380	13,345	2,114	25,020	71	1,699	2,131	2001
51,705	14,398	1,244	25,507	335	2,566	7,655	2002
53,090	13,809	741	27,145	171	2,097	9,127	2003
57,155	17,695	280	20,351	530	4,087	14,212	2004
56,131	19,207	4	17,580	365	3,018	15,957	2005
59,626	17,344	766	15,646	538	3,933	21,399	2006
65,753	14,799	1,059	17,748	71	5,643	26,433	2007
75,501	23,347	1,450	15,536	44	6,863	28,261	2008
82,323	30,353	3,306	8,353	200	3,994	36,117	2009
90,431	26,512	4,980	5,356	66	7,004	46,513	2010
96,916	28,470	7,944	3,254	854	10,474	45,920	2011
92,723	29,444	6,180	2,363	771	10,943	43,022	2012
96,313	34,754	7,434	2,203	2,524	13,001	36,397	2013
97,856	37,944	11,437	1,040	603	12,679	34,153	2014
99,971	39,446	4,520	641	1,328	19,536	34,500	2015
99,207	32,423	1,376	2,967	1,024	19,108	42,309	2016
103,031	30,763	3,786	1,997	1,827	18,112	46,545	2017
99,376	29,650	3,677	2,036	1,805	16,994	45,214	2018
101,882	33,327	3,692	1,514	1,743	17,624	43,982	2019
86,284	30,826	4,794	777	1,346	16,858	31,684	2020
89,694	40,281	4,284	265	1,746	14,313	28,804	2021
91,332	28,232	2,654	443	2,991	20,253	36,759	2022
Total	Australia	Canada	China	United States	Russia	Others ¹	
Steam Coal							

1. Includes Indonesia, South Africa, etc..

Source : OECD iLibrary

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	20,075
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
	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 ¹
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	32,603	5,451	7,449	4,745	4,557	232	1,030	9,140
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
	Total	Indonesia	Qatar	Malaysia	Oman	United States	Australia	Others ¹

1. 러시아, 나이지리아, 페루 등.

자료: 한국무역협회

1. Russia, Nigeria, Peru, etc.

Source: Korea International Trade Association



1-6. 일차에너지공급

단위: 천toe

	합계	석탄	무연탄		유연탄 및 기타	가스
1990	89,680	24,523	9,339	15,183	2,958	
1991	96,801	26,000	7,518	18,482	3,159	
1992	110,524	25,880	6,176	19,703	3,946	
1993	124,999	28,192	5,095	23,097	5,759	
1994	132,512	28,757	3,377	25,380	7,717	
1995	145,618	31,173	2,669	28,505	8,852	
1996	156,834	32,647	2,557	30,090	11,690	
1997	165,754	34,408	2,121	32,287	14,606	
1998	154,233	36,170	2,196	33,973	13,347	
1999	167,341	37,011	2,369	34,642	15,954	
2000	183,078	43,143	3,074	40,069	19,743	
2001	185,809	45,838	3,673	42,165	19,722	
2002	196,452	47,987	4,041	43,946	23,797	
2003	201,738	49,135	4,529	44,606	24,272	
2004	205,220	51,886	4,287	47,599	27,827	
2005	211,344	52,975	4,708	48,267	30,367	
2006	216,261	54,361	5,174	49,187	32,024	
2007	228,129	58,149	5,560	52,589	34,665	
2008	231,298	64,925	5,872	59,052	33,792	
2009	238,416	67,094	5,673	61,420	35,138	
2010	254,399	76,008	5,998	70,010	41,681	
2011	269,199	82,386	6,796	75,591	47,318	
2012	268,993	79,059	5,021	74,038	49,554	
2013	269,531	80,538	5,140	75,397	51,943	
2014	271,252	82,764	4,867	77,897	47,409	
2015	276,793	83,650	5,189	78,462	43,958	
2016	288,018	83,989	5,348	78,640	45,524	
2017	296,719	89,786	4,109	85,677	48,564	
2018	300,738	90,965	4,644	86,321	55,090	
2019	297,612	85,048	3,956	81,092	53,875	
2020	285,512	75,983	3,605	72,377	53,915	
2021	300,515	76,968	3,683	73,285	59,594	
2022	303,954	75,869	3,349	72,520	59,176	
	Total	Coal	Anthracite	Bituminous and Others	Natural gas	

주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

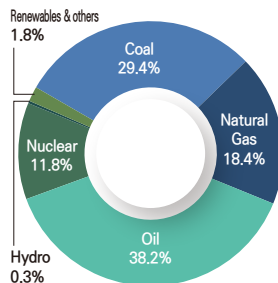
1-6. Total Primary Energy Supply

Unit: Thousand toe

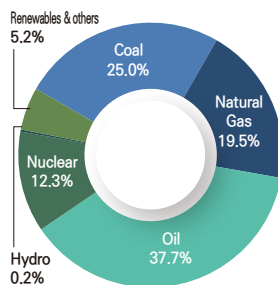
석유	원자력	수력	신재생 및 기타	열	
47,387	13,222	1,571	16	3	1990
52,668	14,078	872	21	3	1991
65,770	14,133	774	19	2	1992
75,432	14,535	1,057	22	3	1993
80,761	14,663	587	25	3	1994
87,804	16,757	690	337	3	1995
93,021	18,481	606	386	3	1996
96,246	19,271	703	517	2	1997
80,482	22,422	1,070	733	9	1998
86,770	25,766	1,040	793	7	1999
90,804	27,241	1,002	1,135	10	2000
90,213	28,033	582	1,407	13	2001
92,515	29,776	808	1,556	14	2002
92,871	32,418	1,226	1,796	20	2003
89,676	32,679	1,082	2,051	19	2004
88,431	36,695	919	1,946	12	2005
89,590	37,187	867	2,214	17	2006
101,219	30,731	781	2,569	14	2007
96,511	32,456	660	2,917	38	2008
100,303	31,771	616	3,447	49	2009
100,177	31,948	797	3,773	16	2010
100,622	33,265	989	4,483	135	2011
102,833	31,719	838	4,867	124	2012
101,306	29,283	906	5,442	113	2013
100,792	33,002	581	6,636	68	2014
106,386	34,765	454	7,455	125	2015
115,343	34,181	603	8,261	117	2016
116,067	31,615	601	9,959	127	2017
114,450	28,437	719	11,009	68	2018
115,408	31,079	594	11,541	66	2019
107,970	34,119	826	12,625	73	2020
115,204	33,657	651	14,373	68	2021
114,675	37,500	755	15,909	69	2022
Oil	Nuclear	Hydro	Renewables & others	Heat ¹	

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

● 2012 269.0 Mtoe



● 2022 304.0 Mtoe



1-7. 최종소비

단위: 천toe

	합계	석탄	천연가스	도시가스	석유제품
1990	71,150	20,528	5	1,012	41,592
1991	80,179	21,164	6	1,540	48,614
1992	89,966	19,950	9	2,216	58,023
1993	99,400	20,571	18	3,002	64,981
1994	109,323	19,568	15	4,029	73,288
1995	116,508	19,422	12	5,452	76,815
1996	125,595	20,589	1	6,929	81,458
1997	134,489	20,341	0	8,033	87,718
1998	122,028	19,415	0	8,370	76,239
1999	133,014	19,855	2	10,455	82,741
2000	140,958	21,217	207	12,510	84,410
2001	143,589	21,788	569	13,031	83,761
2002	150,381	22,827	623	14,305	86,296
2003	153,972	23,607	595	15,212	86,607
2004	155,678	23,511	765	15,912	85,687
2005	158,478	23,382	632	17,672	85,208
2006	162,528	23,908	1,318	17,963	86,256
2007	167,225	25,295	838	18,599	87,401
2008	168,469	27,283	714	19,632	84,046
2009	169,567	24,578	975	19,810	86,250
2010	184,581	30,381	996	22,361	89,023
2011	193,726	35,815	999	23,288	89,740
2012	193,771	33,336	1,060	24,464	89,418
2013	195,292	32,912	1,041	24,972	89,885
2014	195,889	35,813	1,018	21,488	90,741
2015	199,347	35,569	1,129	21,305	93,977
2016	207,553	34,370	1,797	21,928	99,827
2017	212,431	33,927	1,832	23,122	102,098
2018	214,001	34,297	1,773	23,793	100,411
2019	211,733	32,887	1,932	23,094	101,189
2020	203,747	31,152	2,119	22,632	95,850
2021	215,664	32,251	2,131	23,382	103,310
2022	214,482	30,563	2,227	23,837	101,602
	Total	Coal	Natural gas	City gas	Petroleum

주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

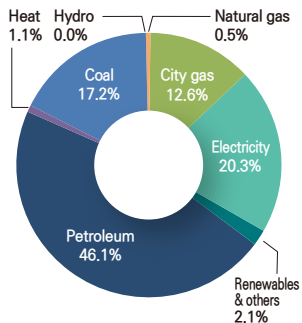
1-7. Total Final Consumption

Unit: Thousand toe

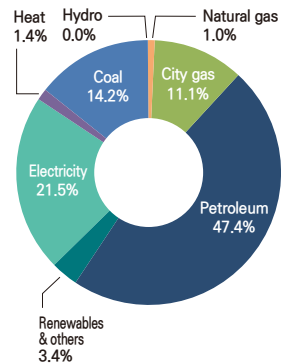
수력	신재생 및 기타	전기	열	
-	16	7,997	-	1990
-	21	8,835	-	1991
-	19	9,751	-	1992
-	22	10,806	-	1993
-	25	12,398	-	1994
-	337	13,832	637	1995
-	386	15,425	809	1996
-	517	16,953	928	1997
-	733	16,386	884	1998
-	792	18,136	1,033	1999
-	1,132	20,273	1,208	2000
-	1,403	21,822	1,217	2001
-	1,523	23,584	1,224	2002
4	1,755	24,796	1,395	2003
5	1,996	26,353	1,449	2004
0	1,860	28,072	1,652	2005
0	2,108	29,427	1,549	2006
0	2,407	31,108	1,576	2007
0	2,659	32,467	1,669	2008
11	2,994	33,235	1,715	2009
5	3,268	36,595	1,953	2010
0	3,605	38,325	1,954	2011
0	4,145	39,264	2,085	2012
1	4,490	39,943	2,049	2013
1	4,788	40,103	1,938	2014
1	4,830	40,630	1,905	2015
3	5,861	41,692	2,075	2016
2	6,564	42,586	2,300	2017
3	7,040	44,148	2,535	2018
1	6,508	43,649	2,471	2019
0	6,668	42,733	2,592	2020
1	7,141	44,748	2,701	2021
1	7,265	46,041	2,946	2022
Hydro	Renewables & others	Electricity	Heat	

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

● 2012 193.8 Mtoe



● 2022 214.5 Mtoe



1-8 부문별 최종소비

단위: 천toe

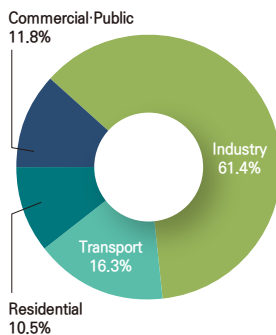
	합계	산업	석탄	천연가스	도시가스	석유제품	신재생 및 기타	전기	열
1990	71,150	36,799	11,942	5	235	19,642	-	4,975	-
1991	80,179	43,113	14,371	6	313	22,958	-	5,464	-
1992	89,966	50,075	14,945	9	377	28,841	-	5,904	-
1993	99,400	54,749	17,100	18	460	30,769	-	6,402	-
1994	109,323	61,692	17,514	15	601	36,358	-	7,203	-
1995	116,508	62,276	18,091	12	863	35,192	33	8,085	-
1996	125,595	67,032	19,721	1	1,158	37,191	13	8,949	-
1997	134,489	72,650	19,727	0	1,495	41,643	33	9,752	-
1998	122,028	71,775	18,930	0	1,813	41,679	246	9,107	-
1999	133,014	76,173	19,414	2	2,531	43,863	256	10,107	-
2000	140,958	80,963	20,746	207	3,308	45,031	624	11,047	-
2001	143,589	81,673	21,464	569	3,612	44,082	612	11,335	-
2002	150,381	85,167	22,507	623	3,984	45,450	542	12,060	-
2003	153,972	86,646	23,293	595	4,177	45,467	633	12,480	-
2004	155,678	88,125	23,046	765	4,382	46,044	758	13,130	-
2005	158,478	89,370	22,707	632	4,655	46,355	1,189	13,830	-
2006	162,528	92,241	23,128	1,318	4,847	47,289	1,202	14,458	-
2007	167,225	96,978	24,552	838	5,225	49,602	1,336	15,426	-
2008	168,469	98,110	26,464	714	5,933	47,435	1,476	16,089	-
2009	169,567	98,532	23,870	975	5,891	49,850	1,631	16,316	-
2010	184,581	109,981	29,695	996	7,329	51,961	1,550	18,449	-
2011	193,726	119,660	35,120	999	8,383	53,255	1,884	20,018	-
2012	193,771	118,914	32,689	1,060	9,443	53,084	2,076	20,562	-
2013	195,292	121,318	32,243	1,041	10,060	53,505	3,275	21,194	-
2014	195,889	122,898	35,235	1,018	7,684	54,194	2,980	21,788	-
2015	199,347	123,174	35,041	1,129	7,539	54,610	2,975	21,880	-
2016	207,553	127,696	33,918	1,797	7,456	58,705	3,655	22,165	-
2017	212,431	130,919	33,531	1,832	7,953	60,738	4,155	22,710	-
2018	214,001	130,769	33,965	1,773	7,842	59,619	4,281	23,289	1
2019	211,733	129,223	32,617	1,932	7,692	60,068	3,990	22,925	1
2020	203,747	124,013	30,912	2,119	7,345	57,699	4,030	21,908	1
2021	215,664	132,960	32,040	2,131	7,855	63,361	4,391	23,182	-
2022	214,482	130,463	30,364	2,227	7,784	62,048	4,471	23,570	-
	Total	Industry	Coal	Natural gas	City gas	Petroleum	Renewables & others	Electricity	Heat

1-8. Total Final Consumption by Sector

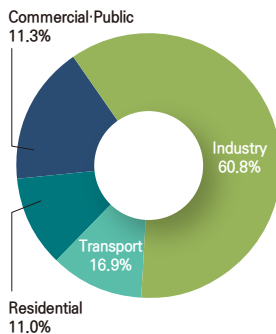
Unit: Thousand toe

수송	도시가스	석유제품	신재생 및 기타	전기	
12,141	-	12,054	-	87	1990
13,703	-	13,609	-	94	1991
15,514	-	15,413	-	101	1992
18,319	-	18,211	-	108	1993
20,352	-	20,227	-	124	1994
22,920	-	22,765	-	155	1995
24,430	-	24,285	-	145	1996
26,203	-	26,051	-	151	1997
20,481	-	20,345	-	136	1998
22,374	-	22,225	-	149	1999
25,007	-	24,832	-	175	2000
26,226	7	26,024	-	194	2001
28,008	80	27,733	-	195	2002
29,002	146	28,656	-	200	2003
29,178	237	28,729	-	213	2004
29,730	339	29,167	-	224	2005
30,928	475	30,192	43	218	2006
30,496	615	29,577	95	209	2007
30,007	777	28,858	177	196	2008
30,389	960	28,982	261	187	2009
31,010	1,112	29,352	357	188	2010
31,016	1,174	29,302	347	193	2011
31,502	1,246	29,706	357	194	2012
32,017	1,302	30,154	375	186	2013
32,407	1,306	30,534	394	172	2014
34,510	1,281	32,597	441	191	2015
36,030	1,270	34,006	523	231	2016
36,261	1,253	34,197	564	246	2017
36,227	1,238	34,038	686	265	2018
37,194	1,216	35,022	685	271	2019
34,746	1,099	32,667	695	285	2020
36,636	1,060	34,554	704	318	2021
36,294	1,025	34,238	682	349	2022
Transport	City gas	Petroleum	Renewables & others	Electricity	

● 2012 193.8 Mtoe



● 2022 214.5 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	9,477	3,341	1,920	2,150	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	12,076	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	18,064	325	8,636	3,574	65	4,181	1,283
2005	19,754	483	9,344	4,024	79	4,375	1,449
2006	19,613	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	20,496	531	10,100	2,757	71	5,295	1,743
2012	20,407	489	10,147	2,384	91	5,464	1,832
2013	20,185	507	10,024	2,199	157	5,501	1,797
2014	18,905	446	9,141	2,097	111	5,390	1,720
2015	18,971	410	9,130	2,064	217	5,486	1,663
2016	20,140	351	9,647	2,382	299	5,691	1,771
2017	20,918	307	10,238	2,323	375	5,720	1,955
2018	22,114	258	10,901	2,335	417	6,079	2,125
2019	21,466	186	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	23,560	182	11,469	2,026	695	6,756	2,432
	Residential	Coal	City gas	Petroleum	Renewables & Others	Electricity	Heat

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

Unit: Thousand toe

산업·공공	석탄	도시가스	석유제품	수력	신재생 및 기타	전기	열	
10,948	563	323	8,642	-	11	1,409	-	1990
13,063	446	418	10,585	-	14	1,601	-	1991
14,509	188	503	11,934	-	11	1,872	-	1992
16,855	130	623	13,850	-	13	2,239	-	1993
18,045	77	770	14,398	-	13	2,787	-	1994
20,600	5	935	16,202	-	266	3,159	34	1995
22,421	3	1,161	17,173	-	340	3,696	48	1996
23,561	2	1,254	17,581	-	414	4,253	57	1997
18,810	22	1,227	12,770	-	423	4,313	55	1998
20,630	20	1,526	13,631	-	475	4,906	72	1999
18,704	21	1,849	10,449	-	430	5,860	95	2000
18,671	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
19,625	191	3,333	5,663	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
21,005	194	3,592	4,734	0	941	11,346	198	2008
21,297	157	3,591	4,604	11	967	11,779	189	2009
22,857	143	3,785	4,735	5	1,283	12,694	211	2010
22,554	163	3,630	4,426	0	1,304	12,819	211	2011
22,948	157	3,628	4,245	0	1,622	13,044	252	2012
21,772	162	3,586	4,027	1	683	13,061	252	2013
21,679	132	3,357	3,916	1	1,302	12,754	218	2014
22,692	118	3,355	4,706	1	1,197	13,073	242	2015
23,686	101	3,555	4,734	3	1,385	13,605	304	2016
24,333	88	3,677	4,841	2	1,471	13,909	345	2017
24,890	74	3,812	4,419	3	1,656	14,516	410	2018
23,850	85	3,708	3,948	1	1,323	14,393	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
24,165	17	3,558	3,290	1	1,418	15,367	514	2022
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(%)	석유· 화학(A)							신재생 및 기타	전기
				석탄	천연 가스	도시 가스	석유제품					
1990	32,968	23,943	72.6	9,335	173	-	13	8,331	-	818		
1991	39,049	29,139	74.6	11,832	209	-	17	10,644	-	961		
1992	45,384	35,213	77.6	16,679	296	-	25	15,274	-	1,084		
1993	49,942	39,242	78.6	18,686	441	-	28	16,999	-	1,218		
1994	56,561	44,469	78.6	23,027	464	-	34	21,209	-	1,319		
1995	56,904	43,970	77.3	21,596	609	-	54	19,516	-	1,416		
1996	61,079	45,579	74.6	23,292	697	-	77	20,949	-	1,569		
1997	66,085	49,907	75.5	27,504	767	-	110	24,887	-	1,740		
1998	66,083	50,659	76.7	29,879	777	-	164	27,041	172	1,726		
1999	70,114	52,688	75.1	30,989	810	-	214	27,970	143	1,852		
2000	74,538	56,625	76.0	33,471	1,436	-	319	29,565	168	1,983		
2001	74,683	56,780	76.0	33,283	1,400	-	333	29,326	178	2,046		
2002	78,240	59,349	75.9	35,255	1,430	-	400	31,016	259	2,150		
2003	80,189	61,185	76.3	36,359	1,331	-	447	32,096	260	2,225		
2004	81,759	62,741	76.7	37,665	1,524	-	437	33,097	269	2,338		
2005	83,314	63,274	75.9	38,596	1,390	-	450	34,221	131	2,404		
2006	85,810	65,751	76.6	39,917	1,448	-	398	35,444	192	2,436		
2007	90,696	70,274	77.5	43,124	1,302	-	760	38,319	196	2,548		
2008	92,354	71,909	77.9	42,668	1,430	-	1,157	37,202	178	2,699		
2009	92,239	70,982	77.0	45,155	1,517	-	1,077	39,628	184	2,750		
2010	103,634	80,109	77.3	48,795	2,321	-	1,648	41,704	154	2,967		
2011	113,497	88,274	77.8	52,848	3,024	-	2,207	44,079	215	3,322		
2012	112,825	87,546	77.6	53,395	2,824	-	2,150	44,777	171	3,473		
2013	115,055	89,150	77.5	55,179	2,382	-	3,240	45,657	321	3,579		
2014	117,327	92,419	78.8	55,253	2,606	-	1,609	47,155	132	3,751		
2015	117,437	91,993	78.3	56,028	2,967	-	1,391	47,556	301	3,812		
2016	121,692	94,818	77.9	60,293	3,320	-	1,012	51,394	602	3,965		
2017	124,566	97,110	78.0	62,141	2,888	-	998	53,246	905	4,103		
2018	124,603	97,885	78.6	63,028	2,786	-	1,994	52,607	1,405	4,236		
2019	123,472	97,326	78.8	62,649	2,632	-	1,794	52,823	1,186	4,215		
2020	118,238	92,636	78.3	60,389	2,759	-	1,777	50,473	1,122	4,259		
2021	127,345	100,061	78.6	67,023	2,886	76	1,979	55,960	1,528	4,593		
2022	125,050	97,220	77.7	66,164	2,913	316	1,922	55,032	1,386	4,594		
	Manufacturing	Energy- Consuming Industries	Share(%)	Chemical and petrochemical	Coal	Natural gas	City gas	Petroleum	Renewables & others	Electricity		

1-9. Energy Consumption of Energy-Intensive Industries

Unit: Thousand Tons

비금속 (B)						1차 금속(C)							
	석탄	도시 가스	석유 제품	신재생 및 기타	전기		석탄	천연 가스	도시 가스	석유 제품	신재생 및 기타	전기	
4,416	2,660	37	1,235	-	484	10,192	8,311	-	64	952	-	865	1990
5,101	3,152	50	1,336	-	563	12,206	10,172	-	86	1,051	-	898	1991
5,622	3,428	60	1,519	-	616	12,911	10,579	-	103	1,303	-	926	1992
6,104	4,060	71	1,290	-	682	14,452	11,856	-	126	1,386	-	1,083	1993
6,931	4,418	87	1,673	-	753	14,512	11,569	-	171	1,607	-	1,165	1994
7,008	4,508	108	1,589	-	802	15,367	12,175	-	209	1,598	-	1,385	1995
6,281	3,800	114	1,543	-	825	16,006	12,713	-	270	1,468	-	1,556	1996
6,828	4,351	146	1,473	5	852	15,574	12,541	-	344	889	-	1,800	1997
5,182	3,313	157	1,031	17	665	15,597	12,779	-	372	713	-	1,733	1998
5,472	3,346	213	1,148	48	718	16,227	12,974	2	503	1,113	-	1,634	1999
6,060	3,503	252	1,136	397	772	17,094	13,597	207	647	923	-	1,720	2000
6,155	3,613	265	1,105	372	800	17,342	13,693	569	715	684	-	1,681	2001
6,191	3,742	274	1,123	198	853	17,904	14,155	590	719	680	-	1,760	2002
6,540	4,000	308	1,072	276	885	18,287	14,523	545	797	625	-	1,798	2003
6,193	3,504	337	1,082	400	870	18,883	14,863	704	885	592	-	1,839	2004
5,832	3,173	356	1,086	372	845	18,846	14,715	561	972	611	8	1,979	2005
6,029	3,127	513	1,086	416	887	19,805	14,914	1,216	1,032	547	-	2,097	2006
6,002	3,132	470	1,019	426	955	21,147	16,257	709	1,219	495	124	2,343	2007
6,227	3,246	417	954	629	981	23,015	17,925	564	1,249	436	112	2,729	2008
5,625	2,767	442	862	588	966	20,201	15,469	674	1,239	270	112	2,436	2009
5,919	2,830	456	929	706	999	25,394	19,939	743	1,460	279	7	2,966	2010
6,195	3,129	474	882	694	1,017	29,231	23,513	785	1,392	232	7	3,302	2011
5,753	2,849	572	632	760	940	28,397	22,863	829	1,333	136	5	3,231	2012
5,855	2,863	613	514	899	966	28,116	22,574	784	1,376	106	4	3,271	2013
5,892	3,028	566	457	839	1,001	31,274	25,683	740	1,267	100	13	3,472	2014
5,854	2,864	546	540	871	1,034	30,111	24,810	851	1,155	106	7	3,182	2015
5,682	2,828	523	582	667	1,081	28,843	23,578	966	1,191	80	4	3,024	2016
5,260	2,472	534	512	658	1,085	29,709	24,304	1,019	1,238	90	4	3,055	2017
4,956	2,196	549	534	633	1,045	29,901	24,601	992	1,239	68	4	2,997	2018
5,281	2,361	578	635	700	1,008	29,395	24,176	1,093	1,232	76	11	2,805	2019
4,803	2,015	531	566	732	959	27,444	22,792	1,266	1,030	70	11	2,275	2020
5,097	2,160	553	524	853	1,006	27,941	23,506	1,033	1,096	67	12	2,228	2021
5,155	2,142	532	474	991	1,015	25,902	21,797	742	1,076	56	3	2,228	2022
Non-Metallic	Coal	City gas	Petroleum	Renewables & others	Electricity	Iron-Steel	Coal	Natural gas	City gas	Petroleum	Renewables & others	Electricity	

1-10. 천연가스 수급

단위: 천톤

	공급			
	국내생산	수입	재고	일차에너지공급
1990	-	2,237	46	2,275
1991	-	2,494	110	2,430
1992	-	2,994	68	3,036
1993	-	4,459	97	4,430
1994	-	5,996	157	5,936
1995	-	6,756	103	6,810
1996	-	9,258	369	8,992
1997	-	11,471	605	11,235
1998	-	10,189	527	10,267
1999	-	12,284	539	12,272
2000	-	15,239	591	15,187
2001	-	15,318	738	15,171
2002	-	17,993	426	18,305
2003	-	19,308	1,063	18,671
2004	163	21,781	1,602	21,405
2005	398	22,317	959	23,359
2006	355	25,256	1,936	24,634
2007	271	25,569	1,111	26,665
2008	181	27,259	2,558	25,994
2009	383	25,822	1,734	27,029
2010	415	32,603	2,689	32,063
2011	347	36,685	3,323	36,398
2012	334	36,184	1,840	38,001
2013	355	39,876	2,237	39,834
2014	247	37,107	3,234	36,357
2015	144	33,366	3,034	33,710
2016	118	33,453	1,695	34,911
2017	261	37,537	2,308	37,185
2018	234	44,015	4,374	42,183
2019	198	40,748	4,069	41,252
2020	142	39,982	2,886	41,282
2021	42	45,932	3,207	45,631
2022	-	46,394	4,351	45,242
	Production	Imports	Stock	TPES
	Supply			

1. 석유정제, LNG 생산기지 및 발전소 시운전 등.

2. 최종소비.

자료 : 한국가스공사, LNG 직도입사, 한국무역협회

1-10 . Natural Gas Overview

Unit: Thousand Tons

소비					
발전전용	열병합·열전용	가스제조	에너지산업자체소비 ¹	산업 ²	
1,741	-	572	-	4	1990
1,800	-	875	-	5	1991
2,019	206	1,250	-	7	1992
1,661	857	1,834	-	14	1993
1,709	1,620	2,442	-	12	1994
1,680	1,882	3,408	-	9	1995
2,427	2,195	4,581	-	0	1996
3,147	2,229	5,770	233	0	1997
2,466	1,723	6,233	221	0	1998
2,858	1,909	7,886	305	2	1999
2,575	1,954	9,528	337	160	2000
3,004	1,846	10,299	398	438	2001
4,086	1,968	11,169	54	479	2002
4,116	1,933	11,939	164	458	2003
6,281	1,973	12,456	487	589	2004
6,664	1,959	13,978	211	486	2005
7,981	2,033	13,879	185	1,014	2006
7,823	3,706	14,350	136	645	2007
7,495	4,021	15,201	173	549	2008
6,421	3,479	15,328	52	750	2009
9,462	5,127	17,354	274	766	2010
12,707	3,465	18,090	470	769	2011
13,747	4,095	19,381	363	813	2012
15,663	4,201	19,400	144	798	2013
14,132	3,591	17,967	111	781	2014
12,533	3,249	16,732	56	866	2015
12,465	3,756	17,184	121	1,378	2016
12,581	3,840	18,199	363	1,403	2017
15,791	4,573	19,624	919	1,357	2018
15,201	4,205	18,633	1,487	1,479	2019
14,650	5,329	18,045	1,848	1,623	2020
17,338	5,910	19,118	1,817	1,632	2021
16,128	6,579	19,643	1,514	1,703	2022
Electricity-only	CHP/Heat-only	Gas manufacturing	Transformation own use ¹	Industry ²	
Consumption					

1. LNG consumption in oil refinery, LNG terminals and trial run of power plants.

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	재고
1990	-	310,494	74.3	-	4,500
1991	-	399,976	73.7	-	5,637
1992	-	512,082	74.7	601	6,907
1993	-	566,233	76.9	503	8,826
1994	-	586,912	76.6	794	19,476
1995	-	644,020	77.9	167	14,224
1996	-	737,722	77.7	1,502	16,479
1997	-	877,676	73.9	1,430	15,527
1998	-	822,564	75.9	257	6,509
1999	-	881,320	72.3	282	8,475
2000	-	899,809	76.8	743	8,917
2001	-	868,237	77.0	770	8,491
2002	-	800,488	73.3	932	11,089
2003	-	812,494	79.5	326	32,373
2004	-	830,674	78.1	96	30,300
2005	407	851,327	81.8	29	20,209
2006	333	892,296	82.2	21	28,074
2007	236	873,674	80.7	489	17,631
2008	155	866,659	86.3	1,686	16,123
2009	321	837,008	84.5	2,233	11,682
2010	380	874,666	81.8	3,330	13,577
2011	285	928,736	87.1	4,039	17,634
2012	263	949,058	85.1	2,473	19,677
2013	290	918,634	86.0	1,988	26,069
2014	198	933,736	84.0	992	34,161
2015	115	1,030,315	82.3	2,400	44,935
2016	104	1,084,066	85.9	3,597	49,109
2017	217	1,124,938	81.7	2,447	50,741
2018	189	1,126,403	73.5	4,124	59,367
2019	155	1,075,973	70.2	769	52,761
2020	103	987,422	69.0	448	50,884
2021	36	973,734	59.8	1,782	48,956
2022	17	1,047,685	67.4	1,848	52,246
	Production	Imports	Dependence on Middle East	Exports	Stock

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	전환공정 ¹	정제원료			정제능력 ³	
		원유	정제원료	기타 ²		
313,963	313,973	312,045	1,928	-	840	1990
398,839	398,877	398,030	846	-	1,035	1991
510,338	510,450	508,619	1,830	-	1,675	1992
563,812	564,548	558,537	6,011	-	1,675	1993
575,467	576,085	563,819	12,266	-	1,700	1994
649,105	649,293	631,266	18,027	-	1,818	1995
733,966	734,715	720,131	14,584	-	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	1,029,608	1,014,957	14,105	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	1,089,285	980,379	108,939	-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
TPES	Transformation processes	Crude oil	Refinery feedstocks	Others	Refining capacity	

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					
	수입	수출	국제병커링	재고	일차에너지공급	정제생산
1990	101,248	27,184	28,800	19,576	40,098	300,671
1991	110,042	69,744	37,780	20,256	1,838	403,172
1992	137,011	91,653	46,800	30,829	-6,887	498,179
1993	167,759	103,493	49,612	33,934	11,975	532,859
1994	190,790	93,132	57,131	36,352	38,109	568,034
1995	205,428	122,630	65,812	37,636	15,703	630,447
1996	215,124	158,329	78,097	42,480	-26,146	711,091
1997	185,811	231,050	85,613	48,785	-136,697	877,979
1998	175,895	296,682	84,170	46,427	-202,580	831,686
1999	184,490	297,899	90,849	42,785	-200,723	882,503
2000	204,301	303,723	86,266	49,343	-192,548	898,150
2001	204,757	292,469	84,520	48,743	-171,636	875,425
2002	228,543	235,567	85,181	42,770	-86,232	818,580
2003	219,897	203,343	90,960	41,638	-73,245	797,438
2004	195,110	227,306	95,034	49,853	-135,444	841,987
2005	179,354	262,647	95,725	42,588	-169,499	886,181
2006	191,560	278,632	90,973	45,528	-181,396	894,250
2007	209,130	279,659	94,500	43,415	-162,651	890,883
2008	224,614	317,870	88,709	38,834	-177,384	875,161
2009	267,832	312,654	81,534	35,815	-123,336	846,060
2010	276,849	340,597	87,436	40,346	-153,952	900,247
2011	279,260	394,944	86,801	39,836	-201,682	944,587
2012	309,599	425,574	85,120	46,527	-207,786	978,095
2013	329,205	429,291	85,548	49,243	-186,766	967,180
2014	326,623	448,822	86,802	49,361	-209,090	988,461
2015	307,875	477,425	93,774	51,412	-265,370	1,072,558
2016	334,608	487,716	105,124	50,162	-255,629	1,118,794
2017	314,487	509,113	103,695	51,867	-299,983	1,185,996
2018	341,628	531,563	102,293	62,772	-303,132	1,207,900
2019	352,147	522,099	94,656	54,709	-256,545	1,196,345
2020	347,302	468,529	90,868	53,557	-210,942	1,112,863
2021	392,317	446,559	89,844	52,402	-142,976	1,113,422
2022	367,072	497,020	102,335	52,353	-232,234	1,189,404
	Imports	Exports	International Bunkers	Stock	TPES	Petroleum Refining Production
	Supply					

1. 가정, 상업, 공공부문 합계

자료: 한국석유공사-PEDSIS

1-12. Petroleum Products Overview

Unit: Thousand Barrels

소비						
발전 및 열생산 투입	에너지산업 자체소비	최종소비	산업	수송	건물 ¹	
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
50,752	9,799	471,282	219,823	131,569	119,890	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	112,622	2000
44,720	32,992	625,752	326,851	192,874	106,027	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
29,785	32,920	640,864	349,108	215,907	75,849	2005
30,707	32,838	650,245	357,382	223,716	69,147	2006
31,389	34,043	664,737	376,104	223,823	64,809	2007
18,150	38,291	641,487	361,752	218,940	60,795	2008
24,119	36,935	660,470	381,381	220,471	58,619	2009
22,370	33,486	681,595	397,694	223,353	60,548	2010
16,144	36,212	685,590	406,387	222,535	56,668	2011
23,699	38,174	699,879	419,861	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	43,815	734,541	433,558	247,511	53,472	2015
20,557	46,091	782,758	469,195	257,307	56,256	2016
9,245	40,467	801,275	487,121	257,708	56,447	2017
9,706	41,509	788,210	478,445	256,066	53,700	2018
7,396	41,642	796,132	483,878	263,189	49,065	2019
5,420	41,306	752,269	462,169	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
Power Generator & Others	Energy Industry Own Use	TFC	Industry	Transport	Building ¹	
			Consumption			

1. 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
	Total	Growth rate(%)	Solar Thermal	Solar Photovoltaic	Bio	Bio Gas	LFG	Bio Diesel

주 : 합계에는 해양 에너지 포함.

자료 : 한국에너지공단

1-13. New & Renewable Energy Production

Unit: Thousand toe

			풍력	수력	연료전지	폐기물	지열	
우드칩	성형탄	임산연료						
-	-	-	-	-	-	-	-	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
Wood Chips	Wood Briquette	Firewood	Wind	Hydro	Fuel Cells	Waste	Geothermal	

Note : Total includes ocean energy.

Source : Korea Energy Agency

1-14. 전력 공급

	발전설비 (MW)							
		수력	기력 ¹	복합화력	내연력	원자력	집단	대체 ²
1990	21,021	2,340	9,912	840	313	7,616	-	-
1991	21,111	2,445	9,912	760	378	7,616	-	-
1992	24,120	2,498	9,912	3,760	388	7,616	-	-
1993	27,654	2,504	11,972	5,173	389	7,616	-	-
1994	28,750	2,493	13,032	5,334	275	7,616	-	-
1995	32,184	3,093	14,032	6,184	259	8,616	-	-
1996	35,715	3,094	14,022	8,719	264	9,616	-	-
1997	41,042	3,115	16,078	11,269	265	10,316	-	-
1998	43,406	3,131	17,209	10,785	265	12,016	-	-
1999	46,978	3,148	18,909	10,935	271	13,716	-	-
2000	48,451	3,149	20,059	11,257	271	13,716	-	-
2001	50,859	3,876	21,559	11,436	273	13,716	-	-
2002	53,801	3,876	21,749	12,186	275	15,716	-	-
2003	56,053	3,877	21,749	13,086	246	15,716	1,296	83
2004	59,961	3,879	23,311	14,313	252	16,716	1,382	108
2005	62,258	3,883	23,811	15,015	297	17,716	1,382	156
2006	65,514	5,485	24,391	16,004	297	17,716	1,382	240
2007	68,268	5,492	26,491	16,511	303	17,716	1,382	374
2008	72,491	5,505	29,731	17,044	307	17,716	1,460	728
2009	73,470	5,515	29,571	17,575	347	17,716	1,610	1,136
2010	76,078	5,525	29,571	19,100	351	17,716	2,067	1,749
2011	79,342	6,418	29,571	19,799	355	18,716	2,623	1,859
2012	81,806	6,446	29,371	19,799	367	20,716	2,768	2,338
2013	86,969	6,454	29,371	23,473	330	20,716	3,106	3,519
2014	93,216	6,467	29,611	27,296	330	20,716	4,323	4,474
2015	97,649	6,471	29,611	28,512	330	21,716	5,360	5,649
2016	105,866	6,485	33,746	28,512	329	23,116	6,200	7,477
2017	116,908	6,489	38,265	32,416	339	22,529	7,682	9,187
2018	119,092	6,490	38,358	31,224	339	21,850	9,208	11,623
2019	125,338	6,508	38,101	32,846	341	23,250	9,191	15,101
2020	129,191	6,506	37,951	33,013	176	23,250	9,191	19,105
2021	134,020	6,541	38,429	33,013	177	23,250	9,229	23,381
2022	138,195	6,513	38,269	33,013	137	24,650	8,919	26,694
	Generating Facilities (MW)	Hydro	Steam ¹	Combined Cycle	Internal Combustion	Nuclear	District Energy	Alternative Energy

1. 석탄화력, 석유화력, LNG, 한전구입량 포함.

2. 신재생 및 기타(중류타펠, 여열화수, 천연가스압터빈, 부생가스)

주 1) 성용자가 제외

2) 2001.4.2. 발전부문 분리

자료 : 한국전력공사(한국전력통계)

1-14. Electricity Supply

발전량 (GWh)	수력	기력 ¹	복합화력	내연력	원자력	집단 & 대체	
107,670	6,361	47,374	619	429	52,887	-	1990
118,619	5,051	56,000	785	472	56,311	-	1991
130,963	4,863	63,532	5,464	574	56,530	-	1992
144,437	6,006	70,465	9,188	640	58,138	-	1993
164,993	4,098	85,408	16,047	789	58,651	-	1994
184,661	5,478	90,808	20,521	825	67,029	-	1995
205,494	5,201	98,654	26,943	772	73,924	-	1996
224,445	5,404	106,813	34,424	718	77,086	-	1997
215,300	6,099	92,432	26,505	575	89,689	-	1998
239,325	6,066	101,138	28,675	382	103,064	-	1999
266,400	5,610	124,669	26,863	294	108,964	-	2000
285,224	4,151	139,582	29,033	325	112,133	-	2001
306,474	5,311	143,370	38,337	353	119,103	-	2002
322,452	6,887	145,148	40,375	370	129,672	-	2003
342,148	5,861	145,810	55,452	407	130,715	3,903	2004
364,639	5,189	151,477	57,457	575	146,779	3,163	2005
381,181	5,219	156,290	67,138	677	148,749	3,108	2006
403,125	5,042	174,245	76,405	578	142,937	3,916	2007
422,355	5,563	184,385	74,519	503	150,958	6,428	2008
433,604	5,641	207,391	64,486	697	147,771	7,618	2009
474,660	6,472	212,291	94,012	731	148,596	12,558	2010
496,893	7,831	212,018	101,479	821	154,723	20,021	2011
509,574	7,652	218,430	110,882	752	150,327	21,531	2012
517,148	8,394	220,266	124,400	741	138,784	24,563	2013
521,971	7,820	211,734	111,711	656	156,407	33,644	2014
528,091	5,796	216,955	100,598	643	164,762	39,337	2015
540,441	6,634	222,844	96,922	573	161,995	51,473	2016
553,530	6,995	237,636	99,619	513	148,427	60,340	2017
570,647	7,270	238,297	116,836	528	133,505	74,210	2018
563,040	6,247	222,065	110,289	579	145,910	77,951	2019
552,162	7,148	191,102	111,759	405	160,184	81,564	2020
576,809	6,737	192,599	130,358	491	158,015	88,609	2021
594,400	7,256	188,928	123,996	570	176,054	97,597	2022
Power Generation (GWh)	Hydro	Steam	Combined Cycle	Internal Combustion	Nuclear	District/Alternative Energy ²	

1. Includes coal mix, oil thermal, LNG and the purchased power.

2. Renewables and Others(waste heat in distillation tower, waste heat recovery, natural gas pressure turbine and by-product gas)

Notes 1) Excludes Non-utility in Common use

2) On Apr.2, 2001, KEPCO's power generation division was divided into 6 generation subsidiary companies and a Power Exchange.

Source : Korea Electric Power Corporation(Statistics of electric power in Korea)

1-15. 부문별 전력 소비

단위: GWh

	합계	농림어업	광업	제조업	석유·화학	비금속
1990	92,985	1,458	1,011	55,381	9,511	5,633
1991	102,729	1,778	1,005	60,755	11,172	6,544
1992	113,385	2,157	923	65,567	12,601	7,160
1993	125,656	2,220	868	71,360	14,160	7,936
1994	144,158	2,918	868	79,971	15,342	8,752
1995	160,843	3,370	1,020	89,618	16,463	9,325
1996	179,358	3,857	1,049	99,148	18,248	9,589
1997	197,126	4,176	1,000	108,218	20,232	9,913
1998	190,538	4,024	973	100,898	20,066	7,738
1999	210,879	4,572	952	111,999	21,533	8,354
2000	235,730	5,306	1,003	122,146	23,054	8,981
2001	253,739	5,985	1,074	124,739	23,795	9,306
2002	274,234	6,156	1,155	132,925	24,995	9,923
2003	288,327	5,944	1,205	137,966	25,870	10,286
2004	306,429	6,511	1,269	144,891	27,181	10,119
2005	326,419	7,007	1,317	152,495	27,954	9,829
2006	342,173	7,296	1,393	159,426	28,324	10,319
2007	361,726	7,795	1,484	170,093	29,624	11,105
2008	377,519	8,389	1,446	177,244	31,389	11,408
2009	386,450	9,145	1,350	179,225	31,978	11,230
2010	425,518	10,042	1,683	202,804	34,496	11,620
2011	445,637	10,575	1,928	220,268	38,630	11,822
2012	456,554	12,074	1,616	225,407	40,383	10,928
2013	464,451	13,062	1,478	231,904	41,612	11,236
2014	466,317	13,556	1,571	238,216	43,615	11,643
2015	472,446	14,645	1,631	238,148	44,326	12,023
2016	484,795	15,397	1,755	240,580	46,099	12,575
2017	495,186	15,981	1,746	246,340	47,710	12,612
2018	513,354	17,126	1,478	252,193	49,256	12,147
2019	507,549	17,305	1,493	247,775	49,012	11,724
2020	496,890	17,037	1,552	236,161	49,520	11,154
2021	520,326	18,496	1,807	249,257	53,405	11,700
2022	535,364	19,286	1,759	253,021	53,422	11,798
	Total	Agriculture-Fishery	Mining	Manufacturing	Chemical and petrochemical	Non-Metallic

1-15. Electricity Consumption by End-Use Sector

Unit: GWh

		수송	가정	상업·공공	
1차급속	기타				
10,064	30,173	1,012	17,735	16,388	1990
10,440	32,598	1,091	19,482	18,618	1991
10,767	35,039	1,175	21,796	21,768	1992
12,596	36,668	1,258	23,916	26,034	1993
13,552	42,326	1,444	26,554	32,403	1994
16,101	47,729	1,802	28,303	36,729	1995
18,088	53,224	1,682	30,642	42,979	1996
20,936	57,138	1,761	32,515	49,455	1997
20,147	52,947	1,580	32,913	50,150	1998
19,004	63,108	1,730	34,581	57,045	1999
19,997	70,114	2,037	37,102	68,137	2000
19,550	72,088	2,257	39,211	80,472	2001
20,461	77,546	2,271	42,278	89,448	2002
20,902	80,908	2,331	44,572	96,309	2003
21,384	86,206	2,475	48,615	102,668	2004
23,013	91,699	2,601	50,873	112,126	2005
24,380	96,403	2,534	52,522	119,002	2006
27,241	102,124	2,433	54,174	125,747	2007
31,733	102,714	2,277	56,228	131,935	2008
28,329	107,688	2,174	57,595	136,961	2009
34,494	122,195	2,191	61,194	147,604	2010
38,392	131,425	2,246	61,564	149,055	2011
37,571	136,525	2,250	63,536	151,671	2012
38,033	141,022	2,168	63,970	151,869	2013
40,367	142,591	1,999	62,675	148,299	2014
36,998	144,801	2,217	63,794	152,011	2015
35,159	146,747	2,689	66,173	158,202	2016
35,524	150,493	2,864	66,517	161,737	2017
34,852	155,939	3,080	70,687	168,789	2018
32,617	154,422	3,156	70,455	167,365	2019
26,452	149,034	3,315	74,074	164,752	2020
25,906	158,246	3,701	77,558	169,506	2021
25,902	161,900	4,053	78,557	178,687	2022
Iron/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			
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	1,267	1,118	158	1,208	1,113	95
2001	1,277	1,131	159	1,217	1,102	115
2002	1,340	1,186	167	1,224	1,118	106
2003	1,419	1,110	330	1,395	1,151	244
2004	1,447	1,163	304	1,449	1,283	166
2005	1,729	1,325	415	1,652	1,449	202
2006	1,588	1,208	397	1,549	1,367	182
2007	1,610	1,143	481	1,576	1,391	185
2008	1,738	1,347	429	1,669	1,472	198
2009	1,765	1,349	465	1,715	1,525	189
2010	1,593	1,475	134	1,953	1,742	211
2011	2,029	1,946	218	1,954	1,743	211
2012	2,576	2,447	253	2,085	1,832	252
2013	2,028	1,942	200	2,049	1,797	252
2014	2,065	1,992	141	1,938	1,720	218
2015	2,625	2,570	180	1,905	1,663	242
2016	2,526	2,394	249	2,075	1,771	304
2017	2,436	2,401	163	2,300	1,955	345
2018	2,620	2,518	170	2,535	2,125	410
2019	2,740	2,567	239	2,471	2,080	391
2020	2,777	2,633	217	2,592	2,200	393
2021	2,762	2,602	227	2,701	2,265	435
2022	3,162	2,893	338	2,946	2,432	514
	Transformation processes	CHP plants	Heat-only plants	TFC	Residential	Commercial & Public

1. 발전전용 포함

1. Includes electricity only plants

1-17. 우리나라의 에너지 위상

Korea's Energy Ranks

	일차에너지¹ (백만toe)	석유소비² (백만톤)	석유정제능력² (천배럴/일)	전력소비¹ (TWh)	1인당 일차에너지¹ (toe/인)	1인당 전력소비¹ (kWh/인)
1	중국	미국	미국	중국	카타르	아이슬란드
	China	United States	United States	China	Qatar	Iceland
	3,751	823	18,061	8,307	15.96	51,070
2	미국	중국	중국	미국	아이슬란드	노르웨이
	United States	China	China	United States	Iceland	Norway
	2,139	659	17,259	4,170	15.76	24,177
3	인도	인도	러시아	인도	바레인	바레인
	India	India	Russia	India	Bahrain	Bahrain
	944	237	6,821	1,345	10.97	22,482
4	러시아	사우디아라비아	인도	러시아	트리니다드토바고	카타르
	Russia	Saudi Arabia	India	Russia	Trinidad and Tobago	Qatar
	833	166	5,045	1,040	10.05	18,124
5	일본	러시아	한국	일본	아랍에미리트	쿠웨이트
	Japan	Russia	Korea	Japan	United Arab Emirates	Kuwait
	400	161	3,363	1,001	9.16	17,308
6	브라질	일본	사우디아라비아	한국	브루나이	핀란드
	Brazil	Japan	Saudi Arabia	Korea	Brunei	Finland
	299	152	3,312	592	9.10	15,644
7	이란	한국	일본	브라질	쿠웨이트	아랍에미리트
	Iran	Korea	Japan	Brazil	Kuwait	United Arab Emirates
	294	124	3,164	571	8.44	15,161
8	한국	브라질	이란	캐나다	캐나다	캐나다
	Korea	Brazil	Iran	Canada	Canada	Canada
	292	116	2,670	564	7.59	14,737
9	캐나다	캐나다	브라질	독일	지브롤터	스웨덴
	Canada	Canada	Brazil	Germany	Gibraltar	Sweden
	290	98	2,304	543	7.58	13,015
10	독일	독일	독일	프랑스	한국(17위)	한국(14위)
	Germany	Germany	Germany	France	Korea	Korea
	288	97	2,121	471	5.62	11,402
세계 World	13,963	4,246	101,912	24,901	1.80	3,212
	TPES (Mil. toe)	Petroleum Consumption (Mil. tons)	Oil Refinery (Thou. Barrels/Day)	Electricity Consumption (TWh)	TPES per Capita (toe/Capita)	Elec. Consumption per Capita (kWh/Capita)

1. IEA World Energy Statistics and Balances (2021년 기준)

2. Statistical Review of World Energy, BP, 2023 (2022년 기준)

1-18. 에너지 소비자 가격

	무연탄 ¹ (원/톤)	연탄 ² (원/장)	휘발유 ³	등유 ³	경유 ³	중질중유	프로판 ⁴ (원/kg)
			(원/ℓ)				
1990	40,740	185	384	191	182	95	415
1991	40,740	185	481	227	182	95	430
1992	40,740	185	556	236	199	97	449
1993	40,740	185	610	254	214	102	460
1994	40,740	185	611	271	227	106	475
1995	40,740	185	598	262	239	129	490
1996	40,740	185	676	315	301	157	510
1997	42,849	185	839	374	376	196	599
1998	48,827	185	1,123	524	553	292	815
1999	55,455	185	1,192	491	522	242	678
2000	62,210	185	1,248	560	613	304	809
2001	62,210	185	1,280	580	645	320	919
2002	62,474	185	1,269	554	678	323	887
2003	65,598	199	1,295	639	772	339	980
2004	69,025	202	1,365	752	908	367	1,050
2005	76,197	202	1,432	871	1,080	420	1,132
2006	81,110	202	1,492	932	1,228	483	1,243
2007	89,220	230	1,526	932	1,273	527	1,331
2008	103,841	283	1,692	1,239	1,614	757	1,790
2009	116,809	319	1,601	976	1,397	719	1,577
2010	123,680	391	1,710	1,076	1,503	772	1,813
2011	131,456	391	1,929	1,321	1,746	987	2,034
2012	142,230	391	1,986	1,394	1,806	1,089	2,106
2013	142,230	391	1,924	1,367	1,730	935	2,085
2014	142,230	391	1,827	1,297	1,637	886	2,113
2015	142,230	391	1,510	947	1,300	604	1,801
2016	145,106	410	1,403	784	1,183	524	1,689
2017	154,720	472	1,491	853	1,283	620	1,834
2018	167,164	561	1,581	942	1,392	724	1,920
2019	179,380	657	1,472	962	1,341	734	1,870
2020	179,380	657	1,381	854	1,190	570	1,851
2021	179,380	657	1,591	947	1,391	732	2,092
2022	179,380	657	1,813	1,474	1,843	1,082	2,478
	Anthracite ¹ (KRW/Ton)	Briquette ² (KRW/each)	Gasoline ³	Kerosene ³	Diese Oil ³	Bunker-C	Propane ⁴ (KRW/kg)
			(KRW/ℓ)				

1. 일일평균가격(4,400~4,599 kcal/kg⁷기준)

2. 서울시 3.6kg 연탄가격 기준

3. 주유소 판매가격

4. 일반용 프로판의 판매소 판매가격.

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

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

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

1-18. Consumer Prices of Energy

부탄 ⁵		도시가스 ⁶			전력				
일반용 (원/kg)	자동차용 (원/ℓ)	가정용	산업용	업무용	가정용	산업용	일반용	농업용	
		(원/Nm ³ , 원/MJ)			(원/kWh)				
-	-	285	207	214	69	-	-	34	1990
-	-	285	199	211	73	-	-	34	1991
-	-	290	194	221	81	-	-	34	1992
-	-	295	194	230	82	-	-	36	1993
-	-	296	197	231	86	46	87	35	1994
-	-	301	197	237	86	47	89	36	1995
-	-	302	197	242	89	48	90	37	1996
-	-	326	207	266	92	50	93	39	1997
-	-	432	283	378	101	55	104	44	1998
-	-	404	248	357	103	55	102	44	1999
-	-	464	294	417	107	58	106	43	2000
1,139	440	498	369	496	112	62	108	44	2001
1,108	458	423	323	440	110	60	104	43	2002
1,193	567	452	357	469	108	60	101	43	2003
1,235	674	474	380	491	110	60	97	42	2004
1,305	723	486	396	503	111	60	95	42	2005
1,392	748	569	486	586	114	62	98	43	2006
1,454	774	599	509	616	114	65	98	42	2007
1,898	1,009	643	550	662	115	66	95	42	2008
1,885	829	690	629	744	114	74	99	42	2009
2,072	952	717	662	785	120	77	99	43	2010
2,277	1,076	784	724	838	120	81	102	43	2011
2,352	1,102	848	793	891	124	93	112	43	2012
2,338	1,071	21	19	22	127	101	122	46	2013
2,369	1,051	22	21	23	125	107	130	47	2014
2,034	806	19	16	19	124	107	130	47	2015
1,914	734	15	13	16	122	107	130	47	2016
2,075	826	16	13	16	109	107	130	48	2017
2,177	875	15	13	15	107	106	130	47	2018
2,140	806	16	14	16	105	107	130	48	2019
2,148	791	15	13	15	108	107	132	48	2020
2,415	932	14	14	17	109	105	128	46	2021
2,855	1,082	17	26	29	121	119	139	57	2022
Residential- Commercial (KRW/kg)	Automobile (KRW/ℓ)	Residential	Industrial	Commercial	Residential	Industrial	Public- Service	Agricultural	
		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

단위: 엑사줄

	2010	2020	2021	2030
일차에너지공급	541	624	632	668
신재생	43	71	75	120
바이오매스	25	24	24	19
원자력	30	31	29	37
천연가스	115	146	144	148
CCUS 적용 천연가스	0	1	1	1
OIL	173	182	187	195
석탄	153	167	170	147
CCUS 적용 석탄	-	0	0	0
최종에너지	383	436	442	482
전력	64	87	89	108
액체연료	154	168	172	186
기체연료	58	72	71	78
고체연료	95	92	93	90
열	12	15	15	16
	2010	2020	2021	2030

자료: IEA, 「World Energy Outlook 2023」

1-19. World Energy Outlook

Unit: EJ(Exa Joule)

2040	2050	2022년 이후연평균 증가율 (%)		
		2030	2050	
692	725	0.7	0.5	Total energy supply
178	227	6.0	4.0	Renewables
18	16	-3.0	-1.4	Traditional use of biomass
43	48	2.9	1.8	Nuclear
143	142	0.3	-0.0	Unabated natural gas
2	3	10.0	6.2	Natural gas with CCUS
187	186	0.5	-0.0	Oil
119	101	-1.8	-1.8	Unabated coal
0	1	23.0	13.0	Coal with CCUS
509	536	1.1	0.7	Total final consumption
135	159	2.5	2.1	Electricity
183	185	0.9	0.2	Liquid fuels
82	85	1.2	0.6	Gaseous fuels
87	84	-0.4	-0.3	Solid fuels
16	16	1.1	0.3	Heat
2040	2050	2030	2050	
		CAAGR(%) 2022 to		

Source: IEA, 「World Energy Outlook 2023」

02

에너지 밸런스 Energy Balances



02 에너지 밸런스

2-1. 1990년

2-2. 2000년

2-3. 2010년

2-4. 2012년

2-5. 2013년

2-6. 2014년

2-7. 2015년

2-8. 2016년

2-9. 2017년

2-10. 2018년

2-11. 2019년

2-12. 2020년

2-13. 2021년

2-14. 2022년

02 Energy in Korea



2-1. 1990

2-2. 2000

2-3. 2010

2-4. 2012

2-5. 2013

2-6. 2014

2-7. 2015

2-8. 2016

2-9. 2017

2-10. 2018

2-11. 2019

2-12. 2020

2-13. 2021

2-14. 2022

2-1. 1990년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎞)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 ¹⁾ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	17,217	-	-	-	-	52,887	6,283	16	-	3	22,560
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	6,283	16	-	3	89,680
제품이동	-	-	-	14	-19	-	-	-	-	-	3
통계오차	1,268	41	256	-4	-6,062	-	-	-	-	-	91
일차에너지소비	44,631	2,317	256	313,973	34,017	52,887	6,283	16	-	3	89,775
전환공정	-7,737	-2,313	708	-313,973	270,951	-52,887	-6,283	-	107,605	76	-16,533
발전전용	-7,737	-1,741	-	-	-29,720	-52,887	-6,283	-	107,605	-3	-17,152
열병합	-	-	-	-	-	-	-	-	-	79	79
열전용	-	-	-	-	-0	-	-	-	-	-	-0
석유제품생산	-	-	-	-313,973	300,671	-	-	-	-	-	540
가스제조	-	-572	708	-	-	-	-	-	-	-	-
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	-	-	-	-
전환자세소비	-	-	-	-0	-6,177	-	-	-	-9,000	-	-1,529
손실	-	-	-	-	-	-	-	-	-5,619	-79	-563
최종소비	36,894	4	963	-	298,791	-	-	16	92,985	-	71,150
산업	18,334	4	223	-	136,088	-	-	-	57,850	-	36,799
농림어업	522	-	0	-	12,701	-	-	-	1,458	-	2,212
광업	6	-	-	-	974	-	-	-	1,011	-	237
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	-	9,335
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	242	4	9	-	7,449	-	-	-	525	-	1,281
기타에너지	9	-	-	-	90	-	-	-	-	-	20
건설업	39	-	-	-	8,789	-	-	-	-	-	1,381
수송	-	-	-	-	87,424	-	-	-	1,012	-	12,141
철도	-	-	-	-	2,082	-	-	-	1,012	-	392
도로	-	-	-	-	81,682	-	-	-	-	-	11,202
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 feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
7,748	-	-	-	-	13,222	1,571	16	-	3	22,560	Production
15,832	2,909	-	42,465	13,404	-	-	-	-	-	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	1,571	16	-	3	89,680	Total primary energy supply
-	-	-	3	1	-	-	-	-	-	3	Transfers
694	54	268	-1	-924	-	-	-	-	-	91	Statistical differences
25,217	3,012	268	42,930	3,536	13,222	1,571	16	-	3	89,775	Total primary energy consumption
-4,688	-3,007	743	-42,930	38,811	-13,222	-1,571	-	9,254	76	-16,533	Transformation processes
-4,688	-2,264	-	-	-4,658	-13,222	-1,571	-	9,254	-3	-17,152	Electricity-only plants
-	-	-	-	-	-	-	-	-	79	79	CHP plants
-	-	-	-	-0	-	-	-	-	-	-0	Heat-only plants
-	-	-	-42,930	43,470	-	-	-	-	-	540	Petroleum Products
-	-743	743	-	-	-	-	-	-	-	-	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	-	-	-	-	Non-specified Transformation
-	-	-	-0	-755	-	-	-	-774	-	-1,529	Transformation Own Use
-	-	-	-	-	-	-	-	-483	-79	-563	Losses
20,528	5	1,012	-	41,592	-	-	16	7,997	-	71,150	Total final consumption
11,942	5	235	-	19,642	-	-	-	4,975	-	36,799	Industry
237	-	0	-	1,849	-	-	-	125	-	2,212	Agriculture/forestry/Fishing
3	-	-	-	148	-	-	-	87	-	237	Mining and quarrying
11,690	5	235	-	16,276	-	-	-	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	-	9,335	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
126	5	9	-	1,096	-	-	-	45	-	1,281	Other manufacturing
6	-	-	-	14	-	-	-	-	-	20	Other energy
12	-	-	-	1,369	-	-	-	-	-	1,381	Construction
-	-	-	-	12,054	-	-	-	87	-	12,141	Transport
-	-	-	-	305	-	-	-	87	-	392	Rail
-	-	-	-	11,202	-	-	-	-	-	11,202	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 feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

2-2. 2000년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎥)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 ¹⁾ (천toe)	전기 (GWh)	열 (천toe)	합계 (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	-303,723	-	-	-	-	-	-43,507
국제병커링	-	-	-	-86,266	-	-	-	-	-	-	-13,097
재고변화	-1,019	-52	-	-442	-6,861	-	-	-	-	-	-1,764
일차에너지공급	67,296	15,187	-	898,624	-192,548	108,964	4,010	1,135	-	10	183,078
제품이동	-	-	-	891	-878	-	-	-	-	-	48
통계오차	1,586	-633	383	-1,971	3,238	-	-	-	-	-	824
일차에너지소비	68,883	14,554	383	897,544	-190,188	108,964	4,010	1,135	-	10	183,950
전환공정	-36,155	-14,057	11,531	-897,543	856,999	-108,964	-4,010	-2	264,838	1,104	-33,849
발전전용	-36,155	-2,575	-	-	-32,247	-108,964	-4,010	-2	264,838	-10	-36,869
열병합	-	-1,954	-266	-	-6,281	-	-	-	-	954	-2,853
열전용	-	-	-	-	-2,715	-	-	-	-	159	-267
석유제품생산	-	-	-	-897,543	898,150	-	-	-	-	-	6,126
가스제조	-	-9,528	11,797	-	-	-	-	-	-	-	-
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-8,171
기타전환	-	-	-	-	-	-	-	-	-	-	-964
전환자제소비	-	-337	-	-0	-36,267	-	-	-	-16,690	-	-8,171
손실	-	-	-	-	-	-	-	-	-12,418	104	-964
최종소비	32,728	160	11,914	-	630,544	-	-	1,132	235,730	1,217	140,966
산업	31,681	160	3,151	-	334,302	-	-	624	128,455	-	80,963
농림어업	161	-	12	-	24,905	-	-	-	5,306	-	4,138
광업	1	-	2	-	362	-	-	-	1,003	-	143
제조업	31,518	160	3,137	-	295,387	-	-	624	122,146	-	74,538
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	2,175	-	304	-	230,727	-	-	168	23,054	-	33,471
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	-	-	-	-	-	23,550
국내해운	-	-	-	-	6,125	-	-	-	-	-	930
국내항공	-	-	-	-	108	-	-	-	-	-	15
가정	1,000	-	7,003	-	29,545	-	-	78	37,102	1,102	16,273
상업 공공	47	-	1,761	-	83,077	-	-	430	68,137	115	18,723
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
1,868	-	-	-	-	27,241	1,002	1,135	-	10	31,255	Production
41,943	19,811	-	123,049	25,389	-	-	-	-	-	210,191	Imports
-3	-	-	-129	-43,375	-	-	-	-	-	-43,507	Exports
-	-	-	-	-13,097	-	-	-	-	-	-13,097	International Bunkers
-664	-68	-	-62	-970	-	-	-	-	-	-1,764	Stock changes
43,143	19,743	-	122,858	-32,054	27,241	1,002	1,135	-	10	183,078	Total primary energy supply
-	-	-	166	-117	-	-	-	-	-	48	Transfers
1,061	-823	402	-302	485	-	-	-	-	-	824	Statistical differences
44,204	18,920	402	122,721	-31,686	27,241	1,002	1,135	-	10	183,950	Total primary energy consumption
-22,988	-18,274	12,107	-122,721	122,393	-27,241	-1,002	-2	22,776	1,104	-33,849	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	-	-	-	-	954	-2,853	CHP plants
-	-	-	-	-426	-	-	-	-	159	-267	Heat-only plants
-	-	-	-122,721	128,848	-	-	-	-	-	6,126	Petroleum Products
-	-12,387	12,387	-	-	-	-	-	-	-	-	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	-	-	-	-	Non-specified Transformation
-	-438	-	-0	-6,298	-	-	-	-1,435	-	-8,171	Transformation Own Use
-	-	-	-	-	-	-	-	-1,068	104	-964	Losses
21,217	207	12,510	-	84,410	-	-	1,132	20,273	1,217	140,966	Total final consumption
20,746	207	3,308	-	45,031	-	-	624	11,047	-	80,963	Industry
69	-	13	-	3,600	-	-	-	456	-	4,138	Agriculture/forestry/Fishing
0	-	2	-	54	-	-	-	86	-	143	Mining and quarrying
20,676	207	3,294	-	39,232	-	-	624	10,505	-	74,538	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
1,436	-	319	-	29,565	-	-	168	1,983	-	33,471	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
-	-	-	-	24,832	-	-	-	175	-	25,007	Transport
-	-	-	-	337	-	-	-	175	-	513	Rail
-	-	-	-	23,550	-	-	-	-	-	23,550	Road
-	-	-	-	930	-	-	-	-	-	930	Domestic navigation
-	-	-	-	15	-	-	-	-	-	15	Domestic aviation
450	-	7,353	-	4,099	-	-	78	3,191	1,102	16,273	Residential
21	-	1,849	-	10,449	-	-	430	5,860	115	18,723	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

2-3. 2010년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎞ ³)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 ¹⁾ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	2,084	415	-	380	-	148,596	3,705	3,773	-	16	38,097
수입	119,304	32,603	-	874,666	276,849	-	-	-	-	-	280,301
수출	-12	-	-	-3,330	-340,597	-	-	-	-	-	-48,576
국제병커링	-	-	-	-	-87,436	-	-	-	-	-	-13,140
재고변화	-317	-956	-	-1,896	-2,767	-	-	0	-	-	-2,283
일차에너지공급	121,059	32,063	-	869,820	-153,952	148,596	3,705	3,773	-	16	254,399
제품이동	-	-	-	520	-2,072	-	-	-	-	-	-89
통계오차	4,255	921	517	-737	-2,411	-	-	0	-	-	4,171
일차에너지소비	125,314	32,984	517	869,604	-158,435	148,596	3,705	3,773	-	16	258,482
전환공정	-79,078	-31,943	20,678	-869,469	873,516	-148,596	-3,682	-503	471,945	1,593	-63,610
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	1,475	-4,960
열전용	-	-	-592	-	-2,403	-	-	-	-	134	-868
석유제품생산	-	-	-	-869,469	900,247	-	-	-	-	-	-387
가스제조	-	-17,354	21,436	-	-4,361	-	-	-	-	-	-370
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	42	-	-	42
전환자제소비	-	-274	-	-135	-33,486	-	-	-2	-28,962	-	-9,133
손실	-	-	-	-	-	-	-	-	-17,466	345	-1,157
최종소비	46,236	766	21,195	-	681,595	-	23	3,268	425,518	1,953	184,581
산업	44,820	766	6,947	-	397,694	-	-	1,550	214,529	-	109,981
농림어업	524	-	4	-	16,348	-	-	10	10,042	-	3,454
광업	0	-	0	-	662	-	-	-	1,683	-	240
제조업	44,294	766	6,942	-	363,444	-	-	1,540	202,804	-	103,634
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	-	48,795
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	-	40	566	-	1,889	-	-	-	20,207	-	2,651
기타제조	4,180	155	658	-	10,122	-	-	6	1,874	-	4,998
기타에너지	-	-	-	-	6,410	-	-	25	544	-	1,030
건설업	2	-	0	-	17,241	-	-	0	-	-	2,653
수송	-	-	1,054	-	223,353	-	-	357	2,191	-	31,010
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	1,283	147,604	211	22,857
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
969	539	-	56	-	31,948	797	3,773	-	16	38,097	Production
75,340	42,384	-	128,349	34,228	-	-	-	-	-	280,301	Imports
-8	-	-	-620	-47,947	-	-	-	-	-	-48,576	Exports
-	-	-	-	-13,140	-	-	-	-	-	-13,140	International Bunkers
-292	-1,242	-	-338	-410	-	-	0	-	-	-2,283	Stock changes
76,008	41,681	-	127,447	-27,270	31,948	797	3,773	-	16	254,399	Total primary energy supply
-	-	-	97	-186	-	-	-	-	-	-89	Transfers
2,893	1,197	546	-137	-328	-	-	0	-	-	4,171	Statistical differences
78,901	42,879	546	127,407	-27,784	31,948	797	3,773	-	16	258,482	Total primary energy consumption
-48,520	-41,526	21,815	-127,387	123,072	-31,948	-792	-503	40,587	1,593	-63,610	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	1,475	-4,960	CHP plants
-	-	-624	-	-378	-	-	-	-	134	-868	Heat-only plants
-	-	-	-127,387	127,000	-	-	-	-	-	-387	Petroleum Products
-22,561	22,615	-	-	-425	-	-	-	-	-	-370	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	42	-	-	42	Non-specified Transformation
-	-357	-	-20	-6,264	-	-	-2	-2,491	-	-9,133	Transformation Own Use
-	-	-	-	-	-	-	-1,502	345	-1,157	Losses	
30,381	996	22,361	-	89,023	-	5	3,268	36,595	1,953	184,581	Total final consumption
29,695	996	7,329	-	51,961	-	-	1,550	18,449	-	109,981	Industry
242	-	5	-	2,334	-	-	-	10	-	3,454	Agriculture/forestry/Fishing
0	-	0	-	95	-	-	-	145	-	240	Mining and quarrying
29,452	996	7,324	-	46,880	-	-	1,540	17,441	-	103,634	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	-	41,704	-	-	154	2,967	-	48,795	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
-	52	597	-	264	-	-	-	1,738	-	2,651	Transport Equipment
2,738	201	694	-	1,198	-	-	6	161	-	4,998	Other manufacturing
-	-	-	-	958	-	-	25	47	-	1,030	Other energy
1	-	0	-	2,652	-	-	0	-	-	2,653	Construction
-	-	1,112	-	29,352	-	-	357	188	-	31,010	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	1,283	12,694	211	22,857	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

2-4. 2012년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎞ ³)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 ¹⁾ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	2,094	334	-	263	-	150,327	3,971	4,869	-	124	38,966
수입	126,036	36,184	-	949,058	309,599	-	-	-	-	-	302,068
수출	-34	-	-	-2,473	-425,574	-	-	-	-	-	-59,863
국제병커링	-	-	-	-	-85,120	-	-	-	-	-	-12,815
재고변화	-172	1,483	-	-2,057	-6,692	-	-	-2	-	-	637
일차에너지공급	127,924	38,001	-	944,792	-207,786	150,327	3,971	4,867	-	124	268,993
제품이동	-	-	-	734	-4,239	-	-	-	-	-	-411
통계오차	5,654	397	310	11,152	2,293	-	-	0	-	-	6,883
일차에너지소비	133,578	38,398	310	956,677	-209,732	150,327	3,971	4,867	-	124	275,465
전환공정	-80,933	-37,222	23,146	-955,613	947,785	-150,327	-3,969	-638	506,009	2,576	-68,735
발전전용	-80,933	-13,747	-	-	-22,222	-150,327	-3,969	-692	494,478	-124	-62,531
열병합	-	-4,095	-663	-	-176	-	-	-32	21,531	2,447	-1,793
열전용	-	-	-486	-	-1,300	-	-	-1	-	253	-460
석유제품생산	-	-	-	-955,613	978,095	-	-	-	-	-	-3,460
가스제조	-	-19,381	24,295	-	-6,612	-	-	-	-	-	-576
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	86	-	-	86
전환지체소비	-	-363	-	-1,065	-38,174	-	-	-84	-31,417	-	-10,792
손실	-	-	-	-	-	-	-	-	-18,038	-615	-2,167
최종소비	52,645	813	23,456	-	699,879	-	2	4,145	456,554	2,085	193,771
산업	51,223	813	9,054	-	419,861	-	-	2,076	239,097	-	118,914
농림어업	542	-	6	-	15,013	-	-	55	12,074	-	3,461
광업	-	-	0	-	633	-	-	0	1,616	-	228
제조업	50,678	813	9,048	-	388,670	-	-	2,016	225,407	-	112,825
식품및담배	62	-	666	-	1,163	-	-	23	9,793	-	1,766
섬유및가죽	1,870	-	544	-	833	-	-	157	12,723	-	3,094
목재및나무제품	-	-	46	-	146	-	-	115	1,772	-	337
제지및인쇄	25	-	415	-	635	-	-	581	10,051	-	1,988
화학및석유화학	4,585	-	2,061	-	361,584	-	-	171	40,383	-	53,395
비금속광물	4,625	-	549	-	4,132	-	-	760	10,928	-	5,753
철강	34,187	636	1,278	-	1,136	-	-	5	37,571	-	28,397
비철금속	701	-	229	-	425	-	-	5	8,223	-	1,401
기계류	-	-	839	-	1,481	-	-	92	68,830	-	7,093
수송장비	-	0	741	-	2,720	-	-	-	22,685	-	3,121
기타제조	4,624	177	1,681	-	9,019	-	-	2	1,890	-	5,543
기타에너지	-	-	-	-	5,395	-	-	103	558	-	936
건설업	2	-	1	-	15,545	-	-	4	-	-	2,400
수송	-	-	1,195	-	227,457	-	-	357	2,250	-	31,502
철도	-	-	-	-	1,231	-	-	-	2,250	-	370
도로	-	-	1,195	-	215,110	-	-	357	-	-	29,524
국내해운	-	-	-	-	4,809	-	-	-	-	-	732
국내항공	-	-	-	-	6,306	-	-	-	-	-	876
가정	1,077	-	9,729	-	18,966	-	-	91	63,536	1,832	20,407
상업 공공	346	-	3,478	-	33,595	-	2	1,622	151,671	252	22,948
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
942	436	-	39	-	31,719	838	4,869	-	124	38,966	Production
78,261	47,184	-	138,986	37,636	-	-	-	-	-	302,068	Imports
-20	-	-	-460	-59,383	-	-	-	-	-	-59,863	Exports
-	-	-	-	-12,815	-	-	-	-	-	-12,815	International Bunkers
-125	1,934	-	-293	-877	-	-	-2	-	-	637	Stock changes
79,059	49,554	-	138,272	-35,439	31,719	838	4,867	-	124	268,993	Total primary energy supply
-	-	-	137	-548	-	-	-	-	-	-411	Transfers
3,686	517	324	2,044	312	-	-	0	-	-	6,883	Statistical differences
82,745	50,071	324	140,452	-35,674	31,719	838	4,867	-	124	275,465	Total primary energy consumption
-49,409	-48,538	24,141	-140,257	132,431	-31,719	-837	-638	43,517	2,576	-68,735	Transformation processes
-49,409	-17,925	-	-	-3,489	-31,719	-837	-692	41,665	-124	-62,531	Electricity-only plants
-	-5,340	-692	-	-28	-	-	-32	1,852	2,447	-1,793	CHP plants
-	-	-507	-	-206	-	-	-1	-	253	-460	Heat-only plants
-	-	-	-140,257	136,797	-	-	-	-	-	-3,460	Petroleum Products
-	-25,272	25,340	-	-644	-	-	-	-	-	-576	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	86	-	-	86	Non-specified Transformation
-	-473	-	-195	-7,339	-	-	-84	-2,702	-	-10,792	Transformation Own Use
-	-	-	-	-	-	-	-1,551	-2,167	-615	-	Losses
33,336	1,060	24,464	-	89,418	-	0	4,145	39,264	2,085	193,771	Total final consumption
32,689	1,060	9,443	-	53,084	-	-	2,076	20,562	-	118,914	Industry
234	-	6	-	2,128	-	-	55	1,038	-	3,461	Agriculture/forestry/Fishing
-	-	0	-	89	-	-	0	139	-	228	Mining and quarrying
32,455	1,060	9,437	-	48,473	-	-	2,016	19,385	-	112,825	Manufacturing
38	-	694	-	168	-	-	23	842	-	1,766	Food and tobacco
1,152	-	567	-	124	-	-	157	1,094	-	3,094	Textile and leather
-	-	48	-	21	-	-	115	152	-	337	Wood and wood products
15	-	433	-	95	-	-	581	864	-	1,988	Paper, pulp and print
2,824	-	2,150	-	44,777	-	-	171	3,473	-	53,395	Chemical and petrochemical
2,849	-	572	-	632	-	-	760	940	-	5,753	Non-metallic minerals
22,863	829	1,333	-	136	-	-	5	3,231	-	28,397	Iron and steel
392	-	238	-	59	-	-	5	707	-	1,401	Non-ferrous metals
-	-	875	-	206	-	-	92	5,919	-	7,093	Machinery
-	0	773	-	397	-	-	-	1,951	-	3,121	Transport Equipment
2,321	231	1,754	-	1,073	-	-	2	163	-	5,543	Other manufacturing
-	-	-	-	785	-	-	103	48	-	936	Other energy
1	-	1	-	2,394	-	-	4	-	-	2,400	Construction
-	-	1,246	-	29,706	-	-	357	194	-	31,502	Transport
-	-	-	-	176	-	-	-	194	-	370	Rail
-	-	1,246	-	27,921	-	-	357	-	-	29,524	Road
-	-	-	-	732	-	-	-	-	-	732	Domestic navigation
-	-	-	-	876	-	-	-	-	-	876	Domestic aviation
489	-	10,147	-	2,384	-	-	91	5,464	1,832	20,407	Residential
157	-	3,628	-	4,245	-	0	1,622	13,044	252	22,948	Commercial Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

2-5. 2013년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎞ ³)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 ¹⁾ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	1,815	355	-	290	-	138,784	4,295	5,440	-	113	37,065
수입	126,996	39,876	-	918,634	329,205	-	-	-	-	-	306,376
수출	-62	-	-	-1,988	-429,291	-	-	-	-	-	-60,319
국제병커링	-	-	-	-	-85,548	-	-	-	-	-	-12,848
재고변화	1,261	-397	-	-6,060	-1,133	-	-	2	-	-	-742
일차에너지공급	130,010	39,834	-	910,875	-186,766	138,784	4,295	5,442	-	113	269,531
제품이동	-	-	-	7,414	-9,625	-	-	-	-	-	1
통계오차	3,405	372	651	4,702	-3,902	-	-	0	-	-	3,652
일차에너지소비	133,415	40,205	651	922,992	-200,293	138,784	4,295	5,442	-	113	273,185
전환공정	-81,421	-39,264	23,291	-922,923	941,855	-138,784	-4,289	-953	513,146	2,028	-66,058
발전전용	-81,421	-15,663	-	-	-22,726	-138,784	-4,289	-1,022	488,583	-113	-63,109
열병합	-	-4,201	-644	-	-235	-	-	-48	24,563	1,942	-2,181
열전용	-	-	-375	-	-1,274	-	-	-5	-	200	-398
석유제품생산	-	-	-	-922,923	967,180	-	-	-	-	-	-445
가스제조	-	-19,400	24,310	-	-1,090	-	-	-	-	-	-48
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	122	-	-	122
전환자제소비	-	-144	-	-69	-38,481	-	-	-	-32,267	-	-10,329
손실	-	-	-	-	-	-	-	-	-16,428	-93	-1,505
최종소비	51,994	798	23,943	-	703,082	-	5	4,490	464,451	2,049	195,292
산업	50,524	798	9,646	-	422,641	-	-	3,275	246,444	-	121,318
농림어업	571	-	4	-	15,403	-	-	20	13,062	-	3,577
광업	-	-	0	-	711	-	-	0	1,478	-	228
제조업	49,952	798	9,641	-	390,614	-	-	3,255	231,904	-	115,055
식품및담배	61	-	666	-	766	-	-	57	10,018	-	1,759
섬유및가죽	1,813	-	359	-	588	-	-	151	12,429	-	2,797
목재및나무제품	-	-	49	-	112	-	-	158	1,859	-	386
제지및인쇄	26	-	418	-	395	-	-	646	10,170	-	2,030
화학및석유화학	3,968	-	3,107	-	367,616	-	-	321	41,612	-	55,179
비금속광물	4,647	-	588	-	3,380	-	-	899	11,236	-	5,855
철강	33,638	601	1,319	-	916	-	-	4	38,033	-	28,116
비철금속	732	-	276	-	326	-	-	0	8,536	-	1,480
기계류	-	-	777	-	1,282	-	-	74	72,345	-	7,279
수송장비	-	2	955	-	2,183	-	-	4	22,976	-	3,289
기타제조	5,167	194	1,127	-	7,785	-	-	3	2,119	-	5,138
기타에너지	-	-	-	-	5,266	-	-	936	570	-	1,746
건설업	1	-	0	-	15,914	-	-	-	-	-	2,457
수송	-	-	1,248	-	230,691	-	-	375	2,168	-	32,017
철도	-	-	-	-	1,087	-	-	-	2,168	-	342
도로	-	-	1,248	-	221,001	-	-	375	-	-	30,447
국내해운	-	-	-	-	3,239	-	-	-	-	-	483
국내항공	-	-	-	-	5,364	-	-	-	-	-	745
가정	1,114	-	9,611	-	18,004	-	-	157	63,970	1,797	20,185
상업 공공	356	-	3,438	-	31,746	-	5	683	151,869	252	21,772
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
817	463	-	42	-	29,283	906	5,440	-	113	37,065	Production
78,923	51,998	-	134,607	40,848	-	-	-	-	-	306,376	Imports
-40	-	-	-369	-59,910	-	-	-	-	-	-60,319	Exports
-	-	-	-	-12,848	-	-	-	-	-	-12,848	International Bunkers
837	-518	-	-905	-159	-	-	2	-	-	-742	Stock changes
80,538	51,943	-	133,375	-32,069	29,283	906	5,442	-	113	269,531	Total primary energy supply
-	-	-	1,381	-1,379	-	-	-	-	-	1	Transfers
2,183	485	679	882	-577	-	-	0	-	-	3,652	Statistical differences
82,720	52,428	679	135,638	-34,026	29,283	906	5,442	-	113	273,185	Total primary energy consumption
-49,808	-51,200	24,293	-135,626	131,265	-29,283	-905	-953	44,131	2,028	-66,058	Transformation processes
-49,808	-20,424	-	-	-3,571	-29,283	-905	-1,022	42,018	-113	-63,109	Electricity-only plants
-	-5,478	-672	-	-37	-	-	-48	2,112	1,942	-2,181	CHP plants
-	-	-391	-	-201	-	-	-5	-	200	-398	Heat-only plants
-	-	-	-135,626	135,181	-	-	-	-	-	-445	Petroleum Products
-25,297	25,356	-	-	-106	-	-	-	-	-	-48	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	122	-	-	122	Non-specified Transformation
-	-187	-	-12	-7,355	-	-	-	-2,775	-	-10,329	Transformation Own Use
-	-	-	-	-	-	-	-	-1,413	-93	-1,505	Losses
32,912	1,041	24,972	-	89,885	-	1	4,490	39,943	2,049	195,292	Total final consumption
32,243	1,041	10,060	-	53,505	-	-	3,275	21,194	-	121,318	Industry
247	-	4	-	2,183	-	-	20	1,123	-	3,577	Agriculture/forestry/Fishing
-	-	0	-	101	-	-	0	127	-	228	Mining and quarrying
31,996	1,041	10,056	-	48,764	-	-	3,255	19,944	-	115,055	Manufacturing
38	-	695	-	107	-	-	57	862	-	1,759	Food and tobacco
1,117	-	374	-	87	-	-	151	1,069	-	2,797	Textile and leather
-	-	52	-	16	-	-	158	160	-	386	Wood and wood products
16	-	436	-	58	-	-	646	875	-	2,030	Paper, pulp and print
2,382	-	3,240	-	45,657	-	-	321	3,579	-	55,179	Chemical and petrochemical
2,863	-	613	-	514	-	-	899	966	-	5,855	Non-metallic minerals
22,574	784	1,376	-	106	-	-	4	3,271	-	28,116	Iron and steel
413	-	288	-	45	-	-	0	734	-	1,480	Non-ferrous metals
-	-	811	-	173	-	-	74	6,222	-	7,279	Machinery
-	3	996	-	310	-	-	4	1,976	-	3,289	Transport Equipment
2,594	253	1,175	-	931	-	-	3	182	-	5,138	Other manufacturing
-	-	-	-	761	-	-	936	49	-	1,746	Other energy
0	-	0	-	2,456	-	-	-	-	-	2,457	Construction
-	-	1,302	-	30,154	-	-	375	186	-	32,017	Transport
-	-	-	-	156	-	-	-	186	-	342	Rail
-	-	1,302	-	28,770	-	-	375	-	-	30,447	Road
-	-	-	-	483	-	-	-	-	-	483	Domestic navigation
-	-	-	-	745	-	-	-	-	-	745	Domestic aviation
507	-	10,024	-	2,199	-	-	157	5,501	1,797	20,185	Residential
162	-	3,586	-	4,027	-	1	683	13,061	252	21,772	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

2-6. 2014년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎞)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생¹ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	1,748	247	-	198	-	156,407	2,754	6,636	-	68	41,424
수입	131,563	37,107	-	933,736	326,623	-	-	-	-	-	307,856
수출	-47	-	-	-992	-448,822	-	-	-	-	-	-62,805
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	271,252
제품이동	-	-	-	14,305	-16,289	-	-	-	-	-	339
통계오차	2,702	225	294	68	-2,523	-	-	-0	-	-	2,121
일차에너지소비	136,321	36,582	294	939,222	-227,903	156,407	2,754	6,636	-	68	273,713
전환과정	-80,271	-35,689	21,618	-939,156	976,258	-156,407	-2,751	-1,848	517,005	2,065	-64,227
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	1,992	-622
열전용	-	-	-324	-	-1,036	-	-	-	-	141	-361
석유제품생산	-	-	-	-939,156	988,461	-	-	-	-	-	-585
가스제조	-	-17,967	22,476	-	-142	-	-	-	-	-	-0
석탄합성가스제조	-	-	-	-	-	-	-	-	-	-	-
기타전환	-	-	-	-	-	-	-	199	-	-	199
전환자제소비	-	-111	-1,309	-66	-39,214	-	-	-	-33,210	-	-11,898
손실	-	-	-	-	-	-	-	-	-17,478	-195	-1,698
최종소비	56,050	781	20,602	-	709,141	-	3	4,788	466,317	1,938	195,889
산업	54,787	781	7,367	-	428,460	-	-	2,980	253,343	-	122,898
농림어업	489	-	3	-	11,802	-	-	22	13,556	-	3,071
광업	-	-	-	-	510	-	-	0	1,571	-	208
제조업	54,295	781	7,363	-	401,259	-	-	2,954	238,216	-	117,327
식품및담배	62	-	671	-	630	-	-	77	10,105	-	1,770
섬유및가죽	1,689	-	361	-	553	-	-	105	11,965	-	2,633
목재및나무제품	-	-	74	-	65	-	-	154	1,928	-	406
제지및인쇄	25	-	309	-	250	-	-	936	9,980	-	2,168
화학및석유화학	4,230	-	1,542	-	378,821	-	-	132	43,615	-	55,253
비금속광물	4,916	-	543	-	3,006	-	-	839	11,643	-	5,892
철강	38,262	568	1,215	-	880	-	-	13	40,367	-	31,274
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	4,334	202	665	-	8,300	-	-	677	2,265	-	4,993
기타에너지	-	-	-	-	5,004	-	-	-	559	-	777
건설업	2	-	1	-	14,890	-	-	5	-	-	2,292
수송	-	-	1,253	-	232,807	-	-	394	1,999	-	32,407
철도	-	-	-	-	910	-	-	-	1,999	-	302
도로	-	-	1,253	-	221,575	-	-	394	-	-	30,647
국내해운	-	-	-	-	2,324	-	-	-	-	-	346
국내항공	-	-	-	-	7,997	-	-	-	-	-	1,111
가정	975	-	8,764	-	17,278	-	-	111	62,675	1,720	18,905
상업 공공	288	-	3,218	-	30,596	-	3	1,302	148,299	218	21,679
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
787	322	-	29	-	33,002	581	6,636	-	68	41,424	Production
81,782	48,388	-	136,928	40,758	-	-	-	-	-	307,856	Imports
-28	-	-	-185	-62,593	-	-	-	-	-	-62,805	Exports
-	-	-	-	-13,035	-	-	-	-	-	-13,035	International Bunkers
224	-1,300	-	-1,178	68	-	-	-0	-	-	-2,187	Stock changes
82,764	47,409	-	135,594	-34,802	33,002	581	6,636	-	68	271,252	Total primary energy supply
-	-	-	2,664	-2,324	-	-	-	-	-	339	Transfers
1,889	293	307	70	-438	-	-	-0	-	-	2,121	Statistical differences
84,654	47,702	307	138,328	-37,564	33,002	581	6,636	-	68	273,713	Total primary energy consumption
-48,841	-46,539	22,547	-138,315	135,824	-33,002	-581	-1,848	44,462	2,065	-64,227	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	1,992	-622	CHP plants
-	-	-338	-	-164	-	-	-	-	141	-361	Heat-only plants
-	-	-	-138,315	137,730	-	-	-	-	-	-585	Petroleum Products
-23,429	23,442	-	-	-14	-	-	-	-	-	-0	Gas manufacturing
-	-	-	-	-	-	-	-	-	-	-	Coal-to-Gas plants
-	-	-	-	-	-	-	199	-	-	199	Non-specified Transformation
-	-145	-1,366	-12	-7,519	-	-	-	-2,856	-	-11,898	Transformation Own Use
-	-	-	-	-	-	-	-	-1,503	-195	-1,698	Losses
35,813	1,018	21,488	-	90,741	-	1	4,788	40,103	1,938	195,889	Total final consumption
35,235	1,018	7,684	-	54,194	-	-	2,980	21,788	-	122,898	Industry
210	-	3	-	1,670	-	-	22	1,166	-	3,071	Agriculture/forestry/Fishing
-	-	-	-	73	-	-	0	135	-	208	Mining and quarrying
35,024	1,018	7,679	-	50,165	-	-	2,954	20,487	-	117,327	Manufacturing
38	-	700	-	86	-	-	77	869	-	1,770	Food and tobacco
1,041	-	376	-	82	-	-	105	1,029	-	2,633	Textile and leather
-	-	77	-	9	-	-	154	166	-	406	Wood and wood products
16	-	323	-	35	-	-	936	858	-	2,168	Paper, pulp and print
2,606	-	1,609	-	47,155	-	-	132	3,751	-	55,253	Chemical and petrochemical
3,028	-	566	-	457	-	-	839	1,001	-	5,892	Non-metallic minerals
25,683	740	1,267	-	100	-	-	13	3,472	-	31,274	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
2,176	264	694	-	988	-	-	677	195	-	4,993	Other manufacturing
-	-	-	-	729	-	-	-	48	-	777	Other energy
1	-	1	-	2,286	-	-	5	-	-	2,292	Construction
-	-	1,306	-	30,534	-	-	394	172	-	32,407	Transport
-	-	-	-	130	-	-	-	172	-	302	Rail
-	-	1,306	-	28,947	-	-	394	-	-	30,647	Road
-	-	-	-	346	-	-	-	-	-	346	Domestic navigation
-	-	-	-	1,111	-	-	-	-	-	1,111	Domestic aviation
446	-	9,141	-	2,097	-	-	111	5,390	1,720	18,905	Residential
132	-	3,357	-	3,916	-	1	1,302	12,754	218	21,679	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

02 에너지 밸런스

2-7. 2015년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎞ ³)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 ¹⁾ (천toe)	전기 (GWh)	열 (천toe)	합계 (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	-	-	-	-	-	316,750
수출	-23	-	-	-2,400	-477,425	-	-	-	-	-	-66,737
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	276,793
제품이동	-	-	-	13,626	-14,507	-	-	-	-	-	624
통계오차	3,217	-272	520	-1,258	-547	-	-	0	-	-	1,911
일차에너지소비	138,569	33,438	520	1,029,623	-280,424	164,762	2,150	7,455	-	125	279,328
전환공정	-82,479	-32,513	20,174	-1,029,608	1,058,781	-164,762	-2,146	-2,625	524,566	2,625	-65,943
발전전용	-82,479	-12,533	-	-	-12,079	-164,762	-2,146	-2,711	502,547	-125	-63,118
열병합	-	-3,249	-497	-	-773	-	-	-275	22,019	2,570	-688
열전용	-	-	-263	-	-767	-	-	-4	-	180	-219
석유제품생산	-	-	-	-1,029,608	1,072,558	-	-	-	-	-	-2,283
가스제조	-	-16,732	20,933	-	-161	-	-	-	-	-	-0
석탄합성가스제조	-	-	-	-	-	-	-	1	-	-	1
기타전환	-	-	-	-	-	-	-	363	-	-	363
전환자제소비	-	-56	-267	-15	-43,815	-	-	-	-36,289	-	-11,829
손실	-	-2	-	-	-	-	-	-	-15,831	-844	-2,208
최종소비	56,090	866	20,427	-	734,541	-	4	4,830	472,446	1,905	199,347
산업	54,934	866	7,228	-	433,558	-	-	2,975	254,424	-	123,174
농림어업	450	-	3	-	10,371	-	-	88	14,645	-	3,008
광업	-	-	-	-	469	-	-	0	1,631	-	207
제조업	54,481	866	7,224	-	406,319	-	-	2,882	238,148	-	117,437
식품및담배	65	-	672	-	600	-	-	137	10,485	-	1,861
섬유및가죽	1,640	-	349	-	604	-	-	162	11,604	-	2,627
목재및나무제품	-	-	58	-	39	-	-	275	1,904	-	505
제지및인쇄	24	9	225	-	241	-	-	740	9,933	-	1,888
화학및석유화학	4,817	-	1,334	-	383,847	-	-	301	44,326	-	56,028
비금속광물	4,650	-	523	-	3,537	-	-	871	12,023	-	5,854
철강	37,142	653	1,108	-	946	-	-	7	36,998	-	30,111
비철금속	815	-	335	-	234	-	-	-	9,318	-	1,650
기계류	-	-	977	-	663	-	-	1	74,325	-	7,500
수송장비	-	14	721	-	1,743	-	-	3	24,291	-	3,107
기타제조	5,328	191	921	-	8,302	-	-	385	2,392	-	5,446
기타에너지	-	-	-	-	5,563	-	-	-	549	-	860
건설업	3	-	1	-	16,399	-	-	5	-	-	2,523
수송	-	-	1,228	-	247,511	-	-	441	2,217	-	34,510
철도	-	-	-	-	829	-	-	-	2,217	-	309
도로	-	-	1,228	-	233,419	-	-	441	-	-	32,319
국내해운	-	-	-	-	3,808	-	-	-	-	-	569
국내항공	-	-	-	-	9,456	-	-	-	-	-	1,313
가정	899	-	8,754	-	16,402	-	-	217	63,794	1,663	18,971
상업 공공	257	-	3,216	-	37,070	-	4	1,197	152,011	242	22,692
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
794	188	-	17	-	34,765	454	7,455	-	125	43,798	Production
84,123	43,509	-	150,983	38,135	-	-	-	-	-	316,750	Imports
-12	-	-	-446	-66,279	-	-	-	-	-	-66,737	Exports
-	-	-	-	-14,083	-	-	-	-	-	-14,083	International Bunkers
-1,255	261	-	-1,612	-328	-	-	-0	-	-	-2,935	Stock changes
83,650	43,958	-	148,942	-42,555	34,765	454	7,455	-	125	276,793	Total primary energy supply
-	-	-	2,537	-1,913	-	-	-	-	-	624	Transfers
1,966	-355	542	-181	-62	-	-	0	-	-	1,911	Statistical differences
85,616	43,603	542	151,298	-44,530	34,765	454	7,455	-	125	279,328	Total primary energy consumption
-50,047	-42,397	21,041	-151,296	146,861	-34,765	-453	-2,625	45,113	2,625	-65,943	Transformation processes
-50,047	-16,343	-	-	-1,893	-34,765	-453	-2,711	43,219	-125	-63,118	Electricity-only plants
-	-4,236	-518	-	-122	-	-	-275	1,894	2,570	-688	CHP plants
-	-	-274	-	-121	-	-	-4	-	180	-219	Heat-only plants
-	-	-	-151,296	149,013	-	-	-	-	-	-2,283	Petroleum Products
-	-21,818	21,834	-	-16	-	-	-	-	-	-0	Gas manufacturing
-	-	-	-	-	-	-	1	-	-	1	Coal-to-Gas plants
-	-	-	-	-	-	-	363	-	-	363	Non-specified Transformation
-	-74	-278	-3	-8,354	-	-	-	-3,121	-	-11,829	Transformation Own Use
-	-2	-	-	-	-	-	-	-1,361	-844	-2,208	Losses
35,569	1,129	21,305	-	93,977	-	1	4,830	40,630	1,905	199,347	Total final consumption
35,041	1,129	7,539	-	54,610	-	-	2,975	21,880	-	123,174	Industry
190	-	3	-	1,467	-	-	88	1,259	-	3,008	Agriculture/forestry/Fishing
-	-	-	-	67	-	-	0	140	-	207	Mining and quarrying
34,850	1,129	7,534	-	50,560	-	-	2,882	20,481	-	117,437	Manufacturing
40	-	701	-	81	-	-	137	902	-	1,861	Food and tobacco
1,010	-	364	-	92	-	-	162	998	-	2,627	Textile and leather
-	-	60	-	6	-	-	275	164	-	505	Wood and wood products
15	11	235	-	34	-	-	740	854	-	1,888	Paper, pulp and print
2,967	-	1,391	-	47,556	-	-	301	3,812	-	56,028	Chemical and petrochemical
2,864	-	546	-	540	-	-	871	1,034	-	5,854	Non-metallic minerals
24,810	851	1,155	-	106	-	-	7	3,182	-	30,111	Iron and steel
469	-	349	-	31	-	-	-	801	-	1,650	Non-ferrous metals
-	-	1,020	-	87	-	-	1	6,392	-	7,500	Machinery
-	18	752	-	245	-	-	3	2,089	-	3,107	Transport Equipment
2,674	249	961	-	970	-	-	385	206	-	5,446	Other manufacturing
-	-	-	-	813	-	-	-	47	-	860	Other energy
1	-	1	-	2,516	-	-	5	-	-	2,523	Construction
-	-	1,281	-	32,597	-	-	441	191	-	34,510	Transport
-	-	-	-	119	-	-	-	191	-	309	Rail
-	-	1,281	-	30,597	-	-	441	-	-	32,319	Road
-	-	-	-	569	-	-	-	-	-	569	Domestic navigation
-	-	-	-	1,313	-	-	-	-	-	1,313	Domestic aviation
410	-	9,130	-	2,064	-	-	217	5,486	1,663	18,971	Residential
118	-	3,355	-	4,706	-	1	1,197	13,073	242	22,692	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

2-8. 2016년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎥)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 ¹⁾ (천toe)	전기 (GWh)	열 (천toe)	합계 (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	-	-	-	-	-	-68,510
국제병커링	-	-	-	-	-105,124	-	-	-	-	-	-15,811
재고변화	-879	1,339	-	-4,172	2,603	-	-	3	-	-	1,148
일차에너지공급	135,775	34,911	-	1,076,400	-255,629	161,995	2,859	8,261	-	117	288,018
제품이동	-	-	-	11,657	-14,036	-	-	-	-	-	394
통계오차	-1,656	-5	303	-1,635	497	-	-	-0	-	-	-851
일차에너지소비	134,120	34,906	303	1,086,422	-269,168	161,995	2,859	8,261	-	117	287,561
전환공정	-80,220	-33,404	20,798	-1,085,610	1,098,017	-161,995	-2,846	-2,400	536,794	2,526	-65,867
발전전용	-80,220	-12,465	-	-	-18,500	-161,995	-2,846	-2,550	504,257	-117	-61,863
열병합	-	-3,756	-483	-	-807	-	-	-150	32,537	2,394	-487
열전용	-	-	-220	-	-1,251	-	-	-18	-	249	-196
석유제품생산	-	-	-	-1,085,610	1,118,794	-	-	-	-	-	-3,635
가스제조	-	-17,184	21,501	-	-220	-	-	-	-	-	-4
석탄합성가스제조	-	-	-	-	-	-	-	76	-	-	76
기타전환	-	-	-	-	-	-	-	242	-	-	242
전환자제소비	-	-121	-77	-812	-46,091	-	-	-	-34,818	-	-12,093
손실	-	-3	-	-	-	-	-	-	-17,181	-568	-2,049
최종소비	53,900	1,378	21,024	-	782,758	-	12	5,861	484,795	2,075	207,553
산업	52,909	1,378	7,149	-	469,195	-	-	3,655	257,732	-	127,696
농림어업	388	-	3	-	9,843	-	-	155	15,397	-	3,037
광업	-	-	-	-	437	-	-	0	1,755	-	212
제조업	52,519	1,378	7,145	-	441,087	-	-	3,491	240,580	-	121,692
식품및담배	65	-	681	-	614	-	-	135	10,999	-	1,911
섬유및가죽	1,650	-	310	-	549	-	-	179	11,426	-	2,585
목재및나무제품	-	-	28	-	33	-	-	701	1,918	-	899
제지및인쇄	26	416	247	-	298	-	-	726	10,014	-	2,445
화학및석유화학	5,390	-	970	-	417,523	-	-	602	46,099	-	60,293
비금속광물	4,591	-	502	-	3,820	-	-	667	12,575	-	5,682
철강	35,072	741	1,142	-	730	-	-	4	35,159	-	28,843
비철금속	841	-	291	-	254	-	-	0	9,986	-	1,679
기계류	170	-	985	-	757	-	-	29	75,601	-	7,758
수송장비	-	30	643	-	1,862	-	-	396	23,712	-	3,406
기타제조	4,715	192	1,347	-	9,251	-	-	51	2,547	-	5,356
기타에너지	-	-	-	-	5,395	-	-	-	544	-	835
건설업	2	-	1	-	17,829	-	-	9	-	-	2,755
수송	-	-	1,217	-	257,307	-	-	523	2,689	-	36,030
철도	-	-	-	-	725	-	-	-	2,689	-	335
도로	-	-	1,217	-	244,047	-	-	523	-	-	33,924
국내해운	-	-	-	-	3,291	-	-	-	-	-	487
국내항공	-	-	-	-	9,244	-	-	-	-	-	1,283
가정	770	-	9,249	-	18,889	-	-	299	66,173	1,771	20,140
상업 공공	221	-	3,408	-	37,366	-	12	1,385	158,202	304	23,686
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Nlt)	(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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
777	154	-	15	-	34,181	603	8,258	-	117	44,106	Production
83,621	43,623	-	158,918	40,924	-	-	-	-	-	327,086	Imports
-1	-	-	-670	-67,840	-	-	-	-	-	-68,510	Exports
-	-	-	-	-15,811	-	-	-	-	-	-15,811	International Bunkers
-408	1,747	-	-600	406	-	-	3	-	-	1,148	Stock changes
83,989	45,524	-	157,664	-42,321	34,181	603	8,261	-	117	288,018	Total primary energy supply
-	-	-	2,170	-1,777	-	-	-	-	-	394	Transfers
-991	-7	316	-243	74	-	-	-0	-	-	-851	Statistical differences
82,998	45,517	316	159,592	-44,024	34,181	603	8,261	-	117	287,561	Total primary energy consumption
-48,628	-43,559	21,692	-159,440	152,561	-34,181	-601	-2,400	46,164	2,526	-65,867	Transformation processes
-48,628	-16,254	-	-	-2,898	-34,181	-601	-2,550	43,366	-117	-61,863	Electricity-only plants
-	-4,898	-504	-	-127	-	-	-150	2,798	2,394	-487	CHP plants
-	-	-229	-	-198	-	-	-18	-	249	-196	Heat-only plants
-	-	-	-159,440	155,805	-	-	-	-	-	-3,635	Petroleum Products
-22,408	22,425	-	-	-21	-	-	-	-	-	-4	Gas manufacturing
-	-	-	-	-	-	-	76	-	-	76	Coal-to-Gas plants
-	-	-	-	-	-	-	242	-	-	242	Non-specified Transformation
-	-158	-80	-151	-8,709	-	-	-	-2,994	-	-12,093	Transformation Own Use
-	-3	-	-	-	-	-	-	-1,478	-568	-2,049	Losses
34,370	1,797	21,928	-	99,827	-	3	5,861	41,692	2,075	207,553	Total final consumption
33,918	1,797	7,456	-	58,705	-	-	3,655	22,165	-	127,696	Industry
163	-	3	-	1,392	-	-	155	1,324	-	3,037	Agriculture/forestry/Fishing
-	-	-	-	61	-	-	0	151	-	212	Mining and quarrying
33,755	1,797	7,452	-	54,507	-	-	3,491	20,690	-	121,692	Manufacturing
40	-	711	-	80	-	-	135	946	-	1,911	Food and tobacco
1,017	-	323	-	83	-	-	179	983	-	2,585	Textile and leather
-	-	29	-	5	-	-	701	165	-	899	Wood and wood products
16	542	257	-	42	-	-	726	861	-	2,445	Paper, pulp and print
3,320	-	1,012	-	51,394	-	-	602	3,965	-	60,293	Chemical and petrochemical
2,828	-	523	-	582	-	-	667	1,081	-	5,682	Non-metallic minerals
23,578	966	1,191	-	80	-	-	4	3,024	-	28,843	Iron and steel
485	-	303	-	32	-	-	0	859	-	1,679	Non-ferrous metals
104	-	1,027	-	95	-	-	29	6,502	-	7,758	Machinery
-	39	670	-	261	-	-	396	2,039	-	3,406	Transport Equipment
2,367	250	1,405	-	1,064	-	-	51	219	-	5,356	Other manufacturing
-	-	-	-	788	-	-	-	47	-	835	Other energy
1	-	1	-	2,745	-	-	9	-	-	2,755	Construction
-	-	1,270	-	34,006	-	-	523	231	-	36,030	Transport
-	-	-	-	104	-	-	-	231	-	335	Rail
-	-	1,270	-	32,132	-	-	523	-	-	33,924	Road
-	-	-	-	487	-	-	-	-	-	487	Domestic navigation
-	-	-	-	1,283	-	-	-	-	-	1,283	Domestic aviation
351	-	9,647	-	2,382	-	-	299	5,691	1,771	20,140	Residential
101	-	3,555	-	4,734	-	3	1,385	13,605	304	23,686	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

2-9. 2017년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎞ ³)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 ¹⁾ (천toe)	전기 (GWh)	열 (천toe)	합계 (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	-	-	-	-	-	-71,508
국제병커링	-	-	-	-	-103,695	-	-	-	-	-	-15,564
재고변화	-145	-613	-	-1,633	-1,663	-	-	-2	-	-	-1,423
일차에너지공급	149,883	37,185	-	1,121,075	-299,983	148,427	2,820	9,959	-	127	296,719
제품이동	-	-	-	34,286	-34,338	-	-	-	-	-	2,048
통계오차	-6,759	-807	201	-1,442	-385	-	-	-14	-	-	-4,946
일차에너지소비	143,124	36,378	201	1,153,920	-334,707	148,427	2,820	9,944	-	127	293,820
전환공정	-89,388	-34,620	22,348	-1,153,915	1,176,449	-148,427	-2,809	-3,380	549,498	2,436	-68,285
발전전용	-89,388	-12,581	-	-	-7,042	-148,427	-2,809	-3,729	513,303	-127	-61,469
열병합	-	-3,840	-513	-	-1,019	-	-	-235	36,194	2,401	-405
열전용	-	-	-258	-	-1,184	-	-	-3	-	163	-293
석유제품생산	-	-	-	-1,153,915	1,185,996	-	-	-	-	-	-6,697
가스제조	-	-18,199	23,119	-	-304	-	-	-	-	-	-8
석탄합성가스제조	-	-	-	-	-	-	-	274	-	-	274
기타전환	-	-	-	-	-	-	-	313	-	-	313
전환자제소비	-	-363	-79	-5	-40,467	-	-	-	-35,756	-	-11,255
손실	-	7	-	-	-	-	-	-	-18,555	-263	-1,850
최종소비	53,736	1,403	22,470	-	801,275	-	11	6,564	495,186	2,300	212,431
산업	52,904	1,403	7,729	-	487,121	-	-	4,155	264,067	-	130,919
농림어업	341	-	3	-	9,173	-	-	679	15,981	-	3,500
광업	-	-	-	-	395	-	-	0	1,746	-	205
제조업	52,563	1,403	7,725	-	460,469	-	-	3,462	246,340	-	124,566
식품및담배	48	-	689	-	681	-	-	124	11,282	-	1,919
섬유및가죽	1,588	-	302	-	693	-	-	156	11,261	-	2,467
목재및나무제품	-	-	28	-	29	-	-	138	1,925	-	337
제지및인쇄	-	417	245	-	316	-	-	717	9,784	-	2,400
화학및석유화학	4,879	-	970	-	433,460	-	-	905	47,710	-	62,141
비금속광물	4,175	-	519	-	3,398	-	-	658	12,612	-	5,260
철강	36,573	780	1,203	-	838	-	-	4	35,524	-	29,709
비철금속	891	-	270	-	274	-	-	0	9,959	-	1,671
기계류	223	-	1,055	-	649	-	-	193	79,986	-	8,371
수송장비	-	27	553	-	1,822	-	-	477	22,324	-	3,257
기타제조	4,185	179	1,891	-	10,342	-	-	92	3,409	-	5,869
기타에너지	-	-	-	-	7,965	-	-	-	563	-	1,165
건설업	1	-	1	-	17,094	-	-	14	-	-	2,648
수송	-	-	1,218	-	257,708	-	-	564	2,864	-	36,261
철도	-	-	-	-	703	-	-	-	2,820	-	343
도로	-	-	1,218	-	244,104	-	-	564	45	-	34,101
국내해운	-	-	-	-	3,073	-	-	-	-	-	453
국내항공	-	-	-	-	9,829	-	-	-	-	-	1,363
가정	647	-	9,950	-	18,353	-	-	375	66,517	1,955	20,918
상업 공공	185	-	3,573	-	38,094	-	11	1,471	161,737	345	24,333
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	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	석유제품	원자력	수력	신재생 ¹	전기	열	합계	
(천toe)											
702	341	-	32	-	31,615	601	9,960	-	127	43,378	Production
89,227	49,023	-	165,241	38,345	-	-	-	-	-	341,836	Imports
-86	-	-	-455	-70,967	-	-	-	-	-	-71,508	Exports
-	-	-	-	-15,564	-	-	-	-	-	-15,564	International Bunkers
-57	-800	-	-295	-269	-	-	-2	-	-	-1,423	Stock changes
89,786	48,564	-	164,522	-48,455	31,615	601	9,959	-	127	296,719	Total primary energy supply
-	-	-	6,384	-4,336	-	-	-	-	-	2,048	Transfers
-3,834	-1,054	207	-208	-43	-	-	-14	-	-	-4,946	Statistical differences
85,952	47,510	207	170,698	-52,835	31,615	601	9,944	-	127	293,820	Total primary energy consumption
-52,026	-45,214	22,996	-170,698	162,557	-31,615	-598	-3,380	47,257	2,436	-68,285	Transformation processes
-52,026	-16,431	-	-	-1,087	-31,615	-598	-3,729	44,144	-127	-61,469	Electricity-only plants
-	-5,015	-528	-	-141	-	-	-235	3,113	2,401	-405	CHP plants
-	-	-266	-	-187	-	-	-3	-	163	-293	Heat-only plants
-	-	-	-170,698	164,001	-	-	-	-	-	-6,697	Petroleum Products
-23,768	23,789	-	-	-30	-	-	-	-	-	-8	Gas manufacturing
-	-	-	-	-	-	-	274	-	-	274	Coal-to-Gas plants
-	-	-	-	-	-	-	313	-	-	313	Non-specified Transformation
-473	-81	-1	-7,624	-	-	-	-3,075	-	-	-11,255	Transformation Own Use
9	-	-	-	-	-	-	-1,596	-263	-	-1,850	Losses
33,927	1,832	23,122	-	102,098	-	2	6,564	42,586	2,300	212,431	Total final consumption
33,531	1,832	7,953	-	60,738	-	-	4,155	22,710	-	130,919	Industry
146	-	3	-	1,298	-	-	679	1,374	-	3,500	Agriculture/forestry/Fishing
-	-	-	-	55	-	-	0	150	-	205	Mining and quarrying
33,385	1,832	7,949	-	56,751	-	-	3,462	21,185	-	124,566	Manufacturing
29	-	709	-	88	-	-	124	970	-	1,919	Food and tobacco
940	-	310	-	93	-	-	156	968	-	2,467	Textile and leather
-	-	29	-	4	-	-	138	166	-	337	Wood and wood products
-	545	252	-	44	-	-	717	841	-	2,400	Paper, pulp and print
2,888	-	998	-	53,246	-	-	905	4,103	-	62,141	Chemical and petrochemical
2,472	-	534	-	512	-	-	658	1,085	-	5,260	Non-metallic minerals
24,304	1,019	1,238	-	90	-	-	4	3,055	-	29,709	Iron and steel
503	-	278	-	34	-	-	0	857	-	1,671	Non-ferrous metals
132	-	1,086	-	81	-	-	193	6,879	-	8,371	Machinery
-	35	569	-	256	-	-	477	1,920	-	3,257	Transport Equipment
2,118	234	1,946	-	1,187	-	-	92	293	-	5,869	Other manufacturing
-	-	-	-	1,117	-	-	-	48	-	1,165	Other energy
0	-	1	-	2,633	-	-	14	-	-	2,648	Construction
-	-	1,253	-	34,197	-	-	564	246	-	36,261	Transport
-	-	-	-	101	-	-	-	242	-	343	Rail
-	-	1,253	-	32,280	-	-	564	4	-	34,101	Road
-	-	-	-	453	-	-	-	-	-	453	Domestic navigation
-	-	-	-	1,363	-	-	-	-	-	1,363	Domestic aviation
307	-	10,238	-	2,323	-	-	375	5,720	1,955	20,918	Residential
88	-	3,677	-	4,841	-	2	1,471	13,909	345	24,333	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

02 에너지 밸런스

2-10. 2018년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎡)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생¹ (천toe)	전기 (GWh)	열 (천toe)	합계 (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	-	-	-	-	-	354,196
수출	-70	-	-	-4,124	-531,563	-	-	-	-	-	-74,878
국제병커링	-	-	-	-	-102,293	-	-	-	-	-	-15,307
재고변화	1,426	-2,067	-	-8,626	-10,905	-	-	2	-	-	-4,406
일차에너지공급	151,728	42,183	-	1,113,842	-303,132	133,505	3,374	11,009	-	68	300,738
제품이동	-	-	-	63,333	-64,154	-	-	-	-	-	3,668
통계오차	-5,390	100	322	-1,899	83	-	-	0	-	-	-2,999
일차에너지소비	146,338	42,283	322	1,175,276	-367,203	133,505	3,374	11,009	-	68	301,408
전환공정	-91,756	-39,988	23,953	-1,175,276	1,196,922	-133,505	-3,359	-3,969	566,889	2,620	-72,152
발전전용	-91,756	-15,791	-	-	-8,016	-133,505	-3,359	-4,525	519,856	-68	-64,393
열병합	-	-4,573	-689	-	-591	-	-	-174	47,033	2,518	-376
열전용	-	-	-288	-	-1,099	-	-	-10	-	170	-309
석유제품생산	-	-	-	-1,175,276	1,207,900	-	-	-	-	-	-7,712
가스제조	-	-19,624	24,929	-	-1,272	-	-	-	-	-	-101
석탄합성가스제조	-	-	-	-	-	-	-	363	-	-	363
기타전환	-	-	-	-	-	-	-	376	-	-	376
전환자제소비	-	-919	-1,152	-	-41,509	-	-	-	-35,645	-	-13,539
손실	-	-19	-	-	-	-	-	-	-17,890	-154	-1,717
최종소비	54,582	1,357	23,123	-	788,210	-	15	7,040	513,354	2,535	214,001
산업	53,883	1,357	7,621	-	478,445	-	-	4,281	270,798	0	130,769
농림어업	291	-	3	-	8,747	-	-	671	17,126	0	3,506
광업	-	-	-	-	396	-	-	0	1,478	-	182
제조업	53,592	1,357	7,618	-	453,271	-	-	3,597	252,193	-	124,603
식품및담배	-	-	773	-	737	-	-	117	11,950	-	2,037
섬유및가죽	1,546	-	240	-	455	-	-	181	10,835	-	2,338
목재및나무제품	-	-	51	-	25	-	-	90	1,875	-	308
제지및인쇄	-	398	253	-	314	-	-	711	9,637	-	2,364
화학및석유화학	4,705	-	1,938	-	428,496	-	-	1,405	49,256	-	63,028
비금속광물	3,709	-	533	-	3,507	-	-	633	12,147	-	4,956
철강	37,168	759	1,204	-	619	-	-	4	34,852	-	29,901
비철금속	897	-	386	-	290	-	-	-	10,172	-	1,815
기계류	254	-	1,173	-	634	-	-	253	84,862	-	8,987
수송장비	-	20	744	-	1,472	-	-	65	21,804	-	2,938
기타제조	5,312	180	321	-	10,323	-	-	138	4,218	-	4,942
기타에너지	-	-	-	-	6,400	-	-	-	585	-	988
건설업	0	-	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	-	34,134
국내해운	-	-	-	-	2,345	-	-	-	-	-	345
국내항공	-	-	-	-	10,045	-	-	-	-	-	1,393
가정	544	-	10,593	-	18,477	-	-	417	70,687	2,125	22,114
상업 공공	156	-	3,704	-	35,222	-	15	1,656	168,789	410	24,890
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	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	석유제품	원자력	수력	신재생 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	-	-	-	-	-	354,196	Imports
-47	-	-	-764	-74,067	-	-	-	-	-	-74,878	Exports
-	-	-	-	-15,307	-	-	-	-	-	-15,307	International Bunkers
959	-2,699	-	-1,272	-1,396	-	-	2	-	-	-4,405	Stock changes
90,965	55,090	-	163,580	-49,130	28,437	719	11,009	-	68	300,738	Total primary energy supply
-	-	-	11,793	-8,124	-	-	-	-	-	3,668	Transfers
-3,171	131	331	-286	-5	-	-	0	-	-	-2,999	Statistical differences
87,795	55,221	331	175,087	-57,259	28,437	719	11,009	-	68	301,408	Total primary energy consumption
-53,498	-52,225	24,647	-175,087	165,759	-28,437	-716	-3,969	48,752	2,620	-72,152	Transformation processes
-53,498	-20,623	-	-	-1,235	-28,437	-716	-4,525	44,708	-68	-64,393	Electricity-only plants
-	-5,973	-709	-	-83	-	-	-174	4,045	2,518	-376	CHP plants
-	-	-296	-	-174	-	-	-10	-	170	-309	Heat-only plants
-	-	-	-175,087	167,375	-	-	-	-	-	-7,712	Petroleum Products
-	-25,629	25,652	-	-124	-	-	-	-	-	-101	Gas manufacturing
-	-	-	-	-	-	-	363	-	-	363	Coal-to-Gas plants
-	-	-	-	-	-	-	376	-	-	376	Non-specified Transformation
-	-1,200	-1,185	-	-8,088	-	-	-	-3,065	-	-13,539	Transformation Own Use
-	-24	-	-	-	-	-	-1,539	-154	-1,717	-	Losses
34,297	1,773	23,793	-	100,411	-	3	7,040	44,148	2,535	214,001	Total final consumption
33,965	1,773	7,842	-	59,619	-	-	4,281	23,289	0	130,769	Industry
124	-	4	-	1,235	-	-	671	1,473	0	3,506	Agriculture/forestry/Fishing
-	-	-	-	55	-	-	0	127	-	182	Mining and quarrying
33,841	1,773	7,839	-	55,865	-	-	3,597	21,689	-	124,603	Manufacturing
-	-	796	-	96	-	-	117	1,028	-	2,037	Food and tobacco
915	-	247	-	63	-	-	181	932	-	2,338	Textile and leather
-	-	53	-	4	-	-	90	161	-	308	Wood and wood products
-	520	260	-	44	-	-	711	829	-	2,364	Paper, pulp and print
2,786	-	1,994	-	52,607	-	-	1,405	4,236	-	63,028	Chemical and petrochemical
2,196	-	549	-	534	-	-	633	1,045	-	4,956	Non-metallic minerals
24,601	992	1,239	-	68	-	-	4	2,997	-	29,901	Iron and steel
505	-	397	-	38	-	-	-	875	-	1,815	Non-ferrous metals
151	-	1,207	-	78	-	-	253	7,298	-	8,987	Machinery
-	26	766	-	206	-	-	65	1,875	-	2,938	Transport Equipment
2,688	235	330	-	1,188	-	-	138	363	-	4,942	Other manufacturing
-	-	-	-	938	-	-	-	50	-	988	Other energy
0	-	0	-	2,464	-	-	14	-	-	2,478	Construction
-	-	1,238	-	34,038	-	-	686	265	-	36,227	Transport
-	-	-	-	100	-	-	-	255	-	356	Rail
-	-	1,238	-	32,200	-	-	686	10	-	34,134	Road
-	-	-	-	345	-	-	-	-	-	345	Domestic navigation
-	-	-	-	1,393	-	-	-	-	-	1,393	Domestic aviation
258	-	10,901	-	2,335	-	-	417	6,079	2,125	22,114	Residential
74	-	3,812	-	4,419	-	3	1,656	14,516	410	24,890	Commercial Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables	Electric	Heat	Total	
(Thou. toe)											

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

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	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎥)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 및 기타¹ (천toe)	전기 (GWh)	열 (천toe)	합계 (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	-	-	-	-	-	-72,526
국제병커링	-	-	-	-	-94,656	-	-	-	-	-	-14,056
재고변화	-1,631	305	-	5,758	8,063	-	-	-2	-	-	1,216
일차에너지공급	141,228	41,252	-	1,081,117	-256,545	145,910	2,791	11,541	-	66	297,612
제품이동	-	-	-	92,390	-93,168	-	-	-	-	-	5,344
통계오차	-4,512	-250	477	-14,500	-1,103	-	-	0	-	-	-4,339
일차에너지소비	136,716	41,002	477	1,159,008	-350,815	145,910	2,791	11,542	-	66	298,618
전환공정	-84,802	-38,038	22,792	-1,159,008	1,188,589	-145,910	-2,789	-5,033	559,744	2,740	-71,114
발전전용	-84,802	-15,201	-	-	-5,287	-145,910	-2,789	-5,492	513,686	-66	-63,638
열병합	-	-4,205	-432	-	-397	-	-	-227	46,058	2,567	310
열전용	-	-	-256	-	-1,711	-	-	-21	-	239	-271
석유제품생산	-	-	-	-1,159,008	1,196,345	-	-	-	-	-	-8,013
가스제조	-	-18,633	23,671	-	-360	-	-	-	-	-	-11
석탄합성가스제조	-	-	-	-	-	-	-	220	-	-	220
기타전환	-	-	-192	-	-	-	-	487	-	-	290
전환자제소비	-	-1,487	-825	-	-41,642	-	-	-	-36,061	-	-14,053
손실	-	3	-	-	-	-	-	-	-16,134	-335	-1,719
최종소비	51,914	1,479	22,444	-	796,132	-	2	6,508	507,549	2,471	211,733
산업	51,343	1,479	7,475	-	483,878	-	-	3,990	266,573	0	129,223
농림어업	139	-	4	-	9,846	-	-	164	17,305	0	3,100
광업	-	-	-	-	401	-	-	0	1,493	-	184
제조업	51,204	1,479	7,470	-	457,806	-	-	3,792	247,775	-	123,472
식품및담배	-	-	785	-	554	-	-	75	12,232	-	2,004
섬유및가죽	1,317	-	258	-	266	-	-	155	9,936	-	2,093
목재및나무제품	-	-	26	-	29	-	-	105	1,735	-	285
제지및인쇄	-	440	290	-	227	-	-	665	9,421	-	2,379
화학및석유화학	4,446	-	1,743	-	432,146	-	-	1,186	49,012	-	62,649
비금속광물	3,989	-	561	-	4,047	-	-	700	11,724	-	5,281
철강	36,407	837	1,198	-	730	-	-	11	32,617	-	29,395
비철금속	892	-	367	-	282	-	-	-	9,546	-	1,738
기계류	130	-	1,215	-	633	-	-	342	84,842	-	9,043
수송장비	-	26	677	-	1,543	-	-	59	21,853	-	2,882
기타제조	4,023	176	351	-	10,620	-	-	449	4,283	-	4,652
기타에너지	-	-	-	-	6,730	-	-	46	575	-	1,070
건설업	1	-	0	-	15,826	-	-	34	-	-	2,468
수송	-	-	1,181	-	263,189	-	-	685	3,156	-	37,194
철도	-	-	-	-	664	-	-	-	2,909	-	346
도로	-	-	1,181	-	249,929	-	-	685	248	-	35,075
국내해운	-	-	-	-	2,750	-	-	-	-	-	409
국내항공	-	-	-	-	9,845	-	-	-	-	-	1,365
가정	391	-	10,184	-	17,196	-	-	510	70,455	2,080	21,466
상업 공공	179	-	3,604	-	31,868	-	2	1,323	167,365	391	23,850
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables & others¹	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	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	42,141	-	-	-	-	-	338,899	Imports
-12	-	-	-138	-72,376	-	-	-	-	-	-72,526	Exports
-	-	-	-	-14,056	-	-	-	-	-	-14,056	International Bunkers
-1,039	399	-	815	1,044	-	-	-2	-	-	1,216	Stock changes
85,048	53,875	-	158,655	-43,246	31,079	594	11,541	-	66	297,612	Total primary energy supply
-	-	-	17,203	-11,858	-	-	-	-	-	5,344	Transfers
-2,222	-327	490	-2,132	-149	-	-	0	-	-	-4,339	Statistical differences
82,825	53,548	490	173,726	-55,254	31,079	594	11,542	-	66	298,618	Total primary energy consumption
-49,938	-49,678	23,452	-173,726	164,604	-31,079	-594	-5,033	48,138	2,740	-71,114	Transformation processes
-49,938	-19,852	-	-	-795	-31,079	-594	-5,492	44,177	-66	-63,638	Electricity-only plants
-	-5,492	-445	-	-53	-	-	-227	3,961	2,567	310	CHP plants
-	-	-263	-	-226	-	-	-21	-	239	-271	Heat-only plants
-	-	-	-173,726	165,713	-	-	-	-	-	-8,013	Petroleum Products
-	-24,334	24,358	-	-35	-	-	-	-	-	-11	Gas manufacturing
-	-	-	-	-	-	-	220	-	-	220	Coal-to-Gas plants
-	-	-197	-	-	-	-	487	-	-	290	Non-specified Transformation
-	-1,942	-849	-	-8,161	-	-	-	-3,101	-	-14,053	Transformation Own Use
-	4	-	-	-	-	-	-1,387	-335	-	-1,719	Losses
32,887	1,932	23,094	-	101,189	-	1	6,508	43,649	2,471	211,733	Total final consumption
32,617	1,932	7,692	-	60,068	-	-	3,990	22,925	0	129,223	Industry
51	-	4	-	1,392	-	-	164	1,488	0	3,100	Agriculture/forestry/Fishing
-	-	-	-	55	-	-	0	128	-	184	Mining and quarrying
32,565	1,932	7,687	-	56,187	-	-	3,792	21,309	-	123,472	Manufacturing
-	-	807	-	70	-	-	75	1,052	-	2,004	Food and tobacco
780	-	265	-	38	-	-	155	854	-	2,093	Textile and leather
-	-	27	-	4	-	-	105	149	-	285	Wood and wood products
-	575	298	-	30	-	-	665	810	-	2,379	Paper, pulp and print
2,632	-	1,794	-	52,823	-	-	1,186	4,215	-	62,649	Chemical and petrochemical
2,361	-	578	-	635	-	-	700	1,008	-	5,281	Non-metallic minerals
24,176	1,093	1,232	-	76	-	-	11	2,805	-	29,395	Iron and steel
503	-	378	-	37	-	-	-	821	-	1,738	Non-ferrous metals
77	-	1,250	-	78	-	-	342	7,296	-	9,043	Machinery
-	33	697	-	214	-	-	59	1,879	-	2,882	Transport Equipment
2,036	230	361	-	1,208	-	-	449	368	-	4,652	Other manufacturing
-	-	-	-	974	-	-	46	49	-	1,070	Other energy
0	-	0	-	2,433	-	-	34	-	-	2,468	Construction
-	-	1,216	-	35,022	-	-	685	271	-	37,194	Transport
-	-	-	-	95	-	-	-	250	-	346	Rail
-	-	1,216	-	33,152	-	-	685	21	-	35,075	Road
-	-	-	-	409	-	-	-	-	-	409	Domestic navigation
-	-	-	-	1,365	-	-	-	-	-	1,365	Domestic aviation
186	-	10,479	-	2,152	-	-	510	6,059	2,080	21,466	Residential
85	-	3,708	-	3,948	-	1	1,323	14,393	391	23,850	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables & others ¹⁾	Electric	Heat	Total	
(Thou. toe)											

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

2-12. 2020년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎥)	원유및정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 및 기타¹ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	1,019	142	-	103	-	160,184	3,879	12,624	-	73	48,325
수입	123,886	39,982	-	987,422	347,302	-	-	-	-	-	313,504
수출	-159	-	-	-448	-468,529	-	-	-	-	-	-65,399
국제빙커링	-	-	-	-	-90,868	-	-	-	-	-	-13,741
재고변화	1,259	1,183	-	1,876	1,152	-	-	1	-	-	2,854
일차에너지공급	126,004	41,307	-	988,952	-210,942	160,184	3,879	12,625	-	73	285,543
제품이동	-	-	-	101,619	-102,678	-	-	-	-	-	5,461
통계오차	-6,066	175	382	-1,275	6	-	-	-2	-	-	-2,604
일차에너지소비	119,938	41,481	382	1,089,296	-313,614	160,184	3,879	12,624	-	73	288,400
전환공정	-70,743	-38,024	22,067	-1,089,285	1,106,839	-160,184	-3,877	-5,955	549,061	2,777	-68,994
발전전용	-70,743	-15,991	-	-	-3,377	-160,184	-3,877	-7,040	503,493	-73	-61,779
열병합	-	-3,988	-360	-	-449	-	-	-154	45,567	2,633	755
열전용	-	-	-205	-	-1,594	-	-	-19	-	217	-228
석유제품생산	-	-	-	-1,089,285	1,112,863	-	-	-	-	-	-8,663
가스제조	-	-18,045	22,927	-	-604	-	-	-	-	-	-34
석탄합성가스제조	-	-	-	-	-	-	-	506	-	-	506
기타전환	-	-	-295	-	-	-	-	751	-	-	448
전환자체소비	-	-1,848	-455	-11	-40,956	-	-	-	-34,765	-	-13,922
손실	-	6	-	-	-	-	-	-	-16,990	-258	-1,711
최종소비	49,196	1,615	21,995	-	752,269	-	2	6,668	497,306	2,592	203,773
산업	48,689	1,615	7,138	-	462,169	-	-	4,030	254,749	0	124,003
농림어업	103	-	1	-	10,971	-	-	176	17,037	0	3,218
광업	-	-	-	-	486	-	-	0	1,552	-	201
제조업	48,586	1,615	7,137	-	435,470	-	-	3,839	236,161	-	118,228
식품및담배	-	-	823	-	561	-	-	105	12,902	-	2,134
섬유및가죽	1,143	-	222	-	202	-	-	162	8,697	-	1,843
목재및나무제품	-	-	24	-	47	-	-	99	1,703	-	277
제지및인쇄	-	411	296	-	261	-	-	702	9,041	-	2,355
화학및석유화학	4,661	-	1,726	-	410,314	-	-	1,122	49,520	-	60,389
비금속광물	3,404	-	516	-	3,634	-	-	732	11,154	-	4,803
철강	34,298	970	1,001	-	694	-	-	11	26,452	-	27,444
비철금속	1,100	-	462	-	313	-	-	-	10,061	-	1,998
기계류	146	-	1,251	-	635	-	-	433	82,634	-	8,993
수송장비	-	59	620	-	1,611	-	-	80	20,658	-	2,792
기타제조	3,834	175	196	-	10,656	-	-	391	3,338	-	4,242
기타에너지	-	-	-	-	6,541	-	-	0	-	-	957
건설업	0	-	0	-	15,242	-	-	15	-	-	2,356
수송	-	-	1,068	-	245,380	-	-	695	3,315	-	34,746
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	165,168	393	22,668
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables & others¹	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	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	41,319	-	-	-	-	-	313,504	Imports
-110	-	-	-80	-65,209	-	-	-	-	-	-65,399	Exports
-	-	-	-	-13,741	-	-	-	-	-	-13,741	International Bunkers
736	1,545	-	282	290	-	-	1	-	-	2,854	Stock changes
75,983	53,947	-	145,311	-37,341	34,119	826	12,625	-	73	285,543	Total primary energy supply
-	-	-	18,921	-13,461	-	-	-	-	-	5,461	Transfers
-3,197	228	394	-172	144	-	-	-2	-	-	-2,604	Statistical differences
72,786	54,175	394	164,061	-50,657	34,119	826	12,624	-	73	288,400	Total primary energy consumption
-41,635	-49,659	22,707	-164,058	154,556	-34,119	-826	-5,955	47,219	2,777	-68,994	Transformation processes
-41,635	-20,884	-	-	-502	-34,119	-826	-7,040	43,300	-73	-61,779	Electricity-only plants
-	-5,208	-371	-	-65	-	-	-154	3,919	2,633	755	CHP plants
-	-	-211	-	-215	-	-	-19	-	217	-228	Heat-only plants
-	-	-	-164,058	155,396	-	-	-	-	-	-8,663	Petroleum Products
-23,567	23,592	-	-	-59	-	-	-	-	-	-34	Gas manufacturing
-	-	-	-	-	-	-	506	-	-	506	Coal-to-Gas plants
-	-303	-	-	-	-	-	751	-	-	448	Non-specified Transformation
-2,414	-468	-2	-8,048	-	-	-	-2,990	-	-	-13,922	Transformation Own Use
8	-	-	-	-	-	-	-1,461	-258	-	-1,711	Losses
31,152	2,109	22,632	-	95,850	-	0	6,668	42,768	2,592	203,773	Total final consumption
30,912	2,109	7,345	-	57,699	-	-	4,030	21,908	0	124,003	Industry
25	-	1	-	1,550	-	-	176	1,466	0	3,218	Agriculture/forestry/Fishing
-	-	-	-	68	-	-	0	133	-	201	Mining and quarrying
30,886	2,109	7,344	-	53,740	-	-	3,839	20,310	-	118,228	Manufacturing
-	-	847	-	72	-	-	105	1,110	-	2,134	Food and tobacco
677	-	229	-	28	-	-	162	748	-	1,843	Textile and leather
-	-	24	-	7	-	-	99	146	-	277	Wood and wood products
-	536	304	-	35	-	-	702	778	-	2,355	Paper, pulp and print
2,759	-	1,777	-	50,473	-	-	1,122	4,259	-	60,389	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
616	-	475	-	41	-	-	-	865	-	1,998	Non-ferrous metals
87	-	1,288	-	80	-	-	433	7,107	-	8,993	Machinery
-	77	638	-	221	-	-	80	1,777	-	2,792	Transport Equipment
1,940	229	202	-	1,192	-	-	391	287	-	4,242	Other manufacturing
-	-	-	-	956	-	-	0	-	-	957	Other energy
0	-	0	-	2,341	-	-	15	-	-	2,356	Construction
-	-	1,099	-	32,667	-	-	695	285	-	34,746	Transport
-	-	-	-	84	-	-	-	249	-	333	Rail
-	-	1,099	-	31,622	-	-	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	14,204	393	22,668	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables & others ¹	Electric	Heat	Total	
(Thou. toe)											

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

2-13. 2021년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎞ ³)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 및 기타 ¹ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	898	42	-	36	-	158,015	3,057	14,373	-	68	49,234
수입	126,099	45,932	-	973,734	392,317	-	-	-	-	-	326,861
수출	-313	-	-	-1,782	-446,559	-	-	-	-	-	-62,376
국제병커링	-	-	-	-	-89,844	-	-	-	-	-	-13,648
재고변화	1,018	-321	-	1,928	1,109	-	-	-1	-	-	471
일차에너지공급	127,703	45,653	-	973,916	-142,976	158,015	3,057	14,373	-	68	300,544
제품이동	-	-	-	116,592	-117,175	-	-	-	-	-	6,085
통계오차	-7,773	209	274	-1,406	1,771	-	-	-2	-	-	-3,373
일차에너지소비	119,930	45,862	274	1,089,101	-258,380	158,015	3,057	14,371	-	68	303,255
전환공정	-68,940	-42,367	23,328	-1,089,068	1,105,091	-158,015	-3,055	-7,230	573,304	2,762	-72,024
발전전용	-68,940	-16,943	-	-	-3,811	-158,015	-3,055	-8,505	524,978	-68	-60,977
열병합	-	-6,306	-335	-	-377	-	-	-178	48,326	2,602	-2,040
열전용	-	-0	-281	-	-1,773	-	-	-37	-	227	-334
석유제품생산	-	-	-	-1,089,068	1,113,422	-	-	-	-	-	-9,603
가스제조	-	-19,118	24,423	-	-2,370	-	-	-	-	-	-68
석탄합성가스제조	-	-	-	-	-	-	-	467	-	-	467
기타전환	-	-	-478	-	-	-	-	1,023	-	-	531
전환자세소비	-	-1,817	-880	-33	-37,613	-	-	-	-35,708	-	-13,892
손실	-	8	-	-	-	-	-	-	-16,564	-129	-1,542
최종소비	50,990	1,687	22,723	-	809,098	-	3	7,141	521,031	2,701	215,797
산업	50,543	1,687	7,634	-	505,836	-	-	4,391	269,561	-	133,032
농림어업	146	-	2	-	9,795	-	-	132	18,496	-	3,144
광업	-	-	-	-	657	-	-	0	1,807	-	253
제조업	50,397	1,687	7,631	-	481,043	-	-	4,248	249,257	-	127,417
식품및담배	-	-	884	-	390	-	-	107	13,537	-	2,228
섬유및가죽	1,240	-	234	-	156	-	-	156	9,232	-	1,945
목재및나무제품	-	-	27	-	50	-	-	94	1,761	-	280
제지및인쇄	-	387	301	-	230	-	-	713	9,214	-	2,351
화학및석유화학	4,875	58	1,923	-	452,940	-	-	1,528	53,405	-	67,023
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	-	-	1,354	-	645	-	-	284	89,539	-	9,458
수송장비	-	129	655	-	1,478	-	-	91	22,086	-	3,032
기타제조	4,255	185	169	-	10,383	-	-	409	3,562	-	4,427
기타에너지	-	-	-	-	10,428	-	-	1	-	-	1,558
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	-	34,200
국내해운	-	-	-	-	2,863	-	-	-	-	-	428
국내항공	-	-	-	-	12,090	-	-	-	-	-	1,676
가정	409	-	10,791	-	16,827	-	-	612	77,568	2,265	22,940
상업 공공	39	-	3,269	-	27,395	-	3	1,434	170,211	435	23,189
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables & others ¹	Electric	Heat	Total
	(Thou. Tons)	(Thou. Tons)	(Mil. Mtr)	(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	석유제품	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	47,360	-	-	-	-	-	326,861	Imports
-217	-	-	-323	-61,836	-	-	-	-	-	-62,376	Exports
-	-	-	-	-13,648	-	-	-	-	-	-13,648	International Bunkers
589	-419	-	239	63	-	-	-1	-	-	471	Stock changes
76,968	59,622	-	143,265	-28,060	33,657	651	14,373	-	68	300,544	Total primary energy supply
-	-	-	21,709	-15,625	-	-	-	-	-	6,085	Transfers
-4,160	273	282	-191	424	-	-	-2	-	-	-3,373	Statistical differences
72,808	59,896	282	164,783	-43,261	33,657	651	14,371	-	68	303,255	Total primary energy consumption
-40,557	-55,331	24,005	-164,777	154,108	-33,657	-651	-7,230	49,304	2,762	-72,024	Transformation processes
-40,557	-22,127	-	-	-561	-33,657	-651	-8,505	45,148	-68	-60,977	Electricity-only plants
-	-8,236	-344	-	-40	-	-	-178	4,156	2,602	-2,040	CHP plants
-	-0	-289	-	-235	-	-	-37	-	227	-334	Heat-only plants
-	-	-	-164,777	155,174	-	-	-	-	-	-9,603	Petroleum Products
-	-24,968	25,131	-	-230	-	-	-	-	-	-68	Gas manufacturing
-	-	-	-	-	-	-	467	-	-	467	Coal-to-Gas plants
-	-	-492	-	-	-	-	1,023	-	-	531	Non-specified Transformation
-	-2,373	-905	-6	-7,537	-	-	-	-3,071	-	-13,892	Transformation Own Use
-	11	-	-	-	-	-	-	-1,424	-129	-1,542	Losses
32,251	2,203	23,382	-	103,310	-	1	7,141	44,809	2,701	215,797	Total final consumption
32,040	2,203	7,855	-	63,361	-	-	4,391	23,182	-	133,032	Industry
36	-	2	-	1,382	-	-	132	1,591	-	3,144	Agriculture/forestry/Fishing
-	-	-	-	98	-	-	0	155	-	253	Mining and quarrying
32,004	2,203	7,852	-	59,673	-	-	4,248	21,436	-	127,417	Manufacturing
-	-	910	-	47	-	-	107	1,164	-	2,228	Food and tobacco
734	-	241	-	21	-	-	156	794	-	1,945	Textile and leather
-	-	28	-	7	-	-	94	151	-	280	Wood and wood products
-	505	310	-	30	-	-	713	792	-	2,351	Paper, pulp and print
2,886	76	1,979	-	55,960	-	-	1,528	4,593	-	67,023	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
-	-	1,393	-	81	-	-	284	7,700	-	9,458	Machinery
-	168	674	-	200	-	-	91	1,899	-	3,032	Transport Equipment
2,153	242	173	-	1,143	-	-	409	306	-	4,427	Other manufacturing
-	-	-	-	1,557	-	-	1	-	-	1,558	Other energy
0	-	-	-	2,207	-	-	11	-	-	2,218	Construction
-	-	1,060	-	34,554	-	-	704	318	-	36,636	Transport
-	-	-	-	75	-	-	-	258	-	332	Rail
-	-	1,060	-	32,376	-	-	704	61	-	34,200	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	14,638	435	23,189	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables & others ¹⁾	Electric	Heat	Total	
(Thou. toe)											

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

2-14. 2022년

	석탄 및 석탄제품 (천톤)	천연가스 (천톤)	도시가스 (백만㎥)	원유 및 정제원료 (천배럴)	석유제품 (천배럴)	원자력 (GWh)	수력 (GWh)	신재생 및 기타¹ (천toe)	전기 (GWh)	열 (천toe)	합계 (천toe)
국내생산	820	-	-	17	-	176,054	3,545	15,908	-	69	54,621
수입	125,564	46,394	-	1,047,685	367,072	-	-	-	-	-	336,444
수출	-29	-	-	-1,848	-497,020	-	-	-	-	-	-69,339
국제병커링	-	-8	-	-	-102,335	-	-	-	-	-	-15,514
재고변화	-484	-1,144	-	-3,290	48	-	-	1	-	-	-2,265
일차에너지공급	125,871	45,242	-	1,042,564	-232,234	176,054	3,545	15,909	-	69	303,954
제품이동	-	-	-	116,442	-116,865	-	-	-	-	-	6,237
통계오차	-10,903	321	-65	-3,113	7,734	-	-	0	-	-	-5,108
일차에너지소비	114,968	45,562	-65	1,155,893	-341,365	176,054	3,545	15,909	-	69	305,083
전환공정	-67,124	-42,351	24,271	-1,155,425	1,179,249	-176,054	-3,541	-8,644	590,843	3,162	-74,990
발전전용	-67,124	-16,128	-	-	-4,056	-176,054	-3,541	-9,424	545,419	-69	-61,563
열병합	-	-6,579	-294	-	-967	-	-	-221	45,424	2,893	-2,428
열전용	-	-	-382	-	-1,683	-	-	-24	-	338	-310
석유제품생산	-	-	-	-1,155,425	1,189,404	-	-	-	-	-	-11,108
가스제조	-	-19,643	25,543	-	-3,449	-	-	-	-	-	0
석탄합성가스제조	-	-	-	-	-	-	-	419	-	-	419
기타전환	-	-	-596	-	-	-	-	607	-	-	-
전환자제소비	-	-1,514	-813	-468	-38,981	-	-	-	-37,316	-	-13,768
손실	-	5	-	-	-	-	-	-	-18,164	-286	-1,842
최종소비	47,844	1,703	23,392	-	798,903	-	4	7,265	535,364	2,946	214,482
산업	47,421	1,703	7,639	-	496,939	-	-	4,471	274,066	-	130,463
농림어업	111	-	3	-	8,939	-	-	193	19,286	-	3,141
광업	-	-	-	-	701	-	-	4	1,759	-	261
제조업	47,309	1,703	7,636	-	474,186	-	-	4,274	253,021	-	125,050
식품및담배	7	-	900	-	354	-	-	85	13,908	-	2,243
섬유및가죽	1,584	-	221	-	170	-	-	192	8,858	-	2,131
목재및나무제품	-	-	31	-	48	-	-	41	1,754	-	231
제지및인쇄	-	410	300	-	220	-	-	694	9,196	-	2,356
화학및석유화학	4,972	241	1,886	-	446,587	-	-	1,386	53,422	-	66,164
비금속광물	3,656	-	522	-	3,156	-	-	991	11,798	-	5,155
철강	32,505	567	1,056	-	558	-	-	3	25,902	-	25,902
비철금속	808	178	492	-	354	-	-	-	9,308	-	2,040
기계류	296	27	1,395	-	638	-	-	452	92,551	-	10,123
수송장비	-	96	661	-	1,783	-	-	60	22,742	-	3,060
기타제조	3,482	184	171	-	9,899	-	-	369	3,583	-	4,079
기타에너지	-	-	-	-	10,418	-	-	-	-	-	1,567
건설업	0	-	-	-	13,113	-	-	0	-	-	2,012
수송	-	-	1,006	-	258,008	-	-	682	4,053	-	36,294
철도	-	-	-	-	439	-	-	-	2,751	-	300
도로	-	-	1,006	-	242,421	-	-	682	1,303	-	33,859
국내해운	-	-	-	-	3,091	-	-	-	-	-	464
국내항공	-	-	-	-	12,057	-	-	-	-	-	1,671
가정	387	-	11,255	-	16,452	-	-	695	78,557	2,432	23,560
상업 공공	36	-	3,491	-	27,504	-	4	1,418	178,687	514	24,165
	Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables & 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	석유제품	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	-	153,637	43,277	-	-	-	-	-	336,444	Imports
-19	-	-	-	-68,988	-	-	-	-	-	-69,339	Exports
-	-10	-	-	-15,503	-	-	-	-	-	-15,514	International Bunkers
-292	-1,503	-	-344	55	-	-	1	-	-	-2,265	Stock changes
75,869	59,176	-	153,296	-41,160	37,500	755	15,909	-	69	303,954	Total primary energy supply
-	-	-	-	-15,445	-	-	-	-	-	6,237	Transfers
-6,225	419	-66	-431	1,237	-	-	0	-	-	-5,108	Statistical differences
69,644	59,596	-66	152,865	-55,368	37,500	755	15,909	-	69	305,083	Total primary energy consumption
-39,081	-55,395	24,732	-152,865	164,633	-37,500	-754	-8,644	50,813	3,162	-74,990	Transformation processes
-39,081	-21,095	-	-	-546	-37,500	-754	-9,424	46,906	-69	-61,563	Electricity-only plants
-	-8,605	-300	-	-101	-	-	-221	3,906	2,893	-2,428	CHP plants
-	-	-389	-	-235	-	-	-24	-	338	-310	Heat-only plants
-	-	-	-152,865	165,849	-	-	-	-	-	-11,108	Petroleum Products
-	-25,694	26,028	-	-334	-	-	-	-	-	0	Gas manufacturing
-	-	-	-	-	-	-	419	-	-	419	Coal-to-Gas plants
-	-	-607	-	-	-	-	607	-	-	-	Non-specified Transformation
-	-1,980	-829	-	-7,663	-	-	-	-3,209	-	-13,768	Transformation Own Use
-	6	-	-	-	-	-	-1,562	-286	-1,842	-	Losses
30,563	2,227	23,837	-	101,602	-	1	7,265	46,041	2,946	214,482	Total final consumption
30,364	2,227	7,784	-	62,048	-	-	4,471	23,570	-	130,463	Industry
28	-	3	-	1,259	-	-	193	1,659	-	3,141	Agriculture/forestry/Fishing
-	-	-	-	106	-	-	4	151	-	261	Mining and quarrying
30,336	2,227	7,781	-	58,672	-	-	4,274	21,760	-	125,050	Manufacturing
4	-	917	-	41	-	-	85	1,196	-	2,243	Food and tobacco
928	-	226	-	23	-	-	192	762	-	2,131	Textile and leather
-	-	32	-	7	-	-	41	151	-	231	Wood and wood products
-	536	306	-	29	-	-	694	791	-	2,356	Paper, pulp and print
2,913	316	1,922	-	55,032	-	-	1,386	4,594	-	66,164	Chemical and petrochemical
2,142	-	532	-	474	-	-	991	1,015	-	5,155	Non-metallic minerals
21,797	742	1,076	-	56	-	-	3	2,228	-	25,902	Iron and steel
462	232	501	-	44	-	-	-	801	-	2,040	Non-ferrous metals
174	35	1,422	-	81	-	-	452	7,959	-	10,123	Machinery
-	125	673	-	245	-	-	60	1,956	-	3,060	Transport Equipment
1,915	240	174	-	1,072	-	-	369	308	-	4,079	Other manufacturing
-	-	-	-	1,567	-	-	-	-	-	1,567	Other energy
0	-	-	-	2,012	-	-	0	-	-	2,012	Construction
-	-	1,025	-	34,238	-	-	682	349	-	36,294	Transport
-	-	-	-	63	-	-	-	237	-	300	Rail
-	-	1,025	-	32,039	-	-	682	112	-	33,859	Road
-	-	-	-	464	-	-	-	-	-	464	Domestic navigation
-	-	-	-	1,671	-	-	-	-	-	1,671	Domestic aviation
182	-	11,469	-	2,026	-	-	695	6,756	2,432	23,560	Residential
17	-	3,558	-	3,290	-	1	1,418	15,367	514	24,165	Commercial/Public
Coal	Natural Gas	City Gas	Crude oil & refinery feedstocks	Petroleum	Nuclear	Hydro	Renewables & 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

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- 3-2. OECD 국가별 에너지 수입·수출(2022년)
- 3-3. 주요국 일차에너지 공급(2022년)
- 3-4. 주요국 전력 소비
- 3-5. OECD 국가별 최종에너지 소비(2021년)
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- 3-8. 주요국 CO₂ 배출량
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03 Energy Statistics in Selected Country



- 3-1. Major Energy and Economic Statistics(2021)
- 3-2. Energy Imports and Exports in OECD Countries(2022)
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- 3-5. Final Energy Consumption in OECD Countries(2021)
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- 3-7. International Prices by Energy Source
- 3-8. CO₂ Emissions in Selected Countries
- 3-9. Refinery Capacities in Selected Countries

3-1. 주요 에너지·경제 통계(2021년)

	인구	GDP	GDP(PPP)	에너지생산	에너지순수입	일차에너지	전력소비 ¹	CO ₂ 배출량 ²
	(백만명)	(2015년 십억달러)	(2015년 십억달러)	(백만toe)	(백만toe)	(백만toe)	(TWh)	(백만톤 CO ₂ eq.)
세계	7,881.6	87,086.4	131,906.1	14,672.7	-14.4	14,759.5	26,467.2	33,572.1
OECD	1,372.0	51,922.3	59,289.0	4,510.7	759.9	5,257.3	10,637.5	10,848.2
중동	260.7	2,297.5	4,918.9	1,910.8	-1,070.9	805.9	1,108.3	1,798.0
비OECD 유럽 및 유라시아	341.2	2,641.4	6,887.9	2,006.8	-752.3	1,225.2	1,670.0	2,584.4
중국(홍콩 포함)	1,419.8	16,257.0	26,061.3	2,982.5	832.7	3,750.7	8,307.2	10,682.8
비OECD 아시아(중국제외)	2,644.0	7,520.2	21,852.1	1,554.4	489.2	1,997.1	3,008.4	4,547.0
비OECD 아메리카	452.0	3,697.6	6,106.8	588.3	-18.2	555.7	972.8	907.9
아프리카	1,391.7	2,750.5	6,790.1	1,119.2	-254.8	853.0	763.0	1,218.5
알바니아	2.8	13.6	40.1	1.8	0.5	2.3	7.1	3.9
알제리	44.2	174.2	501.0	154.3	-89.9	64.2	75.3	143.2
앙골라	34.5	105.7	186.0	68.9	-53.9	15.1	14.9	19.8
아르헨티나	45.8	616.1	828.3	76.0	4.7	80.2	133.4	170.3
아르메니아	2.8	12.6	34.9	0.8	3.0	3.7	6.7	6.9
호주	25.7	1,401.2	1,265.2	426.5	-296.9	130.2	253.0	360.9
오스트리아	9.0	405.1	457.0	12.1	17.7	33.3	75.1	60.5
아제르바이잔	10.1	54.2	147.4	64.1	-47.2	16.5	24.2	34.0
바레인	1.5	34.3	68.9	24.2	-8.1	16.0	32.9	32.8
방글라데시	169.4	340.7	973.2	30.1	19.6	49.3	93.2	98.7
벨라루스	9.3	60.0	181.9	6.0	21.3	27.3	38.1	53.1
벨기에	11.6	497.3	560.3	18.0	45.2	55.5	89.0	86.4
베냉	13.0	15.8	42.3	2.9	2.1	4.9	1.5	5.5
볼리비아	12.1	37.0	86.9	17.6	-8.6	0.1	9.9	20.2
보스니아헤르체고비나	3.3	19.5	49.4	5.2	2.0	7.4	12.4	20.7
보츠와나	2.6	16.5	37.8	1.7	0.8	2.5	3.6	6.2
브라질	214.3	1,847.9	3,090.8	314.4	-11.2	299.0	570.8	439.1
브루나이	0.4	13.2	26.5	13.5	-9.3	4.0	5.2	9.1
	Population	GDP	GDP(PPP)	Energy Productions	Net Imports	TPES	Elec. Consumption ¹	CO ₂ Emissions ²
	(Million)	(Bil. 2015 USD)	(Bil. 2015 USD)	(Mil. toe)	(Mil. toe)	(Mil. toe)	(TWh)	(Mil. Tons CO ₂ eq.)

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.

4. 세계 CO₂ 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.

자료: OECD iLibrary



3-1. Major Energy and Economic Statistics(2021)

일차에너지/ 인구 (toe/인)	일차에너지/ GDP (toe/천달러)	일차에너지/ GDP(PPP) (toe/천달러)	전력소비/ 인구 (kWh/인)	CO ₂ / 일차에너지 (톤 CO ₂ eq./toe)	CO ₂ /인구 (톤 CO ₂ eq./인)	CO ₂ /GDP (kg CO ₂ eq./달러)	CO ₂ / GDP(PPP) (kg CO ₂ eq./달러)	
1.87	0.17	0.11	3,358	2.27	4.26	0.39	0.25	World
3.83	0.10	0.09	7,753	2.06	7.91	0.21	0.18	OECD
3.09	0.35	0.16	4,251	2.23	6.90	0.78	0.37	Middle East
3.59	0.46	0.18	4,894	2.11	7.57	0.98	0.38	Non-OECD Europe and Eurasia
2.64	0.23	0.14	5,851	2.85	7.52	0.66	0.41	China (P.R. of China and Hong Kong)
0.76	0.27	0.09	1,138	2.28	1.72	0.60	0.21	Non-OECD Asia(excluding China)
1.23	0.15	0.09	2,152	1.63	2.01	0.25	0.15	Non-OECD Americas
0.61	0.31	0.13	548	1.43	0.88	0.44	0.18	Africa
0.81	0.17	0.06	2,510	1.71	1.38	0.29	0.10	Albania
1.45	0.37	0.13	1,704	2.23	3.24	0.82	0.29	Algeria
0.44	0.14	0.08	432	1.31	0.57	0.19	0.11	Angola
1.75	0.13	0.10	2,911	2.12	3.72	0.28	0.21	Argentina
1.33	0.29	0.11	2,401	1.85	2.46	0.54	0.20	Armenia
5.06	0.09	0.10	9,828	2.77	14.02	0.26	0.29	Australia
3.72	0.08	0.07	8,382	1.82	6.75	0.15	0.13	Austria
1.63	0.30	0.11	2,389	2.05	3.35	0.63	0.23	Azerbaijan
10.97	0.47	0.23	22,482	2.04	22.40	0.96	0.48	Bahrain
0.29	0.14	0.05	550	2.00	0.58	0.29	0.10	Bangladesh
2.92	0.45	0.15	4,078	1.95	5.69	0.89	0.29	Belarus
4.79	0.11	0.10	7,678	1.55	7.45	0.17	0.15	Belgium
0.38	0.31	0.12	117	1.11	0.42	0.35	0.13	Benin
0.75	0.00	0.00	820	194.29	1.67	0.55	0.23	Bolivia
2.25	0.38	0.15	3,805	2.81	6.33	1.06	0.42	Bosnia and Herzegovina
0.96	0.15	0.07	1,381	2.52	2.41	0.38	0.16	Botswana
1.40	0.16	0.10	2,663	1.47	2.05	0.24	0.14	Brazil
9.10	0.31	0.15	11,656	2.25	20.46	0.69	0.34	Brunei Darussalam
TPES/Pop.	TPES/GDP	TPES/ GDP(PPP)	Elec. Consumption/ Pop.	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP(PPP)	
(toe/Capita)	(toe/Thou. USD)	(toe/Thou. USD)	(kWh/Capita)	(Tons CO ₂ eq./toe)	(Tons CO ₂ eq./Capita)	(kg CO ₂ eq./USD)	(kg CO ₂ eq./USD)	

1. Gross production+imports-exports-losses.

2. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO₂ emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

03 주요국의 에너지통계

3-1. 주요에너지·경제 통계(2021년, 계속)

	인구	GDP	GDP(PPP)	에너지생산	에너지순수입	일차에너지	전력소비 ¹	CO ₂ 배출량 ²
	(백만명)	(2015년 십억달러)	(2015년 십억달러)	(백만toe)	(백만toe)	(백만toe)	(TWh)	(백만톤 CO ₂ eq.)
불가리아	6.9	59.4	154.3	12.0	7.0	19.0	36.2	38.7
캄보디아	16.6	23.7	69.1	4.0	4.5	8.6	12.2	13.1
카메룬	27.2	39.1	95.9	13.3	-3.1	10.2	6.2	6.6
캐나다	38.2	1,691.6	1,732.6	539.1	-248.9	290.3	563.6	505.6
칠레	19.7	274.7	459.3	13.0	27.2	39.6	83.8	85.0
중국	1,412.4	15,926.9	25,622.4	2,982.4	810.0	3,738.2	8,259.1	10,648.5
콜롬비아	49.9	330.6	710.8	98.1	-64.0	42.4	79.6	77.3
콩고	5.8	9.3	17.6	17.1	-13.6	3.5	2.2	3.7
코스타리카	5.2	66.4	97.5	2.6	2.7	5.0	10.7	7.5
코트디부아르	27.5	63.7	150.3	10.0	1.7	11.5	9.0	12.1
크로아티아	3.9	59.1	115.5	3.9	4.8	8.6	17.5	15.1
쿠바	11.3	82.1	270.9	4.3	5.2	8.9	14.2	20.5
퀴라소	0.2	2.4	3.0	0.0	2.5	0.8	0.8	2.2
키프로스	0.9	25.5	34.7	0.2	2.4	2.2	4.9	6.0
체코	10.7	211.1	401.3	24.6	17.1	42.7	70.4	92.3
북한	26.0	28.6	103.2	15.4	0.9	16.3	21.5	54.3
콩고 민주공화국	95.9	49.4	90.0	31.8	0.0	31.7	13.4	2.3
덴마크	5.9	341.9	314.9	9.2	5.7	16.2	36.1	27.6
도미니카공화국	11.1	93.5	199.1	1.2	9.5	10.4	19.0	26.8
에콰도르	17.8	97.8	176.5	28.0	-12.7	14.8	27.3	34.1
이집트	109.3	426.0	1,427.2	93.5	4.7	97.3	172.1	206.8
엘살바도르	6.3	26.1	53.5	2.1	2.6	4.5	6.7	6.9
에리트레아	3.6	2.3	6.2	0.7	0.2	1.0	0.3	0.6
에스토니아	1.3	28.9	48.5	4.4	0.1	4.6	9.4	8.3
에티오피아	120.3	99.4	263.3	42.1	4.6	46.2	10.9	12.9
핀란드	5.5	256.3	254.4	19.4	12.9	33.2	86.7	35.9
프랑스	68.2	2,573.7	2,871.4	127.1	107.3	235.4	471.3	291.8
가봉	2.3	15.4	30.6	14.5	-9.5	5.0	2.4	2.3
조지아	3.7	18.3	55.0	1.2	4.1	5.3	13.4	9.9
	Population	GDP	GDP(PPP)	Energy Productions	Net Imports	TPES	Elec. Consumption ¹	CO ₂ Emissions ²
	(Million)	(Bil. 2015 USD)	(Bil. 2015 USD)	(Mil. toe)	(Mil. toe)	(Mil. toe)	(TWh)	(Mil. Tons CO ₂ eq.)

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.

4. 세계 CO₂ 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.

자료: OECD iLibrary

3-1. Major Energy and Economic Statistics(2021, Continued)

일차에너지/ 인구 (toe/인)	일차에너지/ GDP (toe/천달러)	일차에너지/ GDP(PPP) (toe/천달러)	전력소비/ 인구 (kWh/인)	CO ₂ / 일차에너지 (톤 CO ₂ eq./toe)	CO ₂ /인구 (톤 CO ₂ eq./인)	CO ₂ /GDP (kg CO ₂ eq./달러)	CO ₂ / GDP(PPP) (kg CO ₂ eq./달러)	
2.76	0.32	0.12	5,261	2.04	5.62	0.65	0.25	Bulgaria
0.52	0.36	0.12	733	1.53	0.79	0.55	0.19	Cambodia
0.38	0.26	0.11	228	0.65	0.24	0.17	0.07	Cameroon
7.59	0.17	0.17	14,737	1.74	13.22	0.30	0.29	Canada
2.01	0.14	0.09	4,260	2.15	4.32	0.31	0.19	Chile
2.65	0.23	0.15	5,848	2.85	7.54	0.67	0.42	People's Rep. of China
0.85	0.13	0.06	1,594	1.82	1.55	0.23	0.11	Colombia
0.59	0.37	0.20	381	1.06	0.63	0.40	0.21	Congo
0.98	0.08	0.05	2,070	1.48	1.44	0.11	0.08	Costa Rica
0.42	0.18	0.08	329	1.05	0.44	0.19	0.08	Côte d'Ivoire
2.20	0.15	0.07	4,483	1.76	3.87	0.26	0.13	Croatia
0.79	0.11	0.03	1,265	2.29	1.82	0.25	0.08	Cuba
5.17	0.33	0.26	4,956	2.81	14.51	0.93	0.74	Curacao
2.51	0.09	0.06	5,588	2.74	6.86	0.24	0.17	Cyprus
3.99	0.20	0.11	6,577	2.16	8.62	0.44	0.23	Czech Republic
0.63	0.57	0.16	829	3.34	2.09	1.90	0.53	DPR of Korea
0.33	0.64	0.35	140	0.07	0.02	0.05	0.03	Dem. Rep. of the Congo
2.77	0.05	0.05	6,160	1.70	4.72	0.08	0.09	Denmark
0.94	0.11	0.05	1,707	2.57	2.41	0.29	0.13	Dominican Republic
0.83	0.15	0.08	1,535	2.30	1.91	0.35	0.19	Ecuador
0.89	0.23	0.07	1,575	2.13	1.89	0.49	0.14	Egypt
0.72	0.17	0.08	1,061	1.53	1.10	0.27	0.13	El Salvador
0.27	0.41	0.16	93	0.66	0.18	0.27	0.10	Eritrea
3.43	0.16	0.09	7,067	1.82	6.24	0.29	0.17	Estonia
0.38	0.46	0.18	90	0.28	0.11	0.13	0.05	Ethiopia
5.99	0.13	0.13	15,644	1.08	6.48	0.14	0.14	Finland
3.45	0.09	0.08	6,908	1.24	4.28	0.11	0.10	France
2.14	0.32	0.16	1,042	0.45	0.96	0.15	0.07	Gabon
1.43	0.29	0.10	3,604	1.87	2.67	0.54	0.18	Georgia
TPES/Pop.	TPES/GDP	TPES/ GDP(PPP)	Elec. Consumption/ Pop.	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP(PPP)	
(toe/Capita)	(toe/Thou. USD)	(toe/Thou. USD)	(kWh/Capita)	(Tons CO ₂ eq./toe)	(Tons CO ₂ eq./Capita)	(kg CO ₂ eq./USD)	(kg CO ₂ eq./USD)	

1. Gross production+imports-exports-losses.

2. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO₂ emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

3-1. 주요에너지·경제 통계(2021년, 계속)

	인구	GDP	GDP(PPP)	에너지생산	에너지순수입	일차에너지	전력소비 ¹	CO ₂ 배출량 ²
	(백만명)	(2015년 십억달러)	(2015년 십억달러)	(백만toe)	(백만toe)	(백만toe)	(TWh)	(백만톤 CO ₂ eq.)
독일	83.2	3,554.2	4,118.1	101.7	188.6	287.9	543.2	624.1
가나	32.8	66.1	194.1	15.6	-3.4	12.3	18.8	21.4
지브롤터	0.0	1.4	1.2	0.0	4.3	0.3	0.2	0.6
그리스	10.7	201.2	297.8	4.7	17.2	20.3	52.8	49.7
과테말라	17.1	75.1	154.0	10.7	6.5	16.1	12.2	18.3
아이티	11.4	14.1	30.7	3.4	1.2	4.6	0.4	3.1
온두라스	10.3	25.0	52.3	2.7	3.0	5.8	8.0	9.2
홍콩	7.4	330.1	438.8	0.1	22.7	12.5	48.1	34.3
헝가리	9.7	150.8	317.6	10.9	14.8	27.5	45.8	45.1
아이슬란드	0.4	20.1	18.6	5.2	0.9	5.9	19.0	1.6
인도	1,407.6	2,818.3	9,399.4	608.9	320.9	944.1	1,345.3	2,279.0
인도네시아	273.8	1,065.7	3,277.8	446.2	-211.3	235.4	284.6	556.6
이란	87.9	480.3	1,302.1	383.8	-88.4	293.6	301.1	642.6
이라크	43.5	198.6	413.5	213.0	-165.3	47.4	56.3	124.7
아일랜드	5.0	447.7	498.9	3.0	11.1	13.8	31.1	33.7
이스라엘	9.4	382.1	378.5	17.1	6.5	22.8	63.8	57.0
이탈리아	59.1	1,867.6	2,281.2	34.2	114.7	149.5	312.8	309.7
자메이카	2.8	14.0	25.2	0.2	2.9	2.5	3.1	6.0
일본	125.5	4,464.3	5,221.7	53.4	354.3	399.6	1,000.9	998.1
요르단	11.1	42.2	95.9	0.9	7.7	8.3	19.2	20.6
카자흐스탄	19.0	213.2	471.1	157.4	-90.4	68.7	105.1	223.7
케냐	53.0	90.4	227.3	22.7	6.5	28.6	9.8	17.4
한국	52.0	1,693.4	2,234.5	52.4	248.5	291.8	592.3	558.6
코소보	1.8	7.9	21.0	1.9	0.9	2.9	6.5	9.0
쿠웨이트	4.3	105.7	167.4	148.9	-111.6	35.9	73.6	98.1
키르기스스탄	6.7	7.5	28.2	2.5	1.7	4.1	13.5	9.2
라트비아	1.9	31.3	56.8	2.7	1.8	4.5	7.2	6.6
레바논	5.6	34.1	67.2	0.3	5.5	5.6	10.0	16.0
리비아	6.7	55.2	155.5	72.5	-55.3	16.8	25.5	41.2
리투아니아	2.8	51.1	103.2	2.1	5.9	7.7	13.2	11.5
룩셈부르크	0.6	69.0	70.6	0.3	3.9	3.6	7.8	7.9
	Population	GDP	GDP(PPP)	Energy Productions	Net Imports	TPES	Elec. Consumption ¹	CO ₂ Emissions ²
	(Million)	(Bil. 2015 USD)	(Bil. 2015 USD)	(Mil. toe)	(Mil. toe)	(Mil. toe)	(TWh)	(Mil. Tons CO ₂ eq.)

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.

4. 세계 CO₂ 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.

자료: OECD iLibrary



3-1. Major Energy and Economic Statistics(2021, Continued)

일차에너지/ 인구 (toe/인)	일차에너지/ GDP (toe/천달러)	일차에너지/ GDP(PPP) (toe/천달러)	전력소비/ 인구 (kWh/인)	CO ₂ / 일차에너지 (톤 CO ₂ eq./toe)	CO ₂ /인구 (톤 CO ₂ eq./인)	CO ₂ /GDP (kg CO ₂ eq./달러)	CO ₂ / GDP(PPP) (kg CO ₂ eq./달러)	
3.46	0.08	0.07	6,529	2.17	7.50	0.18	0.15	Germany
0.37	0.19	0.06	572	1.75	0.65	0.32	0.11	Ghana
7.58	0.18	0.20	6,849	2.58	19.58	0.46	0.53	Gibraltar
1.91	0.10	0.07	4,948	2.44	4.65	0.25	0.17	Greece
0.94	0.21	0.10	714	1.13	1.07	0.24	0.12	Guatemala
0.40	0.33	0.15	36	0.67	0.27	0.22	0.10	Haiti
0.56	0.23	0.11	781	1.59	0.89	0.37	0.18	Honduras
1.68	0.04	0.03	6,486	2.75	4.63	0.10	0.08	Hong Kong(China)
2.83	0.18	0.09	4,719	1.64	4.64	0.30	0.14	Hungary
15.76	0.29	0.32	51,070	0.26	4.16	0.08	0.08	Iceland
0.67	0.34	0.10	956	2.41	1.62	0.81	0.24	India
0.86	0.22	0.07	1,040	2.36	2.03	0.52	0.17	Indonesia
3.34	0.61	0.23	3,425	2.19	7.31	1.34	0.49	Islamic Rep. of Iran
1.09	0.24	0.11	1,293	2.63	2.86	0.63	0.30	Iraq
2.74	0.03	0.03	6,188	2.44	6.70	0.08	0.07	Ireland
2.43	0.06	0.06	6,814	2.50	6.09	0.15	0.15	Israel
2.53	0.08	0.07	5,292	2.07	5.24	0.17	0.14	Italy
0.88	0.18	0.10	1,111	2.39	2.11	0.43	0.24	Jamaica
3.18	0.09	0.08	7,975	2.50	7.95	0.22	0.19	Japan
0.75	0.20	0.09	1,726	2.47	1.85	0.49	0.21	Jordan
3.61	0.32	0.15	5,529	3.26	11.77	1.05	0.47	Kazakhstan
0.54	0.32	0.13	185	0.61	0.33	0.19	0.08	Kenya
5.62	0.17	0.13	11,402	1.91	10.75	0.33	0.25	South Korea
1.62	0.36	0.14	3,661	3.11	5.02	1.13	0.43	Kosovo
8.44	0.34	0.21	17,308	2.73	23.07	0.93	0.59	Kuwait
0.61	0.55	0.15	2,022	2.26	1.38	1.23	0.33	Kyrgyzstan
2.38	0.14	0.08	3,842	1.47	3.50	0.21	0.12	Latvia
1.00	0.16	0.08	1,789	2.85	2.86	0.47	0.24	Lebanon
2.50	0.30	0.11	3,793	2.45	6.12	0.75	0.26	Libya
2.76	0.15	0.07	4,708	1.49	4.10	0.23	0.11	Lithuania
5.63	0.05	0.05	12,135	2.18	12.27	0.11	0.11	Luxembourg
TPES/Pop.	TPES/GDP	TPES/ GDP(PPP)	Elec. Consumption/ Pop.	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP(PPP)	
(toe/Capita)	(toe/Thou. USD)	(toe/Thou. USD)	(kWh/Capita)	(Tons CO ₂ eq./toe)	(Tons CO ₂ eq./Capita)	(kg CO ₂ eq./USD)	(kg CO ₂ eq./USD)	

1. Gross production+imports-exports-losses.

2. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO₂ emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

3-1. 주요에너지·경제 통계(2021년, 계속)

	인구	GDP	GDP(PPP)	에너지생산	에너지순수입	일차에너지	전력소비 ¹	CO ₂ 배출량 ²
	(백만명)	(2015년 십억달러)	(2015년 십억달러)	(백만toe)	(백만toe)	(백만toe)	(TWh)	(백만톤 CO ₂ eq.)
말레이시아	33.6	355.1	884.4	93.3	-0.9	95.2	166.6	225.9
몰타	0.5	14.8	22.2	0.0	2.7	0.7	2.6	1.6
모리셔스	1.3	12.3	25.5	0.2	1.9	1.4	2.8	4.0
멕시코	128.0	1,204.9	2,297.3	153.9	27.7	178.4	336.7	375.5
몰도바	2.6	9.5	32.2	0.8	3.5	4.2	6.2	8.8
몽골	3.3	13.8	37.8	22.1	-9.5	6.5	8.2	22.6
몬테네그로	0.6	4.6	11.5	0.7	0.3	1.1	3.1	2.6
모로코	37.1	123.9	302.7	2.3	20.8	22.8	35.1	67.4
모잠비크	32.1	18.4	40.2	19.9	-8.3	11.2	13.0	7.0
미얀마	53.8	64.2	234.1	27.4	-5.8	21.6	14.8	27.7
나미비아	2.5	10.6	23.1	0.7	1.3	1.9	3.6	3.6
네팔	30.0	30.3	103.5	11.4	4.3	15.6	9.0	13.1
네덜란드	17.5	846.6	942.2	26.3	49.8	71.1	117.6	134.4
뉴질랜드	5.1	210.3	204.5	14.2	5.9	19.8	41.7	31.0
니카라과	6.9	14.1	36.3	2.3	1.7	4.0	4.1	4.8
니제르	25.3	12.8	30.3	3.9	-0.1	3.7	1.5	2.5
나이지리아	213.4	520.1	1,033.7	230.7	-59.9	164.9	30.6	101.5
노르웨이	5.4	420.8	341.7	213.9	-185.6	28.7	130.7	36.2
오만	4.5	82.7	160.7	83.0	-54.2	26.7	37.4	69.7
파키스탄	231.4	376.7	1,230.4	78.1	43.5	122.0	134.0	201.6
파나마	4.4	60.6	112.6	1.1	6.9	4.5	10.5	10.6
파라과이	6.7	42.0	89.0	6.6	0.8	7.4	14.0	8.3
페루	33.7	219.9	408.5	22.6	0.8	23.7	50.2	46.4
필리핀	113.9	379.0	907.5	31.6	30.6	61.2	96.1	132.2
폴란드	38.2	598.2	1,277.8	59.9	44.4	108.0	171.3	299.3
포르투갈	10.3	215.1	331.4	6.2	14.8	20.1	50.8	35.0
카타르	2.7	164.0	241.9	219.2	-173.6	42.9	48.7	85.2
루마니아	19.1	222.3	535.7	23.0	10.8	34.2	55.5	69.8
러시아	143.4	1,502.8	3,886.4	1,529.5	-669.0	833.2	1,040.2	1,677.6
사우디아라비아	36.0	705.4	1,662.7	601.2	-365.7	232.3	371.7	497.3
세네갈	16.9	24.2	59.1	2.1	3.4	5.1	5.7	9.3
	Population	GDP	GDP(PPP)	Energy Productions	Net Imports	TPES	Elec. Consumption ¹	CO ₂ Emissions ²
	(Million)	(Bil. 2015 USD)	(Bil. 2015 USD)	(Mil. toe)	(Mil. toe)	(Mil. toe)	(TWh)	(Mil. Tons CO ₂ eq.)

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO₂ 배출량이며, IEA 에너지밸런스서 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.

4. 세계 CO₂ 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.

자료: OECD iLibrary

3-1. Major Energy and Economic Statistics(2021, Continued)

일차에너지/ 인구 (toe/인)	일차에너지/ GDP (toe/천달러)	일차에너지/ GDP(PPP) (toe/천달러)	전력소비/ 인구 (kWh/인)	CO ₂ / 일차에너지 (톤 CO ₂ eq./toe)	CO ₂ /인구 (톤 CO ₂ eq./인)	CO ₂ /GDP (kg CO ₂ eq./달러)	CO ₂ / GDP(PPP) (kg CO ₂ eq./달러)	
2.83	0.27	0.11	4,963	2.37	6.73	0.64	0.26	Malaysia
1.36	0.05	0.03	5,082	2.28	3.11	0.11	0.07	Malta
1.07	0.11	0.05	2,213	2.92	3.13	0.32	0.16	Mauritius
1.39	0.15	0.08	2,630	2.10	2.93	0.31	0.16	Mexico
1.60	0.44	0.13	2,384	2.11	3.38	0.93	0.27	Republic of Moldova
1.94	0.47	0.17	2,453	3.47	6.74	1.64	0.60	Mongolia
1.75	0.24	0.09	5,011	2.37	4.13	0.56	0.22	Montenegro
0.61	0.18	0.08	947	2.96	1.82	0.54	0.22	Morocco
0.35	0.61	0.28	404	0.62	0.22	0.38	0.17	Mozambique
0.40	0.34	0.09	275	1.28	0.51	0.43	0.12	Myanmar
0.76	0.18	0.08	1,403	1.85	1.41	0.34	0.15	Namibia
0.52	0.51	0.15	300	0.84	0.44	0.43	0.13	Nepal
4.06	0.08	0.08	6,707	1.89	7.67	0.16	0.14	Netherlands
3.86	0.09	0.10	8,137	1.57	6.05	0.15	0.15	New Zealand
0.58	0.28	0.11	600	1.19	0.69	0.34	0.13	Nicaragua
0.15	0.29	0.12	59	0.68	0.10	0.20	0.08	Niger
0.77	0.32	0.16	144	0.62	0.48	0.20	0.10	Nigeria
5.30	0.07	0.08	24,177	1.26	6.69	0.09	0.11	Norway
5.91	0.32	0.17	8,274	2.61	15.42	0.84	0.43	Oman
0.53	0.32	0.10	579	1.65	0.87	0.54	0.16	Pakistan
1.03	0.07	0.04	2,409	2.36	2.42	0.17	0.09	Panama
1.11	0.18	0.08	2,086	1.11	1.24	0.20	0.09	Paraguay
0.70	0.11	0.06	1,488	1.95	1.38	0.21	0.11	Peru
0.54	0.16	0.07	844	2.16	1.16	0.35	0.15	Philippines
2.83	0.18	0.08	4,488	2.77	7.84	0.50	0.23	Poland
1.96	0.09	0.06	4,935	1.74	3.40	0.16	0.11	Portugal
15.96	0.26	0.18	18,124	1.99	31.69	0.52	0.35	Qatar
1.79	0.15	0.06	2,901	2.04	3.65	0.31	0.13	Romania
5.81	0.55	0.21	7,252	2.01	11.69	1.12	0.43	Russia
6.46	0.33	0.14	10,341	2.14	13.83	0.70	0.30	Saudi Arabia
0.30	0.21	0.09	337	1.83	0.55	0.38	0.16	Senegal
TPES/Pop.	TPES/GDP	TPES/ GDP(PPP)	Elec. Consumption/ Pop.	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP(PPP)	
(toe/Capita)	(toe/Thou. USD)	(toe/Thou. USD)	(kWh/Capita)	(Tons CO ₂ eq./toe)	(Tons CO ₂ eq./Capita)	(kg CO ₂ eq./USD)	(kg CO ₂ eq./USD)	

1. Gross production+imports-exports-losses.

2. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO₂ emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

03 주요국의 에너지통계

3-1. 주요에너지·경제 통계(2021년, 계속)

	인구	GDP	GDP(PPP)	에너지생산	에너지순수입	일차에너지	전력소비 ¹	CO ₂ 배출량 ²
	(백만명)	(2015년 십억달러)	(2015년 십억달러)	(백만toe)	(백만toe)	(백만toe)	(TWh)	(백만톤 CO ₂ eq.)
세르비아	6.8	48.6	129.9	10.2	5.6	16.1	34.4	44.2
싱가포르	5.5	366.3	572.3	0.6	83.4	35.2	55.7	45.5
슬로바키아	5.5	99.0	181.8	7.2	9.4	18.0	29.4	30.6
슬로베니아	2.1	52.2	79.0	3.4	3.2	6.6	14.8	12.3
남아프리카	59.4	353.0	773.3	140.4	-16.8	124.2	216.0	391.7
남수단	10.7	12.1	13.3	8.0	-7.1	0.8	0.6	1.8
스페인	47.3	1,238.6	1,679.0	35.2	86.7	115.5	248.4	211.5
스리랑카	22.2	97.0	291.5	4.8	7.0	11.7	14.8	21.1
수단	45.7	81.8	166.1	16.4	4.2	20.4	14.6	19.5
수리남	0.6	4.3	8.1	0.9	0.1	1.0	1.8	2.6
스웨덴	10.4	567.2	540.1	36.2	10.7	47.7	135.6	34.4
스위스	8.7	759.7	592.0	11.4	11.9	22.8	63.7	34.8
시리아	21.3	18.1	15.5	4.7	4.1	8.6	13.0	22.0
대만	23.9	658.2	1,357.1	10.9	116.0	122.6	282.1	278.8
타지키스탄	9.8	11.9	38.2	2.6	1.1	3.7	14.2	7.4
탄자니아	63.6	68.1	168.6	22.3	3.6	25.7	7.6	16.5
태국	71.6	438.6	1,188.3	61.3	72.2	129.8	194.2	234.7
토고	8.6	7.4	18.0	3.1	0.8	3.8	1.5	1.8
트리니다드토바고	1.5	21.6	32.5	25.7	-10.2	15.3	8.8	13.1
튀니지	12.3	47.0	124.2	5.7	6.2	11.6	18.6	26.9
터키	84.1	1,129.8	2,647.5	46.9	115.0	159.4	301.9	400.8
투르크메니스탄	6.3	45.2	96.2	78.3	-54.2	24.1	16.4	59.2
우크라이나	43.8	101.4	485.0	54.7	31.0	88.2	140.2	159.6
아랍에미레이트	9.4	398.4	668.6	227.7	-120.5	85.8	142.0	180.7
영국	67.5	3,038.8	2,874.1	100.2	61.4	158.7	306.6	320.8
미국	330.6	20,529.7	20,529.7	2,214.3	-89.7	2,139.0	4,169.9	4,549.3
우루과이	3.4	59.1	76.5	3.2	2.3	5.6	12.0	7.5
우즈베키스탄	34.9	117.2	284.2	48.9	-0.5	49.1	64.3	116.1
베네수엘라	28.2	205.3	206.9	58.7	-27.9	30.6	56.7	45.1
베트남	97.5	332.3	972.5	62.2	32.3	95.2	237.8	284.8
예멘	33.0	33.8	54.6	3.7	-0.8	2.8	2.3	8.4
잠비아	19.5	24.5	62.8	10.5	1.3	11.8	13.2	6.1
짐바브웨	16.0	20.7	38.4	10.7	0.6	11.6	8.4	9.0
	Population	GDP	GDP(PPP)	Energy Productions	Net Imports	TPES	Elec. Consumption ¹	CO ₂ Emissions ²
	(Million)	(Bil. 2015 USD)	(Bil. 2015 USD)	(Mil. toe)	(Mil. toe)	(Mil. toe)	(TWh)	(Mil. Tons CO ₂ eq.)

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스 와 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.

4. 세계 CO₂ 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.

자료: OECD iLibrary

3-1. Major Energy and Economic Statistics(2021, Continued)

일차에너지/ 인구 (toe/인)	일차에너지/ GDP (toe/천달러)	일차에너지/ GDP(PPP) (toe/천달러)	전력소비/ 인구 (kWh/인)	CO ₂ / 일차에너지 (톤 CO ₂ eq./toe)	CO ₂ /인구 (톤 CO ₂ eq./인)	CO ₂ /GDP (kg CO ₂ eq./달러)	CO ₂ / GDP(PPP) (kg CO ₂ eq./달러)	
2.36	0.33	0.12	5,034	2.75	6.47	0.91	0.34	Serbia
6.46	0.10	0.06	10,220	1.29	8.35	0.12	0.08	Singapore
3.30	0.18	0.10	5,401	1.70	5.62	0.31	0.17	Slovak Republic
3.14	0.13	0.08	7,006	1.85	5.82	0.24	0.16	Slovenia
2.09	0.35	0.16	3,637	3.15	6.60	1.11	0.51	South Africa
0.07	0.07	0.06	52	2.28	0.17	0.15	0.14	South Sudan
2.44	0.09	0.07	5,249	1.83	4.47	0.17	0.13	Spain
0.53	0.12	0.04	669	1.80	0.95	0.22	0.07	Sri Lanka
0.45	0.25	0.12	320	0.96	0.43	0.24	0.12	Sudan
1.67	0.24	0.13	2,979	2.52	4.21	0.60	0.32	Suriname
4.58	0.08	0.09	13,015	0.72	3.30	0.06	0.06	Sweden
2.62	0.03	0.04	7,313	1.53	4.00	0.05	0.06	Switzerland
0.40	0.48	0.56	611	2.55	1.03	1.21	1.42	Syrian Arab Republic
5.14	0.19	0.09	11,826	2.27	11.69	0.42	0.21	Chinese Taipei
0.38	0.31	0.10	1,459	2.02	0.76	0.62	0.19	Tajikistan
0.41	0.38	0.15	120	0.64	0.26	0.24	0.10	United Rep. of Tanzania
1.81	0.30	0.11	2,713	1.81	3.28	0.54	0.20	Thailand
0.44	0.51	0.21	177	0.48	0.21	0.24	0.10	Togo
10.05	0.71	0.47	5,793	0.85	8.56	0.60	0.40	Trinidad and Tobago
0.95	0.25	0.09	1,514	2.32	2.19	0.57	0.22	Tunisia
1.90	0.14	0.06	3,587	2.51	4.76	0.35	0.15	Turkey
3.79	0.53	0.25	2,592	2.46	9.34	1.31	0.62	Turkmenistan
2.01	0.87	0.18	3,202	1.81	3.64	1.57	0.33	Ukraine
9.16	0.22	0.13	15,161	2.11	19.29	0.45	0.27	U.A.E
2.35	0.05	0.06	4,539	2.02	4.75	0.11	0.11	United Kingdom
6.47	0.10	0.10	12,613	2.13	13.76	0.22	0.22	United States
1.63	0.09	0.07	3,494	1.35	2.20	0.13	0.10	Uruguay
1.41	0.42	0.17	1,841	2.36	3.32	0.99	0.41	Uzbekistan
1.09	0.15	0.15	2,009	1.47	1.60	0.22	0.22	Venezuela
0.98	0.29	0.10	2,440	2.99	2.92	0.86	0.29	Viet Nam
0.09	0.08	0.05	71	3.01	0.26	0.25	0.15	Yemen
0.60	0.48	0.19	679	0.52	0.31	0.25	0.10	Zambia
0.72	0.56	0.30	528	0.78	0.56	0.44	0.23	Zimbabwe
TPES/Pop.	TPES/GDP	TPES/ GDP(PPP)	Elec. Consumption/ Pop.	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP(PPP)	
(toe/Capita)	(toe/Thou. USD)	(toe/Thou. USD)	(kWh/Capita)	(Tons CO ₂ eq./toe)	(Tons CO ₂ eq./Capita)	(kg CO ₂ eq./USD)	(kg CO ₂ eq./USD)	

1. Gross production+imports-exports-losses.

2. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO₂ emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary



3-2. OECD 국가별 에너지 수입·수출(2022년)

단위: 백만toe

	수입				
	석탄	석유	천연가스	전력	합계
OECD계	319.8	634.9	701.0	46.6	3,010.6
호주	0.4	35.6	3.3	-	47.5
오스트리아	2.4	6.9	10.1	2.5	28.1
벨기에	2.8	25.6	21.0	1.4	82.2
캐나다	4.2	10.5	20.6	1.2	73.0
칠레	4.2	11.5	4.3	-	27.6
콜롬비아	0.0	5.8	0.0	0.0	6.2
코스타리카	0.0	2.8	-	0.0	2.8
체코	3.5	4.0	7.2	1.4	24.0
덴마크	1.1	5.8	2.3	1.6	17.4
에스토니아	0.0	1.8	0.3	0.6	2.9
핀란드	2.7	6.1	1.1	1.7	21.9
프랑스	6.1	41.4	49.5	4.5	145.8
독일	30.0	36.0	70.7	4.2	233.3
그리스	0.1	4.3	4.9	0.7	37.7
헝가리	0.6	3.6	7.8	1.9	20.3
아이슬랜드	0.1	1.0	-	-	1.1
아일랜드	0.9	5.6	3.3	0.1	13.2
이스라엘	3.8	1.4	0.0	-	21.0
이탈리아	7.8	13.6	59.5	4.1	152.0
일본	107.5	41.4	83.0	-	369.1
한국	73.5	42.2	54.4	-	310.2
라트비아	0.0	2.3	0.7	0.5	3.8
리투아니아	0.2	1.1	3.0	1.0	14.0
룩셈부르크	0.0	2.3	0.5	0.6	3.6
멕시코	7.0	49.2	38.8	0.4	96.1
네덜란드	5.7	85.8	28.0	1.6	186.5
뉴질랜드	0.3	6.1	-	-	7.3
노르웨이	0.8	8.2	0.1	1.1	11.5
폴란드	11.7	10.2	12.7	1.3	64.4
포르투갈	0.0	3.4	5.0	1.1	21.7
슬로바키아	2.3	1.6	5.2	1.4	16.2
슬로베니아	0.2	4.8	0.7	0.9	6.7
스페인	6.1	16.7	34.5	0.7	126.2
스웨덴	1.6	7.6	0.7	0.5	32.2
스위스	0.1	5.9	2.5	2.8	14.8
터키	23.6	20.1	45.0	0.6	123.9
영국	4.9	30.2	47.8	1.3	137.1
미국	3.4	72.6	72.5	4.9	506.9
	Coal	Oil	NaturalGas	Electricity	Total
	Import				

자료: OECD iLibrary



3-2. Energy Imports and Exports in OECD Countries(2022)

Unit: Million toe

수출					
석탄	석유	천연가스	전력	합계	
361.6	694.3	517.0	47.3	2,268.2	OECD Total
231.6	3.9	99.7	-	349.3	Australia
0.0	1.7	-	1.7	4.2	Austria
0.1	24.7	8.0	2.1	38.3	Belgium
22.1	20.3	72.7	5.6	332.9	Canada
-	1.2	-	-	1.2	Chile
40.8	5.3	-	0.0	71.0	Colombia
-	-	-	0.1	0.1	Costa Rica
1.6	1.8	-	2.6	6.5	Czech Republic
-	5.8	1.9	1.5	10.0	Denmark
0.0	0.3	-	0.5	2.5	Estonia
0.1	7.9	-	0.6	8.7	Finland
0.0	13.7	13.5	3.2	31.3	France
1.8	27.2	-	6.6	38.7	Germany
-	17.8	0.4	0.4	18.7	Greece
0.1	2.3	-	0.8	3.7	Hungary
-	-	-	-	-	Iceland
-	1.5	-	0.1	1.6	Ireland
-	6.8	7.9	0.6	15.2	Israel
0.2	25.4	3.8	0.4	33.1	Italy
0.6	16.9	-	-	17.5	Japan
-	65.6	-	-	65.9	South Korea
0.0	0.6	-	0.3	2.1	Latvia
-	6.6	1.6	0.2	8.7	Lithuania
0.0	0.0	-	0.1	0.2	Luxembourg
0.0	10.7	0.0	0.1	62.9	Mexico
0.1	105.8	12.8	2.0	122.5	Netherlands
0.9	0.1	-	-	1.6	New Zealand
0.1	14.1	103.0	2.2	198.8	Norway
8.0	5.7	0.5	1.5	16.3	Poland
-	4.4	-	0.3	5.1	Portugal
0.0	3.1	-	1.3	4.6	Slovak Republic
-	2.4	-	0.8	3.1	Slovenia
0.9	17.5	5.3	2.4	31.1	Spain
0.0	14.3	0.0	3.4	19.0	Sweden
0.0	0.6	-	2.6	3.1	Switzerland
0.5	9.0	0.5	0.3	10.8	Republic of Turkiye
0.4	21.4	20.1	1.8	76.1	United Kingdom
51.7	228.0	165.4	1.3	651.6	United States
Coal	Oil	NaturalGas	Electricity	Total	
Export					

Source: OECD iLibrary



3-3. 주요국 일차에너지 공급(2022년)

Primary Energy Supply in Selected countries(2022)

단위: 엑사줄

Unit: EJ(Exajoules)

	석유	천연가스	석탄	원자력	수력	신재생	합계	
전세계	190.7	141.9	161.5	24.1	40.7	45.2	604.0	Total World
Non-OECD	102.7	77.2	132.6	8.0	27.5	21.6	369.6	Non-OECD
OECD	88.0	64.7	28.9	16.1	13.2	23.5	234.4	OECD
중국	28.2	13.5	88.4	3.8	12.2	13.3	159.4	China
미국	36.2	31.7	9.9	7.3	2.4	8.4	95.9	US
유럽연합	22.1	12.4	7.0	5.5	2.6	8.6	58.2	European Union
인도	10.0	2.1	20.1	0.4	1.6	2.1	36.4	India
러시아연합	7.1	14.7	3.2	2.0	1.9	0.1	28.9	Russian Federation
일본	6.6	3.6	4.9	0.5	0.7	1.5	17.8	Japan
캐나다	4.3	4.4	0.4	0.8	3.7	0.6	14.1	Canada
독일	4.3	2.8	2.3	0.3	0.2	2.5	12.3	Germany
한국	5.5	2.2	2.9	1.6	0.0	0.5	12.7	South Korea
브라질	5.0	1.2	0.6	0.1	4.0	2.5	13.4	Brazil
이란	3.7	8.2	0.1	0.1	0.1	0.0	12.2	Iran
사우디아라비아	7.2	4.3	0.0	-	-	0.0	11.5	Saudi Arabia
프랑스	2.9	1.4	0.2	2.7	0.4	0.8	8.4	France
인도네시아	3.1	1.3	4.4	-	0.3	0.7	9.8	Indonesia
영국	2.7	2.6	0.2	0.4	0.0	1.4	7.3	United Kingdom
튀르키예	2.1	1.8	1.7	-	0.6	0.7	7.0	Republic of Türkiye
멕시코	4.1	3.5	0.3	0.1	0.3	0.4	8.7	Mexico
이탈리아	2.5	2.3	0.3	-	0.3	0.8	6.1	Italy
호주	2.1	1.5	1.6	-	0.2	0.7	6.0	Australia
스페인	2.7	1.2	0.2	0.5	0.2	1.0	5.8	Spain
태국	2.4	1.6	0.7	-	0.1	0.3	5.1	Thailand
남아프리카공화국	1.1	0.2	3.3	0.1	0.0	0.2	4.8	South Africa
대만	1.8	1.0	1.6	0.2	0.1	0.2	4.8	Taiwan
아랍에미리트	2.2	2.5	0.1	0.2	-	0.1	5.0	United Arab Emirates
폴란드	1.5	0.6	1.8	-	0.0	0.4	4.3	Poland
베트남	1.0	0.3	2.0	-	0.9	0.3	4.6	Vietnam
말레이시아	1.7	1.8	0.9	-	0.3	0.1	4.8	Malaysia
파키스탄	1.0	1.4	0.6	0.2	0.3	0.1	3.6	Pakistan
이집트	1.5	2.2	0.1	-	0.1	0.1	4.0	Egypt
네덜란드	1.8	1.0	0.2	0.0	0.0	0.5	3.5	Netherlands
싱가포르	2.7	0.5	0.0	-	-	0.0	3.2	Singapore
아르헨티나	1.4	1.6	0.1	0.1	0.2	0.2	3.6	Argentina
우크라이나	0.4	0.7	0.5	0.6	0.1	0.1	2.3	Ukraine
카자흐스탄	0.8	0.8	1.4	-	0.1	0.0	3.1	Kazakhstan
	Oil	Natural Gas	Coal	Nuclear	Hydro	Renewables	Total	

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

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

자료: BP Statistical Review of World Energy 2023

Source: BP Statistical Review of World Energy 2023



3-4. 주요국 전력 소비

Electricity Consumption in Selected Countries

단위: TWh

Unit: TWh

	1990	1995	2000	2005	2010	2019	2020	2021	
전세계	10,895	12,187	14,150	16,767	19,865	25,067	24,931	26,467	World
중국	603	958	1,293	2,367	3,983	7,202	7,471	8,307	China(P.R. of China and Hong Kong, China)
미국	2,924	3,371	3,857	4,050	4,143	4,187	4,109	4,170	United States
인도	234	340	407	530	783	1,375	1,264	1,345	India
일본	830	945	1,021	1,061	1,124	995	971	1,001	Japan
러시아	990	757	762	828	916	1,004	983	1,040	Russian Federation
독일	527	517	546	589	594	547	529	543	Germany
캐나다	448	484	517	575	552	572	561	564	Canada
한국	102	175	278	374	481	562	560	592	Korea
브라질	218	265	332	375	465	552	548	571	Brazil
프랑스	348	394	440	484	503	475	451	471	France
영국	307	324	360	379	359	319	302	307	United Kingdom
사우디아라비아	65	92	117	158	219	357	358	372	Saudi Arabia
이탈리아	235	261	302	332	326	314	295	313	Italy
멕시코	99	130	178	212	230	306	285	337	Mexico
스페인	137	156	210	267	266	255	241	248	Spain
대만	84	124	177	219	237	265	270	282	Chinese Taipei
호주	146	163	195	213	238	253	254	253	Australia
이란	53	73	102	145	196	272	294	301	Islamic Republic of Iran
튀르키예	50	72	105	137	180	272	277	302	Republic of Türkiye
남아프리카공화국	156	172	206	222	233	225	211	216	South Africa
인도네시아	29	52	83	113	154	271	268	285	Indonesia
태국	40	74	91	125	155	200	193	194	Thailand
이집트	38	46	67	95	144	162	154	172	Egypt
폴란드	125	118	125	131	144	166	161	171	Poland

자료: IEA, World Energy Balance 2023

Source: IEA, World Energy Balance 2023

3-5. OECD 국가별 최종에너지 소비(2021년)

단위: 백만 toe

	산업부문						국내항공		육상
	농림어업	제조업	건설업	광업	기타	소계			
OECD계	77.77	687.44	43.26	29.17	74.79	912.43	61.29	1,056.26	
호주	2.67	16.51	0.87	5.24	0.22	25.50	1.63	25.23	
오스트리아	0.55	6.92	0.29	0.19	0.20	8.15	0.02	7.56	
벨기에	0.89	10.28	0.22	0.05	0.28	11.73	0.00	8.11	
캐나다	6.86	34.59	2.22	3.92	5.06	52.66	1.78	46.83	
칠레	0.58	2.32	0.23	5.08	2.28	10.51	0.37	8.55	
콜롬비아	0.48	6.52	0.10	1.18	0.15	8.43	0.01	12.30	
코스타리카	0.08	0.67	0.04	0.00	0.14	0.94	0.01	1.89	
체코	0.64	6.37	0.17	0.10	0.36	7.64	0.05	6.45	
덴마크	0.68	1.98	0.21	0.09	0.11	3.07	0.02	3.74	
에스토니아	0.09	0.33	0.03	0.01	0.02	0.47	0.00	0.82	
핀란드	0.77	10.05	0.42	0.17	0.21	11.62	0.03	3.78	
프랑스	4.57	25.74	1.57	0.40	1.26	33.53	1.23	40.14	
독일	3.61	50.51	2.45	0.35	2.89	59.81	0.25	50.15	
그리스	0.31	2.21	0.12	0.10	0.14	2.88	0.15	4.78	
헝가리	0.67	4.07	0.33	0.04	0.33	5.43	0.00	4.71	
아이슬랜드	0.31	1.30	0.01	0.00	0.02	1.64	0.01	0.31	
아일랜드	0.25	1.95	0.04	0.07	0.13	2.44	0.00	3.48	
이스라엘	0.32	0.52	-	0.20	1.86	2.90	0.01	5.73	
이탈리아	3.01	25.81	0.90	0.10	2.16	31.98	0.61	32.64	
일본	4.79	74.82	2.06	0.29	2.75	84.71	2.29	56.22	
한국	2.82	43.22	0.68	0.23	3.23	50.18	1.62	33.31	
라트비아	0.20	0.84	0.03	0.01	0.02	1.09	0.00	1.05	
리투아니아	0.12	0.97	0.04	0.01	0.09	1.23	0.00	2.05	
룩셈부르크	0.03	0.56	0.02	0.00	0.03	0.64	0.00	1.77	
멕시코	3.08	13.94	0.29	1.56	14.77	33.63	0.01	35.17	
네덜란드	4.10	12.33	0.66	0.12	0.36	17.58	0.01	8.78	
뉴질랜드	0.75	2.54	0.21	0.10	0.83	4.43	0.28	4.17	
노르웨이	0.63	6.12	0.40	0.11	0.07	7.32	0.27	3.31	
폴란드	3.72	14.72	0.18	0.48	0.88	19.98	0.03	22.82	
포르투갈	0.53	4.23	0.16	0.08	0.06	5.05	0.12	5.17	
슬로바키아	0.13	3.20	0.03	0.05	0.16	3.57	-	2.46	
슬로베니아	0.07	1.15	0.04	0.02	0.08	1.37	0.00	1.77	
스페인	3.08	17.72	1.26	0.47	0.57	23.11	1.62	27.08	
스웨덴	0.60	9.77	0.35	0.57	0.55	11.83	0.07	6.46	
스위스	0.11	2.84	0.18	-	0.47	3.60	0.04	4.95	
터키	5.07	31.64	0.68	0.52	3.89	41.81	0.92	28.18	
영국	1.36	15.47	0.73	0.02	5.30	22.87	0.35	34.38	
미국	19.23	222.71	25.03	7.25	22.89	297.11	47.47	509.97	
	Agriculture, ForestryandFisheries	Manufacturing	Construction	Miningand Quarrying	Other	Subtotal	Domestic Aircraft	Land	
	Industry								

자료 : IEA, World Energy Balance 2023



3-5. Final Energy Consumption in OECD Countries(2021)

Unit: Million toe

수송부문				가정부문	상업·공공부문	기타	합계	
철도	국내수상	기타	소계					
24.59	20.49	34.44	1,197.06	716.68	477.00	400.17	3,703.34	OECD Total
1.45	0.69	0.85	29.86	11.14	7.14	5.34	78.98	Australia
0.19	0.03	0.28	8.07	7.38	2.47	2.03	28.10	Austria
0.16	0.13	0.03	8.43	8.40	4.50	7.46	40.52	Belgium
2.05	1.30	4.41	56.38	31.86	27.13	23.09	191.13	Canada
0.08	0.32	0.00	9.32	4.82	1.87	0.98	27.51	Chile
0.01	0.02	0.09	12.44	6.08	1.82	2.74	31.50	Colombia
0.00	0.00	0.00	1.90	0.52	0.38	0.07	3.81	Costa Rica
0.21	0.00	0.03	6.73	7.65	2.94	2.86	27.82	Czech Republic
0.10	0.14	0.00	4.00	4.25	2.01	0.25	13.58	Denmark
0.02	0.01	-	0.84	0.97	0.51	0.16	2.95	Estonia
0.08	0.12	0.01	4.01	5.33	3.01	1.52	25.49	Finland
0.79	0.49	0.08	42.73	39.01	21.46	14.21	150.94	France
1.40	0.36	0.50	52.67	57.37	28.63	25.99	224.47	Germany
0.02	0.57	0.00	5.53	4.18	1.70	0.92	15.21	Greece
0.13	0.00	0.03	4.88	6.40	2.07	2.54	21.32	Hungary
-	0.01	0.00	0.32	0.50	0.50	0.15	3.12	Iceland
0.04	0.12	0.02	3.65	2.99	1.77	0.39	11.25	Ireland
0.06	-	-	5.80	2.41	1.60	2.48	15.19	Israel
0.48	0.54	0.73	35.01	30.57	14.24	5.99	117.79	Italy
1.65	3.12	-	63.28	41.13	47.35	30.76	267.24	Japan
0.33	0.41	-	35.66	21.25	20.50	54.10	181.70	South Korea
0.03	0.00	0.00	1.08	1.20	0.60	0.12	4.09	Latvia
0.05	0.00	0.03	2.13	1.57	0.64	1.02	6.60	Lithuania
0.02	0.00	-	1.78	0.47	0.56	0.03	3.48	Luxembourg
0.49	0.37	-	36.05	19.33	3.72	5.84	98.58	Mexico
0.16	0.23	-	9.19	9.92	6.38	12.91	55.98	Netherlands
0.01	0.43	-	4.89	1.61	1.28	1.17	13.38	New Zealand
0.07	1.31	-	4.95	4.12	2.91	2.40	21.70	Norway
0.37	0.00	0.29	23.51	21.80	8.46	5.34	79.08	Poland
0.05	0.07	0.00	5.42	2.75	1.70	1.28	16.21	Portugal
0.04	-	0.11	2.60	2.92	1.39	1.27	11.76	Slovak Republic
0.03	-	0.00	1.80	1.10	0.42	0.18	4.87	Slovenia
0.32	0.90	0.15	30.07	14.51	9.45	5.54	82.68	Spain
0.23	0.10	-	6.86	7.88	4.26	2.14	32.97	Sweden
0.26	0.04	0.02	5.31	5.41	3.18	0.63	18.12	Switzerland
0.22	0.36	0.22	29.89	23.77	14.05	5.62	115.12	Republic of Türkiye
0.93	0.55	-	36.21	37.86	15.99	6.45	119.38	United Kingdom
12.08	7.72	26.57	603.81	266.25	208.39	164.18	1,539.73	United States
Rail	Domestic Shipping	Other	Subtotal	Residential	Commercial and Public	Other	Total	
Transportation								

Source : IEA, World Energy Balance 2023

3-6. OECD 국가별 경제활동별 부가가치(2021년)

단위: 백만달러

	산업부문					유통, 보수, 운수, 숙박, 음식점	정보·통신업
	농림어업	제조업	건설업	기타	소계		
호주	36,630	77,743	98,303	189,452	402,128	209,785	45,972
오스트리아	4,547	75,585	21,223	87,533	188,888	69,480	15,433
벨기에	2,898	60,127	23,345	70,813	157,183	80,116	22,703
캐나다	29,802	154,292	123,691	271,341	579,127	268,859	85,335
칠레	10,085	27,866	16,064	54,457	108,472	48,253	10,987
콜롬비아	20,955	39,088	14,980	62,444	137,468	57,957	9,864
코스타리카	3,052	8,914	2,659	11,037	25,661	10,311	3,202
체코	4,336	50,756	8,024	58,445	121,562	34,875	13,750
덴마크	2,731	50,948	14,353	58,920	126,951	63,090	16,970
에스토니아	544	3,674	1,819	4,870	10,907	5,404	2,262
핀란드	5,958	38,064	13,595	45,846	103,463	33,192	15,166
프랑스	33,841	254,581	118,302	311,281	718,005	387,674	143,124
독일	24,883	739,289	134,927	835,001	1,734,100	491,027	181,946
그리스	7,251	20,712	3,464	29,959	61,386	40,032	6,012
헝가리	4,810	27,247	6,036	30,721	68,814	24,894	9,305
아이슬랜드	1,092	1,969	1,193	2,946	7,199	2,883	1,002
아일랜드	3,599	180,131	6,979	185,897	376,606	34,421	77,872
이스라엘	4,535	47,104	18,762	53,205	123,605	50,588	37,650
이탈리아	34,627	284,428	85,833	340,854	745,743	347,651	69,358
일본	39,595	973,118	233,996	1,109,183	2,355,892	806,925	238,985
한국	29,242	457,909	76,463	501,900	1,065,513	201,242	80,420
라트비아	1,082	3,716	1,394	4,655	10,848	7,154	1,603
리투아니아	1,450	9,404	3,296	10,652	24,801	14,887	2,069
룩셈부르크	128	3,312	3,008	4,197	10,645	8,913	3,407
멕시코	42,303	212,074	73,057	258,488	585,921	327,447	31,959
네덜란드	13,905	100,904	38,700	123,797	277,306	158,710	43,942
뉴질랜드	8,398	21,433	14,747	28,178	72,756	34,251	5,869
노르웨이	6,389	26,492	24,422	107,793	165,097	50,035	18,028
폴란드	10,973	95,009	37,024	126,253	269,260	135,982	31,530
포르투갈	4,336	26,910	8,698	34,517	74,460	41,645	8,396
슬로바키아	1,922	20,151	5,031	24,221	51,325	14,830	4,659
슬로베니아	920	11,739	2,692	13,132	28,483	9,383	2,082
스페인	35,185	139,297	59,896	182,436	416,814	246,448	51,048
스웨덴	7,043	80,116	30,521	95,821	213,501	89,209	49,917
스위스	4,073	161,544	37,418	174,018	377,053	127,232	35,577
터키	65,687	198,322	67,837	236,504	568,349	264,674	38,565
영국	15,361	296,916	155,715	382,619	850,612	426,922	258,340
미국	182,954	2,359,198	761,454	2,929,187	6,232,793	3,079,599	1,831,922
	Agriculture, Forestry and Fisheries	Manufacturing	Construction	Others	Subtotal	Distributive Trade, Repairs; Transport; Accommod., Food Serv.	Information and Communication
	Industry						

주 1) 4차 국제표준산업분류 기준

2) 2015년 불변가격 기준

자료: OECD iLibrary



3-6. Gross Value Added in OECD Countries(2021)

Unit: Million USD

금융·보험업	부동산업	교육, 과학, 기술, 행정 지원업	공공, 의무 사회 서비스, 교육, 보건업	기타 서비스업*	총부가가치	국내총생산	
114,590	172,118	159,699	270,758	34,052	1,325,884	1,422,870	Australia
17,792	34,614	36,736	62,636	8,333	357,724	402,871	Austria
28,144	42,471	74,901	94,967	8,342	448,194	501,247	Belgium
127,338	207,853	114,309	329,105	25,528	1,582,067	1,690,932	Canada
14,214	20,206	25,082	45,695	..	244,140	274,772	Chile
16,049	30,414	22,986	52,539	10,177	298,691	330,935	Colombia
4,147	5,121	8,510	11,408	1,984	61,396	66,427	Costa Rica
10,369	14,452	14,716	27,564	4,083	190,548	211,014	Czech Republic
17,936	29,925	29,568	58,821	7,674	299,293	346,752	Denmark
1,168	2,533	2,519	3,445	555	25,155	28,891	Estonia
7,306	29,422	20,292	45,050	6,683	222,536	256,633	Finland
116,188	294,755	326,977	509,658	56,364	2,295,539	2,575,192	France
134,028	340,828	373,551	580,772	108,437	3,203,135	3,569,114	Germany
8,641	29,734	9,568	34,488	5,780	174,833	200,402	Greece
5,514	10,125	14,852	17,784	3,663	127,039	150,669	Hungary
1,420	1,983	1,292	3,747	547	18,090	20,101	Iceland
18,313	17,870	41,909	37,168	4,105	423,256	455,950	Ireland
20,742	46,271	35,471	64,338	8,538	339,822	382,100	Israel
91,368	228,362	177,605	271,057	60,858	1,707,504	1,891,178	Italy
213,320	537,660	366,825	755,976	161,279	4,459,627	4,462,649	Japan
106,082	124,077	143,906	262,832	32,490	1,556,842	1,696,543	South Korea
967	3,142	2,067	4,348	627	27,054	31,059	Latvia
1,009	2,924	3,680	5,550	778	46,133	51,234	Lithuania
18,796	5,313	9,021	10,747	1,043	64,564	70,680	Luxembourg
48,774	135,457	68,802	125,571	19,554	1,134,880	1,206,921	Mexico
55,798	50,311	112,973	158,697	14,282	771,742	857,603	Netherlands
11,431	29,928	23,785	30,891	6,562	194,054	212,031	New Zealand
20,521	28,061	28,868	84,007	6,156	374,422	420,794	Norway
19,196	28,525	50,879	78,190	9,442	527,466	598,791	Poland
9,935	22,381	15,728	36,572	4,693	186,926	215,604	Portugal
2,779	9,666	9,163	14,485	2,571	89,358	100,776	Slovak Republic
2,011	3,124	4,225	7,012	958	45,536	52,253	Slovenia
45,590	142,028	111,143	214,194	46,949	1,134,101	1,251,379	Spain
26,394	42,519	57,926	96,667	12,545	506,789	570,953	Sweden
82,619	49,461	80,645	141,338	17,805	748,691	770,529	Switzerland
35,445	78,518	56,451	129,778	27,479	1,006,381	1,131,036	Turkey
242,074	375,673	345,854	486,049	81,498	2,756,368	3,075,810	United Kingdom
1,526,308	2,322,213	2,597,876	4,176,403	436,588	19,782,454	20,529,460	United States
Financial and Insurance Activities	Real Estate Activities	Prof., Scientific, Techn.: Admin., Support Serv. Activities	Public Admin.: Compulsory Social Serv.: Education: Human Healths	Other Service Activities	Gross Value Added	GDP(PPP)	

Note 1) Based on ISIC(International Standard Industrial Classification of All Economic Activities) rev.4

2) Based on 2015 constant prices

Source: OECD iLibrary

3-7. 에너지원별 국제 가격

	석탄(달러/톤)			원유(달러/배럴)		
	북서유럽 시장가격	일본 원료탄 수입가격 (CIF ¹)	일본 연료탄 수입가격 (CIF ¹)	두바이	브렌트	WTI
1990	43.48	60.54	50.81	20.21	23.73	24.46
1991	42.80	60.45	50.30	16.70	20.00	21.53
1992	38.53	57.82	48.45	17.18	19.32	20.57
1993	33.68	55.26	45.71	14.99	16.97	18.45
1994	37.18	51.77	43.66	14.69	15.82	17.21
1995	44.50	54.47	47.58	16.08	17.02	18.42
1996	41.25	56.68	49.54	19.26	20.67	22.16
1997	38.92	55.51	45.53	18.31	19.09	20.61
1998	32.00	50.76	40.51	12.30	12.72	14.39
1999	28.79	42.83	35.74	16.90	17.97	19.31
2000	35.99	39.69	34.58	26.27	28.50	30.37
2001	39.03	41.33	37.96	22.78	24.44	25.93
2002	31.65	42.01	36.90	23.60	25.02	26.16
2003	43.60	41.57	34.74	26.75	28.83	31.06
2004	72.13	60.96	51.34	33.51	38.27	41.49
2005	60.54	89.33	62.91	46.78	54.52	56.59
2006	64.11	93.46	63.04	61.48	65.14	66.04
2007	88.79	88.24	69.86	67.92	72.39	72.20
2008	147.67	179.03	122.81	94.28	97.26	100.06
2009	70.39	167.82	110.11	61.14	61.67	61.92
2010	92.50	158.95	105.19	77.78	79.50	79.45
2011	121.48	229.12	136.21	105.93	111.26	95.04
2012	92.50	191.46	133.61	109.06	111.67	94.13
2013	81.69	140.45	111.16	105.47	108.66	97.99
2014	75.38	114.41	97.65	97.02	98.95	93.28
2015	56.79	93.85	79.47	51.22	52.39	48.71
2016	60.09	89.40	72.97	41.02	43.73	43.34
2017	84.51	150.00	99.16	53.02	54.19	50.79
2018	91.83	158.49	117.39	70.15	71.31	65.20
2019	60.86	148.52	108.58	63.71	64.21	57.03
2020	50.16	108.41	80.50	42.41	41.84	39.25
2021	121.70	134.86	130.37	68.91	70.91	68.10
2022	293.63	n/a	n/a	96.38	101.32	94.58
	Northwest Europe Marker Price	Japan Coking Coal Import CIF Price	Japan Steam Coal Import CIF Price	Dubai	Brent	West Texas Intermediate
	Coal(USD/Ton)			Oil(USD/bbl)		

1. 도착항 인도가격=원가(제품의 선적에서 목적지까지의 원가)+보험료+운임료(평균가격)

2. RON은 옥탄가를 나타냄.

자료: BP Statistical Review of World Energy 2023, 한국석유공사



3-7. International Prices by Energy Source

천연가스(달러/백만Btu)		LNG(달러/백만Btu)		석유제품(달러/배럴)					
영국 (Heren NBP Index)	미국 Henry Hub	일본 수입가격 (CIF) ¹	JKM 지표 (Japan Korea Marker)	휘발유 (95RON) ²	등유	경유 (0.5%)	경유 (0.001%)	나프타	
-	1.64	3.64	-	-	-	-	-	-	1990
-	1.49	3.99	-	-	-	-	-	-	1991
-	1.77	3.62	-	-	-	-	-	-	1992
-	2.12	3.52	-	-	-	-	-	-	1993
-	1.92	3.18	-	-	-	-	-	-	1994
-	1.69	3.46	-	21.62	23.64	21.54	-	16.36	1995
1.87	2.76	3.66	-	23.63	28.45	27.17	-	20.31	1996
1.96	2.53	3.91	-	24.49	24.94	24.34	-	21.93	1997
1.86	2.08	3.05	-	17.24	16.44	15.58	-	14.85	1998
1.58	2.27	3.14	-	21.20	21.60	19.34	-	19.61	1999
2.71	4.23	4.72	-	32.77	34.51	32.76	-	28.48	2000
3.17	4.07	4.64	-	27.48	28.36	27.37	-	23.82	2001
2.37	3.33	4.27	-	28.13	28.15	27.61	-	24.99	2002
3.33	5.63	4.77	-	34.72	32.98	32.38	-	29.96	2003
4.46	5.85	5.18	-	47.31	47.55	45.76	-	40.74	2004
7.38	8.79	6.05	-	61.42	68.06	64.46	-	51.23	2005
7.87	6.76	7.13	-	72.46	80.68	76.84	-	62.13	2006
6.01	6.95	7.73	-	81.79	86.89	85.05	-	75.24	2007
10.79	8.85	12.55	-	102.04	122.25	120.40	-	89.67	2008
4.85	3.89	9.06	5.28	68.24	70.25	69.32	-	61.05	2009
6.56	4.39	10.93	7.72	86.30	90.27	89.62	-	79.33	2010
9.04	4.01	14.77	14.02	117.43	125.71	124.62	-	102.49	2011
9.46	2.76	16.75	15.12	120.26	126.80	126.39	126.50	103.57	2012
10.64	3.71	16.17	16.56	116.03	122.85	-	124.88	100.98	2013
8.25	4.35	16.33	13.86	108.02	112.34	-	113.82	94.16	2014
6.53	2.60	10.27	7.45	66.31	64.62	-	66.52	52.51	2015
4.69	2.46	6.93	5.72	53.45	53.01	-	53.22	42.63	2016
5.80	2.96	8.10	7.13	65.45	65.34	-	66.43	53.83	2017
8.06	3.12	10.07	9.76	77.94	85.03	-	85.22	67.28	2018
4.47	2.51	9.94	5.49	69.53	77.26	-	78.20	56.95	2019
3.42	1.99	7.78	4.39	45.10	44.83	-	49.45	40.56	2020
15.80	3.84	10.07	18.60	78.51	75.28	-	77.81	70.80	2021
25.10	6.45	n/a	33.98	111.01	126.92	-	135.57	82.97	2022
UK (Heren NBP Index)	US Henry Hub	Japan Import CIF Price	JKM (Japan Korea Marker)	Gasoline (95RON)	Kero sene	Diesel (0.5%)	Diesel (0.001%)	Naptha	
Natural Gas(USD/Mil. Btu)		LNG(USD/Mil. Btu)		Petroleum Products(USD/bbl)					

1. CIF=cost+insurance+freight(average prices)

2. RON : Research Octane Number

Source : BP Statistical Review of World Energy 2023, Korea National Oil Corporation

03 주요국의 에너지통계

3-8. 주요국 CO₂ 배출량

CO₂ Emissions in Selected Countries

단위: 백만톤 CO₂eq.

Unit: Million Tons CO₂eq

	1990	2000	2010	2015	2018	2019	2020	2021	
중국	2,123	3,138	7,872	9,178	9,832	9,992	10,088	10,683	China (P.R. of China and Hong Kong, China)
미국	4,803	5,730	5,352	4,929	4,910	4,745	4,258	4,549	United States
인도	530	890	1,572	2,036	2,316	2,278	2,075	2,279	India
러시아	2,164	1,474	1,529	1,533	1,602	1,640	1,560	1,678	Russian Federation
일본	1,052	1,149	1,133	1,152	1,086	1,048	991	998	Japan
독일	940	812	759	730	695	645	593	624	Germany
한국	232	422	551	582	605	587	547	559	Korea
이란	171	312	499	556	569	610	622	643	Islamic Republic of Iran
캐나다	409	504	521	541	559	552	498	506	Canada
사우디아라비아	151	235	418	531	498	498	483	497	Saudi Arabia
브라질	185	295	374	456	411	408	386	439	Brazil
멕시코	257	360	440	442	416	423	356	375	Mexico
인도네시아	131	255	392	459	533	571	533	557	Indonesia
남아프리카공화국	244	281	420	419	433	440	386	392	South Africa
영국	549	521	477	393	353	338	301	321	United Kingdom
호주	260	335	392	378	386	384	369	361	Australia
이탈리아	389	420	392	330	317	309	274	310	Italy
튀르키예	129	201	268	319	375	366	366	401	Republic of Türkiye
프랑스	345	365	340	304	300	293	261	292	France
폴란드	345	290	307	283	304	287	272	299	Poland
대만	118	223	264	273	280	271	270	279	Chinese Taipei
태국	82	153	222	248	241	252	242	235	Thailand
스페인	203	279	263	248	249	233	195	211	Spain
카자흐스탄	237	112	221	180	209	198	204	224	Kazakhstan
OECD	11,110	12,604	12,441	11,764	11,681	11,308	10,284	10,848	OECD
비OECD	8,798	9,804	17,046	19,415	20,733	21,041	20,524	21,739	Non-OECD
국제 병커링	632	859	1,129	1,199	1,326	1,319	932	985	Intl. Bunkering
전세계	20,540	23,266	30,616	32,378	33,740	33,668	31,740	33,572	World

자료: IEA, CO₂ emissions from fuel combustion 2023

Source: IEA, CO₂ emissions from fuel combustion 2023



3-9. 주요국 석유정제 능력

Refinery Capacities in Selected Countries

단위: 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2021	2022	22년 점유율 Share of total 2022	
전세계	73,387	76,800	88,040	98,167	101,367	101,902	100.0%	Total World
Non-OECD	31,902	34,555	42,292	53,397	57,713	58,486	57.4%	Non-OECD
OECD	41,485	42,245	45,748	44,771	43,654	43,416	42.6%	OECD
미국	15,459	15,333	17,339	18,317	17,941	18,061	17.7%	United States
중국	2,348	4,386	8,463	15,024	16,990	17,259	16.9%	China
유럽연합	14,241	13,476	14,387	12,871	12,313	12,210	12.0%	European Union
러시아	7,072	6,612	5,313	6,472	6,861	6,821	6.7%	Russia
인도	867	1,133	2,558	4,307	5,005	5,045	5.0%	India
한국	751	1,727	2,598	3,128	3,363	3,363	3.3%	South Korea
일본	4,724	5,006	4,531	3,721	3,285	3,164	3.1%	Japan
사우디아라비아	1,510	1,692	2,102	2,899	2,977	3,312	3.3%	Saudi Arabia
이란	1,085	1,405	1,692	2,075	2,610	2,670	2.6%	Iran
브라질	1,435	1,481	1,942	2,281	2,303	2,304	2.3%	Brazil
독일	2,198	2,104	2,322	2,049	2,121	2,121	2.1%	Germany
캐나다	1,880	1,792	1,896	1,931	1,954	1,954	1.9%	Canada
이탈리아	2,585	2,359	2,515	1,900	1,900	1,794	1.8%	Italy
스페인	1,312	1,308	1,377	1,562	1,591	1,591	1.6%	Spain
멕시코	1,263	1,444	1,463	1,522	1,558	1,558	1.5%	Mexico
싱가포르	1,043	1,175	1,420	1,514	1,461	1,302	1.3%	Singapore
아랍에미레이트	180	220	711	1,149	1,246	1,246	1.2%	U.A.E
베네수엘라	1,243	1,217	1,291	1,303	1,303	1,303	1.3%	Venezuela
영국	1,864	1,844	1,819	1,337	1,251	1,251	1.2%	United Kingdom
프랑스	2,184	1,728	1,978	1,375	1,140	1,140	1.1%	France
태국	166	477	1,078	1,252	1,245	1,244	1.2%	Thailand
네덜란드	1,478	1,257	1,274	1,298	1,238	1,241	1.2%	Netherlands
대만	570	732	1,159	988	1,131	1,083	1.1%	Taiwan
인도네시아	824	941	1,004	1,111	1,094	1,104	1.1%	Indonesia
말레이시아	209	365	522	612	955	955	0.9%	Malaysia

자료: BP, Statistical Review of World Energy 2023

Source: BP, Statistical Review of World Energy 2023

04

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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 (천가구)	국내총생산		당해년가격 (십억달러)
			당해년가격	2015년 연쇄가격	
			(십억원)		
1990	42,869	11,244	200,556	454,146	283
1991	43,296	11,549	242,481	503,094	330
1992	43,748	11,896	277,541	534,279	355
1993	44,195	12,233	315,181	571,024	392
1994	44,642	12,586	372,493	623,950	462
1995	45,093	13,018	436,989	683,940	565
1996	45,525	13,241	490,851	737,908	608
1997	45,954	13,550	542,002	783,441	567
1998	46,287	13,839	537,215	743,255	379
1999	46,617	14,146	591,453	828,483	492
2000	47,008	14,507	651,634	903,551	573
2001	47,370	14,775	707,021	947,395	544
2002	47,645	15,110	784,741	1,020,582	625
2003	47,892	15,434	837,365	1,052,703	700
2004	48,083	15,732	908,439	1,107,416	792
2005	48,185	16,039	957,448	1,155,130	928
2006	48,438	16,322	1,005,602	1,215,940	1,049
2007	48,684	16,602	1,089,660	1,286,459	1,170
2008	49,055	16,883	1,154,217	1,325,219	1,047
2009	49,308	17,168	1,205,348	1,335,724	943
2010	49,554	17,495	1,322,611	1,426,618	1,146
2011	49,937	17,879	1,388,937	1,479,198	1,261
2012	50,200	18,119	1,440,111	1,514,737	1,291
2013	50,429	18,388	1,500,819	1,562,674	1,379
2014	50,747	18,705	1,562,929	1,612,718	1,491
2015	51,015	19,013	1,658,020	1,658,020	1,470
2016	51,218	19,281	1,740,780	1,706,880	1,506
2017	51,362	19,571	1,835,698	1,760,812	1,630
2018	51,585	19,876	1,898,193	1,812,005	1,732
2019	51,765	20,220	1,924,498	1,852,666	1,665
2020	51,836	20,731	1,940,726	1,839,523	1,659
2021	51,770	21,278	2,080,199	1,918,710	1,838
2022	51,673	21,579	2,161,774	1,968,840	1,698
	Population (Thou. Persons)	Household (Thou. Households)	At Current Prices	At Chained 2015 Prices	At Current Prices (Bil. USD)
			GDP(Bil. KRW)		

자료: 통계청



4-1. Indicators and Statistics

국민총소득		1인당 명목 GNI		대미달러		
당해년가격	2015년 연쇄가격			연평균	기말	
(십억원)	(십억원)	(만원)	(달러)	(원)		
200,355	511,161	467	6,602	712	717	1990
242,235	566,971	559	7,627	734	760	1991
277,173	601,723	634	8,114	781	787	1992
314,760	645,137	712	8,872	803	807	1993
371,555	705,677	832	10,357	803	789	1994
435,385	767,530	966	12,522	771	776	1995
489,129	818,588	1,074	13,351	805	845	1996
539,091	851,730	1,173	12,334	954	1,695	1997
530,262	786,371	1,146	8,190	1,395	1,204	1998
584,929	870,616	1,255	10,549	1,189	1,138	1999
647,274	926,961	1,377	12,179	1,131	1,265	2000
702,236	963,701	1,482	11,484	1,291	1,314	2001
781,829	1,046,880	1,641	13,115	1,251	1,186	2002
834,443	1,074,837	1,742	14,618	1,192	1,193	2003
906,865	1,121,037	1,886	16,477	1,144	1,035	2004
950,685	1,148,216	1,973	19,262	1,024	1,012	2005
1,002,665	1,193,968	2,070	21,664	955	930	2006
1,086,897	1,261,872	2,233	24,027	929	936	2007
1,154,510	1,266,674	2,354	21,345	1,103	1,260	2008
1,203,480	1,298,061	2,441	19,122	1,276	1,165	2009
1,324,587	1,391,621	2,673	23,118	1,156	1,135	2010
1,397,535	1,414,273	2,799	25,256	1,108	1,152	2011
1,455,170	1,455,657	2,899	25,724	1,127	1,071	2012
1,510,385	1,511,626	2,995	27,351	1,095	1,055	2013
1,570,493	1,564,407	3,095	29,384	1,053	1,099	2014
1,663,207	1,663,207	3,260	28,814	1,132	1,173	2015
1,747,144	1,736,627	3,411	29,394	1,160	1,208	2016
1,843,181	1,793,818	3,589	31,734	1,130	1,071	2017
1,905,838	1,822,153	3,695	33,564	1,101	1,116	2018
1,941,108	1,828,547	3,750	32,204	1,166	1,156	2019
1,957,670	1,829,580	3,777	32,004	1,180	1,086	2020
2,103,612	1,893,466	4,065	35,523	1,145	1,189	2021
2,193,528	1,880,416	4,249	32,886	1,292	1,265	2022
At Current Prices (Bil. KRW)	At Chained 2015 Prices(Bil. KRW)	Per Capita GNI		Average	End of	
		(10,000KRW)	(USD)	Exchange Rates (KRW/USD)		
GNI						

Source : Statistics Korea

4-2. 수출입액 및 경상수지

단위: 백만달러

	총수출액 ¹	총수입액 ¹	경상수지	에너지수입액	석탄 ²		
						무연탄	유연탄
1990	71,870	69,844	-2,804	8,209	1,288	52	1,217
1991	76,632	81,525	-8,034	9,921	1,600	66	1,514
1992	82,236	81,775	-2,901	13,686	1,020	42	957
1993	96,013	83,800	1,688	14,969	1,732	40	1,669
1994	125,058	102,348	-4,794	15,228	1,777	33	1,718
1995	125,058	135,119	-10,230	18,670	2,108	35	2,019
1996	129,715	150,339	-24,461	24,003	2,337	46	2,260
1997	136,164	144,616	-10,812	26,981	2,399	38	2,329
1998	132,313	93,282	40,113	18,092	2,229	36	2,169
1999	143,685	119,752	21,785	22,543	1,966	46	1,895
2000	172,268	160,481	10,181	37,622	2,186	72	2,084
2001	150,439	141,098	2,165	33,652	2,347	118	2,200
2002	162,471	152,126	4,066	31,997	2,475	148	2,294
2003	193,817	178,827	11,308	37,982	2,552	177	2,314
2004	253,845	224,463	29,290	49,075	4,438	233	3,986
2005	284,419	261,238	12,209	66,238	5,443	429	4,918
2006	325,465	309,383	2,095	84,905	5,318	407	4,844
2007	371,489	356,846	10,473	94,306	6,445	447	5,830
2008	422,007	435,275	1,753	139,288	12,800	991	11,369
2009	363,534	323,085	33,088	90,259	9,995	672	9,215
2010	466,384	425,212	27,951	120,478	13,131	1,016	11,837
2011	555,214	524,413	16,638	170,497	18,477	1,774	16,488
2012	547,870	519,584	48,791	182,252	16,069	1,361	14,529
2013	559,632	515,586	77,259	176,561	13,074	1,143	11,798
2014	572,665	525,515	83,030	170,117	12,114	921	11,066
2015	526,757	436,499	105,119	100,440	9,961	813	9,047
2016	495,426	406,193	97,924	79,953	9,310	759	8,467
2017	573,694	478,478	75,231	107,921	15,179	933	14,128
2018	604,860	535,202	77,467	143,285	16,703	1,199	15,353
2019	542,233	503,343	59,676	124,777	14,209	927	13,164
2020	512,498	467,633	75,902	85,444	9,596	611	8,892
2021	644,400	615,093	85,228	135,935	14,699	889	13,645
2022	683,585	731,370	25,829	216,409	28,332	1,661	26,493
	Export ¹	Import ¹	Current Account Balance	Energy Import	Coal ²	Anthracite	Bituminous

1. 통관기준

2. 코크스탄, 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	0	460	0	0	1990
7,835	7,835	0	485	0	0	1991
12,104	9,522	2,582	562	0	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	17,006	564	30,194	2010
127,413	100,335	27,078	23,859	748	49,584	2011
138,183	107,070	31,113	27,364	635	54,039	2012
131,866	99,490	32,376	30,645	976	50,742	2013
125,912	94,512	31,401	31,403	688	49,091	2014
70,883	54,916	15,967	18,779	817	30,201	2015
57,937	44,540	13,397	12,170	536	24,806	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
89,295	70,430	18,865	20,567	707	38,267	2019
59,406	44,791	14,615	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
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(2015년 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	22,250	4,127	84,286	11,650	16,138	7,065	1,281	16,296
1991	22,960	4,195	96,142	12,825	15,700	7,695	4,328	16,719
1992	25,020	3,708	101,867	13,085	15,096	8,138	4,962	19,040
1993	23,965	3,678	109,195	13,582	13,657	8,204	6,170	20,291
1994	23,993	4,029	121,858	14,424	13,735	9,325	4,339	24,423
1995	25,630	3,957	137,668	14,692	13,101	9,721	4,547	27,891
1996	26,627	3,935	149,868	15,531	13,320	9,736	5,681	29,321
1997	27,774	3,880	159,258	15,714	13,675	10,199	10,482	30,660
1998	25,674	3,175	148,018	14,658	12,043	8,787	9,671	30,722
1999	26,990	3,384	178,584	15,006	14,792	10,354	8,698	36,050
2000	27,070	3,370	207,466	16,094	15,669	10,591	8,635	38,431
2001	27,180	3,407	213,365	16,120	15,761	10,149	9,174	41,036
2002	26,360	3,393	233,593	16,926	16,567	11,141	9,005	45,325
2003	24,738	3,470	245,340	16,680	14,906	11,101	9,702	45,378
2004	26,642	3,333	270,703	17,047	14,073	10,813	12,031	49,468
2005	26,794	3,256	285,096	16,921	14,288	10,863	12,132	50,295
2006	27,414	3,219	307,506	17,011	14,869	11,198	13,193	52,192
2007	28,783	3,031	332,669	17,235	15,254	11,307	12,688	55,386
2008	30,636	3,028	344,459	17,707	15,963	11,695	13,613	55,558
2009	32,056	2,952	336,416	17,260	15,132	12,132	12,224	57,284
2010	30,888	2,661	382,243	17,372	16,462	12,570	13,079	63,637
2011	30,571	2,346	402,282	17,213	16,722	12,628	14,429	64,951
2012	30,420	2,260	407,960	18,241	18,077	12,619	13,409	64,521
2013	31,697	2,356	420,493	19,421	18,522	12,594	13,389	66,962
2014	33,307	2,363	433,854	19,543	18,612	13,039	14,079	68,112
2015	33,225	2,145	441,134	20,344	17,292	13,171	14,312	70,966
2016	31,353	2,296	451,294	20,281	15,004	14,290	15,575	71,317
2017	32,060	2,205	468,070	21,067	15,288	13,677	15,544	73,717
2018	32,109	2,042	483,530	21,679	14,503	13,891	14,667	75,565
2019	33,373	1,916	488,935	22,502	13,294	13,733	13,798	74,871
2020	31,442	1,853	483,691	23,080	12,448	13,634	12,102	74,659
2021	33,071	1,940	517,873	23,555	12,548	13,678	12,082	78,301
2022	32,736	1,835	525,453	24,070	12,248	13,003	12,288	75,795
	Agriculture, Forestry&Fishing	Mining & Quarrying	Manu facturing	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 2015 Prices)

Unit: Billion KRW

비금속광물 제품제조업	1차금속 제조업	금속가공 제품제조업	컴퓨터, 전자 및 광학기기 제조업	전기장비 제조업	기계 및 장비제조업	운송장비 제조업	기타제조업 및 산업용 장비수리업	
5,692	12,716	7,086	4,016	3,172	5,473	10,002	4,846	1990
6,278	13,556	8,648	4,267	3,343	6,670	11,567	5,096	1991
6,840	14,702	7,431	4,586	3,603	6,746	13,350	4,858	1992
6,917	14,990	9,920	5,279	4,121	7,417	15,113	4,917	1993
7,233	15,713	11,466	6,446	4,982	9,396	18,066	4,956	1994
6,776	17,967	13,435	8,446	5,799	12,630	19,926	5,008	1995
7,599	18,372	15,634	9,121	6,977	14,595	23,056	5,193	1996
7,474	18,675	16,570	9,460	7,559	14,967	24,412	5,262	1997
5,824	16,932	14,585	12,229	7,121	9,672	18,047	4,479	1998
7,154	18,730	16,312	16,306	9,780	12,762	23,857	5,184	1999
8,078	20,223	19,219	21,901	12,668	16,075	27,829	5,876	2000
8,536	21,307	18,932	23,519	12,615	15,554	28,390	5,372	2001
8,734	23,264	20,347	27,175	14,321	17,730	30,181	5,557	2002
9,237	23,078	22,776	31,049	15,244	19,467	31,512	5,646	2003
9,387	25,480	25,717	37,707	16,309	21,450	34,549	5,445	2004
9,343	25,154	28,360	42,056	17,464	22,720	37,669	5,748	2005
9,636	24,005	29,528	49,041	18,538	25,041	43,407	6,193	2006
10,068	24,838	32,082	57,174	19,290	27,120	48,849	6,781	2007
10,462	22,857	29,039	62,421	19,617	28,915	53,967	7,036	2008
10,672	21,876	26,158	66,093	20,323	26,629	45,715	6,770	2009
11,477	25,222	28,560	79,034	24,460	32,897	51,102	7,296	2010
11,492	25,867	29,619	87,601	24,784	34,887	54,876	7,509	2011
11,165	24,861	31,938	89,962	25,607	36,067	54,442	7,744	2012
11,800	25,260	31,638	95,029	27,052	36,803	54,537	8,200	2013
11,787	26,578	33,623	100,226	27,885	37,439	54,223	8,886	2014
12,377	26,839	36,336	101,873	26,522	37,042	54,291	9,769	2015
12,909	27,152	36,303	112,337	25,621	35,412	55,167	9,928	2016
14,248	27,932	36,178	117,707	28,043	43,395	50,676	10,469	2017
14,190	26,880	35,698	131,090	29,794	43,706	49,528	10,970	2018
13,503	26,644	35,067	139,442	30,271	43,312	50,473	9,967	2019
12,933	25,755	32,852	146,665	30,037	43,725	45,384	9,654	2020
13,736	27,169	31,110	167,146	32,821	48,773	47,530	10,288	2021
13,234	25,706	30,292	177,751	32,707	49,797	52,768	10,181	2022
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 국내 총생산(2015년 기준 연쇄가격, 계속)

단위: 십억원

	전기, 가스, 수도사업	건설업	서비스업				
				도소매 및 숙박음식업	운수업	금융 및 보험업	부동산업
1990	9,300	57,923	242,657	61,148	16,934	16,433	34,226
1991	10,338	64,872	268,159	66,475	18,295	19,098	37,968
1992	11,728	63,879	289,481	69,793	19,477	21,577	41,631
1993	13,271	69,525	313,257	74,213	19,959	25,363	45,592
1994	15,089	72,628	342,838	79,895	21,499	28,271	49,996
1995	16,201	76,384	374,083	85,454	23,501	32,153	54,638
1996	17,966	81,607	403,358	90,756	25,309	33,980	59,722
1997	19,674	82,721	432,244	93,833	27,747	35,096	66,132
1998	19,858	73,498	421,758	85,450	26,110	33,460	70,967
1999	22,005	68,330	460,854	99,466	30,228	36,162	73,232
2000	24,473	64,922	495,989	107,128	33,787	35,656	78,273
2001	25,710	67,899	526,377	111,774	35,283	38,609	82,820
2002	27,936	70,743	570,718	118,617	36,567	47,821	83,671
2003	28,924	76,829	584,947	115,138	36,873	47,551	86,792
2004	30,886	78,338	603,821	115,004	38,919	47,418	89,451
2005	33,077	78,384	630,414	116,897	40,200	50,502	93,606
2006	33,982	78,981	661,440	120,869	41,923	52,811	98,056
2007	35,333	80,858	699,783	126,962	44,433	59,364	100,634
2008	36,616	78,208	726,755	129,015	46,547	63,003	105,026
2009	38,327	79,283	741,372	128,394	44,473	66,637	107,141
2010	39,918	76,144	779,212	137,208	50,295	68,643	109,866
2011	39,823	72,505	809,610	143,211	52,571	70,356	113,402
2012	40,543	72,170	836,807	148,401	55,626	73,997	113,859
2013	39,510	75,294	866,808	153,620	56,446	77,293	115,168
2014	40,511	76,415	894,041	155,151	57,135	82,077	120,196
2015	41,760	81,174	921,470	160,346	58,500	88,258	122,198
2016	41,263	89,140	948,419	164,705	58,714	89,948	126,461
2017	43,814	94,369	973,106	167,747	60,289	93,709	129,307
2018	43,083	91,741	1,010,423	172,543	62,522	99,000	133,423
2019	44,928	89,366	1,044,554	178,610	63,574	102,360	135,309
2020	46,762	88,193	1,036,169	168,669	52,547	112,145	138,375
2021	48,045	86,476	1,075,566	171,001	56,044	119,973	140,325
2022	48,938	87,103	1,120,754	182,997	61,130	123,605	140,310
	Electricity, Gas & Water Supply	Construction	Services	Wholesale and Retail Trade, Accommodation and Food Services	Transportation and Storage	Finance and Insurance	Real Estate

자료: 한국은행



4-3. Gross Domestic Product by Economic Activity(At Chained 2015 Prices, Continued)

Unit: Billion KRW

정보 통신업	사업 서비스업	공공행정, 국방 및 사회보장	교육 서비스업	의료, 보건업 및 사회복지 서비스업	문화 및 기타 서비스업	총부가가치 (기초가격)	국내총생산 (시장가격)	
5,171	26,271	33,863	36,671	15,823	12,485	410,297	454,146	1990
6,130	30,426	36,334	38,535	17,505	13,895	455,316	503,094	1991
6,999	33,612	38,871	40,380	18,882	15,106	484,856	534,279	1992
7,961	36,518	41,489	42,076	20,270	16,461	519,602	571,024	1993
9,650	41,246	43,689	44,006	22,365	18,719	566,543	623,950	1994
11,327	46,651	45,500	45,849	24,167	20,835	620,865	683,940	1995
13,714	50,841	48,521	47,625	25,200	22,885	669,503	737,908	1996
15,858	56,194	51,409	49,200	27,151	24,768	711,354	783,441	1997
16,662	51,255	53,372	48,949	26,120	23,139	677,790	743,255	1998
20,894	52,225	56,319	50,476	27,559	25,824	752,357	828,483	1999
27,308	57,563	57,424	52,166	27,477	28,077	819,508	903,551	2000
32,528	61,013	59,113	55,081	26,271	30,348	858,697	947,395	2001
38,046	67,298	61,358	58,504	28,080	33,734	927,265	1,020,582	2002
40,472	73,286	63,818	61,515	29,849	33,356	957,728	1,052,703	2003
44,167	77,562	66,406	63,728	31,704	33,130	1,008,287	1,107,416	2004
48,405	81,344	69,115	65,247	33,838	34,185	1,051,713	1,155,130	2005
50,789	87,767	72,070	68,376	36,010	36,135	1,107,876	1,215,940	2006
52,461	95,356	74,602	70,852	39,110	38,411	1,176,059	1,286,459	2007
54,343	100,934	76,677	73,303	40,577	39,369	1,215,778	1,325,219	2008
56,340	102,580	80,058	74,116	43,731	39,624	1,226,048	1,335,724	2009
58,443	110,450	82,556	75,424	46,645	41,370	1,308,667	1,426,618	2010
61,601	116,793	84,904	77,321	49,825	41,212	1,356,276	1,479,198	2011
64,106	120,689	87,761	78,852	53,265	41,259	1,389,384	1,514,737	2012
67,895	128,150	90,221	80,729	56,505	41,320	1,436,068	1,562,674	2013
69,064	135,199	92,972	81,146	60,491	40,890	1,480,547	1,612,718	2014
69,789	141,919	95,491	82,134	63,337	39,499	1,520,908	1,658,020	2015
73,517	145,077	98,023	83,161	67,975	40,839	1,563,765	1,706,880	2016
75,814	147,950	100,723	84,806	72,330	40,496	1,613,713	1,760,812	2017
79,246	153,605	104,101	86,223	78,268	41,604	1,663,057	1,812,005	2018
82,894	157,572	108,117	87,582	85,932	42,683	1,702,671	1,852,666	2019
86,522	157,729	111,464	85,879	86,885	35,388	1,687,359	1,839,523	2020
90,951	162,751	115,519	90,074	91,800	36,744	1,760,714	1,918,710	2021
94,166	167,564	118,963	92,872	97,623	41,066	1,814,937	1,968,840	2022
Information and Communication	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	식품품	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	67.6	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	58.8	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	74.8	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	108.2	101.1	88.2	88.6	102.6	108.4	100.5	99.7
2022	109.7	92.8	80.5	80.7	94.2	109.9	103.2	106.4
	Total Index	Mining and Quarrying	Coal, Crude Oil and Natural Gas	Metal Ores	Non-Metallic Minerals, Except Fuel	Manufacturing	Food	Beverages

자료: 통계청



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	102.4	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	102.0	103.6	101.6	99.2	101.8	101.7	2021
95.6	98.4	105.3	102.0	87.8	101.2	98.1	2022
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: Statistics Korea

04 주요 경제·사회 통계

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 통신장비
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	103.6	108.6	102.9	103.3	102.7	105.2	95.1	118.8
2022	105.4	97.8	117.3	103.1	99.8	97.8	94.0	121.6
	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, Sound and Communication Equipment
	Manufacturing							

1. 2014년까지는, ①전기업, ②가스업, ③증기·온수 공급업, ④수도업을 포함하나 2015년 이후부터 ④수도업이 제외됨.
 자료: 통계청



4-4. Industrial Production Index(Continued)

2020=100

의료, 정밀, 광학기기 및 시계	전기장비	기타 기계 및 장비	자동차 및 트레일러	기타 운송장비	가구	기타 제품	전기업 및 가스업 ¹	
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	142.5	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	99.8	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
117.8	107.7	112.1	106.3	97.1	97.9	103.2	104.6	2021
125.6	110.8	113.3	116.0	116.7	87.4	106.0	107.7	2022
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 ¹	

1. Beginning in 2015, excludes Water Supply.

Source: Statistics Korea

4-5. 제조업 가동률지수

2020=100

	제조업	식품품	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	104.1	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	105.2	102.1	98.6	93.2	105.9
2022	105.2	109.8	110.2	95.6	115.5
	Manufacturing	Food	Beverage	Tobacco	Textiles

자료: 통계청



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
101.4	109.5	106.9	101.8	108.2	107.9	2021
104.3	105.8	109.7	103.6	97.3	111.9	2022
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: Statistics Korea

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	105.7	105.5	108.8	104.4	111.3	107.4
2022	110.8	97.9	114.7	99.8	115.8	108.3
	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: 통계청



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
107.3	101.8	100.4	104.2	100.7	2021
113.9	107.5	119.3	101.5	111.8	2022
Other Machinery and Equipment	Motor Vehicles, Trailers and Semitrailers	Other Transport Equipment	Furniture	Other Manufacturing	

Source: Statistics Korea

4-6. 산업별 월평균 근로시간(10인 이상)

단위: 시간

	전체	광업	제조업	전기, 가스, 증기 및 수도사업	하수·폐기물처리, 원료재생 및 환경복원업	건설업	도매 및 소매업	운수업	숙박 및 음식점업
1990	209.5	157.4	216.2	207.5	-	198.7	206.4	-	-
1991	208.2	171.4	214.0	210.9	-	198.1	207.5	-	-
1992	206.5	171.4	211.6	213.5	-	199.8	206.4	-	-
1993	206.4	176.7	212.2	208.6	-	202.1	201.7	-	203.2
1994	205.9	181.6	211.7	207.3	-	199.0	201.5	-	205.4
1995	207.0	190.5	213.7	212.4	-	198.9	200.5	-	203.6
1996	205.5	190.4	210.1	216.0	-	195.5	197.2	-	200.4
1997	203.0	190.8	207.6	213.5	-	193.4	194.3	-	198.7
1998	199.2	190.0	200.0	212.6	-	192.4	193.9	-	194.6
1999	208.2	192.7	217.4	211.5	-	195.8	199.0	-	198.3
2000	206.2	193.6	214.3	209.6	-	192.9	194.4	-	201.9
2001	203.9	190.3	209.8	213.3	-	192.7	193.9	-	204.7
2002	200.8	195.1	207.3	207.0	-	190.7	191.8	211.5	199.7
2003	199.2	195.6	206.7	208.2	-	188.0	189.2	210.0	197.6
2004	198.3	187.5	205.9	198.4	-	188.4	187.8	209.6	199.2
2005	195.9	189.8	203.8	184.1	-	185.5	186.2	202.3	206.3
2006	191.8	188.4	199.8	182.2	-	180.7	183.0	199.1	202.9
2007	188.8	188.5	197.6	180.8	-	179.1	179.4	194.0	201.2
2008	177.6	179.1	190.7	173.2	197.1	161.9	176.1	169.7	175.1
2009	177.1	187.8	188.9	177.9	196.9	150.7	176.9	184.6	170.9
2010	177.9	188.2	192.9	176.9	194.7	151.0	176.2	184.9	170.4
2011	176.9	187.3	191.6	176.8	187.5	152.8	172.4	181.9	188.3
2012	175.0	185.8	187.5	175.2	186.2	150.9	171.8	182.1	189.5
2013	173.4	181.0	186.2	173.1	182.8	153.3	170.6	177.8	177.2
2014	172.4	178.4	186.7	170.3	178.5	152.0	169.8	172.9	174.7
2015	173.6	178.5	187.6	170.5	178.9	151.0	170.8	173.7	172.2
2016	172.1	177.4	185.9	167.1	178.8	150.3	169.6	172.2	168.5
2017	169.1	179.7	182.6	164.3	179.8	148.3	166.3	168.6	171.9
2018	166.8	180.1	179.8	161.3	181.2	144.3	164.0	165.5	172.5
2019	166.4	178.9	178.8	159.7	182.4	143.0	164.9	162.9	171.4
2020	163.4	180.2	174.5	161.9	178.1	143.1	165.1	157.4	157.8
2021	162.4	180.5	174.5	160.5	177.8	140.5	163.2	156.2	159.5
2022	159.7	172.3	171.1	156.9	175.1	138.4	160.2	156.6	158.8
	Total	Mining and Quarrying	Manu facturing	Electricity, gas, Steam and Water Supply	Sewerage, Waste Management, Materials Recovery and Remediation Activities	Cons truction	Wholesale and Retail Trade	Tran sportation	Accommodation and Food Service Activities

주: 2008년 이후는 제9차 개정 한국표준산업분류를 따른.

자료: 고용노동부



4-6. Monthly Working Hours by Industry(10 or More Employees)

Unit: Hours

출판, 영상, 방송통신 및 정보서비스업	금융 및 보험업	부동산업 및 임대업	전문, 과학 및 기술 서비스업	사업시설관리 및 사업지원 서비스업	교육 서비스업	보건업 및 사회복지 서비스업	예술, 스포츠 및 여가관련 서비스업	협회및단체, 수리 및 기타 개인서비스업	
-	189.2	-	-	-	-	-	-	193.1	1990
-	191.9	-	-	-	-	-	-	193.5	1991
-	192.7	-	-	-	-	-	-	194.4	1992
-	186.6	209.3	-	-	189.4	196.1	-	197.4	1993
-	187.7	210.2	-	-	185.5	194.8	-	196.7	1994
-	187.0	207.4	-	-	185.5	195.4	-	200.0	1995
-	188.1	210.1	-	-	186.1	195.7	-	199.5	1996
-	187.1	208.1	-	-	183.6	195.5	-	199.5	1997
-	187.6	209.2	-	-	185.3	195.1	-	198.5	1998
-	188.3	207.2	-	-	196.0	195.7	-	198.4	1999
-	186.5	205.9	-	-	199.5	195.7	-	194.8	2000
-	185.3	205.3	-	-	193.6	195.8	-	197.1	2001
189.1	181.7	241.8	-	192.3	183.4	192.1	196.8	193.3	2002
186.5	174.5	233.2	-	193.4	181.8	189.6	197.2	191.3	2003
180.0	173.9	237.7	-	191.2	181.4	188.1	193.9	192.2	2004
176.7	170.3	248.7	-	187.1	177.8	186.3	193.0	190.9	2005
173.3	168.1	237.4	-	181.3	174.1	182.6	191.2	188.9	2006
172.0	167.4	232.1	-	178.3	170.4	181.2	187.0	186.9	2007
166.5	166.0	209.1	167.3	180.3	148.5	176.5	161.7	178.9	2008
167.5	166.8	204.1	167.5	178.3	151.8	175.9	165.2	177.9	2009
166.5	165.1	201.1	166.4	178.9	148.4	176.1	162.1	175.0	2010
165.3	162.9	196.9	166.3	173.5	151.5	172.9	158.8	178.2	2011
164.6	162.7	193.1	165.3	173.6	149.6	175.0	158.3	175.0	2012
163.9	162.1	191.4	163.8	172.9	149.0	172.4	158.3	172.9	2013
162.9	163.1	188.8	163.4	173.8	151.7	170.7	165.3	163.1	2014
165.5	163.8	192.0	165.0	174.6	151.4	172.8	167.1	163.7	2015
164.3	162.4	190.8	163.3	173.0	147.8	171.0	165.2	163.5	2016
162.3	160.3	185.0	160.1	168.6	144.7	167.5	163.0	160.5	2017
163.6	160.8	178.9	160.5	166.3	143.6	166.0	161.8	159.5	2018
166.3	161.4	177.3	161.7	166.0	146.1	165.3	160.5	158.1	2019
165.7	161.2	174.2	162.0	164.2	138.5	161.2	153.9	156.4	2020
164.4	159.9	172.9	160.7	163.1	137.2	159.0	154.7	160.5	2021
162.3	156.3	168.8	158.6	160.7	134.9	156.4	156.2	157.2	2022
Information and Communications	Financial and Insurance Activities	Real Estate Activities and Renting and Leasing	Professional, Scientific and Technical Activities	Business Facilities Management and Business Support Services	Education	Human Health and Social Work Activities	Arts, Sports and Recreation Related Services	Membership Organizations, Repair and Other Personal Services	

Note: Beginning in 2008, based on the 9th revision of Korea Standard Industrial Classification.

Source: Ministry of Employment and Labor

4-7. 산업별 월평균 임금(10인 이상)

단위: 천원

	전체	광업	제조업	전기, 가스, 증기 및 수도사업	하수·폐기물처리, 원료재생 및 환경복원업	건설업	도매 및 소매업	운수업	숙박 및 음식점업
1990	642.3	605.0	590.8	953.5	-	745.4	655.2	-	-
1991	754.7	710.6	690.3	1124.1	-	884.9	773.4	-	-
1992	869.3	859.9	798.5	1216.1	-	1020.2	884.3	-	-
1993	975.1	980.3	885.4	1324.1	-	1154.8	981.9	-	759.1
1994	1099.0	1096.4	1022.5	1424.9	-	1270.0	1071.2	-	863.6
1995	1222.1	1194.9	1123.9	1608.2	-	1384.2	1173.8	-	994.5
1996	1367.5	1379.9	1261.2	1916.9	-	1501.3	1316.8	-	1111.7
1997	1463.3	1534.9	1326.2	2078.5	-	1623.6	1426.6	-	1202.1
1998	1426.8	1524.5	1284.5	2021.7	-	1502.3	1396.7	-	1178.0
1999	1599.2	1581.1	1475.5	2327.6	-	1690.9	1471.2	-	1191.8
2000	1727.3	1702.3	1601.5	2489.8	-	1839.8	1597.6	-	1251.2
2001	1824.8	1779.6	1702.4	2875.4	-	1834.7	1826.7	-	1335.8
2002	2036.2	1994.3	1907.1	3243.0	-	2062.5	1978.6	1665.8	1526.5
2003	2228.5	2304.1	2074.0	3661.2	-	2286.6	2214.6	1851.9	1615.3
2004	2372.6	2457.4	2279.7	3859.8	-	2351.7	2300.8	1947.3	1686.1
2005	2524.9	2536.9	2458.0	4138.0	-	2373.8	2573.5	2120.9	1781.1
2006	2666.6	2615.6	2594.8	4353.6	-	2576.5	2717.9	2191.4	1830.0
2007	2823.2	2834.7	2772.4	4703.1	-	2730.6	2883.0	2308.1	1851.2
2008	2722.0	2977.7	2783.1	5174.2	2289.1	2042.7	2578.3	2080.0	1622.0
2009	2791.5	2863.1	2843.3	5140.8	2434.7	1978.2	2727.1	2272.7	1631.8
2010	2984.6	3075.1	3102.6	5502.2	2551.8	2149.2	2932.8	2394.0	1721.7
2011	3011.8	3348.2	3155.2	5508.3	2592.1	2353.0	3171.7	2393.6	1922.0
2012	3181.8	3530.5	3351.6	5406.9	2762.4	2485.0	3368.5	2589.4	2021.3
2013	3302.6	3625.7	3515.0	5558.3	2855.0	2638.0	3418.0	2728.4	1997.1
2014	3400.6	3624.5	3660.3	5573.0	2929.0	2691.0	3499.8	2802.9	1993.1
2015	3512.2	3851.7	3768.6	5867.5	3068.3	2782.9	3597.0	2948.3	2029.7
2016	3649.6	3959.1	3927.5	6351.4	3261.5	2888.1	3738.3	3106.4	2104.2
2017	3729.9	3992.2	4009.2	6321.0	3333.8	3041.3	3859.7	3247.8	2260.5
2018	3915.1	4069.1	4281.5	6470.0	3540.8	3189.5	4012.6	3452.2	2401.6
2019	4041.8	4193.3	4378.9	6561.5	3776.0	3397.6	4193.5	3570.8	2492.7
2020	4063.0	4591.6	4355.1	6824.9	4217.6	3497.3	4242.9	3592.3	2425.6
2021	4270.1	4697.2	4653.0	6854.6	4440.2	3583.4	4425.8	3913.1	2546.2
2022	4469.1	4830.1	4924.1	6983.1	4477.8	3705.6	4664.5	4212.1	2669.3
	Total	Mining and Quarrying	Manu facturing	Electricity, gas, Steam and Water Supply	Sewerage, Waste Management, Materials Recovery and Remediation Activities	Cons truction	Wholesale and Retail Trade	Tran sportation	Accommodation and Food Service Activities

주: 2008년 이후는 제9차 개정 한국표준산업분류를 따른.

자료: 고용노동부



4-7. Monthly Earnings of Employees by Industry(10 or More Employees)

Unit: Thousand KRW

출판, 영상, 방송통신 및 정보서비스업	금융 및 보험업	부동산업 및 임대업	전문, 과학 및 기술 서비스업	사업시설관리 및 사업지원 서비스업	교육 서비스업	보건업 및 사회복지 서비스업	예술, 스포츠 및 여가관련 서비스업	협회및단체, 수리 및 기타 개인서비스업	
-	0.0	-	-	-	-	-	-	0.0	1990
-	0.0	-	-	-	-	-	-	0.0	1991
-	0.0	-	-	-	-	-	-	0.0	1992
-	1417.5	921.4	-	-	1519.3	966.8	-	1266.2	1993
-	1568.5	1006.1	-	-	1739.6	1093.6	-	1393.3	1994
-	1827.6	1141.0	-	-	1933.9	1220.7	-	1540.4	1995
-	1986.5	1242.1	-	-	2036.7	1347.0	-	1725.7	1996
-	2054.2	1362.2	-	-	2201.7	1462.0	-	1819.9	1997
-	1966.5	1329.3	-	-	2190.1	1484.1	-	1764.8	1998
-	2215.9	1445.0	-	-	2018.7	1604.3	-	1686.2	1999
-	2448.1	1532.8	-	-	2095.8	1671.2	-	1889.1	2000
-	2646.1	1596.7	-	-	2137.7	1804.0	-	1893.9	2001
3544.5	3027.1	1254.3	-	2023.6	2596.9	1944.6	2413.7	1862.3	2002
3665.3	3395.2	1390.9	-	2114.9	2849.9	2078.1	2755.8	2017.6	2003
3743.0	3646.2	1430.5	-	2256.3	3053.1	2191.7	2874.5	2089.0	2004
3809.2	3854.3	1566.2	-	2364.0	3051.6	2403.1	2840.6	2196.2	2005
3878.5	4198.2	1745.6	-	2541.2	3192.1	2592.7	2928.1	2209.3	2006
4196.2	4531.7	1867.2	-	2676.9	3231.8	2675.9	2999.9	2328.4	2007
3265.2	4535.6	1902.4	3677.5	1730.6	3324.7	2690.4	2103.5	2074.7	2008
3291.1	4608.3	1956.9	3923.7	1722.5	3338.5	2767.5	2231.2	2179.0	2009
3438.9	4820.9	2086.5	4178.1	1855.3	3361.1	2844.7	2253.2	2228.4	2010
3800.3	4894.4	2141.8	4031.4	1693.3	3239.0	2701.2	2217.4	2469.3	2011
3948.7	5134.9	2381.7	4278.6	1779.2	3372.3	2850.1	2307.7	2548.5	2012
4053.5	5178.3	2480.2	4414.6	1869.2	3462.9	2918.2	2429.1	2502.4	2013
4058.6	5381.2	2455.8	4723.4	1904.4	3522.1	3008.2	2625.1	2471.8	2014
4183.1	5674.5	2624.4	4880.5	1962.4	3655.0	3078.5	2713.4	2530.3	2015
4314.2	5926.5	2777.0	5143.6	2040.7	3743.2	3163.8	2819.1	2715.3	2016
4446.4	6082.5	2766.0	5127.1	2074.8	3891.9	3193.4	2950.5	2784.3	2017
4634.1	6398.7	2997.8	5418.3	2196.5	3976.8	3304.7	3154.3	3034.4	2018
4839.3	6600.1	3198.2	5567.3	2333.5	4105.7	3452.5	3315.3	3176.2	2019
4975.2	6879.0	3279.6	5516.9	2382.8	3910.3	3381.5	3375.3	3185.6	2020
5186.5	7292.4	3404.5	5799.0	2468.1	3893.0	3450.6	3559.2	3422.1	2021
5439.9	7641.9	3553.4	6081.1	2572.5	3940.1	3543.5	3683.3	3609.6	2022
Information and Communications	Financial and Insurance Activities	Real Estate Activities and Renting and Leasing	Professional, Scientific and Technical Activities	Business Facilities Management and Business Support Services	Education	Human Health and Social Work Activities	Arts, Sports and Recreation Related Services	Membership Organizations, Repair and Other Personal Services	

Note: Beginning in 2008, based on the 9th revision of Korea Standard Industrial Classification.

Source: Ministry of Employment and Labor



4-8 도시 가구의 가구당 월평균 가계수지

단위: 천원

	소득	소비지출	전기료	연료비
1990	-	685.66	9.22	16.79
1991	-	818.34	10.41	18.21
1992	-	941.95	12.64	20.20
1993	-	1,020.95	14.10	23.42
1994	-	1,140.43	16.12	22.58
1995	-	1,265.89	17.79	25.96
1996	-	1,426.85	19.69	30.61
1997	-	1,489.54	21.50	35.76
1998	-	1,316.22	24.15	36.36
1999	-	1,478.88	25.56	36.08
2000	-	1,632.30	29.38	40.58
2001	-	1,762.12	30.86	43.37
2002	-	1,834.81	32.98	41.89
2003	3,762.90	2,431.79	-	98.73
2004	3,850.51	2,481.83	-	96.87
2005	3,894.86	2,515.54	-	96.93
2006	3,993.52	2,556.51	-	93.67
2007	4,102.05	2,584.17	-	92.50
2008	4,152.47	2,589.18	-	91.75
2009	4,090.32	2,561.42	-	95.29
2010	4,204.69	2,647.67	-	103.27
2011	4,275.56	2,662.96	-	99.54
2012	4,440.32	2,676.51	-	99.24
2013	4,474.61	2,667.16	-	96.26
2014	4,567.45	2,708.24	-	86.91
2015	4,610.03	2,701.95	-	90.68
2016	4,592.87	2,661.99	-	92.98
2017	4,565.16	2,618.49	-	82.81
2018	4,754.42	2,561.05	-	85.48
2019	4,856.30	2,957.93	-	89.95
2020	4,936.58	2,910.25	-	94.46
2021	5,103.96	2,945.18	-	97.28
2022	5,344.72	2,976.40	-	90.12
	Income	Expenditure	Electricity	Fuel

주 1. 2020년 실질 기준

2. 1990~2002년: 구분류 기준 도시 2인 이상 가구

3. 2003~2018: 신분류 기준 전국 2인 이상 가구

4. 2019년 이후: 비농림어가, 전국 2인 이상 가구

5. 기간별 상세 기준은 통계청의 가계동향조사 참고

자료: 통계청 가계동향조사



4-8 Average Monthly Income and Expenditure per Household in Urban Areas

Unit: Thousand KRW

공동주택난방비	운송기구연료비	공공교통	개인교통	
0.78	-	20.88	24.62	1990
0.84	-	24.36	32.11	1991
1.06	-	27.15	40.77	1992
1.22	-	30.95	53.61	1993
1.06	-	34.17	74.14	1994
1.97	-	36.99	79.26	1995
2.81	-	41.23	94.44	1996
3.06	-	45.08	104.87	1997
4.79	-	41.36	97.75	1998
4.54	-	46.56	120.43	1999
5.59	-	49.94	134.46	2000
5.94	-	53.77	136.21	2001
5.34	-	51.87	146.61	2002
-	109.29	-	-	2003
-	107.44	-	-	2004
-	106.28	-	-	2005
-	105.32	-	-	2006
-	103.87	-	-	2007
-	99.24	-	-	2008
-	97.16	-	-	2009
-	94.95	-	-	2010
-	92.04	-	-	2011
-	92.30	-	-	2012
-	97.75	-	-	2013
-	101.77	-	-	2014
-	110.93	-	-	2015
-	111.88	-	-	2016
-	96.13	-	-	2017
-	93.36	-	-	2018
-	110.38	-	-	2019
-	111.03	-	-	2020
-	106.58	-	-	2021
-	106.22	-	-	2022
APT Heating	Fuel of vehicles	Public transport	Private transport	

1. At chained 2020 year prices.

2. 1990-2002: Old classification. Include households with two or more people in cities only.

3. 2003-2018: New classification. Include households with two or more people.

4. Beginning in 2019, excludes households in agriculture, forestry and fishing and one-person households.

5. Refer to the Household Income and Expenditure Survey for more details.

Source: Household Income and Expenditure Survey, Statistics Korea

4-9. 에너지 다소비 업종의 주요제품 생산량

단위: 천톤

	나프타 (kL)	에틸렌	프로필렌	부타디엔	벤젠
1990	5,642,031	1,054	608	168	381
1991	8,433,318	1,566	855	205	561
1992	10,375,340	2,769	1,482	376	964
1993	10,410,586	3,273	1,808	486	1,139
1994	10,806,329	3,667	2,085	547	1,255
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
	Naphtha (kL)	Ethylene	Propylene	Butadiene	Benzene

1. 2017년 이후 자료는 통계청에서 공개하지 않음.

자료: 통계청, 한국철강협회



4-9. Product Production in Energy-Intensive Industries

Unit: Thousand Tons

톨루엔	자일렌	시멘트 ¹	합금철	알루미늄판	
407	-	33,914	-	-	1990
569	-	39,167	-	-	1991
774	-	44,444	-	-	1992
860	-	47,313	-	-	1993
954	-	52,088	-	-	1994
979,095	-	56,101	217,932	-	1995
1,110,862	-	58,434	216,142	-	1996
1,294,312	-	60,317	239,731	-	1997
1,207,183	-	46,791	265,797	-	1998
1,345,830	-	48,579	256,456	-	1999
1,585,760	2,699,152	51,417	250,294	389,656	2000
1,855,613	1,915,403	53,062	244,000	421,629	2001
1,913,491	1,525,137	56,823	230,736	561,571	2002
1,857,718	1,701,603	60,725	235,492	517,541	2003
1,727,408	1,719,380	56,955	253,902	614,981	2004
1,587,475	1,736,851	52,224	216,393	630,843	2005
1,764,694	2,178,318	55,021	298,183	630,116	2006
1,797,489	2,462,384	58,188	334,731	622,298	2007
1,670,689	2,140,179	56,010	374,961	634,551	2008
1,885,486	2,682,417	53,826	363,292	679,867	2009
1,837,467	2,764,587	50,695	583,224	742,799	2010
1,815,074	2,483,524	52,004	768,268	729,627	2011
2,009,988	1,885,323	52,613	881,875	714,967	2012
1,925,916	2,150,948	53,818	956,326	771,749	2013
1,809,689	2,047,516	52,490	915,531	843,874	2014
1,906,954	1,780,078	56,212	995,335	898,874	2015
2,012,981	1,751,076	61,551	851,456	895,753	2016
1,931,832	2,738,599	-	894,124	958,986	2017
1,794,149	2,784,504	-	931,435	964,496	2018
2,861,609	3,037,104	-	879,791	1,032,313	2019
2,809,708	2,610,244	-	784,293	1,042,958	2020
2,777,650	2,711,153	-	887,605	1,103,311	2021
2,926,090	2,551,435	-	888,202	1,094,876	2022
Toluene	Xylene	Cement (thou. ton)	Ferroalloy	Aluminium Plate	

1. Since 2017, cement production has not been disclosed by Statistics Korea

Source: Statistics Korea, Korea Iron & Steel Association

4-10. 자동차 등록대수

단위: 천 대

	합계	유종별							
		휘발유	경유	LPG	CNG	하이브리드 ¹	전기	기타 ²	수소
1990	3,395	-	-	-	-	-	-	-	-
1991	4,248	-	-	-	-	-	-	-	-
1992	5,231	-	-	-	-	-	-	-	-
1993	6,274	-	-	-	-	-	-	-	-
1994	7,404	-	-	-	-	-	-	-	-
1995	8,469	-	-	-	-	-	-	-	-
1996	9,553	-	-	-	-	-	-	-	-
1997	10,413	-	-	-	-	-	-	-	-
1998	10,470	-	-	-	-	-	-	-	-
1999	11,164	-	-	-	-	-	-	-	-
2000	12,059	1,831	3,594	1,214	-	-	0	37	-
2001	12,914	1,586	4,030	1,428	-	-	0	39	-
2002	13,949	1,382	4,607	1,625	-	-	0	44	-
2003	14,587	1,246	5,055	1,723	1	-	0	46	-
2004	14,934	1,238	5,385	1,794	5	-	0	48	-
2005	15,397	1,576	5,650	1,890	9	-	0	48	-
2006	15,895	1,942	5,869	2,047	12	-	0	51	-
2007	16,428	2,280	6,087	2,187	15	-	0	53	-
2008	16,794	2,578	6,137	2,321	20	4	-	55	-
2009	17,325	3,008	6,285	2,391	25	5	-	63	-
2010	17,941	8,907	6,483	2,444	29	7	0	71	-
2011	18,437	3,556	6,705	2,429	32	23	0	77	-
2012	18,871	9,276	7,002	2,415	37	57	1	82	-
2013	19,401	9,400	7,396	2,392	40	85	1	87	-
2014	20,118	9,587	7,939	2,337	40	119	3	93	-
2015	20,990	9,809	8,622	2,257	40	156	6	100	0
2016	21,803	10,092	9,170	2,167	39	215	11	109	0
2017	22,528	10,370	9,576	2,105	39	296	25	118	0
2018	23,203	10,629	9,930	2,035	39	387	56	126	1
2019	23,677	10,961	9,958	2,005	38	488	90	133	5
2020	24,366	11,410	9,992	1,979	37	650	135	151	11
2021	24,911	11,760	9,872	1,946	35	871	231	177	19
2022	25,503	12,069	9,758	1,905	33	1,119	390	200	30
	Total	Gasoline	Diesel	LPG	CNG	Hybrid ¹	Electricity	Others ²	hydrogen
		Fuels							

1. 하이브리드: 휘발유+전기

2. 기타: 동유, 알코올, 태양열, LNG, 하이브리드(경유+전기, LPG+전기, CNG+전기, LNG+전기), 기타연료 포함

자료: 국토교통부 통계누리



4-10. Number of Vehicles Registered

Unit: 1,000 unit

용도별			차종별				
영업용	관용	자가용	승용	승합	화물	특수	
322	34	3,039	2,075	384	925	11	1990
-	-	-	2,728	428	1,077	15	1991
-	-	-	3,461	484	1,262	25	1992
-	-	-	4,271	528	1,449	26	1993
417	44	6,944	5,149	582	1,645	29	1994
449	46	7,975	6,006	613	1,817	33	1995
480	47	9,026	6,894	663	1,963	34	1996
503	50	9,860	7,586	719	2,072	36	1997
511	50	9,909	7,581	749	2,105	35	1998
564	50	10,550	7,837	993	2,298	35	1999
620	50	11,389	8,084	1,427	2,511	37	2000
669	52	12,194	8,889	1,257	2,728	39	2001
723	53	13,173	9,737	1,275	2,894	42	2002
751	55	13,781	10,279	1,247	3,016	45	2003
767	57	14,111	10,621	1,204	3,062	47	2004
784	58	14,555	11,122	1,125	3,102	48	2005
817	59	15,019	11,607	1,106	3,133	49	2006
871	61	15,496	12,100	1,105	3,171	52	2007
911	62	15,821	12,484	1,097	3,160	53	2008
930	64	16,330	13,024	1,081	3,167	54	2009
974	66	16,901	13,632	1,050	3,204	56	2010
1,011	69	17,357	14,136	1,015	3,226	59	2011
1,052	71	17,747	14,577	987	3,244	63	2012
1,126	73	18,202	15,078	971	3,286	66	2013
1,213	75	18,830	15,747	947	3,354	70	2014
1,290	78	19,623	16,562	920	3,433	75	2015
1,378	80	20,345	17,338	893	3,492	80	2016
1,458	86	20,984	18,035	868	3,540	86	2017
1,573	90	21,540	18,677	844	3,591	91	2018
1,677	92	21,908	19,178	812	3,593	95	2019
1,750	94	22,522	19,861	784	3,615	106	2020
1,828	96	22,987	20,411	750	3,632	119	2021
1,903	98	23,502	20,953	724	3,696	130	2022
Business	Government	Private	Passenger	Buses	Trucks	Special	
End-Uses			Types				

1. Hybrid: Gasoline+Electricity

2. Includes Kerosene, Alcohol, Solar, LNG, Hybrid (Diesel+Electricity, LPG+Electricity, CNG+Electricity, LNG+Electricity) and Others

Source: Ministry of Land, Infrastructure and Transport

4-11. 여객 수송 실적

	국내									
	합계		철도 ¹		지하철 ²		공로 ³		해운	
	(천인)	(백만인-키로)	(천인)	(백만인-키로)	(천인)	(백만인-키로)	(천인)	(백만인-키로)	(천인)	(백만인-키로)
1990	14,572,884	135,981	644,814	30,509	1,186,633	11,229	12,721,877	89,712	8,496	520
1991	14,977,180	136,692	679,281	32,133	1,422,615	11,891	12,854,212	87,697	8,819	524
1992	15,135,019	134,815	716,364	32,935	1,546,279	12,970	12,848,750	83,152	9,071	525
1993	14,440,372	128,916	723,057	31,771	1,576,040	13,168	12,117,439	77,998	8,286	468
1994	13,963,210	125,495	729,003	29,588	1,603,945	14,823	11,603,575	74,167	8,280	436
1995	13,802,997	126,023	790,381	30,082	1,693,003	15,709	11,289,507	72,324	9,097	502
1996	14,061,638	126,726	819,542	30,399	1,728,171	14,621	11,480,422	72,871	9,936	547
1997	13,611,722	123,003	832,999	30,906	1,855,166	13,737	10,887,456	68,737	10,463	571
1998	13,480,161	117,012	829,050	29,405	1,838,870	13,443	10,783,922	66,853	8,815	434
1999	13,326,425	130,358	823,563	29,429	2,015,999	18,245	10,455,862	74,636	9,857	543
2000	13,514,775	132,841	837,268	28,528	2,235,221	21,030	10,410,069	74,572	9,702	672
2001	13,345,346	151,835	850,971	28,882	2,527,099	30,269	9,936,126	84,256	9,340	555
2002	12,678,405	138,227	851,716	27,492	2,012,386	24,436	9,783,595	77,925	9,460	565
2003	12,313,293	136,741	894,621	27,228	1,982,192	23,755	9,404,764	77,200	10,336	620
2004	12,153,735	143,775	921,223	28,459	2,033,411	24,291	9,169,560	83,217	10,648	657
2005	11,801,453	153,568	950,995	31,004	2,020,360	23,637	8,801,840	91,665	11,100	668
2006	12,186,509	160,740	969,145	31,416	2,079,961	24,110	9,108,648	97,854	11,574	709
2007	12,410,876	182,590	989,294	31,596	2,090,290	24,134	9,301,810	119,569	12,634	765
2008	12,990,411	168,425	1,018,977	32,027	2,141,872	24,740	9,798,410	104,142	14,162	873
2009	12,958,910	164,575	1,020,319	31,299	2,181,346	24,190	9,724,316	101,114	14,868	867
2010	12,867,138	171,946	1,060,941	33,012	2,273,087	25,369	9,498,586	104,671	14,308	883
2011	29,455,705	416,348	1,118,621	36,784	2,358,758	26,260	25,943,079	343,928	14,266	981
2012	29,579,409	429,928	1,149,340	42,493	2,410,931	27,586	25,982,998	350,217	14,538	922
2013	30,067,308	438,154	1,224,820	38,531	2,476,394	27,822	26,327,678	361,696	16,063	1,012
2014	30,507,071	439,049	1,263,472	39,500	2,526,167	28,360	26,678,513	360,936	14,271	756
2015	31,029,472	464,853	1,269,417	40,343	2,522,900	28,028	27,193,794	385,018	15,381	757
2016	33,158,711	490,071	1,449,534	43,384	3,572,127	43,487	28,090,714	390,541	15,423	839
2017	33,336,713	496,319	1,490,319	46,295	3,604,712	43,669	28,192,366	393,196	16,910	916
2018	33,595,786	504,501	1,521,590	48,027	3,618,352	44,166	28,409,618	399,604	14,626	822
2019	33,972,470	515,247	1,570,415	54,964	3,705,150	45,418	28,649,339	401,575	14,585	857
2020	29,197,761	389,765	1,122,872	35,942	2,677,582	12,795	25,361,541	330,992	10,603	548
2021	34,144,138	445,722	1,170,749	38,434	2,759,948	31,901	30,168,830	362,395	11,464	639
	(Thou. Passengers)	(Mil. Pass-km)	(Thou. Passengers)	(Mil. Pass-km)	(Thou. Passengers)	(Mil. Pass-km)	(Thou. Passengers)	(Mil. Pass-km)	(Thou. Passengers)	(Mil. Pass-km)
	Total		Railway1		Subway		Roa ⁴²		Shipping	
	Domestic									

1. 2016년 한국철도통계 개편 결과 반영

2. 2020년 지하철 일부(서울교통공사 1-8호선) 인-키로 기준 수송실적 미포함

3. 2011년부터 승용자동차 포함

자료: 국토교통부 「교통부문수송실적보고」



4-11. Passenger Traffic

국내		국외						
항공		합계		해운		항공		
(천인)	(백만인-키로)	(천인)	(백만인-키로)	(천인)	(백만인-키로)	(천인)	(백만인-키로)	
11,064	4,011	9,862	36,489	236	84	9,626	36,405	1990
12,253	4,447	10,606	38,634	335	113	10,271	38,521	1991
14,555	5,233	11,595	45,349	338	130	11,257	45,219	1992
15,550	5,511	11,947	47,739	296	112	11,651	47,627	1993
18,406	6,481	13,487	54,318	411	163	13,076	54,155	1994
21,009	7,406	14,998	61,749	395	136	14,603	61,613	1995
23,567	8,288	16,515	70,688	523	198	15,992	70,490	1996
25,639	9,052	17,162	74,588	564	214	16,598	74,375	1997
19,504	6,877	14,642	55,935	538	200	14,104	55,736	1998
21,145	7,505	17,555	65,233	805	299	16,750	64,934	1999
22,515	8,039	20,451	76,314	999	398	19,452	75,916	2000
21,811	7,873	21,425	77,072	1,075	401	20,351	76,671	2001
21,248	7,809	23,970	84,825	1,253	459	22,717	84,366	2002
21,380	7,938	22,839	74,829	1,380	535	21,459	74,293	2003
18,893	7,151	28,753	90,146	1,822	714	26,931	89,432	2004
17,158	6,594	31,789	95,927	2,105	857	29,684	95,071	2005
17,181	6,651	35,092	105,132	2,385	993	32,708	104,140	2006
16,848	6,526	39,417	115,801	2,550	1,019	36,867	114,782	2007
16,990	6,643	37,876	115,950	2,534	1,030	35,341	114,920	2008
18,061	7,105	35,603	110,048	2,089	845	33,514	109,203	2009
20,216	8,011	42,822	128,865	2,761	1,104	40,061	127,760	2010
20,981	8,395	45,308	141,187	2,660	1,188	42,649	139,999	2011
21,602	8,710	50,583	155,188	2,881	1,163	47,703	154,025	2012
22,353	9,093	53,724	163,870	2,737	-	50,987	163,870	2013
24,648	9,497	59,425	173,643	2,646	-	56,779	173,643	2014
27,980	10,707	64,051	187,737	2,617	-	61,434	187,737	2015
30,913	11,820	75,778	212,261	2,777	-	73,001	212,261	2016
32,406	12,243	79,684	231,398	2,728	-	76,956	231,398	2017
31,601	11,882	88,905	251,747	2,980	-	85,925	251,747	2018
32,981	12,433	93,355	269,322	2,969	-	90,386	269,322	2019
25,164	9,488	14,409	52,826	169	-	14,240	52,826	2020
33,147	12,353	3,209	19,426	-	-	3,209	19,426	2021
(Thou. Passengers)	(Mil. Pass-km)	(Thou. Passengers)	(Mil. Pass-km)	(Thou. Passengers)	(Mil. Pass-km)	(Thou. Passengers)	(Mil. Pass-km)	
Aviation		Total		Shipping		Aviation		
Domestic		International						

1. Reflecting the Result of the 2016 Korea Railway Statistics Revision.

2. Not including part of the subway(Seoul Metro Lines 1~8) transport performance on an pass-km basis in 2020.

3. Including passenger car statistics since 2011.

Source: Minister of Land, Infrastructure and Transport 「Performance of Transport Sector」

4-12. 화물 수송 실적

	국내							
	합계		철도		공로 ¹		해운	
	수송톤수 (천톤)	분담율 (%)	수송톤수 (천톤)	분담율 (%)	수송톤수 (천톤)	분담율 (%)	수송톤수 (천톤)	분담율 (%)
2000	673,835	100.0	45,240	6.7	496,174	73.6	131,987	19.6
2001	721,823	100.0	45,122	6.3	535,725	74.2	140,544	19.5
2002	772,444	100.0	45,733	5.9	584,573	75.7	141,706	18.3
2003	758,316	100.0	47,110	6.2	565,456	74.6	145,327	19.2
2004	679,413	100.0	44,512	6.6	518,856	76.4	115,636	17.0
2005	687,451	100.0	41,669	6.1	526,000	76.5	119,410	17.4
2006	690,778	100.0	43,341	6.3	529,278	76.5	117,805	17.1
2007	715,191	100.0	44,531	6.2	550,264	76.9	120,079	16.8
2008	729,826	100.0	46,806	6.4	555,801	76.2	126,964	17.4
2009	766,679	100.0	38,898	5.1	607,480	79.2	120,032	15.7
2010	783,234	100.0	39,217	5.0	619,530	79.1	124,225	15.9
2011	1,605,507	100.0	40,012	2.5	1,439,625	89.6	125,588	7.8
2012	1,714,141	100.0	40,309	2.4	1,554,510	90.7	119,057	6.9
2013	1,704,343	100.0	39,822	2.3	1,546,407	90.7	117,860	6.9
2014	1,668,283	100.0	37,379	2.2	1,512,700	90.7	117,920	7.1
2015	1,927,283	100.0	37,094	1.9	1,761,291	91.4	128,611	6.7
2016	1,975,641	100.0	32,555	1.6	1,799,565	91.1	143,227	7.2
2017	2,028,558	100.0	31,670	1.6	1,854,011	91.4	142,587	7.0
2018	2,047,201	100.0	30,915	1.5	1,895,686	92.6	120,327	5.9
2019	1,983,572	100.0	28,664	1.4	1,847,241	93.1	107,408	5.4
2020	1,926,888	100.0	26,277	1.4	1,788,917	92.8	111,513	5.8
2021	1,990,292	100.0	26,780	1.3	1,848,182	92.9	115,125	5.8
	(Thou. Tons)	(%)	(Thou. Tons)	(%)	(Thou. Tons)	(%)	(Thou. Tons)	(%)
	Total		Railway		Road		Shipping	
	Domestic							

1. 2011년부터 비영업용 화물차 통계 포함. 2015년부터 영업용 화물차 통계작성방식 변경
 자료: 국토교통부 「교통부문수송실적보고」



4-12. Freight Traffic

국내		국제						
항공		합계		해운		항공		
수송톤수 (천톤)	분담율 (%)	수송톤수 (천톤)	분담율 (%)	수송톤수 (천톤)	분담율 (%)	수송톤수 (천톤)	분담율 (%)	
434	0.1	571,549	100.0	569,599	99.7	1,949	0.3	2000
431	0.1	612,774	100.0	610,910	99.7	1,864	0.3	2001
433	0.1	637,622	100.0	635,545	99.7	2,077	0.3	2002
423	0.1	669,817	100.0	667,608	99.7	2,209	0.3	2003
409	0.1	735,946	100.0	733,377	99.7	2,569	0.3	2004
372	0.1	757,553	100.0	754,936	99.7	2,617	0.3	2005
355	0.1	812,683	100.0	809,830	99.6	2,854	0.4	2006
316	0.1	865,662	100.0	862,523	99.6	3,138	0.4	2007
254	0.1	897,691	100.0	894,693	99.7	2,997	0.3	2008
269	0.1	851,171	100.0	848,299	99.7	2,872	0.3	2009
262	0.1	969,520	100.0	966,193	99.7	3,327	0.3	2010
281	0.1	1,072,804	100.0	1,069,566	99.7	3,238	0.3	2011
265	0.1	1,111,747	100.0	1,108,538	99.7	3,209	0.3	2012
253	0.1	1,126,451	100.0	1,123,205	99.7	3,246	0.3	2013
283	0.1	1,188,052	100.0	1,184,641	99.7	3,411	0.3	2014
288	0.1	1,220,300	100.0	1,216,782	99.7	3,519	0.3	2015
293	0.1	1,246,378	100.0	1,242,597	99.7	3,781	0.3	2016
290	0.0	1,316,521	100.0	1,312,489	99.7	4,032	0.3	2017
273	0.0	1,410,094	100.0	1,405,925	99.7	4,169	0.3	2018
259	0.0	1,433,166	100.0	1,429,150	99.7	4,016	0.3	2019
182	0.0	1,279,299	100.0	1,276,228	99.8	3,071	0.2	2020
205	0.0	1,355,995	100.0	1,352,575	99.7	3,420	0.3	2021
(Thou. Tons)	(%)	(Thou. Tons)	(%)	(Thou. Tons)	(%)	(Thou. Tons)	(%)	
Aviation		Total		Shipping		Aviation		
		International						

1. Including non-commercial freight vehicle statistics since 2011. Change in commercial freight vehicle statistical reporting method since 2015.
Source: Minister of Land, Infrastructure and Transport. ¹Performance of Transport Sector.

4-13. 소비자물가지수

2020=100.0

	총지수	식료품· 비주류음료	주류 및 담배	의류 및 신발	주택·수도·전기 및 연료		가정용품 및 가사 서비스	보건
						광열		
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	115.7	106.8	100.8
	Total Item	Food & Nonalcoholic Beverages	Alcoholic Beverages & Cigarettes	Clothing & Footwear	Housing, Water & Fuels	Electricity, Gas & Other Fuels	Furnishings & Household Equipment	Health

자료: 통계청



4-13. Consumer Price Indices

2020=100.0

교통	교통수단 이용료	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	28.8	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
Transportation	Service Costs	Communication	Culture & Recreation	Education	Foods & Accomodation	Miscellaneous Goods & Services	

Source: Statistics Korea

4-14. 생산자 물가지수

2015=100.0

	총지수	상품							
			농림수산물	광산물	공산물	전력, 가스 및 수도	서비스	운송 서비스	음식점 및 숙박서비스
1990	55.8	56.9	41.5	39.3	60.5	41.9	-	-	-
1991	58.5	59.6	46.4	42.8	62.8	42.5	-	-	-
1992	59.7	60.8	47.9	43.4	64.0	45.4	-	-	-
1993	60.6	61.7	48.8	43.3	64.8	46.0	-	-	-
1994	62.3	63.4	54.7	44.4	65.9	46.2	-	-	-
1995	65.2	66.4	56.8	44.4	69.1	47.9	63.0	53.0	59.8
1996	67.3	67.8	57.7	44.9	70.5	50.0	67.2	56.1	66.4
1997	69.9	70.0	58.8	45.6	72.8	52.5	71.0	58.6	70.2
1998	78.4	79.5	61.0	49.3	83.6	58.2	76.7	68.0	71.8
1999	76.8	77.7	67.2	49.9	80.7	57.8	75.4	67.8	72.6
2000	78.4	79.5	65.4	51.0	82.6	62.8	76.6	70.1	75.8
2001	78.0	78.5	67.8	51.6	80.8	67.2	77.5	71.8	80.9
2002	77.8	77.5	69.6	55.8	79.5	65.5	79.2	74.2	85.7
2003	79.5	79.1	73.6	56.6	80.8	67.3	81.1	77.1	85.7
2004	84.3	85.0	82.5	61.0	87.0	68.0	83.4	81.6	82.5
2005	86.1	87.1	79.5	65.2	89.7	68.5	84.5	82.7	82.1
2006	86.9	87.4	77.5	63.7	89.8	72.9	86.5	84.8	82.5
2007	88.1	88.4	79.6	68.1	90.5	75.3	88.5	87.0	82.7
2008	95.6	98.0	80.5	74.2	101.5	78.1	90.8	92.3	83.8
2009	95.4	97.3	87.5	81.4	99.7	82.2	91.7	93.9	84.8
2010	99.1	101.8	95.3	90.2	104.0	85.2	93.3	94.8	86.5
2011	105.7	110.6	102.4	92.1	113.4	90.0	95.6	95.9	92.2
2012	106.4	110.9	103.3	95.3	112.9	96.5	97.1	98.3	94.6
2013	104.7	108.2	97.1	97.6	109.6	101.6	97.4	99.0	96.2
2014	104.2	106.7	97.7	99.7	107.2	107.0	98.8	100.6	97.9
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	98.2	96.8	105.8	104.0	96.5	94.2	101.0	100.4	102.2
2017	101.6	101.1	112.6	109.1	101.1	95.7	102.5	101.4	104.6
2018	103.5	103.3	116.7	114.5	103.3	96.2	103.9	102.9	107.9
2019	103.5	102.5	114.0	115.3	102.3	98.4	105.2	104.9	110.6
2020	103.0	100.9	124.9	112.7	99.7	98.1	106.6	106.1	111.8
2021	109.6	110.2	135.1	120.0	110.0	98.7	109.1	109.5	114.7
2022	118.8	123.3	136.5	133.9	122.9	119.2	112.5	116.6	123.4
	All Items	Goods	Agricultural, Forest & Marine Products	Mining Products	Manufacturing Products	Electric Power, Gas & Water Supply	Services	Transportation	Accommodation & Food Services

자료: 한국은행



4-14. Producer Price Indices

2015=100.0

정보통신 및 방송서비스	금융 및 보험서비스	부동산서비스	전문, 과학 및 기술서비스	사업 지원서비스	교육서비스	예술, 스포츠 및 여가관련서비스	기타 서비스	
-	-	-	-	-	-	-	-	1990
-	-	-	-	-	-	-	-	1991
-	-	-	-	-	-	-	-	1992
-	-	-	-	-	-	-	-	1993
-	-	-	-	-	-	-	-	1994
85.0	87.0	69.3	38.5	84.5	-	-	-	1995
88.8	88.0	72.6	46.0	84.5	-	-	-	1996
91.3	87.5	75.9	51.9	90.0	-	-	-	1997
93.9	84.9	76.7	55.6	105.9	-	-	-	1998
95.0	91.4	74.6	54.5	92.6	-	-	-	1999
96.1	91.3	74.5	56.3	89.5	-	-	-	2000
96.9	87.4	75.7	58.8	86.3	-	-	-	2001
97.2	90.1	77.4	62.1	84.1	-	-	-	2002
96.7	90.3	80.0	65.7	82.4	-	-	-	2003
96.0	95.3	81.8	69.8	82.3	-	-	-	2004
96.0	100.2	82.5	72.4	81.3	-	-	-	2005
96.9	107.3	83.4	74.7	83.2	-	-	-	2006
97.4	114.7	85.2	76.7	84.8	-	-	-	2007
97.8	106.2	87.7	84.6	87.6	-	-	-	2008
98.7	101.3	89.9	87.2	88.5	-	-	-	2009
99.0	104.8	91.2	92.2	90.0	85.5	92.4	88.3	2010
99.0	107.5	93.1	95.2	92.4	88.4	94.3	91.6	2011
98.6	104.4	95.3	97.4	94.9	92.3	95.2	94.4	2012
97.8	98.3	97.1	97.4	96.0	95.8	96.7	96.1	2013
98.8	99.4	98.6	97.6	97.7	97.9	98.6	98.3	2014
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2015
100.5	97.7	101.6	102.8	101.7	102.1	101.7	101.7	2016
100.5	98.4	103.1	106.1	103.6	103.5	103.5	104.1	2017
99.6	97.0	104.1	108.1	108.0	106.1	106.4	107.5	2018
99.2	93.3	104.9	112.1	111.3	108.3	107.6	109.4	2019
100.6	93.6	106.0	114.6	114.6	110.2	107.5	110.8	2020
101.9	99.6	107.1	118.2	116.4	111.9	108.7	112.9	2021
102.8	93.5	108.0	122.0	121.4	114.7	114.0	118.2	2022
Telecom munication & Broadcasting	Financial & Insurance Activities	Real Estate Activities	Professional, Scientific and Technical Activities	Business Services	Education	Cultural Activities & Amusement Activities	Other Services	

Source: Statistics Korea

05

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기타
Others



05 기타

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- 5-2. 에너지 사용량 신고업체수
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05 Major Economic and Social Statistics



- 5-1. Energy Savings of Energy usage reporting entities
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5-1. 에너지사용량 신고업체 에너지절약실적

단위: 천 toe

		산업						
		식품	섬유	제지·목재	화학	요업	금속	에너지 산업
2020	사용량	1,331	233	1,186	24,605	4,949	38,009	27,577
	절감량	23	4	26	404	167	539	262
	절감율(%)	1.7	1.5	2.1	1.6	3.3	1.4	0.9
	투자비(억원)	443	28	809	1,846	497	2,247	1,611
	용자	3	7	143	384	269	328	336
	자체	440	21	667	1,462	228	1,919	1,275
2021	사용량	1,373	263	1,227	26,166	5,043	38,813	30,453
	절감량	23	3	33	452	330	314	287
	절감율(%)	1.7	1.2	2.7	1.7	6.1	0.8	0.9
	투자비(억원)	299	44	193	1,747	1,636	1,888	1,425
	용자	1	7	41	153	687	290	172
	자체	298	37	153	1,594	949	1,598	1,253
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
		Foods	Textiles	Paper·Wood	Chemicals	Ceramic	Metal	Energy Industry

자료: 한국에너지공단 「에너지사용량통계」

5-1. Energy Savings of Energy usage reporting entities

Unit: Thousand toe

		건물	수송	합계		
기타	소계					
854	98,744	2,823	2,778	104,345	Consumption	2020
36	1,460	50	14	1,524	Reduction	
4.0	1.5	1.8	0.5	1.4	Reduction Rate(%)	
1,599	9,082	1,540	86	10,708	Investment(100 Mil. KRW)	
128	1,598	255	10	1,863	Loan	
1,472	7,484	1,285	76	8,845	Own	
895	104,233	2,948	2,841	110,022	Consumption	2021
34	1,476	43	13	1,532	Reduction	
3.7	1.4	1.4	0.5	1.4	Reduction Rate(%)	
501	7,733	1,513	150	9,396	Investment(100 Mil. KRW)	
4	1,354	137	2	1,494	Loan	
497	6,379	1,376	148	7,902	Own	
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	
Others	Sub-Total	Building	Transport	Total		

Source: Korea Energy Agency, 「2022 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
2016	284	178	116	606	182	1,161	99
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
비중(%)	6.8	2.0	2.4	14.1	3.7	24.6	2.5
	Foods	Textiles	Paper·Wood	Chemicals	Ceramic	Metal	Energy Industry
	Industry						

자료: 한국에너지공단, 「2022년 에너지사용량 통계」

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
2016	1,228	855	1,333	23,533	5,944	37,904	21,113
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
비중(%)	1.3	0.2	1.1	23.7	4.6	33.7	29.1
	Foods	Textiles	Paper·Wood	Chemicals	Ceramic	Metal	Energy Industry
	Industry						

자료: 한국에너지공단, 「2022년 에너지사용량 통계」

5-2. Number of Companies for Energy Consumption Return

Unit: Each

산업		건물	수송	발전	합계	
산업기타	소계					
90	1,470	596	-	26	2,092	2000
154	2,126	894	-	34	3,054	2010
255	2,881	1,202	458	37	4,578	2016
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
5.8	61.9	29.1	8.2	0.8	100.0	비중(%)
Others	Sub-Total	Building	Transport	Power Generation	Total	

Source: Korea Energy Agency, 「2022 Annual End-Use Energy Statistics」

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

Unit: Thousand toe

산업		건물	수송	합계	
산업기타	소계				
308	49,737	1,452	-	51,189	2000
2,062	68,594	2,181	-	70,775	2010
746	92,656	2,718	3,565	98,939	2016
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
0.9	94.4	2.9	2.6	100.0	비중(%)
Others	Sub-Total	Building	Transport	Total	

Source: Korea Energy Agency, 「2022 Annual End-Use Energy Statistics」



5-4. 에너지 및 자원사업 특별회계 자금지원 실적

	사업별 지원실적 (억원)				합계	
		집단 에너지공급 (억원)	에너지 절약시설 설치 (억원)	신재생에너지 보급 (억원)	에너지 절감량 (천toe)	대기오염물질 저감량 (톤)
2006	6,868	1,299	4,542	617	731	1,326
2007	6,404	1,000	5,400	563	769	1,487
2008	6,963	500	5,101	563	710	662
2009	6,250	-	5,118	563	659	-
2010	11,148	-	5,903	913	534	-
2011	12,924	-	5,144	1,118	555	-
2012	5,588	-	6,029	-	426	-
2013	6,029	-	5,551	-	438	-
2014	5,551	-	4,808	-	375	-
2015	4,808	-	4,590	-	361	-
2016	4,590	-	4,808	-	378	-
2017	3,500	-	3,500	-	261	-
2018	3,000	-	3,000	-	227	-
2019	2,824	-	2,824	-	216	-
2020	2,829	-	2,829	-	228	-
		Integrated Energy Supply	Energy Saving Facilities	Renewables Supply	Energy Reduction (Thou.toe)	Air Pollutant Reduction (Tons)
					Total	
		Financial Support by Business(100 Mil. KRW)				

주: CO₂ 저감량=에너지절감량×산업부문 에너지온실가스집약도(2,469톤 CO₂eq./toe)

자료: 한국에너지공단, 「2021 에너지 통계 핸드북」

5-4. Financial Support of the Special Accounts for Energy and Resources-Related Projects

에너지 이용합리화 자금 기대효과						
집단에너지 공급				에너지 절약시설 설치		
CO ₂ 저감량 (천톤 CO ₂ eq.)	에너지 절감량 (천toe)	대기오염물질 저감량 (톤)	CO ₂ 저감량 (천톤 CO ₂ eq.)	에너지 절감량 (천toe)	CO ₂ 저감량 (천톤 CO ₂ eq.)	
1,805	132	1,326	327	599	1,478	2006
1,900	109	1,487	269	660	1,631	2007
1,754	58	662	144	652	1,610	2008
1,626	-	-	-	659	1,626	2009
1,133	-	-	-	534	1,133	2010
1,177	-	-	-	555	1,177	2011
1,179	-	-	-	426	1,179	2012
940	-	-	-	438	940	2013
763	-	-	-	375	763	2014
893	-	-	-	361	893	2015
933	-	-	-	378	933	2016
626	-	-	-	261	626	2017
584	-	-	-	227	584	2018
520	-	-	-	216	520	2019
632	-	-	-	228	632	2020
CO ₂ Reduction (Thou. Tons CO ₂ eq.)	Energy Reduction (Thou.toe)	Air Pollutant Reduction (Tons)	CO ₂ Reduction (Thou. Tons CO ₂ eq.)	Energy Reduction (Thou.toe)	CO ₂ Reduction (Thou. Tons CO ₂ eq.)	
Integrated Energy Supply				Energy Saving Facilities		
Expected Effect of the Energy Use Rationalization Fund on Energy Reduction						

Note: CO₂ Reduction=Energy Reduction×Energy greenhouse gas intensity of industrial sector(2,469Ton CO₂eq./toe)

Source: Korea Energy Agency, 「2021 Energy Statistics Handbook」

5-5 해외자원개발 현황

	'09	'10	'11	'12	'13	'14	'15
□ 해외자원개발 사업수(누적)							
○ 석유·가스	275	301	341	359	367	372	376
〈진행사업〉	169	180	198	201	193	182	166
·생산	51	53	69	80	78	74	78
·개발	17	27	25	29	29	28	25
·탐사(조사)	101	100	104	92	86	80	63
〈종료사업〉	106	121	143	158	174	190	210
○ 일반광물	376	419	450	483	508	519	525
〈진행사업〉	271	289	307	331	343	345	334
·생산	47	57	68	67	75	75	74
·개발	86	90	89	105	110	109	108
·탐사(조사)	138	142	150	159	158	161	152
〈종료사업〉	105	130	143	152	165	174	191
□ 자원개발률(%)							
·석유·가스	9.0	10.8	13.7	13.8	13.6	14.4	15.5
·유연탄	43.7	48.3	52.2	57.7	55.9	55.4	52.8
·우라늄	1.1	3.5	6.6	8.1	10.9	11.1	4.2
·철	14.2	12.7	15.3	14.5	21.6	18.0	15.1
·동	5.1	6.1	10.2	11.4	10.5	10.7	5.5
·아연	33.8	34.5	24.7	19.9	21.2	21.5	21.2
·니켈	32.6	37.6	30.5	31.9	45.8	61.7	68.9
□ 투자현황(백만 \$)							
·총계	-	-	-	8,486	6,950	6,323	4,260
·석유·가스	-	-	-	6,644	4,516	4,395	3,831
·일반광물	-	-	-	1,842	2,434	1,928	429

자료: 통계청(e-나라지표)

주: '22년 말 기준 누적 투자실적은 85,394백만불임(석유가스 65,515, 광물 19,879)

5-5. Overseas Resources Development

'16	'17	'18	'19	'20	'21	'22	
☐ Number of Businesses(Accumulative)							
378	380	380	383	386	388	391	○ Oil ·Gas
141	131	122	119	118	110	105	〈Ongoing Business〉
81	79	73	70	69	62	56	·Production
19	12	11	11	10	10	10	·Development
41	40	38	38	39	38	39	·Exploration(Investigation)
237	249	258	264	268	278	286	〈Expired Business〉
533	538	544	547	549	551	553	○ General Mineral
335	322	316	308	301	291	289	〈Ongoing Business〉
78	75	75	75	72	67	-	·Production
107	105	101	100	95	94	-	·Development
150	142	140	133	134	130	-	·Exploration(Investigation)
198	216	228	239	248	260	264	〈Closed Business〉
☐ Self-Development Ratio(%)							
14.9	12.7	12.5	13.3	12.0	10.7	10.5	·Oil ·Gas
49.9	37.6	29.9	32.2	34.3	41.2	40.6	·Butuminous
4.0	4.0	3.1	3.3	1.4	-	-	·Uranium
27.9	26.2	31.8	32.0	34.3	34.0	43.4	·Iron
6.5	8.0	7.7	10.0	12.2	8.3	10.3	·Copper
22.8	20.6	19.9	20.7	21.5	21.6	19.4	·Zinc
63.2	61.8	55.2	55.0	47.2	44.8	44.0	·Nikel
☐ Investment(Mil. USD)							
2,396	1,747	1,799	2,061	1,409	2,392	-	·Total
1,802	1,289	1,424	1,392	1,137	1,928	-	·Oil ·Gas
594	458	375	669	272	464	-	·General Mineral

Source: Statistics Korea(e-National indicators)

Note: As of the end of 2022, the cumulative overseas resource development investment was \$85,394 million (\$65,515 million for oil and gas, \$19,879 million for minerals)

5-6. 유류관련 세율 변화

단계	종류	년도	원유	휘발유	경유	등유	B-C유
수입 단계	관세	2001.1	기본5(할당1)	기본8(할당7)			
		2004.4.30	기본5(할당1)	기본8(할당5)			
		2007.7.1	기본3(할당1)	기본5(할당3)			
		2008.4.1	기본3(할당1)	기본5(할당1)			
		2009.2.1	기본3(할당2)	기본5(할당2)			
		2009.3.1	기본3(할당...)	기본5(할당3)			
		2012.1.1	기본3(할당...)	기본3(할당-)			
		2015.1.1	기본3(할당1)	기본3(할당-)			
		2016.1.1	기본3(할당0.5)	기본3(할당-)			
	수입 부과금	2001.3.1	14원/L				
		2003.2.17	8원/L				
		2003.3.12	4원/L				
		2004.1.1	14원/L				
		2004.4.30~12.31	8원/L				
		2005.1.1	14원/L				
판매 단계	개별소비세[(구) 특별소비세]	2004.7.1	-	-	-	154원	11원
		2005.7.1	-	-	-	↓	15원
		2006.1.1	-	-	-	134원	↓
		2006.7.1	-	-	-	↓	17원
		2008.1.1	-	-	-	63원	↓
		2008.4.1	-	-	-	90원	↓
		2008.12.1	-	-	-	63원	↓
		2009.3.1	-	-	-	90원	↓
		2014.7.1	-	-	-	63원	↓
	교통세 (교통에너지환경세)	2004.3.1	-	559원	255원	-	-
		2004.7.1	-	545원	287원	-	-
		2005.7.1	-	535원	323원	-	-
		2006.7.1	-	526원	351원	-	-
		2007.7.23	-	505원	358원	-	-
		2008.3.5	-	472원	335원	-	-
		2008.10.7	-	462원	328원	-	-
		2009.1.1	-	514원	364원	-	-
		2009.5.21	-	529원	375원	-	-
		2018.11.6	-	450원	319원	-	-
		2019.5.7	-	492원	349원	-	-
		2019.9.1	-	529원	375원	-	-
		2021.11.12	-	423원	300원	-	-
		2022.5.1	-	370원	263원	-	-
		2022.7.1	-	332.5원	238원	-	-
		2023.1.1	-	396.7원	↓	-	-
Stage	Type	Year	Crude Oil	Gasoline	Diesel	Kerosene	B-C

* 1996. 1월부터 특수세/교통세를 중가세→종량세로 전환, 1996. 7월부터 교육세(특수세/교통세의 15%) 부과
자료: 대한석유협회

5-6. Oil-Related Tax Rate

단계	종류	년도	원유	휘발유	경유	등유	B-C유
	교육세	2005.7.1	-	80.25원	48.45원	↓	2.25원
		2006.1.1	-	↓	↓	20.1원	↓
		2006.7.1	-	78.90원	52.65원	↓	2.55원
		2007.7.23	-	75.75원	53.70원	↓	↓
		2008.1.1	-	↓	↓	9.50원	↓
		2008.3.5	-	70.80원	50.25원	↓	↓
		2008.4.1	-	↓	↓	13.50원	↓
		2008.10.7	-	69.30원	49.40원	↓	↓
		2008.12.1	-	↓	↓	9.50원	↓
		2009.1.1	-	77.10원	54.60원	↓	↓
		2009.3.1	-	↓	↓	13.50원	↓
		2009.5.21	-	79.35원	56.25원	↓	↓
		2014.7.1	-	↓	↓	9.45원	↓
		2018.11.6	-	67.50원	47.85원	↓	↓
		2019.5.7	-	73.80원	52.35원	-	-
		2019.9.1	-	79.35원	56.25원	-	-
		2021.11.12	-	63.45원	45원	-	-
		2022.5.1	-	55.50원	39.45원	-	-
		2022.7.1	-	49.88원	35.70원	-	-
		2023.1.1	-	59.51원	↓	-	-
	자동차 주행에대한 자동차세	2003.7.1	-	85.51원	39.02원	-	-
		2004.3.1	-	100.62원	45.9원	-	-
		2004.7.1	-	117.18원	61.71원	-	-
		2005.7.1	-	128.4원	77.52원	-	-
		2006.7.1	-	139.39원	93원	-	-
		2007.7.23	-	164.12원	116.35원	-	-
		2008.3.5	-	127.44원	90.45원	-	-
		2008.10.7	-	138.6원	98.4원	-	-
		2009.1.1	-	154.2원	109.2원	-	-
		2009.5.21	-	137.54원	97.5원	-	-
		2018.11.6	-	117.00원	82.94원	-	-
		2019.5.7	-	127.92원	90.74원	-	-
		2019.9.1	-	137.54원	97.50원	-	-
		2021.11.12	-	109.98원	78원	-	-
		2022.5.1	-	96.20원	68.38원	-	-
		2022.7.1	-	86.45원	61.88원	-	-
		2023.1.1	-	103.14원	↓	-	-
	판매 부과금	1995.11	-	-	-	20원	-
		2001.7.1	-	-	-	23원	-
		2008.1.1	-	-	-	폐지	-
	VAT	1992.1	-	10%			
Stage	Type	Year	Crude Oil	Gasoline	Diesel	Kerosene	B-C

5-7. 석유수입/판매부과금 개요(2023)

*자료: 대한석유협회

○ 근거: 석유 및 석유대체연료 사업법 제18조, 제37조

○ 목적: 석유의 수급 및 가격안정

○ 징수 대상자

- 석유(LNG 포함)를 수입하거나 석유제품을 판매하는 석유정제업자·석유수출입업자 또는 석유판매업자
- 석유대체연료를 수입하거나 판매하는 석유대체연료 제조·수출입업자
- 국제 석유가격의 현저한 등락으로 인하여 지나치게 많은 이윤을 얻게 되는 석유정제업자 또는 석유수출입업자

○ 부과기준

- 수입부과금
 - 원유 및 석유제품: 16원/L(2006.2.7부터)
 - 석유대체연료: 16원/L. 단, 유화연료유는 11원/L(2006.2.7부터)
 - LNG: 24,242원/톤('07.1.1부터 '19.3.31까지)
 - 발전용 3,800원/톤, 발전용 외 24,242원/톤('19.4.1부터)
 - 판매 부과금
 - 고급 휘발유: 36원/L(2000.7.29부터)
 - 부탄: 62,283원/톤(2005.7.8부터)
- * 단, 부탄의 판매부과금은 43,600원/톤으로 한시적으로 인하(2022.5월~12월)

5-7. Summary of Imports and Sales Charges on Petroleum(2023)

○ 징수 실적

단위: 백만원

Unit: Million KRW

구분	수입 부과금			판매 부과금	합계
	계	석유	LNG		
2010	1,664,631	872,762	791,869	280,158	1,944,789
2011	1,705,714	852,735	852,979	252,651	1,958,365
2012	1,729,581	839,728	889,853	277,899	2,007,480
2013	1,802,818	829,853	972,965	252,014	2,054,832
2014	1,601,095	729,930	871,165	240,595	1,841,690
2015	1,640,742	848,448	792,294	240,454	1,881,196
2016	1,571,772	797,348	774,424	222,128	1,793,900
2017	1,596,292	714,659	881,633	217,863	1,814,155
2018	1,794,917	756,000	1,038,917	216,317	2,011,234
2019	1,408,599	744,526	664,073	195,469	1,604,068
2020	1,115,179	569,744	545,405	192,224	1,307,403
2021	1,298,172	709,264	588,908	186,740	1,484,912
2022	1,509,245	954,801	554,444	151,394	1,660,639

주: 총징수 금액에서 환급액을 제외한 순징수 금액임.

○ 용도: 에너지 및 자원사업 특별회계의 세입으로 전입

06

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부록

Appendices



06 부록

1. 에너지 열량 환산기준
2. 단위 환산표
3. 용어해설

06 Appendices



1. Energy Conversion Factors
2. Unit Conversion Factors
3. Glossary

1. 에너지 열량 환산기준

에너지법 시행규칙 제5조 제1항

Energy Conversion Factors

2022년 11월 21일 개정(2022년 1월부터 적용)

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
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
	유연탄(원료용)	kcal/kg	6,600	6,600	6,600	6,600	7,000	7,000	6,970	7,030
	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

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

2. 단위 환산표

Unit Conversion Factors

① 에너지

단위	TJ	Gcal	Mtoe	MBtu	GWh	Units
TJ	1	238.8	2.388×10^{-5}	947.8	0.2778	TJ
Gcal	4.1868×10^{-3}	1	10^{-7}	3.968	1.163×10^{-3}	Gcal
Mtoe	4.1868×10^{-4}	10^7	1	3.968×10^{-7}	1.163	Mtoe
MBtu	1.0551×10^{-3}	0.252	2.52×10^{-8}	1	2.931×10^{-4}	MBtu
GWh	3.6	860	8.6×10^{-5}	3412	1	GWh

② 무게

단위	kg	tonne	Long ton(lt)	Short ton(st)	pound(lb)	Units
kg	1	0.001	9.84×10^{-4}	1.102×10^{-3}	2.2046	kg
tonne	1000	1	0.984	1.1023	2204.6	tonne
Long ton(lt)	1016	1.016	1	1.120	2240.0	Long ton(lt)
Short ton(st)	907.2	0.9072	0.893	1	2000.0	Short ton(st)
pound(lb)	0.454	4.54×10^{-4}	4.46×10^{-4}	5.0×10^{-4}	1	pound(lb)

③ 부피

단위	m³	liter	ft³	gal(U.S)	gal(U.K)	bbl	Units
m³	1	10^3	35.3146	264.1721	219.969	6.2892	m³
liter	10^{-3}	1	0.0353	0.2641	0.2199	6.2892×10^{-3}	liter
ft³	2.8316×10^{-2}	28.3168	1	7.4805	6.2288	0.178	ft³
gal(U.S)	3.7854×10^{-3}	3.7854	0.1336	1	0.8326	0.0238	gal(U.S)
gal(U.K)	0.004561	4.5461	0.1605	1.2009	1	0.0285	gal(U.K)
bbl	0.1589	158.988	5.6146	42	34.9726	1	bbl

3. 용어해설

◇ 가계소비지출

일정한 기간 동안에 가구에서 가구원의 생활에 필요한 재화나 용역을 구입한 대가로 지출되는 일체의 비용을 일컬음

◇ 경상수지

물건이나 서비스를 외국과 사고 파는 거래(상품수지), 우리나라국민이 외국에 나가서 일을 하거나 외국인이 우리나라에 들어와서 일을 하면서 발생하는 소득 등에 대한 수입의 지출의 차이(소득수지), 해외여행, 유학, 연수 등의 서비스수지에 경상이전수지(기부금, 정부의 무상원조 등 대가 없이 주고받은 거래의 차액) 등 4가지를 합쳐 계산함

◇ 경제활동인구

일정기간 중 경제재와 서비스 생산에 필요한 노동공급에 기여한 모든 사람

◇ 국내총생산

한 나라의 모든 경제주체가 일정기간 동안에 생산한 재화와 용역의 부가가치를 금액으로 환산하여 합계한 것으로 각 부문의 생산활동은 물론 소비, 투자, 수출 등 수요동향까지도 살펴볼 수 있는 종합적인 지표

◇ 국민총소득

한 나라의 국민이 일정 기간 생산활동에 참여한 대가로 벌어들인 소득의 합계로서, 실질적인 국민소득을 측정하기 위하여 교역조건의 변화를 반영한 소득지표

◇ 근로시간

취업자가 일하는 시간으로 근로기준법 제42조에 의하면, 근로시간은 휴식시간을 제하고 1일 8시간, 1주일에 40시간을 초과할 수 없음.

다만, 당사자간의 합의에 의하여 1주일에 12시간 한도로 연장근로를 시킬 수 있음.

◇ 나프타

원유를 증류할 때, 35~220℃의 끓는점 범위에서 유출되는 탄화수소의 혼합체로 가솔린유분과 실질적으로 동일함. 이 유분을 내연기관의 연료 이외의 용도로, 특히 석유화학 원료 등으로 사용함.

◇ 두바이유

중동의 아랍에미리트에서 생산되는 원유로, 영국의 북해산 브렌트유, 미국의 서부텍사스유(WTI)와 함께 세계 3대 유종으로 꼽히며 중동 지역을 대표하기 때문에 중동산 두바이유로 불림

◇ 매립지가스

폐기물을 땅에 묻었을 때 일정 기간이 지난 뒤 발생하는 이산화탄소나 메테인가스임

◇ 명목국내총생산(명목GDP)

우리나라 영토내에서 이루어진 총생산을 나타내는 개념으로, 각 생산물에 단위당 부가가치를 곱하여 화폐금액으로 표시한 다음 이들 화폐금액을 합계하여 추계하고 있음

◇ 명목국민총소득(명목GNI)

한 나라의 국민이 국내외에서 생산 활동에 참여해 그 대가로 받은 소득의 합계를 당해 가격으로 평가한 지표임 최종생산물의 생산량에 당해년 가격을 적용해 산출하기 때문에 생산량의 변동 뿐 아니라 가격의 변동에 의해서도 영향을 받음

◇ 무연탄

탄화가 잘 되어 연기를 내지 않고 연소하는 석탄으로 휘발분이 3~7%로 적고 고정탄소의 함량이 85~95%로 높음

◇ 바이오가스

미생물 등을 사용해서 생산된 수소·메테인 등과 같은 가스 상태의 연료로 에너지 소비의 일부를 보충할 수 있음

◇ 바이오디젤

콩기름·유채기름·폐식물기름·해조유파위의 식물성 기름을 원료로 해서 만든 무공해 연료를 통틀어 일컬음.
주로 경유를 사용하는 디젤자동차의 경유 첨가제 또는 그 자체로 차량 연료로 사용됨

◇ 벙커링

국적이나 선박종류에 구분없이 외항선박에 공급되는 연료유의 양을 말함

◇ 벤젠

용해제, 염료, 향료, 폭약, 백혈병 치료제, 살충제 따위의 원료로 쓰임 콜타르를 증류하고 정제하여 만든 방향족 탄화수소임

◇ 부타디엔

합성고무의 원료로 사용되며 두 개의 이중 결합을 가진, 탄소 원자 네 개의 사슬 모양 불포화 탄화수소임

◇ 브렌트유

영국 북해 지역에서 생산되는 원유로 유럽과 아프리카 지역에서 거래되는 원유 가격을 결정하는 기준 원유임. 거래는 런던의 국제석유거래소(IPE)에서 주로 선물로 거래됨.

◇ 비에너지유

에너지유를 제외한 석유제품으로서 주로 타제품의 원료로 사용되는 나프타, 용제, 아스팔트 등을 말함

◇ 산업생산지수

특정한 해를 100으로 기준으로 그 해의 공공업생산량을 비교하기 위하여 어느 해의 생산량을 백분비로 나타낸 지수

◇ 생산자물가지수

일정 시점의 연평균 물가를 100으로 잡고 가격변화 추이를 수치로 나타낸것으로 조사 당시의 전반적인 물가수준을 측정할 수 있음

◇ 석유환산톤(TOE, Ton of Oil Equivalent)

여러가지 단위로 표시되는 각종에너지원들을 원유 1톤이 발열하는 칼로리 (Cal)을 기준으로 표준화한 단위. 석유의 단위는 배럴, 무연탄의 단위는 톤, 가스의 단위는 갤런 등으로 각 에너지원의 단위가 다르고 또한 세계 단위로의 에너지 소비량을 측정하기 어려우므로, 가장 보편적이고 사용량이 높은 원유를 기준으로한 계산법임. 원유 1톤의 발열량 107Kca l을 1toe로 정의함.

◇ 소비자물가지수

일반 도시가계가 소비생활을 영위하기 위해 구입하는 각종 상품(소비재) 및 개인서비스의 가격변동을 측정하는 대표적인 물가지수이며 일정량의 상품 및 서비스를 경상가격으로 구입할 수 있는 비용의 변동을 나타냄

◇ 신재생에너지

태양열, 태양광, 풍력, 조력, 지열처럼 자연 상태에서 만들어진 에너지를 일컫는 말로 2004년부터 산업자원부에서 대체에너지(alternative energy)란 단어 대신 사용하고 있음

◇ 실질국내총생산(실질GDP)

국내경제의 생산활동 동향을 나타내는 경제성장률 산정에 이용되는 지표로서 국내에서 생산된 최종생산물의 수량에 기준년도(현재 2010년)의 가격을 곱하여 산출한 물량측정치이므로 실질 GDP의 변동분은 가격 변화분을 제거한 순수한 생산수량의 변동분만을 나타냄

◇ 실질국민총소득(실질GNI)

한 나라의 국민이 국내의 생산활동에 참여한 대가로 받은 소득의 실질 구매력을 나타내는 지표로서 실질 국내총생산에 교역조건 변화에 따른 무역 손익과 대내의 지급 이자, 배당, 임금 등 차액을 반영한 것으로 국민들이 피부로 느끼는 체감경기를 보다 잘 반영하는 실질구매력 지표임

◇ 에너지수입의존도

일반적으로 에너지수입의존도는 1차 에너지공급량에서 순수입에너지의 비중을 의미하나 국내수입의존도는 1차에너지소비중 수입에너지의 비중을 의미

◇ 에너지유

발전 내연기관 램프 취사기구 난방기구 등에 동력 및 열 등으로 사용되는 석유제품으로서 휘발유, 등유, 경유, 경질중유, 중유, 방카C유, 항공유, 프로판, 부탄 등을 말함

◇ 에틸렌

에틸렌은 주로 각종 화합물의 원료로 사용되며 특히 합성수지인 폴리에틸렌 제조의 원료로 많이 사용됨

◇ 연료전기

연료의 연소 에너지를 열로 바꾸지 않고 직접 전기 에너지로 바꾸는 전지임
값비싼 촉매를 필요로 하기 때문에 우주 로켓이나 등대 등의 특수한 용도에 쓰임

◇ 우드칩

건축용 목재로 사용하지 못하는 뿌리와 가지, 기타 임목 폐기물을 분리해낸 뒤 연소하기 쉬운 칩 형태로 잘게 만든 열병합발전 원료

◇ 원료탄(혹은 점결탄)

석탄을 건류·연소할 때 석탄입자가 연화융용하여 서로 점결하는 성질이 있는 석탄
고생대나 중생대의 지층에서 산출되며 석탄자원 중 가장 중요한 용도를 가지고 있음

◇ 유연탄

무연탄에 대응하는 석탄의 분류 명칭이며 이탄, 아탄, 갈탄, 역청탄 등이 속함 다량의 휘발분을 함유하고 있으며 발전용으로 사용됨

◇ 제조업가동률지수

설비가동의 절대수준을 나타내는 것이 아니라 기준연도의 가동률을 100으로 하였을 때 비교사의 가동상태가 어느 수준인가를 나타내는 지수

◇ 조강

제강로에서 제조된 그대로의 가공되지 않은 강철

◇ 총발열량

연료의 연소과정에서 발생하는 수증기의 잠열을 포함한 발열량

◇ 최종에너지

최종에너지는 최종 소비부문의 에너지 이용설비에 알맞은 형태로 사용되는 에너지로서, 1차에너지중 일정한 전환과정을 거쳐서 다른 형태의 에너지로 전환되는 것을 의미함

◇ 크실렌

독과 휘발성이 있으며 용제로 널리 쓰이며 합성수지, 물감, 의약 따위의 원료로 쓰임
벤젠의 수소 원자 두 개가 메틸과 바뀌어 된 무색 액체

◇ 톨루엔

공업용 화학약품, 벤조산·사카린·염료 따위를 만드는 등 많은 물질을 합성하는 원료로 사용됨.
벤젠의 수소원자 1개를 메틸기로 치환한 화합물로 무색의 액체임

◇ 프로필렌

액화석유가스와 중합가솔린의 제조원료 및 석유화학원료로 사용되어 그 용도가 매우 큼
또한 합성섬유를 제조하는데도 사용됨

◇ 1인당 국민총소득(1인당GNI)

명목GNI를 국민의 수로 나눈값으로 국민1인당 소득을 나타내는 지표임

◇ 1차에너지

천연상태에서 얻을 수 있는 형태의 에너지로 다른 에너지의 생성을 위해 소비되는 가장 기본적인 형태의 에너지임. 석유, 석탄, LNG, 원자력, 수력등이 이에 해당됨

◇ OPEC (석유수출국기구, Organization of Petroleum Exporting Countries)

국제석유자본(석유메이저)에 대한 발언권을 강화하기 위하여 1960년 결성한 조직임
2007년기준으로 12개국이 가입되어 있으며 본부는 오스트리아 빈에 있음

◇ WTI (서부텍사스유, West Texas Intermediate)

국제 원유 가격을 결정하는 기준 원유로, 미국 서부 텍사스와 오클라호마주 일대에서 생산된 대표적인 경질유(Light crude oil)이자 저유황유이며, 미국 국내와 아메리카 지역의 기준 유종임

2023

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