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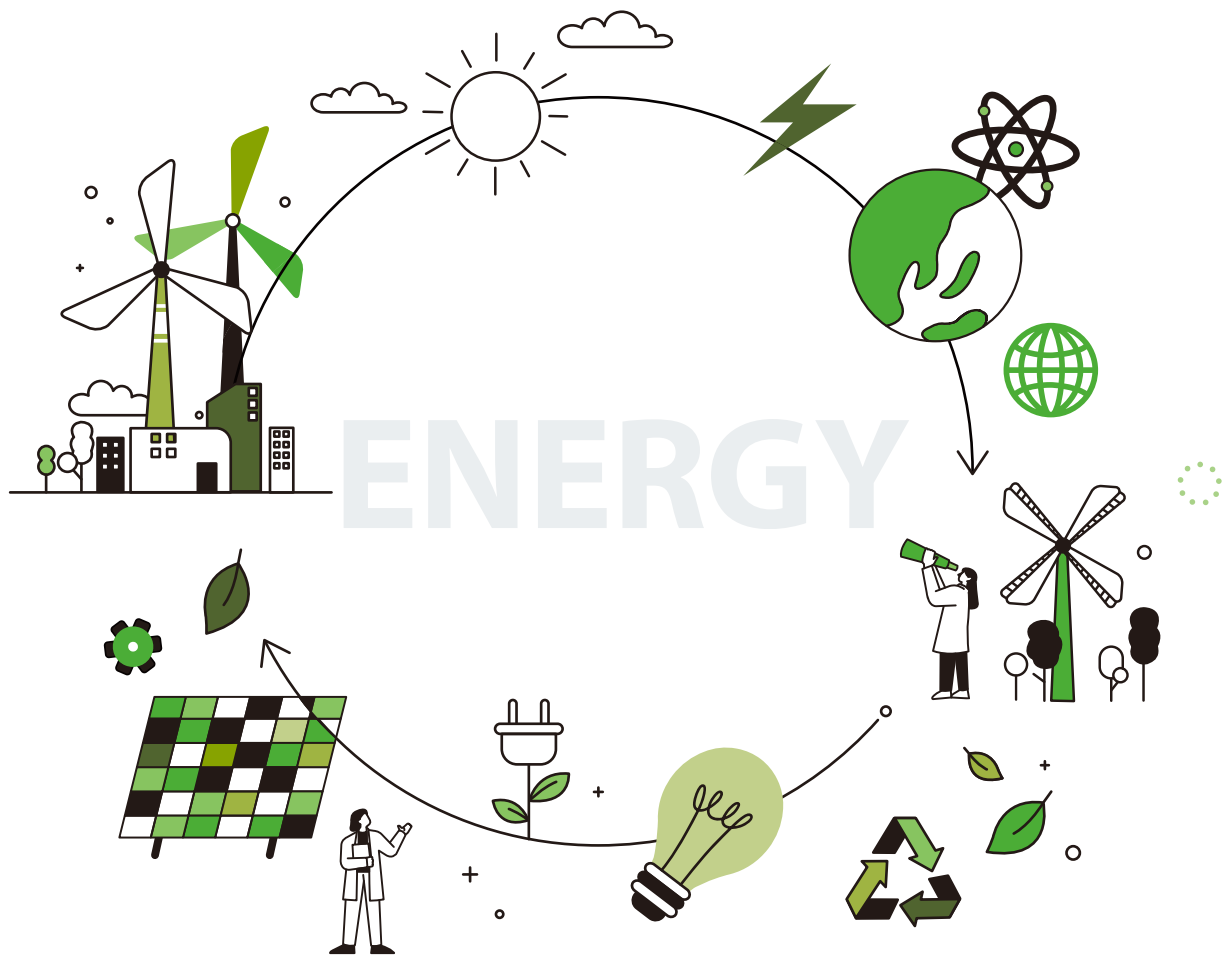
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에너지통계연보

Yearbook of Energy Statistics

2021년 자료 | Data up to 2021



산업통상자원부

에너지경제연구원
Korea Energy Economics Institute



약어 및 부호 Abbreviations and Conventional Signs

kcal : Kilocalorie(킬로 칼로리)

GWh : Gigawatt hour(기가와트아워)

MWh : Megawatt hour(메가와트아워)

t : Metric Ton(메트릭톤) = Tonne = 1,000kg

toe : Tonne of Oil Equivalent(티오이; 석유환산톤) = 10^7 kcal

BPSD : Barrel per Stream Day

CIF : Cost, Insurance and Freight

FOB : Free on Board

- Nil(없음)

p Preliminary(잠정값)

... Not available(해당없음)

e Estimate(추정값)

열량환산계수 적용안내

에너지법 시행규칙 제5조제1항에 의거

2007년부터 매 5년마다 변경된 열량을 적용하고 있으니 이용에 유의하시기 바랍니다.



에너지경제연구원
Korea Energy Economics Institute

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1. 일러두기 Explanatory Notes

1. 에너지밸런스 개정에 따른 에너지통계연보 통계량의 변화

■ 에너지경제연구원은 에너지수급통계 생산을 위한 작성 틀인 에너지밸런스를 전면 개정하였으며, 개정된 에너지밸런스는 새로운 에너지수급통계 작성 방법으로 통계변경 승인을 완료(2022.10.17.)함.

- 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 표현한 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.

■ 개정된 에너지밸런스의 구성요소와 구조는 ‘부록·주요용어’를 참고

2. 에너지수급통계 작성 개요

가. 통계작성 근거

- 에너지법 제19조(에너지 관련 통계의 관리·공표)
- 에너지법 시행령 제15조의2(전문기관의 지정)

나. 통계작성 승인 내용

- 통계의 명칭 : 에너지수급통계
- 통계작성기관 : 에너지경제연구원(<http://www.keei.re.kr>)
- 통계의 종류 : 일반, 보고통계
- 작성주기 : 매월/매년
- 통계작성 승인번호 : 제339001호(2002.04.02.)
- 통계작성 목적 : 에너지 수요와 공급에 영향을 미치는 여러가지 요인을 비교·분석함으로써 에너지 수요전망, 에너지효율분석 등 각종 에너지정책 수립을 위한 연구의 기초자료로 활용

다. 연혁

- 1982년 11월: 에너지통계연보 초안 작성
- 1983년 11월: 에너지통계연보 작성 발간
- 1994년: 통계청 승인 간행물
- 1997년: 지역에너지통계연보 준비호 발간
- 1998년: 지역에너지통계연보 제1호 발간
- 2002년 4월: 통계작성 승인(제339001호, 2002.04.02)
- 2008년 2월: 작성기관 변경(산업자원부 → 지식경제부)
- 2008년 6월: 작성기관 변경(지식경제부 → 에너지경제연구원)
- 2022년 10월: 통계변경 승인(에너지밸런스 개정)

라. 작성 방법

- “에너지통계의 작성 등에 관한 규정”(산업통상자원부 고시 제2020-40호) 제4조의 에너지수급통계 작성기관에서 매월 생산 및 판매실적을 보고 받아 에너지경제연구원서 에너지밸런스 및 국가에너지수급 관련 통계를 작성
- ※ '사. 에너지수급통계 작성 체계' 참조

1. 일러두기 Explanatory Notes

마. 작성 내용

- 에너지생산 및 수·출입: 국내생산, 수입, 수출, 국제병커링, 일차에너지공급, 재고 등
- 일차에너지소비 및 전환(발전, 석유제품생산 및 가스제조, 에너지산업 자체소비 및 손실 등)
- 최종소비
 - 산업부문: 농림업, 어업, 광업, 제조업(12개업종), 건설업
 - 수송부문: 철도, 도로, 국내해운, 국내항공
 - 가정부문
 - 상업·공공 부문

바. 결과 공표

- 작성주기
 - 에너지통계월보 발간: 매월 15일경
 - 에너지통계연보 발간: 매년 12월경
 - 지역에너지통계연보 발간: 매년 12월경
- 공표주기
 - 월간통계: 작성기준 월 3개월 후
 - 연간통계: 작성기준 익년 12월
- 웹사이트: 국가에너지통계종합정보시스템(KESIS: Korea Energy Statistical Information System)
 - www.kesis.net

사. 에너지수급통계 작성 체계



2. 단위 및 열량환산표 Unit Conversion Factors

가. 부피

Units	m ³	cm ³	liter	in ³	ft ³	미gal	영gal	bbl
1 m ³	1	10 ⁶	10 ³	6.102374×10 ⁴	35.31467	264.1721	219.969	6.2892
1 cm ³	10 ⁻⁶	1	10 ⁻³	0.06102374	3.531467×10 ⁻⁵	2.641721×10 ⁻⁴	2.19969×10 ⁻¹	0.62892×10 ⁻⁵
1 liter	10 ⁻³	1000	1	61.02374	0.03531467	0.2641721	0.219969	6.2892×10 ⁻³
1 in ³	1.638706×10 ⁻⁵	16.38706	0.01638706	1	5.787037×10 ⁻⁴	4.329004×10 ⁻³	3.60465×10 ⁻³	0.10306×10 ⁻³
1 ft ³	2.831685×10 ⁻²	28316.85	28.31685	1728	1	7.480520	6.2288	0.178
1 gal(U.S)	3.785412×10 ⁻³	3785.412	3.785412	231	0.1336806	1	0.83268	0.023809
1 gal(U.K)	0.004561	4546.1	4.5461	277.42	0.160544	1.20094	1	0.028571
bbl	0.158988	158988	158.988	9.702	5.6146	42	34.9726	1

나. 무게

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

다. 에너지

Units	J	cal	Btu	kW hr	hp hr	ft-lb(wt)
1 J	1	0.2388853	9.479735×10 ⁻⁴	2.778236×10 ⁻⁷	3.725676×10 ⁻⁷	0.7376839
1 cal	4.186109	1	3.968321×10 ⁻³	1.163000×10 ⁻⁶	1.559609×10 ⁻⁶	3.088025
1 Btu	1054.882	251.9958	1	2.930711×10 ⁻⁴	3.930148×10 ⁻⁴	778.1693
1 kW hr	3599406	859845.2	3412.142	1	1.341022	2655224
1 hp hr	2684077	641186.5	2544.33	0.7456998	1	1980000
1 ft-lb(wt)	1.355594	0.3238315	1.285067×10 ⁻³	3.766161×10 ⁻⁷	5.050505...×10 ⁻⁷	1

라. 비중과 톤당 용적(60°F 기준)

API	비 중	배럴/메트릭톤	배럴/롱톤
25	0.904	6.98	7.09
26	0.898	7.02	7.13
27	0.893	7.06	7.18
28	0.887	7.10	7.22
29	0.882	7.15	7.27
30	0.876	7.19	7.31
31	0.871	7.24	7.36
32	0.865	7.28	7.40
33	0.860	7.33	7.45
34	0.855	7.37	7.49
35	0.850	7.42	7.54
36	0.845	7.46	7.58
37	0.840	7.51	7.63
38	0.835	7.55	7.67
39	0.830	7.60	7.72
40	0.825	7.64	7.76
41	0.820	7.69	7.81
42	0.816	7.73	7.85

마. 단위의 배수

명 칭	기 호	크 기
Tera	T	10 ¹²
Giga	G	10 ⁹
Mega	M	10 ⁶
Kilo	k	10 ³
Hecta	h	10 ²
Deca	da	10 ¹
Deci	d	10 ⁻¹
Centi	c	10 ⁻²
Milli	m	10 ⁻³
Micro	μ	10 ⁻⁶
Nano	n	10 ⁻⁹
Pico	p	10 ⁻¹²
Femto	f	10 ⁻¹⁵
Atto	a	10 ⁻¹⁸

바. 석유제품환산표

구 분	배럴→톤	톤→배럴	배럴/일→톤/년	톤/년→배럴/일
원유	0.136	7.33	49.8	0.0201
휘발유	0.118	8.45	43.2	0.0232
등유	0.128	7.80	46.8	0.0214
경유	0.133	7.50	48.7	0.0205
중유	0.149	6.70	54.5	0.0184

※ 세계평균비중

자료: BP Statistical Review of World Energy

2. 단위 및 열량환산표 Unit Conversion Factors

사. 원유환산표

구 분	톤 (메트릭톤)	롱 톤	숏 톤	배럴	입방미터 (m ³)	1천 갤런 (영)	1천 갤런 (미)
톤 (메트릭톤)	1	0.984	1.102	7.33	1.16	0.256	0.308
롱톤	1.016	1	1.120	7.45	1.18	0.261	0.313
숏톤	0.907	0.893	1	6.65	1.05	0.233	0.279
배럴	0.136	0.134	0.150	1	0.159	0.035	0.042
입방미터(m ³)	0.863	0.849	0.951	6.29	1	0.220	0.264
천 갤런(영)	3.91	3.83	4.29	28.6	4.55	1	1.201
천 갤런(미)	3.25	3.19	3.58	23.8	3.79	0.833	1

자료 : BP.com

3. 에너지 열량 환산기준 Energy Conversion Factors

가. 7차 에너지열량 환산기준(2017년 1월 통계부터 적용)

2017년 12월 28일 개정(2017년 1월부터 적용)

에너지원		단위	총발열량			순발열량		
			MJ	kcal	석유환산톤 (10 ⁻³ toe)	MJ	kcal	석유환산톤 (10 ⁻³ toe)
석유 (17종)	원유	kg	45.0	10,750	1.075	42.2	10,080	1.008
	휘발유	ℓ	32.7	7,810	0.781	30.4	7,260	0.726
	등유	ℓ	36.7	8,770	0.877	34.2	8,170	0.817
	경유	ℓ	37.8	9,030	0.903	35.2	8,410	0.841
	B-A유	ℓ	39.0	9,310	0.931	36.4	8,690	0.869
	B-B유	ℓ	40.5	9,670	0.967	38.0	9,080	0.908
	B-C유	ℓ	41.7	9,960	0.996	39.2	9,360	0.936
	프로판(LPG1호)	kg	50.4	12,040	1.204	46.3	11,060	1.106
	부탄(LPG3호)	kg	49.5	11,820	1.182	45.7	10,920	1.092
	나프타	ℓ	32.3	7,710	0.771	29.9	7,140	0.714
	용제	ℓ	32.8	7,830	0.783	30.3	7,240	0.724
	항공유	ℓ	36.5	8,720	0.872	33.9	8,100	0.810
	아스팔트	kg	41.4	9,890	0.989	39.2	9,360	0.936
	윤활유	ℓ	40.0	9,550	0.955	37.3	8,910	0.891
	석유코크스	kg	35.0	8,360	0.836	34.2	8,170	0.817
	부생연료유1호	ℓ	37.1	8,860	0.886	34.6	8,260	0.826
	부생연료유2호	ℓ	39.9	9,530	0.953	37.7	9,000	0.900
가스 (3종)	액화천연가스(LNG)	kg	54.7	13,060	1.306	49.4	11,800	1.180
	도시가스(LNG)	Nm³	43.1	10,290	1.029	38.9	9,290	0.929
	도시가스(LPG)	Nm³	63.6	15,190	1.519	58.4	13,950	1.395
석탄 (7종)	국내무연탄	kg	19.8	4,730	0.473	19.4	4,630	0.463
	연료용 수입무연탄	kg	21.2	5,060	0.506	20.5	4,900	0.490
	원료용 수입무연탄	kg	25.2	6,020	0.602	24.7	5,900	0.590
	연료용 유연탄(역청탄)	kg	24.8	5,920	0.592	23.7	5,660	0.566
	원료용 유연탄(역청탄)	kg	29.2	6,970	0.697	28.0	6,690	0.669
	아역청탄	kg	21.4	5,110	0.511	19.9	4,750	0.475
	코크스	kg	29.0	6,930	0.693	28.9	6,900	0.690
전기 등 (3종)	전기(발전기준)	kWh	8.9	2,130	0.213	8.9	2,130	0.213
	전기(소비기준)	kWh	9.6	2,290	0.229	9.6	2,290	0.229
	신탄	kg	18.8	4,500	0.450	-	-	-

- 주 1) “총발열량”이란 연료의 연소과정에서 발생하는 수증기의 잠열을 포함한 발열량을 말한다.
 2) “순발열량”이란 연료의 연소과정에서 발생하는 수증기의 잠열을 제외한 발열량을 말한다.
 3) “석유환산톤”(toe: ton of oil equivalent)이란 원유 1톤이 갖는 열량으로 10⁷kcal를 말한다.
 4) 석탄의 발열량은 인수식을 기준으로 한다.
 5) 최종에너지사용자가 사용하는 전기에너지를 열에너지로 환산할 경우에는 1kWh=860kcal를 적용한다.
 6) 1cal=4.1868J, Nm³은 0℃ 1기압 상태의 단위체적(세제곱미터)을 말한다.
 7) 에너지원별 발열량(MJ)은 소수점 아래 둘째 자리에서 반올림한 값이며, 발열량(kcal)은 발열량(MJ)으로부터 환산한 후 1의 자리에서 반올림한 값이다. 두 단위 간 상충될 경우 발열량(MJ)이 우선한다.

3. 에너지 열량 환산기준 Energy Conversion Factors

나. 8차 에너지열량 환산기준(2022년 1월 통계부터 적용)

2022년 11월 21일 개정(2022년 1월부터 적용)

에너지원		단위	총발열량			순발열량		
			MJ	kcal	석유환산톤 (10 ⁻³ toe)	MJ	kcal	석유환산톤 (10 ⁻³ toe)
석유 (18종)	원유	kg	45.7	10,920	1.092	42.8	10,220	1.022
	휘발유	ℓ	32.4	7,750	0.775	30.1	7,200	0.720
	등유	ℓ	36.6	8,740	0.874	34.1	8,150	0.815
	경유	ℓ	37.8	9,020	0.902	35.3	8,420	0.842
	바이오디젤	ℓ	34.7	8,280	0.828	32.3	7,730	0.773
	B-A유	ℓ	39.0	9,310	0.931	36.5	8,710	0.871
	B-B유	ℓ	40.6	9,690	0.969	38.1	9,100	0.910
	B-C유	ℓ	41.8	9,980	0.998	39.3	9,390	0.939
	프로판(LPG1호)	kg	50.2	12,000	1.200	46.2	11,040	1.104
	부탄(LPG3호)	kg	49.3	11,790	1.179	45.5	10,880	1.088
	납사	ℓ	32.2	7,700	0.770	29.9	7,140	0.714
	용제	ℓ	32.8	7,830	0.783	30.4	7,250	0.725
	항공유	ℓ	36.5	8,720	0.872	34.0	8,120	0.812
	아스팔트	kg	41.4	9,880	0.988	39.0	9,330	0.933
	윤활유	ℓ	39.6	9,450	0.945	37.0	8,830	0.883
	석유코크스	kg	34.9	8,330	0.833	34.2	8,170	0.817
	부생연료유1호	ℓ	37.3	8,900	0.890	34.8	8,310	0.831
	부생연료유2호	ℓ	39.9	9,530	0.953	37.7	9,010	0.901
가스 (3종)	액화천연가스(LNG)	kg	54.7	13,080	1.308	49.4	11,800	1.180
	도시가스(LNG)	Nm³	42.7	10,190	1.019	38.5	9,190	0.919
	도시가스(LPG)	Nm³	63.4	15,150	1.515	58.3	13,920	1.392
석탄 (7종)	국내무연탄	kg	19.7	4,710	0.471	19.4	4,620	0.462
	연료용 수입무연탄	kg	23.0	5,500	0.550	22.3	5,320	0.532
	원료용 수입무연탄	kg	25.8	6,170	0.617	25.3	6,040	0.604
	연료용 유연탄(역청탄)	kg	24.6	5,860	0.586	23.3	5,570	0.557
	원료용 유연탄(역청탄)	kg	29.4	7,030	0.703	28.3	6,760	0.676
	아역청탄	kg	20.6	4,920	0.492	19.1	4,570	0.457
	코크스	kg	28.6	6,840	0.684	28.5	6,810	0.681
전기 등 (3종)	전기(발전기준)	kWh	8.9	2,130	0.213	8.9	2,130	0.213
	전기(소비기준)	kWh	9.6	2,290	0.229	9.6	2,290	0.229
	신탄	kg	18.8	4,500	0.450	-	-	-

- 주 1) “총발열량”이란 연료의 연소과정에서 발생하는 수증기의 잠열을 포함한 발열량을 말한다.
 2) “순발열량”이란 연료의 연소과정에서 발생하는 수증기의 잠열을 제외한 발열량을 말한다.
 3) “석유환산톤”(toe: Ton of oil equivalent)이란 원유 1톤이 갖는 열량으로 10⁷kcal를 말한다.
 4) 석탄의 발열량은 인수식을 기준으로 한다.
 5) 최종에너지사용자가 사용하는 전기에너지를 열에너지로 환산할 경우에는 1kWh=860kcal를 적용한다.
 6) 1cal=4.1868J, Nm³은 0℃ 1기압 상태의 단위체적(세제곱미터)을 말한다.
 7) 에너지원별 발열량(MJ)은 소수점 아래 둘째 자리에서 반올림한 값이며, 발열량(kcal)은 발열량(MJ)으로부터 환산한 후 1의 자리에서 반올림한 값이다. 두 단위 간 상충될 경우 발열량(MJ)이 우선한다.

3. 에너지 열량 환산기준 Energy Conversion Factors

다. 총발열량 추이 Trend of Gross Calorific Value

에너지원		단위	총발열량(kcal)								'17년 대비 열량 증감
			1980	1981	1987	1990	2007	2012	2017	2022	
석유 (17종)	원유	kg	10,000	10,000	10,000	10,000	10,750	10,730	10,750	10,920	↑ 170
	휘발유	ℓ	8,300	8,300	8,300	8,300	8,000	7,780	7,810	7,750	↓ 60
	등유(실내)	ℓ	8,700	8,700	8,700	8,700	8,800	8,790	8,770	8,740	↓ 30
	등유(보일러)						8,950				
	경유	ℓ	9,200	9,200	9,200	9,200	9,050	9,010	9,030	9,020	↓ 10
	바이오디젤	ℓ	-	-	-	-	-	-	-	8,280	-
	B-A	ℓ	9,500	9,400	9,400	9,400	9,300	9,290	9,310	9,310	-
	B-B	ℓ	9,200	9,700	9,700	9,700	9,650	9,670	9,670	9,690	↑ 20
	B-C	ℓ	9,900	9,900	9,900	9,900	9,900	9,950	9,960	9,980	↑ 20
	프로판	kg	12,000	12,000	12,000	12,000	12,050	12,050	12,040	12,000	↓ 40
	부탄	kg	11,800	11,800	11,800	11,800	11,850	11,850	11,820	11,790	↓ 30
	납사	ℓ	8,000	8,000	8,000	8,000	8,050	7,710	7,710	7,700	↓ 10
	용제	ℓ	-	-	-	(8,200)	7,950	7,950	7,830	7,830	-
	항공유(JA-1)	ℓ	-	8,700	8,700	8,700	8,750	8,730	8,720	8,720	-
	항공유(JP-4)	ℓ	-	8,500	8,500	8,500					
	항공유(AVI-G)	ℓ	-	8,700	8,700	8,700					
	아스팔트	kg	-	-	-	(10,000)	9,900	9,910	9,890	9,880	↓ 10
	윤활유	ℓ	-	-	-	(9,400)	9,250	9,500	9,550	9,450	↓ 100
	석유코크스	kg	-	-	-	(10,800)	8,100	8,000	8,360	8,330	↓ 30
	부생연료유1호	ℓ	-	-	-	-	8,850	8,800	8,860	8,900	↑ 40
	부생연료유2호	ℓ	-	-	-	-	9,700	9,550	9,530	9,530	-
가스 (3종)	액화천연가스(LNG)	kg	-	9,500	12,980	13,000	13,000	13,040	13,060	13,080	↑ 20
	도시가스(LNG)	Nm³	7,000	7,000	7,000	10,500	10,550	10,430	10,290	10,190	↓ 100
	도시가스(LPG)	Nm³	-	-	-	15,000	15,000	15,000	15,190	15,150	↓ 40
석탄 (7종)	국내 무연탄	kg	4,600	4,600	4,500	4,500	4,650	4,500	4,730	4,710	↓ 20
	연료용 수입 무연탄	kg	6,600	6,600	6,600	6,600	6,550	5,020	5,060	5,500	↑ 440
	원료용 수입 무연탄	kg					6,550	5,900	6,020	6,170	↑ 150
	연료용 유연탄(역청탄)	kg					6,200	6,160	5,920	5,860	↓ 60
	원료용 유연탄(역청탄)	kg					7,000	7,000	6,970	7,030	↑ 60
	아역청탄	kg	-	-	-	-	5,350	5,420	5,110	4,920	↓ 190
	코크스	kg	6,500	6,500	6,500	6,500	7,050	6,960	6,930	6,840	↓ 90
전기 등 (3종)	전기(발전기준)	kWh	2,500	2,500	2,500	2,500	2,150	2,110	2,130	2,130	-
	전기(소비기준)	kWh	-	-	-	-	-	2,300	2,290	2,290	-
	신탄	kg	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	-

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통계도표

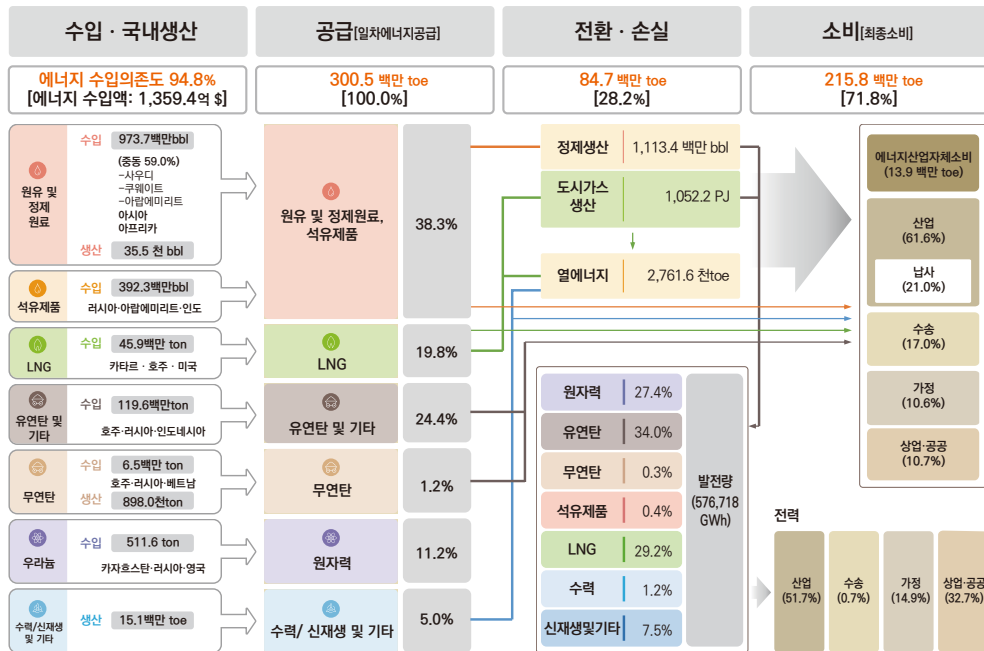
Statistics in Charts

2021년 연간 에너지밸런스 플로우
Energy Balance Flow

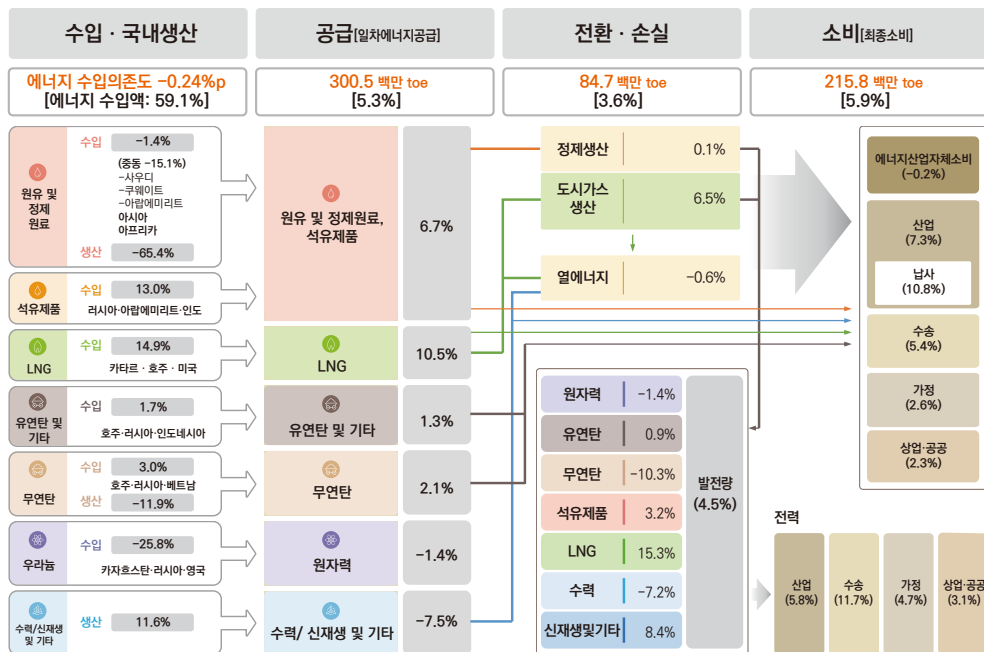
1. 경제성장과 에너지소비
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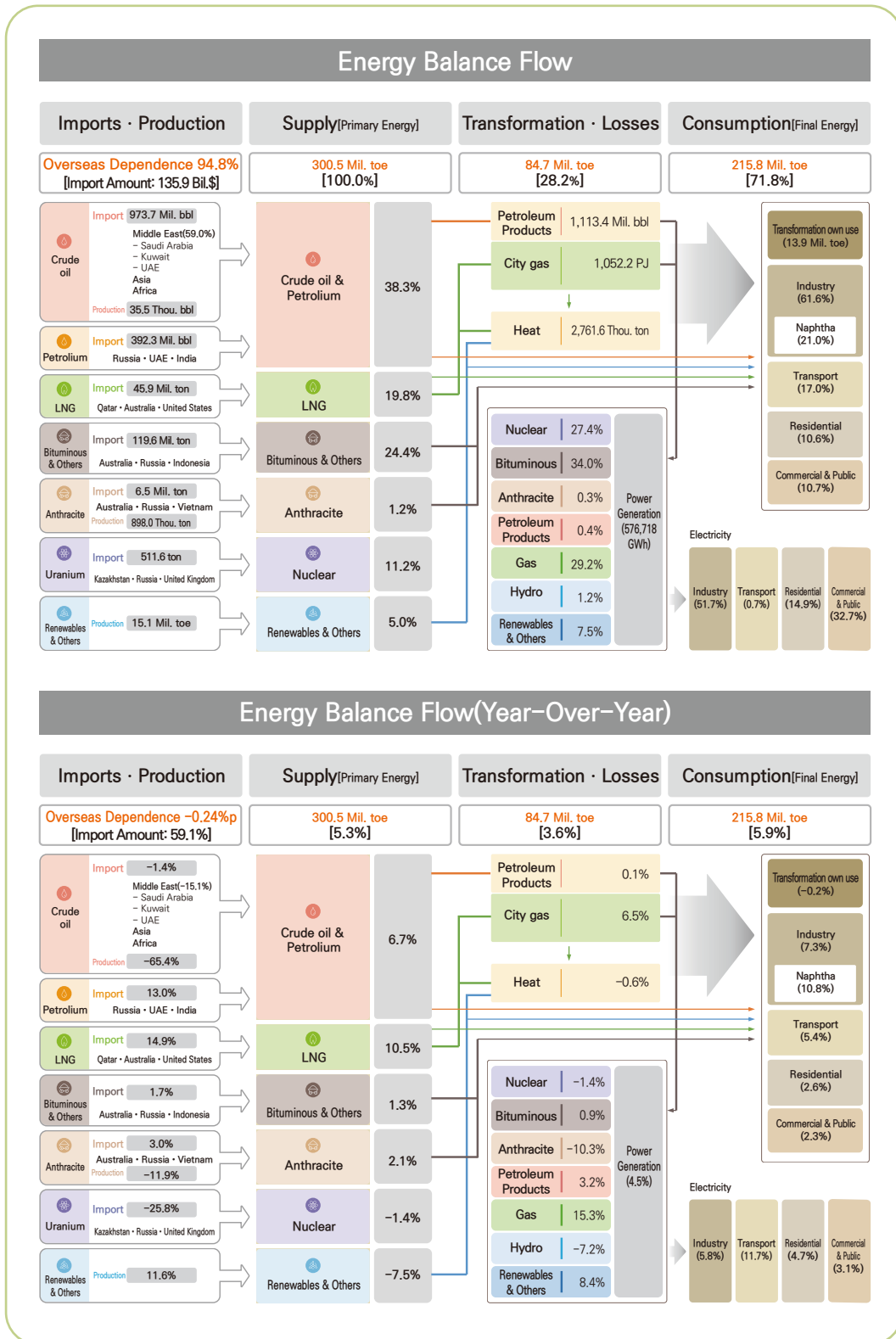
에너지밸런스 플로우



에너지밸런스 플로우(전년대비)



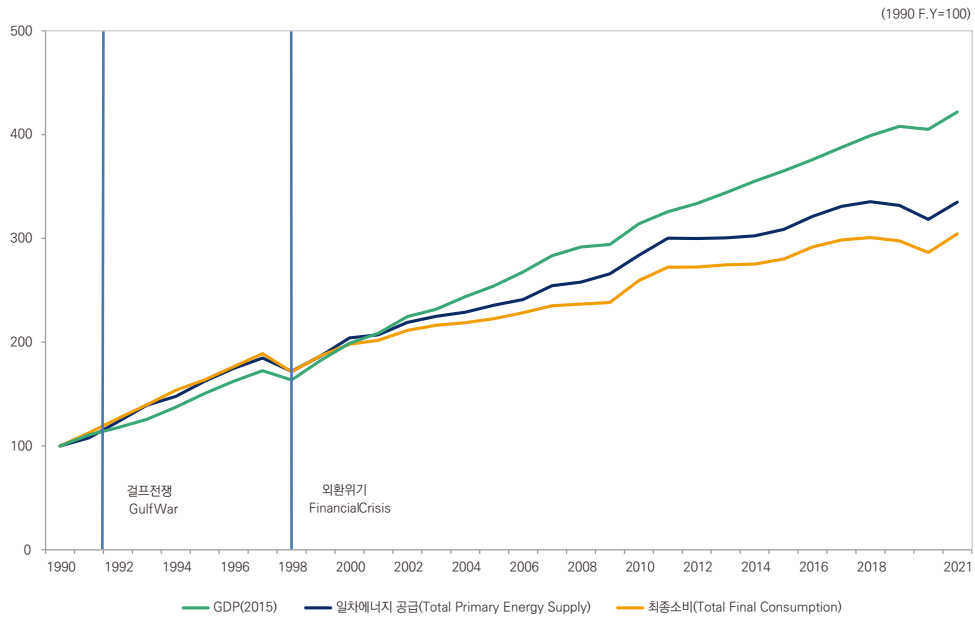
※ 신재생 및 기타: 태양열, 태양광, 풍력, 해양, 지열, 수열, 바이오, 폐기물, 연료전지, IGCC를 포함



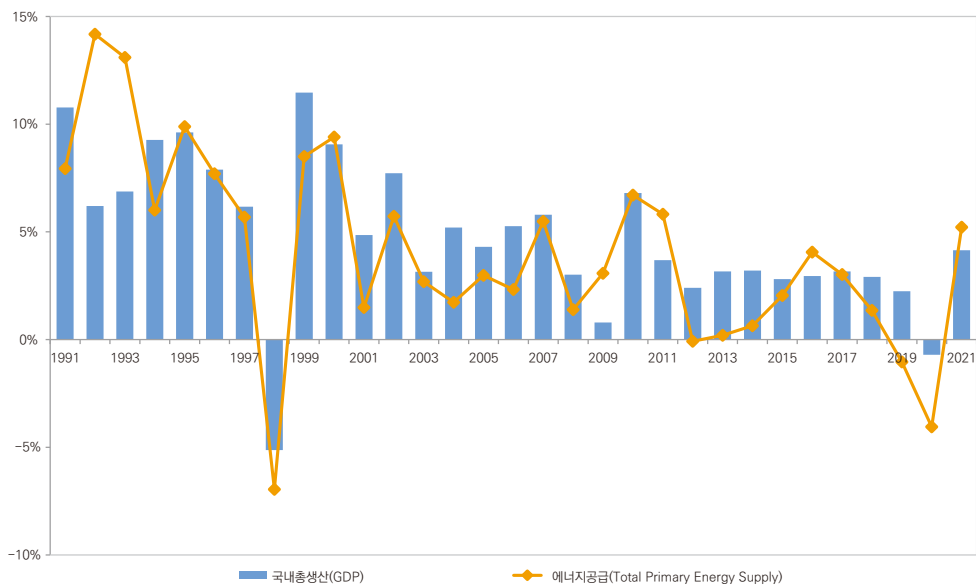
※ Renewables & Others: Solar Thermal, Solar Photovoltaic, Wind, Ocean, Geothermal, Hydro thermal, Bio, Waste, Fuel Cells, IGCC

1. 경제성장과 에너지소비 Economic Growth and Energy Consumption

● GDP와 에너지 소비지표 Trends in Energy Consumption, GDP and Indicators

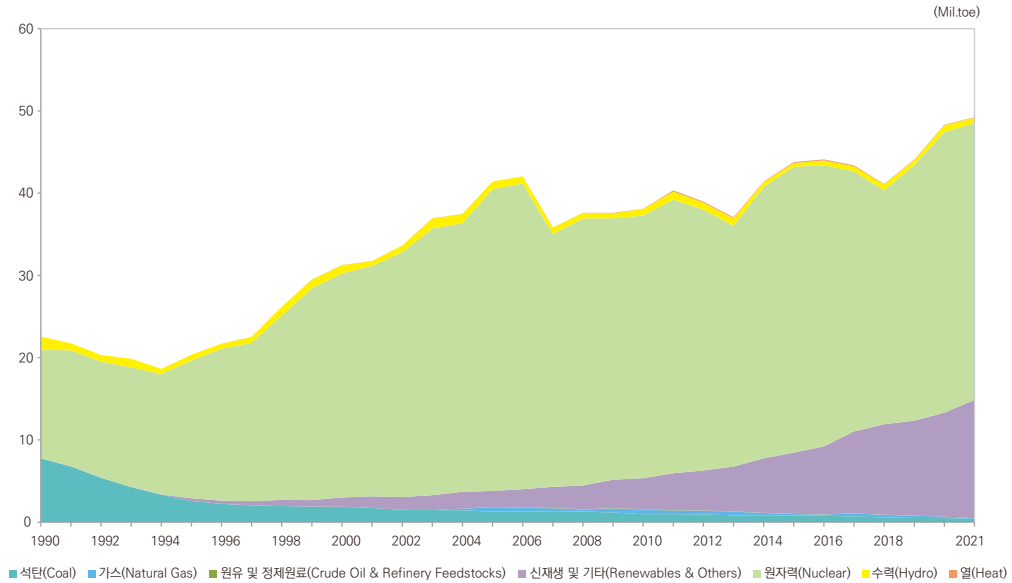


● GDP와 에너지소비 증가율 GDP and Energy Consumption Growth Rate

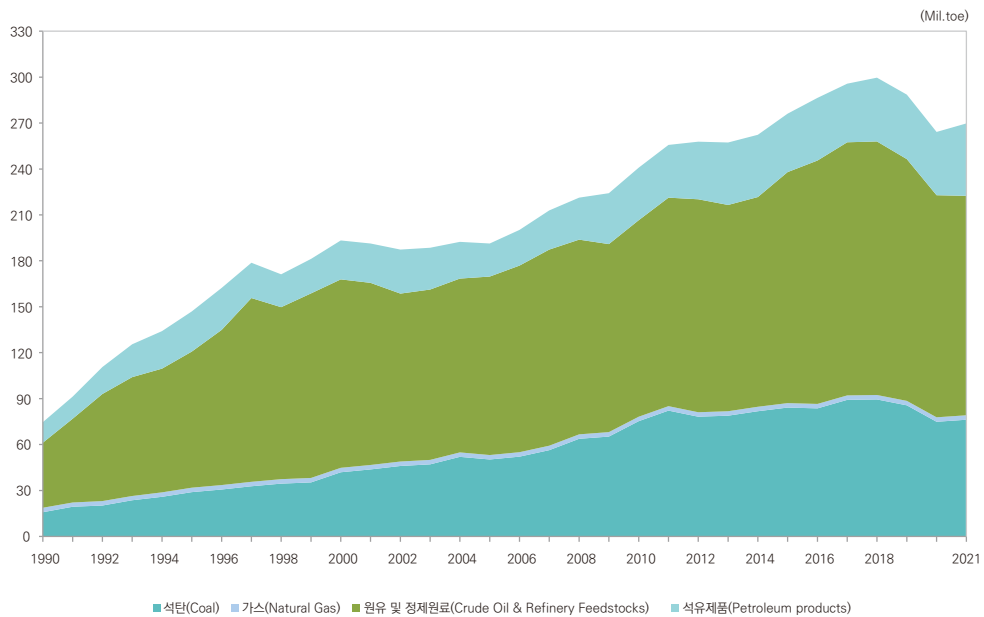


2. 에너지 생산·수입 Domestic & Imported Energy

● 일차에너지공급 국내생산 TPES Domestic Energy

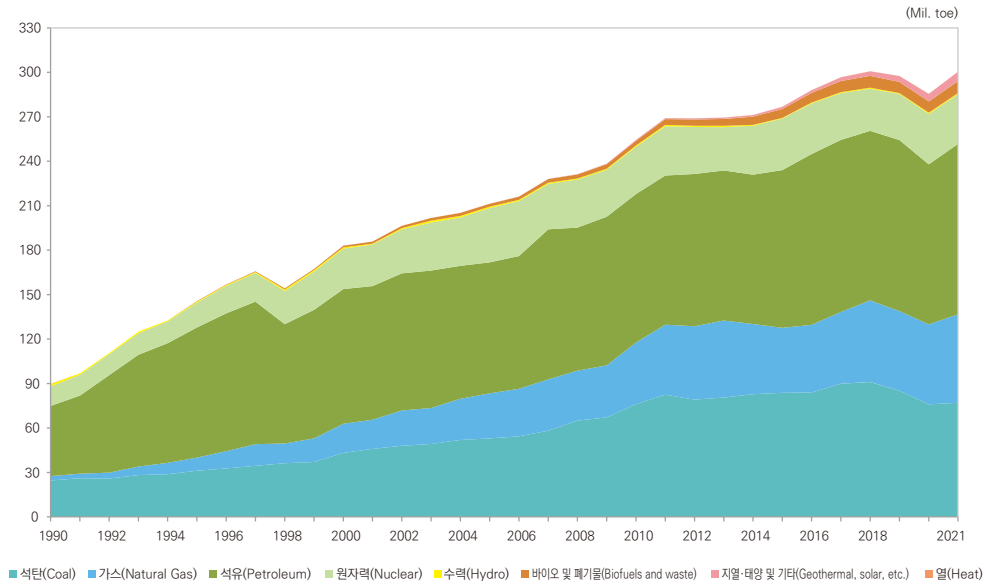


● 일차에너지공급 - 수입 에너지 TPES Imported Energy

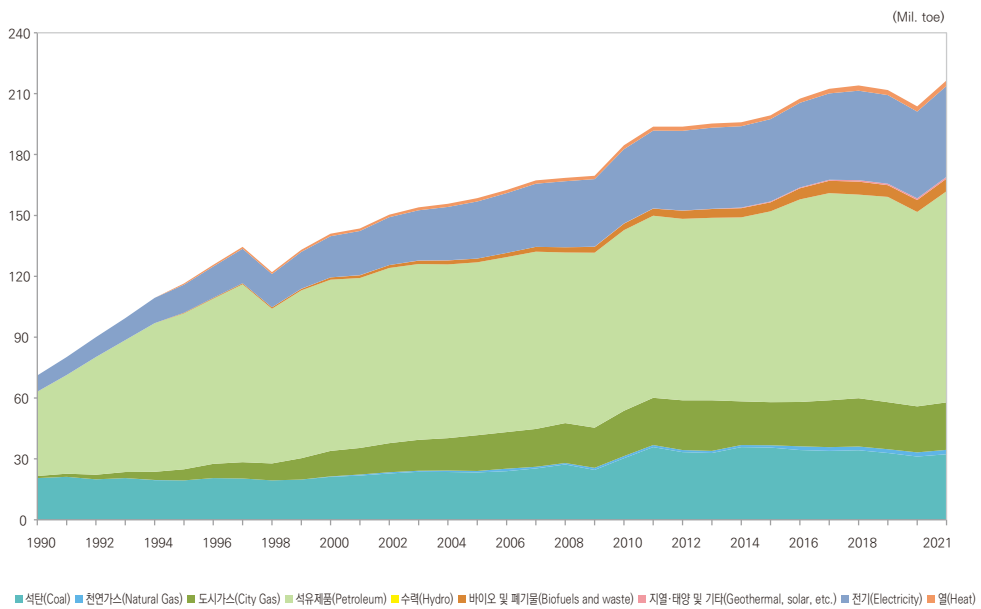


3. 에너지 수급 Energy Supply & Demand

● 일차에너지공급 Primary Energy Supply

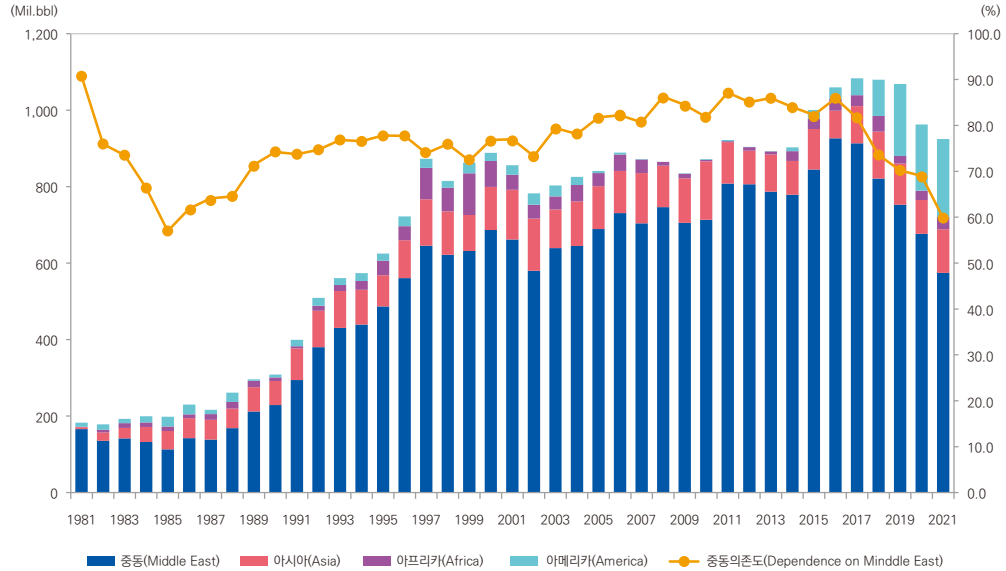


● 최종소비 Total Final Consumption

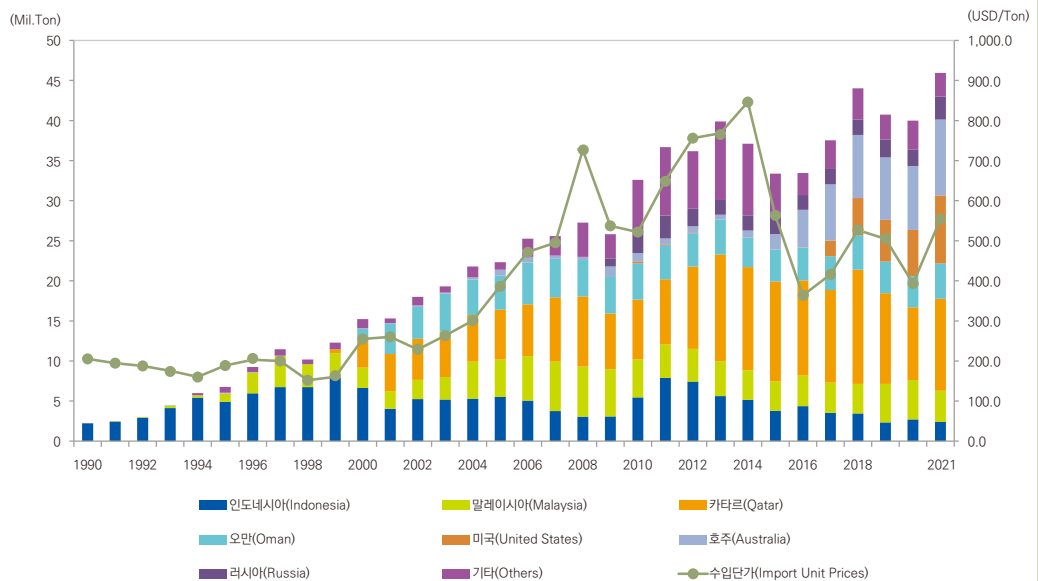


4. 에너지 수입가격 Energy Imports Prices

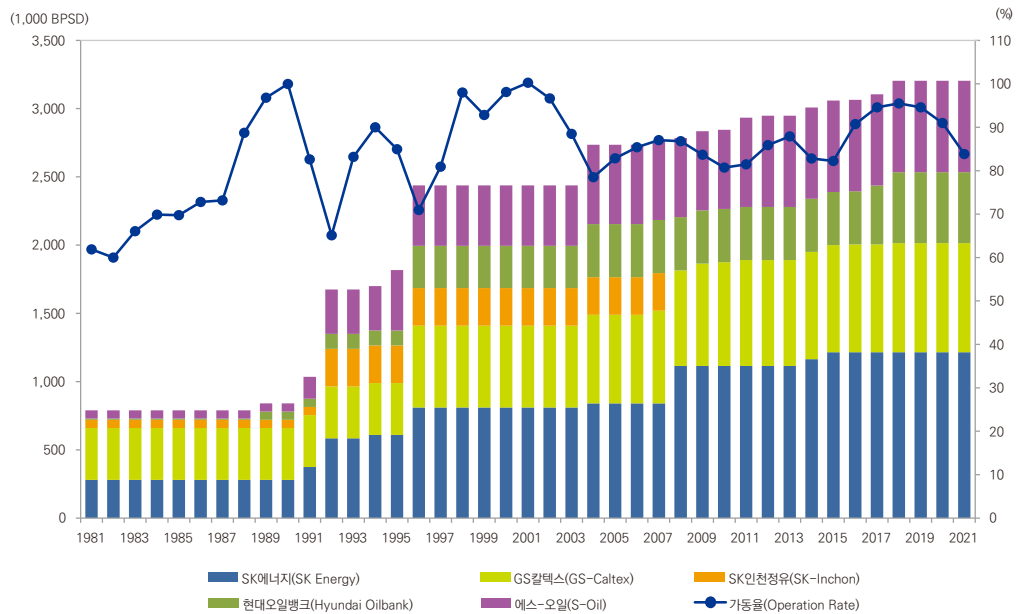
● 원유 수입 Crude Oil Imports by Region



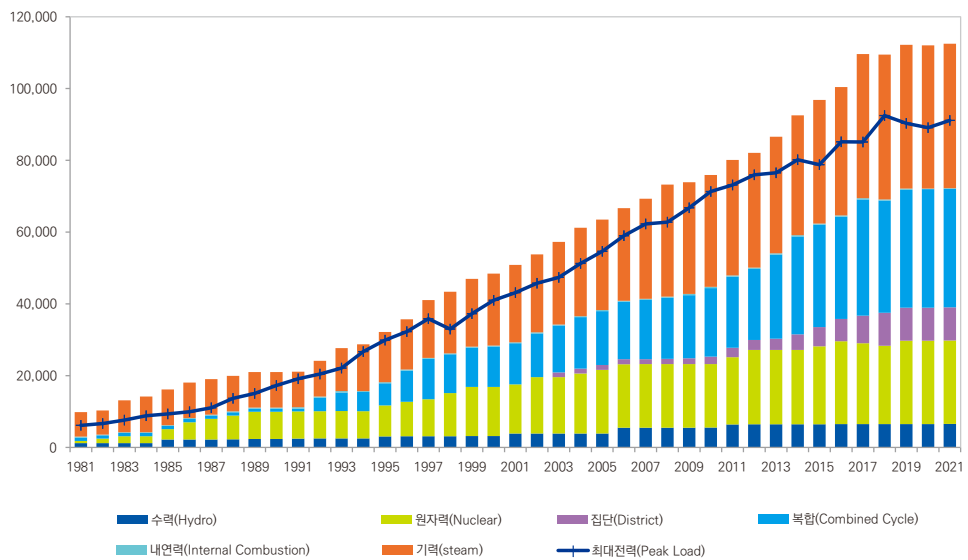
● 액화천연가스 수입 LNG Imports and Prices



5. 정유 현황 Refinery Capacities



6. 발전설비 추이 Trends of Generating Facilities





1. 에너지 개요

Energy Overview

1. 주요 에너지 지표

Major Energy Indicators

2. 에너지 생산 및 수출입

Energy production, imports and exports

3. 에너지 수입액

Import Amount of Energy

4. 일차에너지공급

Primary Energy Supply

5. 전환부문

Transformation Processes, Energy Industry Own Use and Losses

6. 원별최종소비

Total Final Consumption by Source

7. 부문별 최종소비

Total Final Consumption by Sector

7-1. 산업부문 에너지소비

Industry

7-2. 수송부문 에너지소비

Transport

7-3. 건물부문 에너지소비

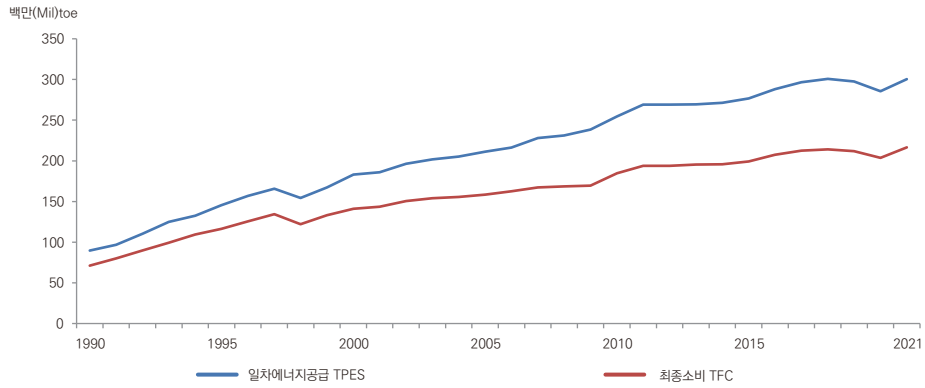
Building

8. 산업별 에너지 투입액(2015)

Amount of Energy Input by Industry(2015)

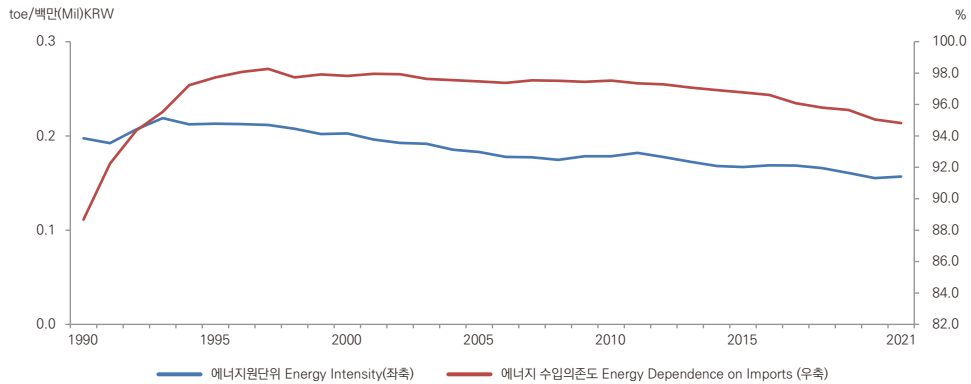
● 일차에너지 공급, 최종소비 Total Primary Energy Supply, Total Final Consumption

〈1990~2021〉



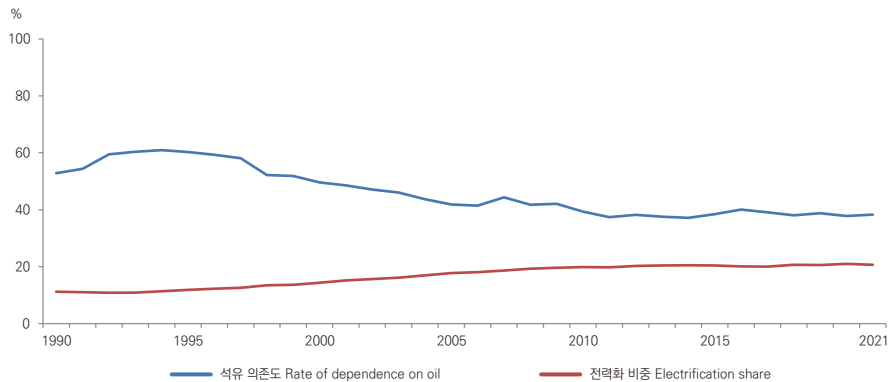
● 에너지원단위, 에너지 수입의존도 Energy Intensity, Energy Dependence on Imports

〈1990~2021〉



● 석유 의존도, 전력화 비중 Rate of Dependence on Oil, Electrification Share

〈1990~2021〉



1. 주요 에너지 지표

	국내생산 Production	수입 Imports	수출 Exports	일차에너지공급 ¹ TPES ¹	전환공정 ² Transformation ²	최종소비 ³ TFC ³
	1,000 toe	1,000 toe	1,000 toe	1,000 toe	1,000 toe	1,000 toe
1990	22,560	74,609	4,002	89,680	-16,533	71,150
1991	21,749	91,662	10,422	96,801	-14,463	80,179
1992	20,314	111,664	13,883	110,524	-17,340	89,966
1993	19,865	128,363	15,481	124,999	-21,143	99,400
1994	18,624	138,940	14,043	132,512	-20,287	109,323
1995	20,362	152,794	17,784	145,618	-23,956	116,508
1996	21,704	171,493	22,971	156,834	-28,913	125,595
1997	22,524	190,742	33,463	165,754	-24,574	134,489
1998	26,197	181,585	42,284	154,233	-25,334	122,028
1999	29,494	194,268	42,595	167,341	-28,132	133,014
2000	31,255	210,191	43,507	183,078	-33,849	140,966
2001	31,754	208,280	41,898	185,809	-35,351	143,589
2002	33,647	207,799	33,547	196,452	-39,616	150,381
2003	36,943	210,798	29,227	201,738	-42,119	153,972
2004	37,480	217,781	32,641	205,220	-43,388	155,678
2005	41,419	217,485	38,089	211,344	-44,206	158,478
2006	42,065	230,063	40,263	216,261	-48,288	162,528
2007	35,823	243,215	40,064	228,129	-54,035	167,225
2008	37,619	253,725	45,589	231,298	-56,390	168,469
2009	37,603	254,840	44,631	238,416	-59,184	169,567
2010	38,097	280,301	48,576	254,399	-63,610	184,581
2011	40,336	300,431	56,549	269,199	-68,160	193,726
2012	38,966	302,068	59,863	268,993	-68,735	193,771
2013	37,065	306,376	60,319	269,531	-66,058	195,292
2014	41,424	307,856	62,805	271,252	-64,227	195,889
2015	43,798	316,750	66,737	276,793	-65,943	199,347
2016	44,106	327,086	68,510	288,018	-65,867	207,553
2017	43,378	341,836	71,508	296,719	-68,285	212,431
2018	41,133	354,196	74,878	300,738	-72,152	214,001
2019	44,078	338,899	72,526	297,612	-71,114	211,733
2020	48,325	313,504	65,399	285,543	-68,994	203,773
2021	49,234	326,861	62,376	300,544	-72,024	215,797

1. Total Primary Energy Supply

2. 전환공정은 이차 연료를 생산하는데 투입된 연료들과 전기 및 판매용 열을 생산하기 위해 사용된 연료의 양(음의 값)과 생산된 에너지 상품(양의 값)의 합계

3. Total Final Consumption

4. 수입-수출

5. 연쇄가중법에 의해 추계된 실질 GDP (한국은행)

6. 추계인구(통계청, 「장래인구추계」)

1. Major Energy Indicators

순수입 ⁴ Net imports ⁴ 1,000 toe	에너지 수입의존도 Rate of dependence on imports %		TPES/GDP ⁵ toe/mil.won	TFC/GDP ⁵ toe/mil.won	TPES/인구 ⁶ TPES/population ⁶ toe/capita	TFC/인구 ⁶ TFC/population ⁶ toe/capita	
70,607	88.7	(73.9)	0.197	0.157	2.09	1.66	1990
81,240	92.2	(77.7)	0.192	0.159	2.24	1.85	1991
97,782	94.3	(81.6)	0.207	0.168	2.53	2.06	1992
112,882	95.5	(83.9)	0.219	0.174	2.83	2.25	1993
124,897	97.2	(86.2)	0.212	0.175	2.97	2.45	1994
135,010	97.7	(86.2)	0.213	0.170	3.23	2.58	1995
148,522	98.1	(86.3)	0.213	0.170	3.45	2.76	1996
157,278	98.3	(86.6)	0.212	0.172	3.61	2.93	1997
139,302	97.7	(83.2)	0.208	0.164	3.33	2.64	1998
151,673	97.9	(82.5)	0.202	0.161	3.59	2.85	1999
166,684	97.8	(82.9)	0.203	0.156	3.89	3.00	2000
166,381	98.0	(82.9)	0.196	0.152	3.92	3.03	2001
174,252	97.9	(82.8)	0.192	0.147	4.12	3.16	2002
181,572	97.6	(81.6)	0.192	0.146	4.21	3.21	2003
185,140	97.5	(81.6)	0.185	0.141	4.27	3.24	2004
179,396	97.5	(80.1)	0.183	0.137	4.39	3.29	2005
189,800	97.4	(80.2)	0.178	0.134	4.46	3.36	2006
203,151	97.5	(84.1)	0.177	0.130	4.69	3.43	2007
208,136	97.5	(83.5)	0.175	0.127	4.72	3.43	2008
210,209	97.4	(84.1)	0.178	0.127	4.84	3.44	2009
231,726	97.5	(85.0)	0.178	0.129	5.13	3.72	2010
243,882	97.4	(85.0)	0.182	0.131	5.39	3.88	2011
242,204	97.3	(85.5)	0.178	0.128	5.36	3.86	2012
246,057	97.1	(86.2)	0.172	0.125	5.34	3.87	2013
245,050	96.9	(84.8)	0.168	0.121	5.35	3.86	2014
250,013	96.8	(84.2)	0.167	0.120	5.43	3.91	2015
258,576	96.6	(84.7)	0.169	0.122	5.62	4.05	2016
270,328	96.1	(85.4)	0.169	0.121	5.78	4.14	2017
279,318	95.8	(86.3)	0.166	0.118	5.83	4.15	2018
266,374	95.7	(85.2)	0.161	0.114	5.75	4.09	2019
248,106	95.0	(83.1)	0.155	0.111	5.51	3.93	2020
264,486	94.8	(83.6)	0.157	0.113	5.81	4.17	2021

1. Total Primary Energy Supply

2. The negative number is the used fuel for the electricity generation and heat production for sale. And the positive number is the production of energy commodities

3. Total Final Consumption

4. Imports-Exports

5. GDP is based on chained prices.(Bank of Korea)

6. Population projection(Statistics Korea, 「National population projection for Korea」)

2. 에너지 생산 및 수출입

단위: 천 toe

	생산								
	Production	석탄 Coal	가스 Natural gas	원유 및 정제원료 Crude oil & refinery feedstocks	바이오 및 폐기물 Biofuels and waste	지열, 태양 및 기타 Geothermal, solar, etc.	원자력 Nuclear	수력 Hydro	열 Heat
1990	22,560	7,748	-	-	6	10	13,222	1,571	3
1991	21,749	6,776	-	-	9	12	14,078	872	3
1992	20,314	5,386	-	-	5	13	14,133	774	2
1993	19,865	4,249	-	-	7	15	14,535	1,057	3
1994	18,624	3,347	-	-	7	18	14,663	587	3
1995	20,362	2,574	-	-	315	23	16,757	690	3
1996	21,704	2,228	-	-	353	33	18,481	606	3
1997	22,524	2,030	-	-	470	47	19,271	703	2
1998	26,197	1,962	-	-	688	45	22,422	1,070	9
1999	29,494	1,889	-	-	748	45	25,766	1,040	7
2000	31,255	1,868	-	-	1,088	47	27,241	1,002	10
2001	31,754	1,718	-	-	1,366	42	28,033	582	13
2002	33,647	1,493	-	-	1,516	40	29,776	808	14
2003	36,943	1,484	-	-	1,754	41	32,418	1,226	20
2004	37,480	1,436	212	-	1,999	52	32,679	1,082	19
2005	41,419	1,274	518	55	1,873	73	36,695	919	12
2006	42,065	1,271	461	45	2,110	107	37,187	867	17
2007	35,823	1,342	353	35	2,431	137	30,731	781	14
2008	37,619	1,289	236	23	2,719	199	32,456	660	38
2009	37,603	1,171	498	47	3,109	343	31,771	616	49
2010	38,097	969	539	56	3,274	499	31,948	797	16
2011	40,336	969	451	42	3,882	602	33,265	989	135
2012	38,966	942	436	39	4,247	622	31,719	838	124
2013	37,065	817	463	42	4,629	811	29,283	906	113
2014	41,424	787	322	29	5,585	1,051	33,002	581	68
2015	43,798	794	188	17	6,011	1,444	34,765	454	125
2016	44,106	777	154	15	6,444	1,814	34,181	603	117
2017	43,378	702	341	32	7,534	2,426	31,615	601	127
2018	41,133	569	305	28	7,984	3,024	28,437	719	68
2019	44,078	513	259	23	7,604	3,940	31,079	594	66
2020	48,325	482	185	15	7,478	5,146	34,119	826	73
2021	49,234	425	55	5	8,053	6,320	33,657	651	68

2. Energy production, imports and exports

Unit: Thousand toe

수입					수출				
Imports	석탄 Coal	가스 Natural gas	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products	Exports	석탄 Coal	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products	
74,609	15,832	2,909	42,465	13,404	4,002	5	0	3,997	1990
91,662	19,331	3,243	54,600	14,488	10,422	4	0	10,418	1991
111,664	20,190	3,892	69,996	17,587	13,883	2	112	13,769	1992
128,363	23,567	5,797	77,531	21,468	15,481	0	94	15,387	1993
138,940	25,904	7,795	80,727	24,514	14,043	104	148	13,791	1994
152,794	28,942	8,782	88,810	26,259	17,784	4	31	17,749	1995
171,493	30,616	12,035	101,430	27,411	22,971	1	280	22,691	1996
190,742	32,774	14,912	119,950	23,106	33,463	53	266	33,144	1997
181,585	34,450	13,246	112,392	21,498	42,284	3	48	42,233	1998
194,268	35,229	15,970	120,594	22,474	42,595	1	49	42,545	1999
210,191	41,943	19,811	123,049	25,389	43,507	3	129	43,375	2000
208,280	43,822	19,913	118,891	25,653	41,898	1	134	41,764	2001
207,799	46,058	23,390	109,680	28,670	33,547	1	163	33,383	2002
210,798	47,109	25,101	111,227	27,362	29,227	1	57	29,169	2003
217,781	51,995	28,316	113,564	23,906	32,641	7	17	32,617	2004
217,485	50,266	29,013	116,537	21,669	38,089	12	5	38,072	2005
230,063	52,053	32,832	121,897	23,281	40,263	9	4	40,250	2006
243,215	56,340	33,240	128,166	25,470	40,064	9	79	39,976	2007
253,725	63,723	35,436	127,156	27,410	45,589	26	314	45,249	2008
254,840	65,216	33,568	122,816	33,240	44,631	4	415	44,212	2009
280,301	75,340	42,384	128,349	34,228	48,576	8	620	47,947	2010
300,431	82,125	47,690	136,259	34,358	56,549	41	751	55,757	2011
302,068	78,261	47,184	138,986	37,636	59,863	20	460	59,383	2012
306,376	78,923	51,998	134,607	40,848	60,319	40	369	59,910	2013
307,856	81,782	48,388	136,928	40,758	62,805	28	185	62,593	2014
316,750	84,123	43,509	150,983	38,135	66,737	12	446	66,279	2015
327,086	83,621	43,623	158,918	40,924	68,510	1	670	67,840	2016
341,836	89,227	49,023	165,241	38,345	71,508	86	455	70,967	2017
354,196	89,484	57,484	165,588	41,639	74,878	47	764	74,067	2018
338,899	85,586	53,217	157,955	42,141	72,526	12	138	72,376	2019
313,504	74,875	52,217	145,093	41,319	65,399	110	80	65,209	2020
326,861	76,172	59,987	143,343	47,360	62,376	217	323	61,836	2021

3. 에너지 수입액

단위: 백만 달러(CIF)

	국가총수입 Total Imports (A)	에너지 수입 Energy Imports (B)	B/A(%)	석탄 Coal			
				소계 Subtotal	무연탄 Anthracite	유연탄 Bituminous	기타석탄 ¹ Others ¹
1990	69,844	8,209	11.8	1,288	52	1,217	20
1991	81,525	9,921	12.2	1,600	66	1,514	20
1992	81,775	13,686	16.7	1,020	42	939	39
1993	83,800	14,969	17.9	1,732	40	1,642	50
1994	102,348	15,228	14.9	1,777	33	1,695	48
1995	135,119	18,670	13.8	2,108	35	1,992	81
1996	150,339	24,003	16.0	2,337	46	2,251	41
1997	144,616	26,981	18.7	2,399	38	2,301	60
1998	93,282	18,092	19.4	2,229	36	2,147	46
1999	119,752	22,543	18.8	1,966	46	1,867	53
2000	160,481	37,622	23.4	2,186	73	2,033	81
2001	141,098	33,652	23.9	2,347	118	2,157	72
2002	152,126	31,997	21.0	2,475	148	2,254	72
2003	178,827	37,982	21.2	2,552	177	2,266	109
2004	224,463	49,075	21.9	4,438	233	3,891	314
2005	261,238	66,238	25.4	5,443	429	4,803	211
2006	309,383	84,905	27.4	5,318	407	4,700	211
2007	356,846	94,306	26.4	6,445	448	5,675	323
2008	435,275	139,288	32.0	12,800	991	11,156	653
2009	323,085	90,259	27.9	9,995	672	8,997	326
2010	425,212	120,478	28.3	13,131	1,016	11,425	690
2011	524,413	170,497	32.5	18,477	1,774	16,052	651
2012	519,585	182,252	35.1	16,069	1,361	14,221	488
2013	515,586	176,561	34.2	13,074	1,143	11,624	307
2014	525,515	170,117	32.4	12,114	921	10,723	471
2015	436,499	100,440	23.0	9,961	813	8,675	474
2016	406,193	79,953	19.7	9,310	759	8,168	383
2017	478,478	107,921	22.6	15,179	933	13,481	765
2018	535,202	143,285	26.8	16,703	1,199	14,668	835
2019	503,343	124,777	24.8	14,209	927	13,063	219
2020	467,633	85,444	18.3	9,596	611	8,805	181
2021	615,093	135,935	22.1	14,699	889	13,486	325

1. 기타석탄에 갈탄, 토탄 포함

자료: 한국무역협회

3. Import Amount of Energy

Unit: Million USD(CIF)

가스 Natural gas	석 유 Petroleum			우라늄 Uranium	
	소계 Subtotal	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products		
460	6,462	6,462	-	-	1990
485	7,835	7,835	-	0	1991
562	12,104	9,522	2,582	-	1992
781	12,421	9,432	2,989	35	1993
961	12,385	9,233	3,152	105	1994
1,275	15,265	11,266	3,999	22	1995
1,878	19,787	14,924	4,863	0	1996
2,296	22,204	17,879	4,325	82	1997
1,549	14,163	11,302	2,860	152	1998
1,973	18,435	14,943	3,492	170	1999
3,882	31,416	25,414	6,001	138	2000
3,990	27,097	21,620	5,477	218	2001
4,120	25,140	19,449	5,690	262	2002
5,082	30,104	23,394	6,710	243	2003
6,552	37,770	30,100	7,670	315	2004
8,646	51,883	43,088	8,796	265	2005
11,925	67,352	56,065	11,287	311	2006
12,653	74,762	60,609	14,152	446	2007
19,806	106,015	85,184	20,831	667	2008
13,875	65,706	50,880	14,826	684	2009
17,006	89,777	68,897	20,880	564	2010
23,859	127,413	100,335	27,078	748	2011
27,364	138,183	107,070	31,113	635	2012
30,645	131,866	99,490	32,376	976	2013
31,403	125,912	94,512	31,401	688	2014
18,779	70,883	54,916	15,967	817	2015
12,170	57,937	44,540	13,397	536	2016
15,616	76,185	60,075	16,110	941	2017
23,189	102,856	80,521	22,335	538	2018
20,567	89,295	70,430	18,865	707	2019
15,716	59,406	44,791	14,615	725	2020
25,453	95,039	68,771	26,268	744	2021

1. Includes brown coal and peat in others
Source: Korea International Trade Association

4. 일차에너지공급

단위: 천 toe

	일차에너지공급 ¹									
	TPES ¹	증가율 Growth Rate %	석탄		천연가스		석유 ²		바이오 및 폐기물	
			Coal	%	Natural gas	%	Oil ²	%	Biofuels and waste	%
1990	89,680	-	24,523	27.3	2,958	3.3	47,387	52.8	6	0.0
1991	96,801	7.9	26,000	26.9	3,159	3.3	52,668	54.4	9	0.0
1992	110,524	14.2	25,880	23.4	3,946	3.6	65,770	59.5	5	0.0
1993	124,999	13.1	28,192	22.6	5,759	4.6	75,432	60.3	7	0.0
1994	132,512	6.0	28,757	21.7	7,717	5.8	80,761	60.9	7	0.0
1995	145,618	9.9	31,173	21.4	8,852	6.1	87,804	60.3	315	0.2
1996	156,834	7.7	32,647	20.8	11,690	7.5	93,021	59.3	353	0.2
1997	165,754	5.7	34,408	20.8	14,606	8.8	96,246	58.1	470	0.3
1998	154,233	-7.0	36,170	23.5	13,347	8.7	80,482	52.2	688	0.4
1999	167,341	8.5	37,011	22.1	15,954	9.5	86,770	51.9	748	0.4
2000	183,078	9.4	43,143	23.6	19,743	10.8	90,804	49.6	1,088	0.6
2001	185,809	1.5	45,838	24.7	19,722	10.6	90,213	48.6	1,366	0.7
2002	196,452	5.7	47,987	24.4	23,797	12.1	92,515	47.1	1,516	0.8
2003	201,738	2.7	49,135	24.4	24,272	12.0	92,871	46.0	1,754	0.9
2004	205,220	1.7	51,886	25.3	27,827	13.6	89,676	43.7	1,999	1.0
2005	211,344	3.0	52,975	25.1	30,367	14.4	88,431	41.8	1,873	0.9
2006	216,261	2.3	54,361	25.1	32,024	14.8	89,590	41.4	2,108	1.0
2007	228,129	5.5	58,149	25.5	34,665	15.2	101,219	44.4	2,433	1.1
2008	231,298	1.4	64,925	28.1	33,792	14.6	96,511	41.7	2,718	1.2
2009	238,416	3.1	67,094	28.1	35,138	14.7	100,303	42.1	3,104	1.3
2010	254,399	6.7	76,008	29.9	41,681	16.4	100,177	39.4	3,274	1.3
2011	269,199	5.8	82,386	30.6	47,318	17.6	100,622	37.4	3,881	1.4
2012	268,993	-0.1	79,059	29.4	49,554	18.4	102,833	38.2	4,245	1.6
2013	269,531	0.2	80,538	29.9	51,943	19.3	101,306	37.6	4,631	1.7
2014	271,252	0.6	82,764	30.5	47,409	17.5	100,792	37.2	5,585	2.1
2015	276,793	2.0	83,650	30.2	43,958	15.9	106,386	38.4	6,011	2.2
2016	288,018	4.1	83,989	29.2	45,524	15.8	115,343	40.0	6,447	2.2
2017	296,719	3.0	89,786	30.3	48,564	16.4	116,067	39.1	7,532	2.5
2018	300,738	1.4	90,965	30.2	55,090	18.3	114,450	38.1	7,985	2.7
2019	297,612	-1.0	85,048	28.6	53,875	18.1	115,408	38.8	7,601	2.6
2020	285,543	-4.1	75,983	26.6	53,947	18.9	107,970	37.8	7,479	2.6
2021	300,544	5.2	76,968	25.6	59,622	19.8	115,204	38.3	8,052	2.7

1. 일차에너지공급=국내생산(+)+수입(+)+수출(-)+국제해운병커링(-)+국제항공병커링(-)+재고변화(±)

2. 원유 및 정제원료, 석유제품

4. Primary Energy Supply

Unit: Thousand toe

지열, 태양 및 기타		원자력		수력		열			
Coal	%	Nuclear	%	Hydro	%	Heat	%		
10	0.0	13,222	14.7	1,571	1.8	3	0.0	1990	
12	0.0	14,078	14.5	872	0.9	3	0.0	1991	
13	0.0	14,133	12.8	774	0.7	2	0.0	1992	
15	0.0	14,535	11.6	1,057	0.8	3	0.0	1993	
18	0.0	14,663	11.1	587	0.4	3	0.0	1994	
23	0.0	16,757	11.5	690	0.5	3	0.0	1995	
33	0.0	18,481	11.8	606	0.4	3	0.0	1996	
47	0.0	19,271	11.6	703	0.4	2	0.0	1997	
45	0.0	22,422	14.5	1,070	0.7	9	0.0	1998	
45	0.0	25,766	15.4	1,040	0.6	7	0.0	1999	
47	0.0	27,241	14.9	1,002	0.5	10	0.0	2000	
42	0.0	28,033	15.1	582	0.3	13	0.0	2001	
40	0.0	29,776	15.2	808	0.4	14	0.0	2002	
41	0.0	32,418	16.1	1,226	0.6	20	0.0	2003	
52	0.0	32,679	15.9	1,082	0.5	19	0.0	2004	
73	0.0	36,695	17.4	919	0.4	12	0.0	2005	
107	0.0	37,187	17.2	867	0.4	17	0.0	2006	
137	0.1	30,731	13.5	781	0.3	14	0.0	2007	
199	0.1	32,456	14.0	660	0.3	38	0.0	2008	
343	0.1	31,771	13.3	616	0.3	49	0.0	2009	
499	0.2	31,948	12.6	797	0.3	16	0.0	2010	
602	0.2	33,265	12.4	989	0.4	135	0.1	2011	
622	0.2	31,719	11.8	838	0.3	124	0.0	2012	
811	0.3	29,283	10.9	906	0.3	113	0.0	2013	
1,051	0.4	33,002	12.2	581	0.2	68	0.0	2014	
1,444	0.5	34,765	12.6	454	0.2	125	0.0	2015	
1,814	0.6	34,181	11.9	603	0.2	117	0.0	2016	
2,426	0.8	31,615	10.7	601	0.2	127	0.0	2017	
3,024	1.0	28,437	9.5	719	0.2	68	0.0	2018	
3,940	1.3	31,079	10.4	594	0.2	66	0.0	2019	
5,146	1.8	34,119	11.9	826	0.3	73	0.0	2020	
6,320	2.1	33,657	11.2	651	0.2	68	0.0	2021	

1. Others: The energy source is manufactured from the waste
 Note: From 2007, based on the revised Calorific Value every 5 years

5. 전환부문

단위: 천 toe

	전환과정 ¹					
	Transformation processes ¹	석탄 Coal	가스 ² Gas ²	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products	바이오 및 폐기물 Biofuels and waste
1990	-16,533	-4,688	-2,264	-42,930	38,811	0
1991	-14,463	-4,703	-2,340	-54,459	51,815	0
1992	-17,340	-5,084	-2,892	-69,730	64,010	0
1993	-21,143	-6,893	-3,370	-77,318	69,469	0
1994	-20,287	-9,021	-4,438	-79,203	73,105	0
1995	-23,956	-10,091	-4,772	-89,478	81,012	0
1996	-28,913	-13,668	-6,200	-100,960	92,149	0
1997	-24,574	-15,960	-7,233	-119,975	117,947	0
1998	-25,334	-17,997	-5,680	-113,999	115,956	0
1999	-28,132	-19,707	-6,457	-120,291	122,805	0
2000	-33,849	-22,988	-6,167	-122,721	122,393	0
2001	-35,351	-25,257	-6,364	-119,076	118,314	-2
2002	-39,616	-27,562	-7,950	-111,545	110,534	-29
2003	-42,119	-28,580	-8,034	-108,969	108,159	-35
2004	-43,388	-30,807	-10,914	-113,796	115,195	-45
2005	-44,206	-32,287	-11,616	-117,849	122,270	-40
2006	-48,288	-33,728	-13,504	-120,394	123,272	-46
2007	-54,035	-35,263	-15,528	-129,380	121,643	-73
2008	-56,390	-39,949	-15,582	-126,589	121,252	-120
2009	-59,184	-45,277	-13,478	-122,316	115,819	-104
2010	-63,610	-48,520	-19,711	-127,387	123,072	-98
2011	-68,160	-50,469	-21,879	-136,035	130,796	-324
2012	-68,735	-49,409	-24,397	-140,257	132,431	-162
2013	-66,058	-49,808	-26,907	-135,626	131,265	-332
2014	-64,227	-48,841	-23,992	-138,315	135,824	-1,053
2015	-65,943	-50,047	-21,356	-151,296	146,861	-1,504
2016	-65,867	-48,628	-21,867	-159,440	152,561	-992
2017	-68,285	-52,026	-22,218	-170,698	162,557	-1,487
2018	-72,152	-53,498	-27,577	-175,087	165,759	-1,588
2019	-71,114	-49,938	-26,226	-173,726	164,604	-1,850
2020	-68,994	-41,635	-26,952	-164,058	154,556	-1,651
2021	-72,024	-40,557	-31,326	-164,777	154,108	-1,809

1. 전환과정은 이차 연료를 생산하는데 투입된 연료들과 전기 및 판매용 열을 생산하기 위해 사용된 연료의 양(음의 값)과 생산된 에너지 상품(양의 값)의 합계

2. 천연가스, 도시가스

3. 전환자체소비는 에너지 전환 공정 투입량이 아닌 에너지 산업의 사업활동을 영위하기 위해 사용한 에너지를 의미함

4. 에너지 상품을 생산지에서 소비지로 유통하는 과정에서 발생한 손실을 의미

5. Transformation Processes, Energy Industry Own Use and Losses

Unit: Thousand toe

지열, 태양 및 기타 Geothermal, solar, etc.	원자력 Nuclear	수력 Hydro	전기 Electricity	열 Heat	전환자체소비 ³	손실 ⁴	
					Transformation own use ³	Losses ⁴	
0	-13,222	-1,571	9,254	76	-1,529	-563	1990
0	-14,078	-872	10,068	107	-1,448	-643	1991
0	-14,133	-774	11,112	151	-1,527	-761	1992
0	-14,535	-1,057	12,270	290	-1,816	-941	1993
0	-14,663	-587	14,040	480	-2,012	-1,239	1994
0	-16,757	-690	15,648	1,172	-2,389	-1,348	1995
0	-18,481	-606	17,435	1,418	-2,372	-1,544	1996
0	-19,271	-703	19,080	1,542	-7,918	-1,574	1997
0	-22,422	-1,070	18,362	1,515	-7,439	-1,497	1998
-1	-25,766	-1,040	20,420	1,905	-7,970	-1,876	1999
-2	-27,241	-1,002	22,776	1,104	-8,171	-964	2000
-3	-28,033	-582	24,377	1,277	-7,967	-1,114	2001
-4	-29,776	-808	26,183	1,340	-7,471	-1,127	2002
-6	-32,418	-1,221	27,566	1,419	-7,727	-1,080	2003
-10	-32,679	-1,078	29,298	1,447	-8,349	-1,117	2004
-31	-36,695	-918	31,233	1,729	-8,170	-1,275	2005
-59	-37,187	-867	32,637	1,588	-8,182	-1,289	2006
-83	-30,731	-781	34,553	1,610	-8,414	-1,431	2007
-136	-32,456	-660	36,112	1,738	-9,511	-1,539	2008
-268	-31,771	-605	37,052	1,765	-9,327	-1,574	2009
-406	-31,948	-792	40,587	1,593	-9,133	-1,157	2010
-486	-33,265	-988	42,462	2,029	-10,180	-1,747	2011
-476	-31,719	-837	43,517	2,576	-10,792	-2,167	2012
-621	-29,283	-905	44,131	2,028	-10,329	-1,505	2013
-795	-33,002	-581	44,462	2,065	-11,898	-1,698	2014
-1,122	-34,765	-453	45,113	2,625	-11,829	-2,208	2015
-1,408	-34,181	-601	46,164	2,526	-12,093	-2,049	2016
-1,893	-31,615	-598	47,257	2,436	-11,255	-1,850	2017
-2,381	-28,437	-716	48,752	2,620	-13,539	-1,717	2018
-3,183	-31,079	-594	48,138	2,740	-14,053	-1,719	2019
-4,304	-34,119	-826	47,219	2,777	-13,922	-1,711	2020
-5,420	-33,657	-651	49,304	2,762	-13,892	-1,542	2021

1. The negative number is the used fuel for the electricity generation and heat production for sale. And the positive number is the production of energy commodities

2. Natural gas, City gas

3. It means that the fuel for the operation of energy production facilities, not for input for the transformation process

4. It is from the distribution process

6. 원별최종소비

Total Final Consumption by Source

단위: 천 toe

Unit: Thousand toe

	최종소비 TFC	석탄 Coal	가스 ¹ Gas ¹	석유제품 Petroleum products	수력 Hydro	바이오 및 폐기물 Biofuels and waste	지열, 태양 및 기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
1990	71,150	20,528	1,016	41,592	0	6	10	7,997	0
1991	80,179	21,164	1,546	48,614	0	9	12	8,835	0
1992	89,966	19,950	2,225	58,023	0	5	13	9,751	0
1993	99,400	20,571	3,020	64,981	0	7	15	10,806	0
1994	109,323	19,568	4,045	73,288	0	7	18	12,398	0
1995	116,508	19,422	5,464	76,815	0	315	23	13,832	637
1996	125,595	20,589	6,929	81,458	0	353	33	15,425	809
1997	134,489	20,341	8,033	87,718	0	470	47	16,953	928
1998	122,028	19,415	8,370	76,239	0	688	45	16,386	884
1999	133,014	19,855	10,458	82,741	0	748	43	18,136	1,033
2000	140,966	21,217	12,717	84,410	0	1,088	45	20,273	1,217
2001	143,589	21,788	13,600	83,761	0	1,364	39	21,822	1,217
2002	150,381	22,827	14,928	86,296	0	1,487	37	23,584	1,224
2003	153,972	23,607	15,807	86,607	4	1,720	36	24,796	1,395
2004	155,678	23,511	16,677	85,687	5	1,954	42	26,353	1,449
2005	158,478	23,382	18,304	85,208	0	1,818	42	28,072	1,652
2006	162,528	23,908	19,281	86,256	0	2,059	48	29,427	1,549
2007	167,225	25,295	19,437	87,401	0	2,354	53	31,108	1,576
2008	168,469	27,283	20,345	84,046	0	2,596	63	32,467	1,669
2009	169,567	24,578	20,785	86,250	11	2,919	75	33,235	1,715
2010	184,581	30,381	23,357	89,023	5	3,175	93	36,595	1,953
2011	193,726	35,815	24,287	89,740	0	3,488	117	38,325	1,954
2012	193,771	33,336	25,524	89,418	0	3,999	146	39,264	2,085
2013	195,292	32,912	26,013	89,885	1	4,299	190	39,943	2,049
2014	195,889	35,813	22,506	90,741	1	4,531	256	40,103	1,938
2015	199,347	35,569	22,434	93,977	1	4,507	322	40,630	1,905
2016	207,553	34,370	23,725	99,827	3	5,455	406	41,692	2,075
2017	212,431	33,927	24,954	102,098	2	6,031	534	42,586	2,300
2018	214,001	34,297	25,566	100,411	3	6,397	643	44,148	2,535
2019	211,733	32,887	25,027	101,189	1	5,751	757	43,649	2,471
2020	203,773	31,152	24,741	95,850	0	5,826	842	42,768	2,592
2021	215,797	32,251	25,584	103,310	1	6,241	900	44,809	2,701

1. 천연가스, 도시가스

1. Natural gas, City gas

7. 부문별 최종소비

Total Final Consumption by Sector

단위: 천 toe

Unit: Thousand toe

	최종소비 TFC	산업 Industry	수송 Transport	가정 Residential	상업·공공 Commercial & Public
1990	71,150	36,799	12,141	11,262	10,948
1991	80,179	43,113	13,703	10,300	13,063
1992	89,966	50,075	15,514	9,868	14,509
1993	99,400	54,749	18,319	9,477	16,855
1994	109,323	61,692	20,352	9,235	18,045
1995	116,508	62,276	22,920	10,712	20,600
1996	125,595	67,032	24,430	11,713	22,421
1997	134,489	72,650	26,203	12,076	23,561
1998	122,028	71,775	20,481	10,962	18,810
1999	133,014	76,173	22,374	13,837	20,630
2000	140,966	80,963	25,007	16,273	18,723
2001	143,589	81,673	26,226	17,020	18,671
2002	150,381	85,167	28,008	17,791	19,416
2003	153,972	86,646	29,002	17,877	20,448
2004	155,678	88,125	29,178	18,064	20,312
2005	158,478	89,370	29,730	19,754	19,625
2006	162,528	92,241	30,928	19,613	19,745
2007	167,225	96,978	30,496	18,872	20,879
2008	168,469	98,110	30,007	19,347	21,005
2009	169,567	98,532	30,389	19,349	21,297
2010	184,581	109,981	31,010	20,733	22,857
2011	193,726	119,660	31,016	20,496	22,554
2012	193,771	118,914	31,502	20,407	22,948
2013	195,292	121,318	32,017	20,185	21,772
2014	195,889	122,898	32,407	18,905	21,679
2015	199,347	123,174	34,510	18,971	22,692
2016	207,553	127,696	36,030	20,140	23,686
2017	212,431	130,919	36,261	20,918	24,333
2018	214,001	130,769	36,227	22,114	24,890
2019	211,733	129,223	37,194	21,466	23,850
2020	203,773	124,003	34,746	22,356	22,668
2021	215,797	133,032	36,636	22,940	23,189

1. 천연가스, 도시가스

1. Natural gas, City gas

7-1. 산업부문 에너지소비

단위: 천 toe

	합계 Total	에너지원별(By source)						
		석탄 Coal	가스 ¹ Gas ¹	석유제품 Petroleum products	바이오 및 폐기물 Biofuels and waste	지열, 태양 및 기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
1990	36,799	11,942	239	19,642	0	0	4,975	0
1991	43,113	14,371	319	22,958	0	0	5,464	0
1992	50,075	14,945	386	28,841	0	0	5,904	0
1993	54,749	17,100	478	30,769	0	0	6,402	0
1994	61,692	17,514	617	36,358	0	0	7,203	0
1995	62,276	18,091	875	35,192	33	0	8,085	0
1996	67,032	19,721	1,159	37,191	13	0	8,949	0
1997	72,650	19,727	1,495	41,643	33	0	9,752	0
1998	71,775	18,930	1,813	41,679	246	0	9,107	0
1999	76,173	19,414	2,533	43,863	256	0	10,107	0
2000	80,963	20,746	3,516	45,031	624	0	11,047	0
2001	81,673	21,464	4,181	44,082	611	0	11,335	0
2002	85,167	22,507	4,607	45,450	542	0	12,060	0
2003	86,646	23,293	4,773	45,467	633	0	12,480	0
2004	88,125	23,046	5,148	46,044	757	1	13,130	0
2005	89,370	22,707	5,287	46,355	1,189	1	13,830	0
2006	92,241	23,128	6,165	47,289	1,201	1	14,458	0
2007	96,978	24,552	6,063	49,602	1,334	2	15,426	0
2008	98,110	26,464	6,647	47,435	1,474	1	16,089	0
2009	98,532	23,870	6,866	49,850	1,628	2	16,316	0
2010	109,981	29,695	8,326	51,961	1,545	5	18,449	0
2011	119,660	35,120	9,383	53,255	1,874	9	20,018	0
2012	118,914	32,689	10,503	53,084	2,061	15	20,562	0
2013	121,318	32,243	11,101	53,505	3,254	21	21,194	0
2014	122,898	35,235	8,702	54,194	2,959	21	21,788	0
2015	123,174	35,041	8,668	54,610	2,944	31	21,880	0
2016	127,696	33,918	9,253	58,705	3,622	32	22,165	0
2017	130,919	33,531	9,786	60,738	4,121	34	22,710	0
2018	130,769	33,965	9,615	59,619	4,252	29	23,289	0
2019	129,223	32,617	9,624	60,068	3,945	44	22,925	0
2020	124,003	30,912	9,454	57,699	3,981	48	21,908	0
2021	133,032	32,040	10,058	63,361	4,337	55	23,182	0

1. 천연가스, 도시가스

7-1. Industry

Unit: Thousand toe

업종별(By business)				
농림어업 Agriculture/Forestry/Fishing	광업(석탄광업제외) Mining and Quarrying	제조업 Manufacturing	건설업 Construction	
2,212	237	32,968	1,381	1990
2,201	207	39,049	1,656	1991
2,426	193	45,384	2,072	1992
2,654	166	49,942	1,987	1993
3,021	161	56,561	1,950	1994
3,251	168	56,904	1,953	1995
3,645	162	61,079	2,145	1996
4,019	145	66,085	2,401	1997
3,621	129	66,083	1,942	1998
3,906	124	70,114	2,028	1999
4,138	143	74,538	2,145	2000
4,599	153	74,683	2,238	2001
4,550	163	78,240	2,214	2002
4,005	181	80,189	2,270	2003
3,699	175	81,759	2,492	2004
3,468	186	83,314	2,402	2005
3,549	211	85,810	2,672	2006
3,501	207	90,696	2,574	2007
3,165	196	92,354	2,395	2008
3,290	197	92,239	2,805	2009
3,454	240	103,634	2,653	2010
3,347	261	113,497	2,555	2011
3,461	228	112,825	2,400	2012
3,577	228	115,055	2,457	2013
3,071	208	117,327	2,292	2014
3,008	207	117,437	2,523	2015
3,037	212	121,692	2,755	2016
3,500	205	124,566	2,648	2017
3,506	182	124,603	2,478	2018
3,100	184	123,472	2,468	2019
3,218	201	118,228	2,356	2020
3,144	253	127,417	2,218	2021

1. Natural gas, City gas

7-2. 수송부문 에너지소비

단위: 천 toe

	합계 Total	에너지원별(By source)			
		도시가스 City gas	석유제품 Petroleum products	바이오 및 폐기물 ¹ Biofuels and waste ¹	전기 Electricity
1990	12,141	0	12,054	0	87
1991	13,703	0	13,609	0	94
1992	15,514	0	15,413	0	101
1993	18,319	0	18,211	0	108
1994	20,352	0	20,227	0	124
1995	22,920	0	22,765	0	155
1996	24,430	0	24,285	0	145
1997	26,203	0	26,051	0	151
1998	20,481	0	20,345	0	136
1999	22,374	0	22,225	0	149
2000	25,007	0	24,832	0	175
2001	26,226	7	26,024	0	194
2002	28,008	80	27,733	0	195
2003	29,002	146	28,656	0	200
2004	29,178	237	28,729	0	213
2005	29,730	339	29,167	0	224
2006	30,928	475	30,192	43	218
2007	30,496	615	29,577	95	209
2008	30,007	777	28,858	177	196
2009	30,389	960	28,982	261	187
2010	31,010	1,112	29,352	357	188
2011	31,016	1,174	29,302	347	193
2012	31,502	1,246	29,706	357	194
2013	32,017	1,302	30,154	375	186
2014	32,407	1,306	30,534	394	172
2015	34,510	1,281	32,597	441	191
2016	36,030	1,270	34,006	523	231
2017	36,261	1,253	34,197	564	246
2018	36,227	1,238	34,038	686	265
2019	37,194	1,216	35,022	685	271
2020	34,746	1,099	32,667	695	285
2021	36,636	1,060	34,554	704	318

1. 바이오디젤

7-2. Transport

Unit: Thousand toe

모드별(By mode)				
철도 Rail	도로 Road	해운 Navigation	항공 Aviation	
392	11,202	479	68	1990
404	12,940	349	11	1991
416	14,702	385	10	1992
441	16,528	1,344	6	1993
447	18,670	1,226	9	1994
481	21,218	1,215	6	1995
467	23,287	664	11	1996
473	24,850	868	12	1997
452	19,270	744	15	1998
478	21,175	708	13	1999
513	23,550	930	15	2000
535	24,837	839	15	2001
536	26,481	976	15	2002
549	27,419	1,015	19	2003
511	27,679	969	20	2004
501	28,279	930	21	2005
474	28,535	903	1,017	2006
441	29,100	882	75	2007
424	28,354	913	317	2008
388	28,775	837	389	2009
383	29,462	772	392	2010
371	29,336	770	540	2011
370	29,524	732	876	2012
342	30,447	483	745	2013
302	30,647	346	1,111	2014
309	32,319	569	1,313	2015
335	33,924	487	1,283	2016
343	34,101	453	1,363	2017
356	34,134	345	1,393	2018
346	35,075	409	1,365	2019
333	33,451	336	625	2020
332	34,200	428	1,676	2021

7-3. 건물부문 에너지소비

단위: 천 toe

	합계					
	Total	석탄 Coal	도시가스 City gas	석유제품 Petroleum products	수력 Hydro	바이오 및 폐기물 Biofuels and waste
1990	22,211	8,586	777	9,896	-	6
1991	23,363	6,793	1,227	12,046	-	9
1992	24,377	5,005	1,839	13,768	-	5
1993	26,332	3,472	2,542	16,001	-	7
1994	27,280	2,055	3,428	16,702	-	7
1995	31,313	1,331	4,590	18,858	-	281
1996	34,134	868	5,771	19,982	-	340
1997	35,636	614	6,538	20,023	-	437
1998	29,771	486	6,557	14,214	-	442
1999	34,467	441	7,925	16,653	-	492
2000	34,996	471	9,202	14,548	-	464
2001	35,690	323	9,412	13,655	-	752
2002	37,207	320	10,241	13,113	-	945
2003	38,325	314	10,889	12,484	4	1,087
2004	38,375	465	11,293	10,915	5	1,197
2005	39,379	675	12,677	9,686	0	630
2006	39,358	780	12,641	8,775	0	815
2007	39,751	743	12,760	8,222	0	925
2008	40,352	819	12,922	7,753	0	945
2009	40,646	708	12,960	7,419	11	1,031
2010	43,590	686	13,920	7,710	5	1,273
2011	43,050	695	13,730	7,183	0	1,267
2012	43,355	646	13,775	6,629	0	1,581
2013	41,957	669	13,610	6,226	1	671
2014	40,584	578	12,498	6,013	1	1,178
2015	41,663	528	12,485	6,770	1	1,122
2016	43,827	451	13,202	7,116	3	1,309
2017	45,251	395	13,915	7,163	2	1,346
2018	47,005	332	14,713	6,754	3	1,459
2019	45,316	271	14,187	6,100	1	1,121
2020	45,024	240	14,189	5,484	0	1,150
2021	46,129	211	14,467	5,395	1	1,201

7-3. Building

Unit: Thousand toe

			부문별(By sector)		
지열, 태양 및 기타 Geothermal, solar, etc.	전기 Electricity	열 Heat	가정 Residential	상업·공공 Commercial & Public	
10	2,935	-	11,262	10,948	1990
12	3,277	-	10,300	13,063	1991
13	3,746	-	9,868	14,509	1992
15	4,296	-	9,477	16,855	1993
18	5,070	-	9,235	18,045	1994
23	5,593	637	10,712	20,600	1995
33	6,331	809	11,713	22,421	1996
47	7,049	928	12,076	23,561	1997
45	7,143	884	10,962	18,810	1998
43	7,880	1,033	13,837	20,630	1999
44	9,051	1,217	16,273	18,723	2000
39	10,293	1,217	17,020	18,671	2001
36	11,329	1,224	17,791	19,416	2002
36	12,116	1,395	17,877	20,448	2003
42	13,010	1,449	18,064	20,312	2004
41	14,018	1,652	19,754	19,625	2005
47	14,751	1,549	19,613	19,745	2006
51	15,473	1,576	18,872	20,879	2007
61	16,182	1,669	19,347	21,005	2008
72	16,732	1,715	19,349	21,297	2009
88	17,957	1,953	20,733	22,857	2010
107	18,113	1,954	20,496	22,554	2011
131	18,508	2,085	20,407	22,948	2012
169	18,562	2,049	20,185	21,772	2013
235	18,144	1,938	18,905	21,679	2014
292	18,559	1,905	18,971	22,692	2015
374	19,296	2,075	20,140	23,686	2016
500	19,630	2,300	20,918	24,333	2017
614	20,595	2,535	22,114	24,890	2018
713	20,453	2,471	21,466	23,850	2019
793	20,575	2,592	22,356	22,668	2020
845	21,308	2,701	22,940	23,189	2021

8. 산업별 에너지투입액(2015)

단위: 백만원

	에너지투입액 Amount of Energy Input(A)					
	합계 Total	에너지투입액 비율 (A/B) Ratio of Energy Input (%)	석탄 Coal	원유 및 액화천연가스 Crude oil and LNG	석탄제품 Coal products	석유제품 Petroleum products
농림수산물	1,716,997	2.80	-	-	75,188	951,363
광산물	158,659	3.78	1,832	-	-	59,892
음식료품	1,398,149	1.26	-	-	18	228,736
섬유 및 가죽제품	1,332,443	1.71	-	-	-	235,722
목재 및 종이, 인쇄	1,624,981	3.86	-	-	-	183,726
석탄 및 석유제품	62,956,408	70.58	362,867	56,562,771	2,570	4,152,845
화학제품	36,845,878	15.14	53,201	4,503,290	15,860	26,137,162
비금속광물제품	3,255,337	8.30	198,120	-	26,650	1,358,426
1차 금속제품	10,772,361	9.11	3,650,850	-	327,929	282,477
금속제품	2,817,015	2.66	5,329	-	1,779	522,918
전자부품, 컴퓨터 통신장비 제조	3,936,666	1.57	-	-	-	185,501
정밀기기	224,873	0.78	-	-	-	33,403
전기장비	1,167,873	1.23	-	-	-	276,263
기타 기계 및 장비	1,539,965	1.24	-	-	-	284,100
운송장비	2,615,603	1.04	-	-	-	752,274
기타 제조업 제품 및 임가공	1,753,623	2.18	3,304	-	877	614,508
전력, 가스 및 증기	44,128,464	48.67	7,412,110	21,303,169	-	2,998,678
수도, 폐기물 및 재활용 서비스	1,097,755	5.71	35,323	-	-	141,952
건설	1,797,309	0.86	-	-	8,122	984,031
도소매 서비스	6,363,211	2.67	-	-	59	2,666,213
운송 서비스	17,990,714	13.11	-	-	36,903	16,119,351
음식점 및 숙박 서비스	3,267,782	2.61	-	-	97,551	1,064,948
정보통신 및 방송 서비스	1,590,149	1.18	-	-	-	245,196
금융 및 보험 서비스	1,192,050	0.79	-	-	-	163,778
부동산	2,007,579	1.16	-	-	-	367,629
전문, 과학 및 기술 서비스	8,019,960	4.34	11,387	-	-	1,311,715
사업지원 및 임대 서비스	740,111	0.99	-	-	-	327,422
공공행정·국방	2,150,236	1.74	102	-	29	1,010,400
교육서비스	4,801,782	4.13	-	-	-	1,319,525
보건 및 사회복지 서비스	3,545,832	2.97	-	-	28,894	919,566
문화 및 기타서비스	2,879,068	3.27	-	-	820	973,597
기타	139,228	3.64	1	-	1,818	39,098

주: 2015년 기준

자료: 한국은행

8. Amount of Energy Input by Industry(2015)

Unit: Million KRW

에너지투입액 Amount of Energy Input(A)			중간투입 Inter- mediate Input	부가가치 Value added	총투입 Gross Input (B)	
전력 및 신재생에너지 Electricity and renewables	도시가스 City gas	증기 및 온수 Steam & Air Conditioning supply				
688,332	1,770	344	28,113,380	33,218,435	61,331,815	Agriculture, forestry and fishing
94,049	2,886	-	1,987,709	2,207,516	4,195,225	Mining and quarrying
934,695	212,199	22,501	91,496,275	19,190,714	110,686,989	Food, beverage and tobacco
831,291	135,421	130,009	63,979,781	13,785,098	77,764,879	Textiles, apparel and leather
1,173,148	99,811	168,296	29,543,249	12,604,695	42,147,944	Wood, paper and printing
861,654	51,911	961,790	76,263,662	12,940,336	89,203,998	Coal and petroleum products
4,790,403	534,305	811,657	174,547,758	68,740,235	243,287,993	Chemical products
1,285,648	386,493	-	27,219,431	11,978,643	39,198,074	Non-metallic mineral products
5,594,533	916,572	-	95,458,130	22,786,864	118,244,994	Basic metal products
1,778,435	508,554	-	68,592,332	37,424,328	106,016,660	Metal products
3,422,792	301,972	26,401	168,836,282	82,351,982	251,188,264	Electronic components, computer, communication equipment
156,129	35,114	227	19,461,683	9,460,247	28,921,930	Precision instruments
573,202	318,408	-	66,495,796	28,440,514	94,936,310	Electrical equipment
1,008,937	237,376	9,552	88,246,352	36,030,761	124,277,113	Other machinery and equipment
1,579,100	284,229	-	208,342,225	43,055,197	251,397,422	Transport equipment
923,898	121,336	89,700	45,642,982	34,648,690	80,291,672	Other manufacturing and tall processing
736,121	10,837,443	840,943	58,661,187	32,006,611	90,667,798	Electricity, gas and steam
894,323	25,850	307	8,957,877	10,261,895	19,219,772	Water, waste and recovery services
703,072	81,043	21,041	130,085,285	79,611,682	209,696,967	Construction
3,452,015	140,747	104,177	112,267,256	126,155,884	238,423,140	Wholesale and retail trade
1,182,105	638,317	14,038	82,152,644	55,048,642	137,201,286	Transport
1,218,727	866,398	20,158	86,380,918	38,683,922	125,064,840	Accommodation and food services
1,286,844	56,995	1,114	63,146,682	71,307,147	134,453,829	Information and communications
917,118	78,501	32,653	64,695,075	86,276,763	150,971,838	Financial and insurance activities
1,508,321	127,797	3,832	45,100,542	127,667,465	172,768,007	Real estate activities
5,782,451	866,261	48,146	91,515,267	93,396,065	184,911,332	Professional, scientific and technical activities
365,449	45,276	1,964	23,046,945	51,780,891	74,827,836	Business support services: rental and leasing activities
906,844	232,326	535	27,887,845	95,491,004	123,378,849	Public administration and defence
2,539,873	874,640	67,744	35,907,649	80,368,119	116,275,768	Education
1,530,208	1,057,926	9,238	56,476,962	63,044,833	119,521,795	Human health and social work activities
1,458,417	390,949	55,285	48,218,192	39,741,220	87,959,412	Art, sport, recreation and other services
51,291	45,287	1,733	3,824,174	-	3,824,174	Others

Note: Based on 2015
Source: Bank of Korea



2. 석탄

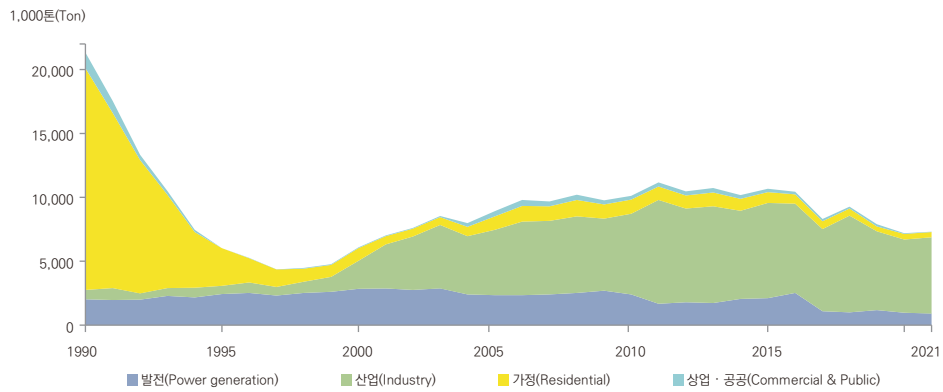
Coal

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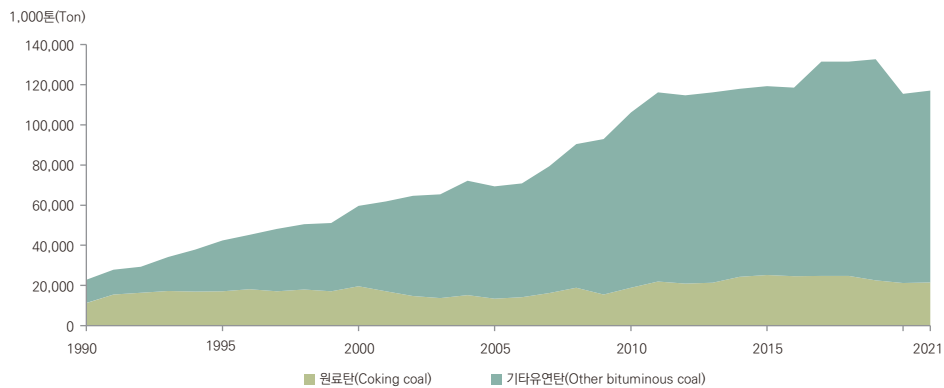
● 무연탄 소비 Anthracite Consumption

〈1990~2021〉



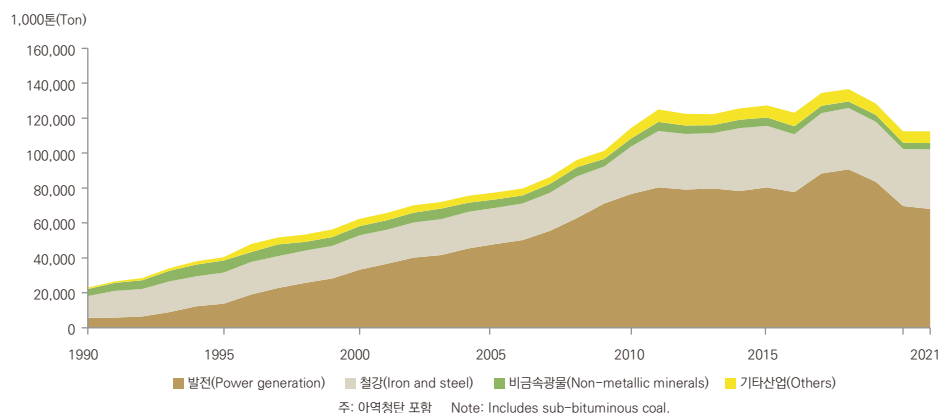
● 유연탄 수입 Bituminous Coal Imports

〈1990~2021〉



● 유연탄 소비 Bituminous Coal Consumption

〈1990~2021〉



1. 석탄 수급

단위: 천 톤

	무연탄 ¹ Anthracite ¹					
	공급 Supply				소비 Consumption	
	국내생산 Production	수입 Imports	재고 Stocks	일차에너지공급 TPES	발전 Power generation	최종소비 TFC
1990	17,217	1,072	8,013	20,324	2,013	19,314
1991	15,058	1,410	8,272	16,209	1,978	15,574
1992	11,969	809	7,725	13,325	2,008	11,327
1993	9,443	783	6,955	10,996	2,284	8,218
1994	7,438	699	7,769	7,323	2,180	5,287
1995	5,720	723	8,492	5,720	2,429	3,603
1996	4,951	875	8,937	5,381	2,514	2,740
1997	4,512	722	9,720	4,451	2,305	2,047
1998	4,361	789	10,269	4,601	2,527	1,951
1999	4,197	1,139	10,737	4,868	2,597	2,161
2000	4,150	2,038	10,774	6,151	2,850	3,230
2001	3,817	3,110	10,576	7,125	2,875	4,154
2002	3,318	3,879	10,101	7,672	2,751	4,862
2003	3,298	4,640	9,527	8,512	2,880	5,661
2004	3,191	4,251	8,894	8,069	2,415	5,578
2005	2,832	4,567	7,388	8,900	2,359	6,571
2006	2,824	5,113	5,551	9,773	2,356	7,440
2007	2,886	5,444	4,231	9,647	2,392	7,298
2008	2,773	5,955	2,797	10,140	2,534	7,670
2009	2,519	6,468	2,226	9,557	2,690	7,078
2010	2,084	7,406	1,853	9,858	2,404	7,700
2011	2,084	8,816	1,720	11,013	1,659	9,523
2012	2,094	8,055	1,628	10,230	1,797	8,682
2013	1,815	8,482	1,457	10,450	1,729	8,994
2014	1,748	8,294	1,610	9,862	2,044	8,129
2015	1,764	8,938	1,798	10,493	2,125	8,533
2016	1,726	9,424	2,151	10,796	2,528	7,907
2017	1,485	7,003	2,441	8,198	1,079	7,239
2018	1,202	8,201	2,589	9,248	992	8,277
2019	1,084	6,858	2,650	7,881	1,165	6,737
2020	1,019	6,286	2,772	7,183	971	6,221
2021	898	6,475	2,810	7,334	900	6,424

1. 국내무연탄, 수입무연탄

2. 원료탄, 기타유연탄, 아역청탄

3. 일차에너지소비

자료 : 대한석탄협회, 무역협회

1. Coal Overview

Unit: Thousand tons

유연탄 및 기타 석탄 ² Bituminous and sub-bituminous coal ²								
수입 Imports				소비 Consumption				
소계 Subtotal	원료탄 Coking coal	기타유연탄 Other bituminous coal	아역청탄 Sub- bituminous coal	소계 ³ Subtotal ³	발 전 Power generation	철 강 Iron & steel	비금속광물 및 기타산업 Non-metallic minerals & others	
22,846	11,286	11,560	0	23,111	5,724	12,457	4,930	1990
27,849	15,545	12,304	0	26,679	5,777	15,269	5,634	1991
29,768	16,381	12,940	446	28,499	6,385	15,738	6,376	1992
34,929	17,321	16,871	737	34,203	9,008	17,483	7,712	1993
38,507	16,902	20,952	653	38,119	12,299	17,273	8,547	1994
43,113	17,152	25,207	755	40,362	13,752	17,890	8,720	1995
45,398	18,184	26,976	238	47,929	19,019	18,570	10,340	1996
48,860	17,099	31,138	623	51,809	22,714	18,356	10,739	1997
51,417	17,943	32,622	851	53,381	25,682	18,485	9,214	1998
52,315	17,047	34,054	1,214	56,413	28,297	18,634	9,482	1999
61,807	19,568	40,032	2,207	62,478	33,305	19,631	9,542	2000
63,629	17,109	44,748	1,772	65,839	36,601	19,580	9,657	2001
66,235	14,759	49,881	1,595	70,250	40,143	20,205	9,901	2002
67,060	13,794	51,525	1,741	72,091	41,631	20,648	9,811	2003
74,714	15,122	56,981	2,610	75,681	45,512	20,779	9,389	2004
72,192	13,452	55,878	2,862	77,406	47,852	20,890	8,663	2005
74,594	14,130	56,758	3,706	79,848	50,199	20,965	8,684	2006
82,840	16,281	63,074	3,486	86,234	55,487	21,736	9,012	2007
93,629	18,831	71,638	3,160	96,036	62,791	23,835	9,410	2008
96,514	15,481	77,471	3,562	101,332	71,091	21,182	9,059	2009
111,186	18,943	87,153	5,090	114,504	76,674	27,210	10,620	2010
120,334	21,965	94,154	4,215	125,025	80,393	32,368	12,264	2011
117,479	20,895	93,750	2,834	122,602	79,136	31,948	11,518	2012
118,025	21,404	94,818	1,803	122,247	79,692	31,747	10,808	2013
122,738	24,361	93,512	4,865	125,638	78,227	36,070	11,341	2014
126,145	25,210	94,111	6,824	127,386	80,354	35,310	11,722	2015
125,038	24,652	93,816	6,569	123,215	77,691	33,079	12,445	2016
141,233	24,719	106,745	9,769	134,430	88,309	34,601	11,519	2017
140,518	24,716	106,803	8,999	136,681	90,764	35,107	10,809	2018
134,537	22,622	110,045	1,870	128,434	83,637	34,316	10,481	2019
117,207	21,234	94,139	1,833	112,511	69,772	32,690	10,050	2020
119,142	21,511	95,595	2,036	112,295	68,040	34,096	10,159	2021

1. Domestic and imported anthracite

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

3. Total primary energy consumption

Source : Korea Coal Association, Korea International Trade Association

2. 석탄수입량 및 수입액

단위: 천 톤

Unit: Thousand tons

	합계 Total	무연탄 Anthracite	원료탄 Coking coal	기타유연탄 Other bituminous	아역청탄 Sub- Bituminous	갈탄 Lignite/ Brown coal	토탄 Peat	고형연료 Patent Fuel	코크스 Coke Oven Coke
1990	24,119	1,072	11,286	11,560	0	35	21	-	145
1991	29,434	1,410	15,545	12,304	0	19	4	0	151
1992	30,764	809	16,381	12,940	446	16	5	0	166
1993	35,928	783	17,321	16,871	737	3	8	0	205
1994	39,448	699	16,902	20,952	653	6	8	0	227
1995	44,074	723	17,152	25,207	755	5	12	-	221
1996	46,531	875	18,184	26,976	238	9	16	0	233
1997	49,858	722	17,099	31,138	623	3	18	-	254
1998	52,437	789	17,943	32,622	851	0	5	-	225
1999	53,722	1,139	17,047	34,054	1,214	0	10	-	258
2000	64,170	2,038	19,568	40,032	2,207	2	18	0	305
2001	67,035	3,110	17,109	44,748	1,772	1	23	0	272
2002	70,473	3,879	14,759	49,881	1,595	1	25	40	293
2003	72,153	4,640	13,794	51,525	1,741	1	28	-	425
2004	79,697	4,251	15,122	56,981	2,610	0	38	6	689
2005	77,153	4,567	13,452	55,878	2,862	0	44	9	341
2006	80,067	5,113	14,130	56,758	3,706	1	40	5	314
2007	88,899	5,444	16,281	63,074	3,486	0	51	12	551
2008	100,398	5,955	18,831	71,638	3,160	5	52	56	700
2009	103,309	6,468	15,481	77,471	3,562	0	39	32	256
2010	119,304	7,406	18,943	87,153	5,090	0	50	34	629
2011	129,712	8,816	21,965	94,154	4,215	3	61	92	406
2012	126,036	8,055	20,895	93,750	2,834	2	58	74	368
2013	126,996	8,482	21,404	94,818	1,803	1	61	62	364
2014	131,563	8,294	24,361	93,512	4,865	2	66	56	406
2015	135,610	8,938	25,210	94,111	6,824	3	72	61	390
2016	134,930	9,424	24,652	93,816	6,569	2	65	59	343
2017	148,678	7,003	24,719	106,745	9,769	1	69	25	347
2018	149,170	8,201	24,716	106,803	8,999	0	62	15	374
2019	141,792	6,858	22,622	110,045	1,870	0	63	5	328
2020	123,886	6,286	21,234	94,139	1,833	0	101	1	291
2021	126,099	6,475	21,511	95,595	2,036	0	145	0	338

자료: 한국무역협회

2. Coal Imports and Prices

단위: 백만\$(CIF)

Unit: Million USD(CIF)

합계 Total	무연탄 Anthracite	원료탄 Coking coal	기타유연탄 Other bituminous	아역청탄 Sub- Bituminous	갈탄 Lignite/ Brown coal	토탄 Peat	고형연료 Patent Fuel	코크스 Coke Oven Coke	
1,288	52	665	552	0	3	1	0	16	1990
1,600	66	928	586	0	2	1	0	18	1991
1,020	42	939	-	18	1	1	0	18	1992
1,732	40	944	698	28	0	2	0	20	1993
1,777	33	860	835	23	1	2	0	23	1994
2,108	35	920	1,072	27	0	4	27	24	1995
2,337	46	1,031	1,219	9	1	5	0	26	1996
2,399	38	961	1,340	27	0	5	-	28	1997
2,229	36	940	1,207	22	0	1	0	23	1998
1,966	46	770	1,096	29	0	2	-	22	1999
2,186	72	830	1,203	51	0	3	0	26	2000
2,347	118	740	1,418	43	0	4	0	25	2001
2,475	148	670	1,584	39	0	5	1	27	2002
2,552	177	635	1,631	48	0	5	0	56	2003
4,438	233	1,050	2,841	94	0	7	0	212	2004
5,443	429	1,483	3,320	115	0	10	1	86	2005
5,318	407	1,626	3,074	145	0	9	0	57	2006
6,445	447	1,723	3,951	155	0	11	2	155	2007
12,800	991	4,297	6,859	213	1	4	13	423	2008
9,995	672	2,510	6,487	218	0	10	10	88	2009
13,131	1,016	3,372	8,053	412	0	13	10	254	2010
18,477	1,774	5,496	10,557	435	1	16	22	177	2011
16,069	1,361	4,239	9,982	308	1	15	19	146	2012
13,074	1,143	3,218	8,406	174	1	17	11	106	2013
12,114	921	3,056	7,667	344	1	18	8	100	2014
9,961	813	2,539	6,136	372	1	16	8	76	2015
9,310	759	2,588	5,580	299	1	14	6	62	2016
15,179	933	4,556	8,925	647	0	16	4	98	2017
16,703	1,199	4,522	10,146	685	0	15	4	132	2018
14,209	927	3,880	9,182	102	0	14	2	102	2019
9,596	611	2,549	6,256	88	0	19	0	74	2020
14,699	889	3,776	9,710	159	0	29	0	137	2021

Source : Korea International Trade Association

3. 지역별 무연탄 수입량

Anthracite Coal Imports by Origin

	합계 Total	아시아 Asia	중동 Middle East	유럽 Europe	북미 North America	중남미 Centre and South America	아프리카 Africa	대양주 Oceania	기타 Others
	1,000 ton								
1990	1,072	580	-	85	36	-	-	-	371
1991	1,410	1,212	79	119	-	-	-	-	-
1992	809	779	-	30	-	-	-	-	-
1993	783	783	-	-	-	-	-	-	-
1994	699	699	-	-	0	-	-	-	-
1995	723	688	-	-	-	-	35	-	-
1996	875	842	-	-	0	-	32	-	-
1997	722	651	-	10	-	-	60	-	-
1998	789	789	-	-	-	-	-	-	-
1999	1,139	1,096	-	-	-	-	27	16	-
2000	2,038	1,616	-	-	-	-	-	422	-
2001	3,110	2,530	-	-	-	-	-	580	-
2002	3,879	2,966	-	0	-	-	-	913	-
2003	4,640	3,629	-	-	-	-	-	1,011	-
2004	4,251	3,180	-	33	33	-	-	1,006	-
2005	4,567	3,119	-	16	104	-	-	1,296	32
2006	5,113	3,168	-	233	408	-	-	1,304	-
2007	5,444	3,491	-	175	45	7	-	1,726	-
2008	5,955	4,253	-	71	0	-	-	1,631	-
2009	6,468	4,168	-	124	-	0	16	2,157	3
2010	7,406	4,603	-	620	-	-	0	2,156	26
2011	8,816	4,294	-	1,326	261	-	-	2,934	-
2012	8,055	3,660	-	1,457	22	-	-	2,916	-
2013	8,482	2,791	-	1,966	-	-	-	3,725	-
2014	8,294	2,667	-	1,724	-	-	-	3,903	-
2015	8,938	1,529	-	2,787	-	-	-	4,622	-
2016	9,424	1,472	-	3,904	-	-	148	3,900	-
2017	7,003	1,388	21	3,232	-	65	243	2,054	-
2018	8,201	1,432	-	4,166	-	95	-	2,507	-
2019	6,858	688	-	3,031	-	98	-	3,041	-
2020	6,286	333	-	3,211	-	88	0	2,655	-
2021	6,475	275	0	2,617	-	92	-	3,491	-

자료: 한국무역협회

Source: Korea International Trade Association

4. 지역별 유연탄 수입량

Bituminous Coal Imports by Origin

	합계 Total	아시아 Asia	중동 Middle East	유럽 Europe	북미 North America	중남미 Centre and South America	아프리카 Africa	대양주 Oceania	기타 Others
	1,000 ton								
1990	22,846	2,778	-	1,065	7,821	-	-	8,413	2,769
1991	27,849	3,426	141	549	10,260	112	-	11,029	2,333
1992	29,321	4,200	-	359	7,618	-	-	14,616	2,528
1993	34,191	5,581	-	952	8,201	-	3,820	15,638	-
1994	37,854	7,848	-	674	7,946	-	4,512	16,874	-
1995	42,359	9,719	-	888	9,668	-	4,161	17,924	-
1996	45,160	10,863	-	813	9,477	-	4,681	19,328	-
1997	48,237	11,682	-	1,089	8,368	-	4,830	22,268	-
1998	50,566	11,821	-	649	8,669	65	3,806	25,555	-
1999	51,101	17,456	-	844	7,006	-	4,124	21,670	-
2000	59,601	25,098	-	2,565	7,163	-	2,503	22,238	33
2001	61,857	29,392	-	1,947	6,093	-	264	24,161	-
2002	64,640	31,085	-	2,937	4,543	-	-	26,074	-
2003	65,318	33,063	-	3,070	3,853	-	-	25,333	-
2004	72,103	32,557	-	5,280	5,135	-	-	29,131	-
2005	69,330	31,090	-	3,547	4,913	-	-	29,779	-
2006	70,888	33,675	-	4,799	4,814	-	-	27,600	-
2007	79,355	39,101	-	6,181	6,276	-	301	27,495	-
2008	90,469	38,522	-	7,450	7,519	-	609	36,369	-
2009	92,952	38,229	-	4,796	9,051	72	604	40,200	-
2010	106,096	41,992	-	8,281	12,572	1,696	2,346	39,209	-
2011	116,118	40,580	-	11,883	20,167	306	3,030	40,152	-
2012	114,645	38,066	-	11,243	18,371	1,936	3,017	42,012	-
2013	116,222	37,231	-	13,291	18,944	324	202	46,230	-
2014	117,873	34,952	-	15,748	16,116	9	520	50,528	-
2015	119,322	30,388	-	19,978	12,744	173	244	55,794	-
2016	118,468	33,887	-	21,818	10,310	2,619	2,424	47,411	-
2017	131,464	36,094	111	22,845	14,508	3,786	8,756	45,364	-
2018	131,520	34,201	-	25,679	15,953	5,439	8,370	41,878	-
2019	132,667	30,599	-	26,660	16,153	5,255	5,021	48,980	-
2020	115,373	24,262	-	23,285	15,571	4,898	2,401	44,957	-
2021	117,106	19,634	0	19,489	13,027	2,793	4,136	58,026	-

자료: 한국무역협회

Source: Korea International Trade Association

5. 부문별 석탄 소비

단위: 천 톤

	무연탄 Anthracite											
	발전 Power generation			산업 Industrial			가정 Residential			상업·공공 Commercial & Public		
	소계 Subtotal	국내탄 Domestic	수입탄 Imported	소계 Subtotal	국내탄 Domestic	수입탄 Imported	소계 Subtotal	국내탄 Domestic	수입탄 Imported	소계 Subtotal	국내탄 Domestic	수입탄 Imported
1990	2,013	1,983	30	754	602	152	17,343	15,885	1,457	1,218	1,115	102
1991	1,978	1,973	5	909	473	435	13,703	12,499	1,204	962	878	85
1992	2,008	1,863	145	472	309	163	10,448	9,678	770	408	377	30
1993	2,284	2,205	79	615	223	391	7,318	6,997	321	285	273	13
1994	2,180	2,151	29	743	138	605	4,374	4,311	63	171	168	2
1995	2,429	2,321	108	650	52	598	2,942	2,924	18	11	11	0
1996	2,514	2,421	93	813	34	779	1,920	1,916	4	7	7	0
1997	2,305	2,241	64	682	24	658	1,360	1,360	-	5	5	-
1998	2,527	2,421	106	871	150	722	1,031	1,031	-	48	48	-
1999	2,597	2,502	95	1,180	136	1,044	937	937	-	44	44	-
2000	2,850	2,850	-	2,183	145	2,038	1,000	1,000	-	47	47	-
2001	2,875	2,689	186	3,436	512	2,924	639	639	-	78	78	-
2002	2,751	2,558	193	4,175	489	3,686	611	611	-	75	75	-
2003	2,880	2,710	170	4,966	489	4,477	619	610	9	76	75	1
2004	2,415	2,356	59	4,552	356	4,197	717	709	8	308	305	3
2005	2,359	2,354	5	5,091	517	4,574	1,060	1,033	27	420	409	11
2006	2,356	2,356	-	5,736	596	5,140	1,250	1,194	55	454	434	20
2007	2,392	2,156	236	5,775	509	5,266	1,143	1,023	120	379	340	40
2008	2,534	1,960	574	5,989	574	5,414	1,285	1,215	71	396	374	22
2009	2,690	1,360	1,330	5,640	452	5,187	1,119	1,007	112	319	287	32
2010	2,404	839	1,565	6,310	422	5,888	1,100	988	112	290	260	30
2011	1,659	543	1,116	8,138	407	7,731	1,060	987	73	325	302	22
2012	1,797	591	1,206	7,315	431	6,884	1,036	959	77	332	307	25
2013	1,729	323	1,406	7,571	446	7,125	1,079	974	105	344	311	33
2014	2,044	250	1,794	6,908	349	6,559	943	806	137	278	237	40
2015	2,125	245	1,880	7,422	319	7,103	864	760	104	247	217	30
2016	2,528	240	2,288	6,962	279	6,682	736	664	72	210	190	20
2017	1,079	235	844	6,425	249	6,177	633	592	41	181	169	12
2018	992	230	762	7,589	216	7,374	535	513	22	153	147	6
2019	1,165	400	765	6,171	73	6,098	388	366	22	178	168	10
2020	971	400	571	5,715	2	5,713	462	447	15	44	42	1
2021	900	400	500	5,977	2	5,975	409	409	-	39	39	-

1. 원료탄, 기타유연탄, 아역청탄
자료: 대한석탄협회

5. Coal Consumption by Sector

Unit: Thousand tons

유연탄 및 기타 석탄 ¹ Bituminous and sub-bituminous coal ¹										
발전 Power generation	산업 Industrial									
	소계 Subtotal	식품및담배 Food & Tobacco	섬유및가죽 Textile & Leather	화학및석유화학 Chemical & Petrochemical	비금속광물 Non-metallic Minerals	철강 Iron & Steel	비철금속 Non-ferrous metals	기타 Others		
5,724	17,387	23	494	262	4,030	12,457	-	122	1990	
5,777	20,902	25	508	317	4,776	15,269	-	8	1991	
6,385	22,114	54	670	448	5,194	15,738	-	9	1992	
9,008	25,195	60	820	668	6,152	17,483	-	11	1993	
12,299	25,820	68	906	703	6,694	17,273	164	12	1994	
13,752	26,610	68	745	923	6,831	17,890	141	12	1995	
19,019	28,910	76	1,050	1,056	5,758	18,570	202	2,199	1996	
22,714	29,095	74	1,003	1,162	6,593	18,356	153	1,754	1997	
25,682	27,699	68	1,021	1,177	5,019	18,485	153	1,777	1998	
28,297	28,116	69	1,104	1,227	5,069	18,634	138	1,875	1999	
33,305	29,173	63	1,831	2,175	5,308	19,631	164	1	2000	
36,601	29,237	68	1,830	2,122	5,475	19,580	162	-	2001	
40,143	30,107	69	1,833	2,167	5,669	20,205	162	-	2002	
41,631	30,459	64	1,474	2,017	6,060	20,648	168	28	2003	
45,512	30,169	61	1,516	2,309	5,309	20,779	166	27	2004	
47,852	29,554	64	1,523	2,107	4,807	20,890	163	-	2005	
50,199	29,649	60	1,525	2,194	4,738	20,965	166	-	2006	
55,487	30,748	63	1,630	2,100	5,051	21,736	167	-	2007	
62,791	33,245	58	1,622	2,307	5,236	23,835	187	-0	2008	
71,091	30,241	61	1,588	2,446	4,463	21,182	500	-0	2009	
76,674	37,830	62	1,910	3,744	4,564	27,210	316	23	2010	
80,393	44,632	61	1,918	4,878	5,046	32,368	335	26	2011	
79,136	43,466	62	1,870	4,585	4,625	31,948	351	25	2012	
79,692	42,555	61	1,813	3,868	4,647	31,747	393	26	2013	
78,227	47,411	62	1,689	4,230	4,916	36,070	419	25	2014	
80,354	47,032	65	1,640	4,817	4,650	35,310	526	24	2015	
77,691	45,524	65	1,650	5,390	4,591	33,079	553	196	2016	
88,309	46,121	48	1,588	4,879	4,175	34,601	606	223	2017	
90,764	45,917	-	1,546	4,705	3,709	35,107	595	254	2018	
83,637	44,797	-	1,317	4,446	3,989	34,316	599	130	2019	
69,772	42,740	-	1,143	4,661	3,404	32,690	695	146	2020	
68,040	44,255	-	1,202	4,627	3,649	34,096	536	146	2021	

1. Coking coal, other bituminous and sub-bituminous coal
Source: Korea Coal Association

6. 무연탄 재고

단위: 천 톤

Unit: Thousand tons

	합계 Total	연탄공장 Briquette Factory	정부비축 Government	탄광 Mine	입항지 Port
1995	8,492	1,747	4,058	2,156	531
1996	8,937	1,292	5,033	2,149	463
1997	9,720	1,064	6,038	2,218	400
1998	10,269	939	7,024	1,955	351
1999	10,737	701	7,801	1,936	299
2000	10,774	538	8,111	1,829	296
2001	10,576	581	8,111	1,592	292
2002	10,101	402	8,111	1,344	244
2003	9,527	400	8,061	825	241
2004	8,894	304	8,061	401	128
2005	7,388	201	6,943	227	17
2006	5,551	620	4,671	260	-
2007	4,231	529	3,445	257	-
2008	2,797	607	2,026	164	-
2009	2,226	537	1,596	93	-
2010	1,853	479	1,308	66	-
2011	1,720	514	1,142	64	-
2012	1,628	471	1,080	77	-
2013	1,457	435	924	98	-
2014	1,610	600	899	111	-
2015	1,798	631	899	268	-
2016	2,151	661	899	591	-
2017	2,441	671	899	871	-
2018	2,589	630	905	1,054	-
2019	2,650	391	918	1,341	-
2020	2,772	213	932	1,627	-
2021	2,810	105	944	1,761	-

자료: 대한석탄협회

Source: Korea Coal Association

7. 생산규모별 국내 탄광 현황

Number of Anthracite Mines by Production Scale

단위: 개

Unit: Each

	합계 Total	5만톤 미만 50,000 M/T Under	5~10만톤 50,000~ 100,000 M/T	10~30만톤 100,000~ 300,000 M/T	30~50만톤 300,000~ 500,000 M/T	50만톤 이상 500,000 M/T Over
1995	27	15	3	2	2	5
1996	11	1	1	2	3	4
1997	11	1	1	2	4	3
1998	12	2	1	2	4	3
1999	11	1	1	2	4	3
2000	12	2	1	3	3	3
2001	13	3	1	3	3	3
2002	10	1	1	4	2	2
2003	9	0	2	3	2	2
2004	9	0	1	4	2	2
2005	8	0	2	3	1	2
2006	7	0	1	3	1	2
2007	7	0	1	3	1	2
2008	7	0	1	3	1	2
2009	6	1	0	2	1	2
2010	5	0	0	2	1	2
2011	5	0	0	2	1	2
2012	5	0	0	2	1	2
2013	5	0	1	1	1	2
2014	5	1	0	2	0	2
2015	5	1	0	1	2	1
2016	5	1	0	1	2	1
2017	5	1	0	1	2	1
2018	5	1	0	3	0	1
2019	4	0	0	3	0	1
2020	4	0	1	2	0	1
2021	4	0	1	2	0	1

자료: 대한석탄협회, 대한석탄공사

Source : Korea Coal Association, Korea Coal Corporation

8. 석탄광 종업원 수 및 생산성(O.M.S)

Coal Mining Employees and Output per Man Shift

	대한석탄공사 Korea Coal Corporation		민영 Private		합계 Total	
	종업원 수 Employees	생산성 O.M.S	종업원 수 Employees	생산성 O.M.S	종업원 수 Employees	생산성 O.M.S
	명(person)	톤(ton)	명(person)	톤(ton)	명(person)	톤(ton)
1981	15,800	1.12	44,502	1.25	60,302	1.21
1982	16,707	1.07	45,603	1.18	62,310	1.15
1983	15,358	1.10	44,565	1.22	59,923	1.19
1984	14,952	1.15	48,666	1.24	63,618	1.22
1985	14,992	1.18	52,114	1.23	67,136	1.22
1986	12,134	1.21	53,727	1.27	68,861	1.26
1987	15,341	1.20	53,150	1.28	68,491	1.26
1988	14,260	1.25	47,999	1.38	62,259	1.35
1989	12,880	1.33	35,054	1.50	47,934	1.46
1990	10,679	1.33	27,422	1.65	38,101	1.56
1991	10,450	1.40	22,111	1.76	32,561	1.65
1992	9,500	1.33	16,512	1.78	26,021	1.61
1993	7,949	1.29	11,512	1.83	19,461	1.61
1994	6,370	1.32	8,555	1.86	14,925	1.63
1995	5,434	1.24	6,301	1.99	11,735	1.65
1996	5,031	1.20	5,694	2.01	10,725	1.62
1997	4,556	1.24	5,167	2.03	9,723	1.66
1998	3,790	1.28	4,786	2.10	8,576	1.71
1999	3,706	1.37	4,508	2.18	8,214	1.80
2000	3,768	1.38	4,439	2.23	8,207	1.81
2001	3,543	1.29	3,626	2.22	7,169	1.77
2002	3,232	1.23	3,392	2.29	6,624	1.75
2003	3,255	1.30	3,347	2.67	6,602	1.77
2004	3,268	1.35	2,590	2.29	5,876	1.81
2005	3,351	1.47	2,385	2.62	5,736	1.96
2006	3,553	1.51	2,387	2.71	5,940	1.99
2007	3,464	1.67	2,333	2.70	5,797	2.08
2008	3,115	1.72	1,872	2.89	4,987	2.17
2009	2,754	1.95	1,708	2.79	4,462	2.26
2010	2,668	1.82	1,382	2.86	4,050	2.18
2011	2,378	1.89	1,390	2.99	3,768	2.30
2012	2,424	1.98	1,384	2.96	3,808	2.35
2013	2,375	2.04	1,052	2.70	3,427	2.25
2014	2,033	2.10	1,071	2.81	3,104	2.35
2015	2,063	2.20	1,063	2.90	3,126	2.45
2016	2,121	2.14	1,051	2.84	3,172	2.39
2017	2,004	1.98	889	2.76	2,893	2.23
2018	1,634	1.58	856	2.69	2,490	1.95
2019	1,491	1.52	856	2.73	2,347	1.95
2020	1,371	1.40	848	2.78	2,219	1.91
2021	1,242	1.30	798	2.71	2,040	1.83

자료: 대한석탄협회

Source: Korea Coal Association

9. 연탄 공장 현황

단위: 개

	합계 Total	서울 Seoul	부산 Busan	대구 Daegu	인천 Inchun	광주 Gwangju	대전 Daejeon	울산 Ulsan	세종 Sejong
2000	81	4	4	4	-	2	3	-	-
2001	80	4	4	4	-	2	3	-	-
2002	73	3	3	4	-	2	3	-	-
2003	68	3	2	4	-	1	3	-	-
2004	64	3	2	4	-	1	3	-	-
2005	62	3	3	4	-	1	3	-	-
2006	59	3	3	4	-	1	3	-	-
2007	60	3	3	4	-	1	3	-	-
2008	52	2	1	3	-	1	3	-	-
2009	51	2	1	3	-	1	3	-	-
2010	50	2	1	3	-	1	3	-	-
2011	51	2	1	3	-	1	3	-	-
2012	49	2	1	3	-	1	3	-	1
2013	48	2	1	3	-	1	3	-	1
2014	48	2	1	3	-	1	3	-	1
2015	49	2	1	3	-	1	3	-	1
2016	46	2	1	3	-	1	3	-	1
2017	48	2	1	3	-	1	3	-	1
2018	45	2	-	-	-	1	3	-	-
2019	44	2	-	-	-	1	3	-	-
2020	39	1	-	-	-	1	3	-	-
2021	34	1	-	-	-	1	3	-	-

주: 지역별 연탄생산용 무연탄 소비 기준

자료: 대한석탄협회

9. Number of Briquette Factories

Unit: Each

경기 Gyeonggi	강원 Gangwon	충북 Chungbuk	충남 Chungnam	전북 Jeonbuk	전남 Jeonnam	경북 Gyeongbuk	경남 Gyeongnam	제주 Jeju	
3	14	5	5	7	8	18	3	1	2000
3	14	5	5	7	7	18	3	1	2001
3	14	5	4	7	6	15	3	1	2002
2	12	5	5	7	6	14	3	1	2003
2	11	5	5	7	6	13	2	-	2004
2	11	5	5	4	6	13	2	-	2005
2	10	5	3	4	6	13	2	-	2006
2	11	5	3	4	6	13	2	-	2007
2	11	5	3	2	4	13	2	-	2008
2	11	5	3	2	3	13	2	-	2009
2	11	5	3	2	2	14	1	-	2010
2	11	6	3	2	2	14	1	-	2011
2	10	6	2	2	2	13	1	-	2012
1	10	6	2	2	2	13	1	-	2013
1	10	6	2	2	2	13	1	-	2014
1	11	6	2	2	2	13	1	-	2015
1	10	6	2	2	2	11	1	-	2016
1	11	6	2	2	2	12	1	-	2017
1	12	6	2	1	2	14	1	-	2018
1	12	6	2	1	1	14	1	-	2019
1	11	4	2	1	1	13	1	-	2020
1	10	4	2	1	1	10	-	-	2021

Note: Anthracite consumption for briquette production

Source: Korea Coal Association

10. 연탄 가격 추이

Trend of Briquette Price

	공장도 Plant Gate Price		판매소도 Seller's Gate Price		가정도 House Gate Price	
	가격 Price	인상율 Increasing	가격 Price	인상율 Increasing	가격 Price	인상율 Increasing
	원(KRW)	%	원(KRW)	%	원(KRW)	%
1976. 5. 14	29.20	3.5	32.20	3.2	36.00	2.9
1977. 2. 4	37.70	29.1	41.00	27.3	45.00	25.0
12. 18	49.50	31.3	54.50	32.9	60.00	33.3
1979. 4. 16	70.00	41.4	80.00	46.8	85.00	41.7
1980. 5. 4	96.50	37.9	109.00	13.6	115.00	35.3
1981. 4. 19	116.50	20.7	131.00	20.2	138.00	20.0
8. 14	131.00	12.4	145.50	11.1	153.00	10.9
1982. 7. 1	135.00	3.1	150.00	3.1	158.00	3.3
1983. 5. 13	135.00	-	150.00	-	158.00	-
1984. 5. 17	135.00	-	150.00	-	158.00	5.1
1985. 4. 14	140.00	3.7	151.00	0.7	166.00	3.0
9. 5	145.00	3.6	156.00	3.3	171.00	4.1
1986. 5. 5	151.00	4.1	168.00	7.7	178.00	-
1987. 4. 4	160.00	6.0	177.00	5.4	187.00	5.1
1988. 5. 10	167.25	4.5	185.00	4.5	195.00	4.3
1989. 6. 3	167.25	-	185.00	4.5	195.00	-
1990. 9. 6	167.25	-	185.00	-	200.00	2.6
1991. 10. 2	167.25	-	시·도지사결정	-	시·도지사결정	-
1992. 7. 15	167.25	-	"	-	"	-
1993. 7. 10	167.25	-	"	-	"	-
1994. 12. 19	167.25	-	"	-	"	-
1995. 1. 1	167.25	-	"	-	"	-
1996. 9. 5	167.25	-	"	-	"	-
1997. 9. 1	167.25	-	"	-	"	-
1998. 10. 1	167.25	-	"	-	"	-
1999. 11. 1	167.25	-	"	-	"	-
2000. 11. 1	167.25	-	"	-	"	-
2001. 9. 1	167.25	-	"	-	"	-
2003. 3. 1	184.00	10.0	201.75	9.1	"	-
2003. 12. 1	184.00	-	201.75	-	"	-
2004. 12. 1	184.00	-	201.75	-	"	-
2005. 9. 1	184.00	-	201.75	-	"	-
2007. 4. 1	221.00	20.0	238.75	18.3	"	-
2008. 4. 1	287.25	30.0	305.00	27.7	"	-
2009. 11. 1	373.50	30.0	391.50	28.4	"	-
2011. 8. 1	373.50	동결	391.25	동결	"	-
2016. 10. 4	446.75	19.6	464.50	18.7	"	-
2017. 11. 28	534.25	19.6	552.00	18.8	"	-
2018. 11. 23	639.00	19.6	656.75	19.0	"	-
2019. 9. 20	639.00	동결	656.75	동결	"	-
2020. 12. 16	639.00	동결	656.75	동결	"	-
2021. 12. 17	639.00	동결	656.75	동결	"	-

주: 서울시 3.6kg 연탄가격 기준
자료: 대한석탄협회

Note: Based on a 3.6kg-briquette in Seoul
Source : Korea Coal Association

11. 석탄광 재해 현황

Coal Mining Accidents

	생산량 Production	종업원 수 Employee	연가동인원 Men shift per year	재해자 수 Number of person			
				합계 Total	사망 Death	중상 Severe injury	경상 Slight injury
	1,000 M/T	명 (persons)	1,000명 (1,000persons)	명 (persons)			
1981	19,865	60,302	18,694	6,157	194	2,599	3,364
1982	20,116	62,310	19,316	5,413	167	2,348	2,898
1983	19,861	58,959	18,277	5,066	164	2,281	2,621
1984	21,370	61,812	18,966	5,549	170	2,344	3,035
1985	22,543	64,745	20,071	5,925	181	2,418	3,326
1986	24,253	68,861	19,329	6,182	167	2,648	3,367
1987	24,273	71,947	19,726	5,909	174	2,583	3,152
1988	24,295	62,259	17,642	5,696	159	2,581	2,956
1989	20,785	47,934	14,085	4,953	111	2,218	2,624
1990	17,217	38,101	11,137	3,773	108	1,878	1,787
1991	15,058	32,561	8,665	2,483	74	1,545	1,224
1992	11,970	26,021	7,357	1,916	74	984	858
1993	9,443	19,461	5,456	1,331	57	557	717
1994	7,438	14,925	4,476	786	46	426	314
1995	5,720	11,735	3,481	423	17	274	132
1996	4,951	10,889	3,048	265	27	172	66
1997	4,514	9,543	2,850	235	15	142	78
1998	4,361	8,430	2,564	153	6	108	39
1999	4,197	8,214	2,330	112	9	60	45
2000	4,150	8,207	2,271	107	6	42	59
2001	3,817	7,812	2,152	99	14	34	51
2002	3,318	6,872	1,896	70	14	20	36
2003	3,299	6,636	1,858	62	7	20	35
2004	3,191	6,570	1,759	48	5	11	32
2005	2,832	5,736	1,447	22	3	7	12
2006	2,824	5,888	1,422	31	0	8	23
2007	2,886	5,843	1,385	73	3	34	36
2008	2,773	5,301	1,275	50	2	24	24
2009	2,519	4,462	1,112	48	4	21	23
2010	2,084	4,050	995	36	1	12	23
2011	2,084	3,794	905	31	2	14	15
2012	2,094	3,706	890	42	4	15	23
2013	1,815	3,435	805	43	3	18	22
2014	1,748	3,104	745	11	2	6	3
2015	1,764	3,126	721	14	1	5	8
2016	1,726	3,172	724	19	3	5	11
2017	1,485	2,893	667	19	5	6	8
2018	1,202	2,490	617	6	1	-	5
2019	1,084	2,347	555	13	2	5	6
2020	1,019	2,219	535	6	1	3	2
2021	898	2,040	491	3	0	2	1

자료: 대한석탄협회

Source: Korea Coal Association

11. 석탄광 재해 현황(계속)

Coal Mining Accidents(Continued)

	백만인당 재해자 수 Accidents per million men shifts				백만톤당 재해자 수 Accidents per million tonnes of product			
	합계 Total	사망 Death	중상 Severe injury	경상 Slight injury	합계 Total	사망 Death	중상 Severe injury	경상 Slight injury
	명 (persons)							
1981	332.1	10.5	140.2	181.5	309.9	9.8	130.8	169.3
1982	283.7	8.8	123.1	151.9	269.1	8.3	116.7	144.1
1983	277.1	8.9	124.8	143.4	254.9	8.2	114.8	131.9
1984	292.6	9.0	123.6	160.0	259.7	8.0	109.7	142.0
1985	295.2	9.0	120.5	165.7	262.8	8.0	107.3	147.5
1986	319.8	8.6	137.0	174.2	254.9	6.9	109.2	138.8
1987	299.6	8.8	130.9	159.8	243.4	7.1	106.4	129.9
1988	322.9	9.0	146.3	167.6	234.4	6.5	106.2	121.7
1989	351.7	7.9	157.5	186.3	238.3	5.3	106.7	126.3
1990	338.8	9.7	168.6	160.5	219.1	6.3	109.1	103.7
1991	328.1	8.5	178.3	141.2	188.8	4.9	102.6	81.2
1992	260.4	10.1	133.8	116.6	160.1	6.2	82.2	71.7
1993	244.0	10.4	102.1	131.4	140.9	6.0	59.0	75.9
1994	175.6	10.3	95.2	70.2	105.7	6.2	57.3	42.2
1995	125.1	4.9	78.7	37.9	74.0	3.0	47.9	23.1
1996	86.4	8.8	56.1	21.5	53.5	5.5	34.7	13.3
1997	82.5	5.3	49.8	27.4	52.1	3.3	31.5	17.3
1998	59.7	2.3	42.1	15.2	35.1	1.4	24.8	8.9
1999	48.9	3.9	25.8	19.3	27.2	2.1	14.3	10.8
2000	47.1	2.6	18.5	26.0	25.7	1.4	10.1	14.2
2001	46.0	6.5	15.8	23.7	25.9	3.7	8.9	13.3
2002	36.9	7.4	10.5	19.0	21.1	4.2	6.0	10.9
2003	33.4	3.8	10.8	18.8	18.8	2.1	6.1	10.6
2004	27.3	2.8	6.3	18.2	15.0	1.6	3.4	10.0
2005	15.2	2.1	4.8	8.3	7.8	1.1	2.5	4.2
2006	21.8	0.0	5.6	16.2	11.0	0.0	2.8	8.2
2007	52.7	2.2	24.5	26.0	25.3	1.0	11.8	12.5
2008	39.2	1.6	19.8	18.8	18.0	0.7	8.7	8.6
2009	43.2	3.6	18.9	20.7	19.1	1.6	8.3	9.2
2010	36.2	1.0	12.1	23.1	17.3	0.5	5.8	11.0
2011	34.3	2.2	15.5	16.6	14.9	1.0	6.7	7.2
2012	47.2	4.5	16.9	25.8	20.1	1.9	7.2	11.0
2013	53.4	3.7	22.4	27.3	23.7	1.9	9.9	12.1
2014	14.8	2.7	8.1	4.0	6.3	1.2	3.4	1.7
2015	19.4	1.4	6.9	11.1	7.9	0.6	2.8	4.5
2016	26.2	4.1	6.9	15.2	11.0	1.7	2.9	6.4
2017	28.5	7.5	9.0	12.0	12.8	3.4	4.0	5.4
2018	9.7	1.6	-	8.1	5.0	0.8	-	4.2
2019	23.4	3.6	9.0	10.8	11.9	1.8	4.6	5.5
2020	11.2	1.9	5.6	3.7	5.9	1.0	2.9	2.0
2021	6.1	0.0	4.1	2.0	3.3	0.0	2.2	1.1

자료: 대한석탄협회

Source: Korea Coal Association

12. 석탄 및 연탄가격

Coal and Briquette Price

1. 석탄 및 연탄지원 단가

	석탄(원/톤)										연탄(제조사)(원/개)									
	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'12	'13	'14	'15	'16	'17	'18	'19	'21	'21
• 생산원가	157,192	168,193	189,554	183,564	190,220	199,149	218,574	222,918	222,027	225,639	647.25	651.00	644.50	656.00	712.00	744.00	760.50	790.25	813.50	787.50
• 판매가격 -인상전 -인상후	145,852 - -	146,534 - -	146,635 - -	144,024 - -	143,067 154,570	156,818 169,427	166,936 180,358	187,929 -	187,401 -	188,527 -	373.50 -	373.50 -	373.50 -	373.50 -	373.50 446.75	446.75 534.25	534.25 639.00	639.00 -	639.00 -	639.00 -
• 지원단가 -인상전 -인상후	11,340 - -	21,659 - -	42,919 - -	39,540 -	47,153 35,650	42,331 29,722	51,638 38,216	34,989 -	34,626 -	37,112 -	273.75 -	277.50 -	271.00 -	282.50 -	296.25 265.25	254.25 209.75	182.50 121.50	151.25 -	174.50 -	148.50 -
• 지원율(%) -인상전 -인상후	7.21 - -	12.87 - -	22.64 - -	21.54 -	24.79 18.74	21.26 14.92	23.62 17.48	15.70 -	15.60 -	16.45 -	42.29 -	42.63 -	42.04 -	43.06 -	47.54 37.25	39.95 28.19	29.75 15.98	19.14 -	21.45 -	18.86 -

• (연탄)생산원가 = 판매(공장도)가격 + (제조비)지원단가

• '18년 이후 석연탄 최고판매가격 동결

• 자료 : 2022 석탄산업통계, 산업통상자원부

2. 석탄 및 연탄가격 인상추이

(단위 : 원/개)

	'89~'95	'96	'97	'98~'99	'00~'01	'02	'03	'04	'05~'06	'07	'08	'09	'10	'11	'12~'15	'16	'17	'18	'19~'21
석탄	동결	5%	10%	15%	동결	5%	5%	7.5%	10%	10%	15.5%	7.2%	동결	15%	동결	8%	8%	8%	동결
연탄 (가격)	'89~'02년까지 동결 (167)						10% (184)	동결 (184)		20% (221)	30% (287)	30% (374)	동결 (374)		19.6% (447)	19.6% (534)	19.6% (639)	19.6% (639)	동결 (639)

• 연탄(공장도)가격은 '88년 이후 7회('03.3.1, '07.4.1, '08.4.1, '09.11.1, '16.11.3, '17.11.28, '18.11.23) 인상

• 자료 : 2022 석탄산업통계, 산업통상자원부

3. 연탄제조용 및 발전용 무연탄 최고판매가격

(단위: 원/톤)

등 급	열 량(kcal/kg)	최고판매가격	비 고
1급	5,200~5,399	209,520	자율가격
2급	5,000~5,199	201,610	"
3급	4,800~4,999	193,710	고시가격
4급	4,600~4,799	186,540	"
5급	4,400~4,599	179,380	"
6급	4,200~4,399	172,220	"
7급	4,000~4,199	165,040	자율가격
8급	3,750~3,999	152,150	"
9급	3,500~3,749	142,400	"
급외1	3,250~3,499	128,870	"
급외2	3,000~3,249	119,310	"

• 발전용탄 중 2급 이상은 3급탄 중위열량(kcal/kg)당 단가로 각 등급별 중위열량을 곱한 금액을 기준으로 한다.

• 자료 : 석탄 및 석탄가공제품의 최고판매가격 지정 등에 관한 고시, '21.12.17.

4. 연탄 최고판매가격 (1호탄(3.6kg) 기준): 전국 단일가격

(단위: 원/개)

2008. 4. 1 ~ 2009. 10. 31		2009. 11. 1 ~ 2016.10.3		2016. 10. 4 ~ 2017.11.27		2017. 11. 28 ~ 2018.11.22		2018. 11. 23 부터	
공장도 가격	판매소(소매점) 가격	공장도 가격	판매소(소매점) 가격	공장도 가격	판매소(소매점) 가격	공장도 가격	판매소(소매점) 가격	공장도 가격	판매소(소매점) 가격
287.25	305.00	373.50	391.25	446.75	464.50	534.25	552.00	639.00	656.75

- 소비자가격 = 공장도가격 + 운반비 및 배달료(자율화)
- 자료 : 석탄 및 석탄가공제품의 최고판매가격 지정 등에 관한 고시, '21.12.17.

5. 연탄 지원금 및 가격 구조

(단위: 원/개)

정부 지원금				소비자 가격 결정구조			합계 (A+B)
원 탄 (석탄)	연 탄 제조비	연 탄 수송비	계 (A)	공장도 가 격	운반비·배달료 (상·하차비용포함)	계 (B)	
133.60	133.60	24.75	306.85 (29%)	639.00	111.00	750.00 (71%)	1056.85 (100%)

- 석탄가격인상('18. 11.23) 이후 기준
- 합계(A+B)는 정부지원 없을시 정상 소비자가격 추정치
- 운반비 및 배달료는 서울 평지 기준으로 추정 (배달지역에 따라 금액 상이)
- 자료 : 2022 석탄산업통계, 산업통상자원부

6. 연탄 품질기준

구 분 단 위	지 림 (mm)	높 이 (mm)	무 게 (kg)	발열량 (kcal/kg)	공 수
1호	150	142	3.6	4,400이상	22(일반가정용)
2호	158	152	4.5	"	25
3호	162	155	4.8	"	25
4호	157	161	4.9	"	19
5호	215	142	7.5	"	31

- 자료 : 석탄산업법 시행규칙 [별표 3]석탄가공제품의 품질기준과 검사방법, '22.7.11.



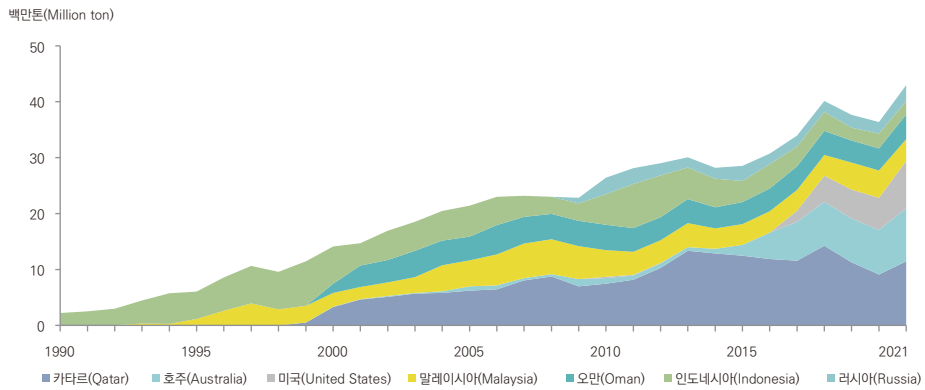
3. 가스

Gas

1. 천연가스 수급
Natural Gas Overview
2. 국별 액화천연가스 수입
LNG Imports by Country
3. 액화천연가스 생산설비
LNG Import Terminals
4. 용도별 도시가스 소비
City Gas Consumption by Use
5. 부문별 도시가스 소비
City Gas Consumption by Sector
6. 지역별 도시가스 수요가 수
Number of City Gas Customers by Region
7. 도시가스 가격
City Gas Prices

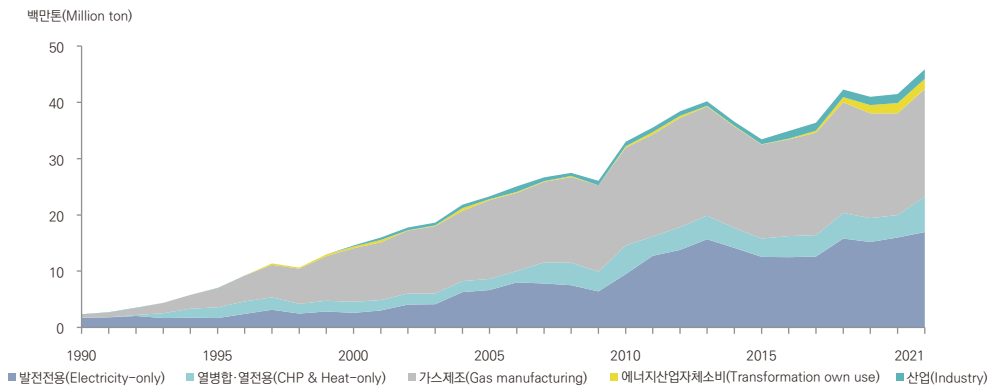
● 천연가스 수입 Natural Gas Imports

〈1990~2021〉



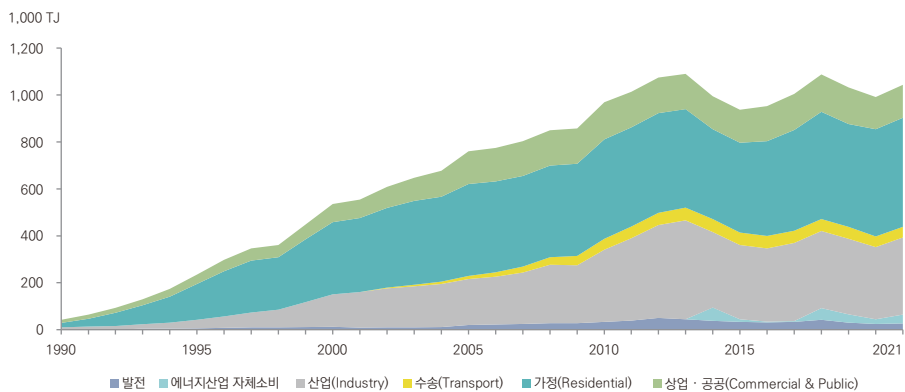
● 천연가스 소비 Natural Gas Consumption

〈1990~2021〉



● 도시가스 소비 City Gas consumption

〈1990~2021〉



1. 천연가스 수급

Natural Gas Overview

	공급 Supply					소비 Consumption				
	국내생산 Production	수입 Imports		재고 Stock	일차에너지공급 TPES	발전전용 Electricity -only	열병합·열전용 CHP/ Heat-only	가스제조 Gas manufacturing	에너지산업자체소비 ¹ Transformation own use ¹	산업 ² Industry ²
	1,000 ton	1,000 ton	mil. USD			1,000 ton				
1990	-	2,237	460	46	2,275	1,741	0	572	-	4
1991	-	2,494	485	110	2,430	1,800	0	875	-	5
1992	-	2,994	562	68	3,036	2,019	206	1,250	-	7
1993	-	4,459	781	97	4,430	1,661	857	1,834	-	14
1994	-	5,996	961	157	5,936	1,709	1,620	2,442	-	12
1995	-	6,756	1,275	103	6,810	1,680	1,882	3,408	-	9
1996	-	9,258	1,878	369	8,992	2,427	2,195	4,581	-	0
1997	-	11,471	2,296	605	11,235	3,147	2,229	5,770	233	0
1998	-	10,189	1,549	527	10,267	2,466	1,723	6,233	221	0
1999	-	12,284	1,973	539	12,272	2,858	1,909	7,886	305	2
2000	-	15,239	3,882	591	15,187	2,575	1,954	9,528	337	160
2001	-	15,318	3,990	738	15,171	3,004	1,846	10,299	398	438
2002	-	17,993	4,120	426	18,305	4,086	1,968	11,169	54	479
2003	-	19,308	5,082	1,063	18,671	4,116	1,933	11,939	164	458
2004	163	21,781	6,552	1,602	21,405	6,281	1,973	12,456	487	589
2005	398	22,317	8,646	959	23,359	6,664	1,959	13,978	211	486
2006	355	25,256	11,925	1,936	24,634	7,981	2,033	13,879	185	1,014
2007	271	25,569	12,653	1,111	26,665	7,823	3,706	14,350	136	645
2008	181	27,259	19,806	2,558	25,994	7,495	4,021	15,201	173	549
2009	383	25,822	13,875	1,734	27,029	6,421	3,479	15,328	52	750
2010	415	32,603	17,006	2,689	32,063	9,462	5,127	17,354	274	766
2011	347	36,685	23,859	3,323	36,398	12,707	3,465	18,090	470	769
2012	334	36,184	27,364	1,840	38,001	13,747	4,095	19,381	363	813
2013	355	39,876	30,645	2,237	39,834	15,663	4,201	19,400	144	798
2014	247	37,107	31,403	3,234	36,357	14,132	3,591	17,967	111	781
2015	144	33,366	18,779	3,034	33,710	12,533	3,249	16,732	56	866
2016	118	33,453	12,170	1,695	34,911	12,465	3,756	17,184	121	1,378
2017	261	37,537	15,616	2,308	37,185	12,581	3,840	18,199	377	1,403
2018	234	44,015	23,189	4,374	42,183	15,791	4,573	19,624	919	1,357
2019	198	40,748	20,567	4,069	41,252	15,201	4,205	18,633	1,487	1,479
2020	142	39,982	15,716	2,886	41,307	15,991	3,988	18,045	1,850	1,614
2021	42	45,932	25,453	3,207	45,653	16,943	6,306	19,118	1,817	1,687

1. 석유정제, LNG 생산기지 및 발전소 시운전 등

2. 최종소비

자료 : 한국가스공사, LNG 적도입사, 한국무역협회

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

2. 국별 액화천연가스 수입

LNG Imports by Country

단위: 천 톤

Unit: Thousand Tons

	합계	인도네시아	카타르	말레이시아	오만	미국	호주	러시아	기타 ¹
	Total	Indonesia	Qatar	Malaysia	Oman	United States	Australia	Russia	Others 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	1,017	3,009
2010	32,603	5,451	7,449	4,745	4,557	232	1,030	2,933	6,207
2011	36,685	7,894	8,153	4,144	4,195	113	787	2,850	8,548
2012	36,184	7,445	10,278	4,082	4,127	57	832	2,163	7,199
2013	39,876	5,627	13,354	4,314	4,331	-	620	1,841	9,789
2014	37,107	5,176	12,853	3,673	3,726	-	836	1,913	8,929
2015	33,366	3,776	12,442	3,698	3,990	-	1,952	2,679	4,828
2016	33,453	4,362	11,880	3,813	4,081	28	4,695	1,851	2,744
2017	37,537	3,542	11,554	3,749	4,231	1,959	6,997	1,923	3,583
2018	44,015	3,447	14,245	3,702	4,282	4,658	7,871	1,930	3,880
2019	40,748	2,336	11,311	4,802	3,946	5,226	7,775	2,247	3,106
2020	39,982	2,699	9,087	4,918	3,900	5,762	7,972	2,019	3,627
2021	45,932	2,387	11,464	3,906	4,415	8,478	9,465	2,867	2,950

1. 브루나이, 나이지리아, 페루, 파푸아 뉴기니, 트리니다드 토바고,
적도 기니, 아랍에미리트 등임
자료 : 한국무역협회

1. Brunei, Nigeria, Peru, Papua New Guinea, Trinidad
and Tobago, Equatorial Guinea, U.A.E etc
Source : Korea International Trade Association

3. 액화천연가스 생산설비

LNG Import Terminals

	생산설비 Production Facilities				배관길이 Pipeline Length
	접안설비 Loading Facility	저장탱크 Storage Tank	기화설비 Gasification Facility	송출설비 Sending Facility	
	선 좌 Berths	10만kl (10 ⁵ kl)	톤/시간 (ton/h)		킬로미터 (km)
1986	1	3.0	396	480	98.0
1987	1	4.0	396	480	212.6
1988	1	4.0	396	480	223.9
1989	1	4.0	396	480	223.9
1990	1	4.0	396	480	223.9
1991	1	4.0	576	700	242.0
1992	1	4.0	1,116	1,140	339.5
1993	1	5.0	1,386	1,470	580.0
1994	1	6.0	1,656	1,800	598.7
1995	1	7.0	1,656	1,800	1,055.4
1996	2	10.0	2,916	3,120	1,309.0
1997	3	13.0	3,276	3,340	1,327.6
1998	3	16.0	3,636	3,780	1,481.9
1999	3	19.0	4,356	4,660	1,955.3
2000	4	20.0	4,626	4,880	2,065.7
2001	4	22.8	5,076	4,990	2,136.3
2002	5	29.6	6,066	6,090	2,442.9
2003	5	34.4	6,516	6,310	2,435.2
2004	5	41.8	6,976	7,190	2,451.0
2005	5	44.6	7,336	7,630	2,511.4
2006	5	48.8	8,056	8,070	2,519.6
2007	5	51.6	8,596	9,060	2,720.9
2008	5	59.2	9,136	9,500	2,739.0
2009	5	61.2	9,436	9,610	2,777.0
2010	5	71.2	9,916	11,040	2,879.4
2011	5	83.2	10,276	11,040	3,022.6
2012	6	88.6	10,636	11,040	3,558.0
2013	6	88.6	11,356	11,810	3,529.6
2014	7	94.6	14,056	14,450	4,239.5
2015	7	102.6	14,056	14,450	4,439.4
2016	7	106.6	14,056	14,560	4,672.1
2017	7	114.7	14,056	14,560	4,790.2
2018	7	114.7	15,376	15,770	4,854.2
2019	8	115.6	15,360	15,720	4,908.0
2020	8	121.6	15,360	15,720	4,945.0
2021	8	121.6	15,360	15,720	5,027.0

주: 한국가스공사 설비만 반영
자료 : 한국가스공사

Note: Includes only Korea Gas Corporation's facilities
Source : Korea Gas Corporation

4. 용도별 도시가스 소비

City Gas Consumption by Use

단위 : TJ

Unit : TJ

	합계	가정용 Residential		일반용 (상업용) Commercial	업무용 Office	산업용 Industrial	열병합·열전용 CHP & Heat-only	수송용 Transport	연료전지용 Fuel cell
	Total	취 사 Cooking	난 방 Space Heating						
1990	42,350	6,156	12,868	2,092	11,413	9,820	-	-	-
1991	64,487	8,261	25,616	2,759	14,745	13,106	-	-	-
1992	92,912	10,725	44,248	3,231	18,919	15,789	-	-	-
1993	129,736	13,275	67,092	4,035	22,028	19,258	4,046	-	-
1994	173,279	17,356	93,947	4,595	27,625	25,138	4,618	-	-
1995	234,202	20,970	132,044	5,646	33,496	36,125	5,921	-	-
1996	298,056	25,873	167,128	7,146	41,454	48,481	7,974	-	-
1997	347,003	29,933	191,848	7,853	44,540	62,623	10,204	-	-
1998	360,212	33,658	189,505	10,474	40,898	75,898	9,779	-	-
1999	448,634	36,183	231,724	14,796	49,081	105,950	10,900	-	-
2000	535,465	39,684	268,172	30,162	47,234	138,512	11,701	-	-
2001	565,018	42,511	272,340	36,050	51,023	150,750	11,884	460	-
2002	619,443	46,371	293,138	44,663	52,420	166,809	12,705	3,337	-
2003	658,170	49,188	307,971	53,092	53,826	174,898	13,100	6,096	-
2004	688,928	50,732	310,847	60,871	58,593	183,466	14,505	9,914	-
2005	760,292	53,523	337,685	69,300	70,262	194,913	20,406	14,204	-
2006	774,371	56,275	330,263	73,743	68,970	202,936	22,291	19,893	-
2007	799,669	59,474	324,966	77,026	70,222	217,710	24,651	25,620	-
2008	837,677	60,068	324,989	78,008	70,256	244,874	27,421	32,061	-
2009	844,988	62,591	324,096	77,889	70,305	243,129	27,364	39,615	-
2010	955,933	64,558	353,746	81,166	75,047	302,496	33,038	45,883	-
2011	999,341	67,866	348,973	81,243	68,594	346,005	38,193	48,465	-
2012	1,071,393	69,401	354,208	83,327	68,124	394,242	50,060	52,032	-
2013	1,075,012	66,632	345,706	83,611	64,440	414,627	45,632	54,366	-
2014	992,047	65,764	316,230	82,260	56,927	378,897	37,244	54,725	-
2015	931,231	66,782	316,953	82,492	58,473	319,554	33,151	53,826	-
2016	952,146	66,188	337,719	85,293	63,545	315,543	30,707	53,152	-
2017	1,006,699	61,454	367,193	89,632	64,307	336,662	34,975	52,477	-
2018	1,087,868	59,175	397,216	94,199	65,398	377,974	42,067	51,840	-
2019	1,040,349	76,462	362,278	95,101	60,154	357,557	29,645	50,893	8,261
2020	1,004,217	67,023	389,350	84,274	53,415	327,108	24,364	45,994	12,689
2021	1,063,975	66,397	398,489	84,663	56,163	366,761	26,533	44,363	20,607

주: 2019년 이전에는 열병합에 연료전지용을 합산
자료 : 한국도시가스협회

Note : Fuel cell had been included in CHP before 2019
Source : Korea City Gas Association

5. 부문별 도시가스 소비

단위 : TJ

	합계 Total	발전 Power generation	에너지산업 자체소비 ¹⁾ Transformation own use ¹⁾	산업 ²⁾ Industry ²⁾							
					농림어업 Agriculture, Forestry and Fisheries	제조업 Manufacturing	식품및담배 Food & tobacco	섬유및가죽 Textile & leather	목재및 나무제품 Wood & wood products	제지및 인쇄 Paper, pulp & print	화학및 석유화학 Chemical & petrochemical
1990	42,350	-	-	9,821	2	9,818	447	524	1	101	542
1991	64,487	-	-	13,106	3	13,103	597	699	1	134	723
1992	92,780	-	-	15,793	9	15,784	645	827	0	191	1,050
1993	129,737	4,046	-	19,258	18	19,241	673	1,138	5	297	1,171
1994	173,321	4,618	-	25,177	18	25,158	795	1,778	62	667	1,436
1995	234,204	5,921	-	36,126	18	36,094	1,292	2,748	115	902	2,272
1996	298,059	7,974	-	48,481	8	48,450	1,604	3,744	107	1,005	3,209
1997	346,513	10,204	-	62,573	9	62,509	1,651	5,481	121	1,283	4,620
1998	360,216	9,779	-	75,898	9	75,842	2,831	9,627	114	1,603	6,867
1999	448,638	10,900	-	105,951	30	105,856	6,039	12,345	79	2,550	8,979
2000	535,460	11,701	-	138,504	532	137,899	7,387	17,900	80	2,764	13,370
2001	554,797	9,223	-	151,209	941	150,192	7,972	18,383	79	2,742	13,932
2002	608,474	9,557	-	166,811	786	166,017	10,512	18,503	137	2,804	16,740
2003	647,347	10,462	-	174,898	973	173,919	11,504	18,029	223	2,678	18,704
2004	677,255	11,062	-	183,470	1,036	182,427	11,340	17,599	1,522	2,750	18,314
2005	760,299	20,406	-	194,914	1,144	193,765	10,986	16,668	361	3,154	18,858
2006	774,378	22,291	-	202,937	1,165	201,773	10,578	16,155	663	3,839	16,673
2007	803,484	24,768	-	218,749	69	218,676	17,258	13,411	1,641	5,404	31,810
2008	849,753	27,817	-	248,404	259	248,143	20,246	18,742	1,838	8,095	48,458
2009	857,170	27,758	-	246,634	185	246,448	21,544	18,700	2,633	9,820	45,093
2010	969,715	33,514	-	306,857	192	306,653	25,051	22,603	2,219	12,736	69,019
2011	1,013,748	38,744	-	350,994	172	350,796	27,632	24,620	2,036	16,863	92,413
2012	1,074,476	50,204	-	395,377	243	395,098	29,063	23,741	1,990	18,112	90,008
2013	1,090,043	44,504	-	421,206	157	421,026	29,105	15,664	2,159	18,246	135,661
2014	994,310	37,472	57,182	321,715	143	321,517	29,319	15,744	3,240	13,508	67,345
2015	936,829	33,176	11,659	315,629	124	315,445	29,359	15,246	2,520	9,834	58,244
2016	952,146	30,707	3,367	312,177	126	311,997	29,758	13,540	1,205	10,777	42,362
2017	1,004,683	33,220	3,411	332,989	139	332,823	29,676	12,995	1,227	10,567	41,795
2018	1,087,868	42,067	49,625	328,349	150	328,193	33,321	10,349	2,213	10,896	83,501
2019	1,032,089	29,645	35,525	322,031	187	321,838	33,801	11,109	1,123	12,485	75,091
2020	991,528	24,364	19,591	307,517	43	307,468	35,454	9,572	1,015	12,742	74,381
2021	1,043,368	26,533	37,892	328,869	104	328,765	38,095	10,069	1,173	12,967	82,867

1. 코크스, 연탄 및 석유정제품 제조

2. 광업 포함

자료 : 한국도시가스협회

5. City Gas Consumption by Sector

Unit : TJ

						건설업 Construction	수송 Transport	가정 Residential	상업·공공 Commercial & Public	
비금속광물 Non-metallic minerals	철강 Iron & steel	비철금속 Non-ferrous metals	기계류 Machinery	수송장비 Transport equipment	기타제조 Other manufacturing					
1,554	2,684	-	3,573	-	393	-	-	19,024	13,506	1990
2,074	3,582	-	4,768	-	524	-	-	33,877	17,505	1991
2,493	4,307	-	5,423	-	848	-	-	55,911	21,076	1992
2,990	5,258	-	6,671	-	1,038	-	-	80,369	26,064	1993
3,662	7,139	-	8,238	-	1,381	-	-	111,304	32,221	1994
4,541	8,759	-	11,629	-	3,836	-	-	153,016	39,142	1995
4,761	11,304	-	17,751	-	4,965	-	-	193,002	48,601	1996
6,120	14,400	-	21,518	-	7,316	-	-	221,250	52,486	1997
6,557	15,564	-	19,339	-	13,340	3	-	223,166	51,372	1998
8,901	21,049	-	25,493	-	20,420	3	-	267,910	63,877	1999
10,535	27,089	-	30,207	-	28,566	1	-	307,858	77,397	2000
11,087	29,943	-	30,937	-	35,117	-	308	315,104	78,953	2001
11,486	30,109	-	32,901	-	42,826	8	3,333	339,514	89,259	2002
12,878	33,355	-	33,483	-	43,064	7	6,098	357,160	98,729	2003
14,103	37,051	-	37,151	-	42,596	7	9,916	361,589	111,218	2004
14,907	40,698	-	39,700	-	48,434	5	14,204	391,212	139,563	2005
21,460	43,202	-	39,645	-	49,557	0	19,893	386,542	142,714	2006
19,682	51,041	6,985	18,619	28,150	24,675	3	25,742	386,274	147,951	2007
17,446	52,285	7,790	28,426	26,080	18,735	3	32,523	390,608	150,401	2008
18,510	51,887	9,196	27,891	20,423	20,750	1	40,186	392,262	150,330	2009
19,091	61,137	8,606	32,134	24,989	29,067	12	46,544	424,334	158,465	2010
19,845	58,291	10,745	38,139	31,132	29,080	25	49,164	422,849	151,997	2011
23,954	55,796	9,980	36,654	32,374	73,426	35	52,182	424,828	151,886	2012
25,677	57,616	12,069	33,937	41,696	49,195	20	54,519	419,678	150,136	2013
23,695	53,037	10,740	45,580	30,251	29,057	55	54,696	382,703	140,543	2014
22,856	48,374	14,614	42,685	31,481	40,232	60	53,646	382,271	140,449	2015
21,915	49,875	12,705	42,993	28,061	58,807	53	53,152	403,906	148,837	2016
22,351	51,837	11,622	45,466	23,829	81,457	27	52,477	428,647	153,939	2017
22,976	51,869	16,631	50,549	32,055	13,833	6	51,840	456,391	159,597	2018
24,182	51,602	15,823	52,330	29,185	15,106	5	50,893	438,740	155,254	2019
22,215	43,121	19,894	53,911	26,696	8,465	5	45,994	456,373	137,689	2020
23,148	45,891	20,745	58,321	28,226	7,262	-	44,363	464,885	140,826	2021

1. Production of coke, briquet and oil refinery products

2. Includes mining and quarrying

Source : Korea City Gas Association

6. 지역별 도시가스 수요가수

	합계 Total	서울 Seoul	부산 Busan	대구 Daegu	인천 Incheon	광주 Gwangju	대전 Daejeon	울산 Ulsan	세종 Sejong
가 구 수 (세대)									
1996	12,221,206	3,455,975	1,140,293	758,850	739,996	386,216	391,525	349,456	-
1997	12,774,911	3,499,658	1,157,537	769,904	769,103	399,011	407,987	360,634	-
1998	13,001,222	3,473,045	1,173,328	779,433	789,102	411,965	417,523	366,545	-
1999	13,291,085	3,502,464	1,187,703	789,891	804,188	420,898	427,152	373,317	-
2000	13,918,913	3,550,186	1,199,804	805,779	823,572	430,376	439,312	384,562	-
2001	14,290,771	3,608,287	1,210,902	815,709	840,071	439,620	450,489	396,515	-
2002	14,690,695	3,661,692	1,219,902	827,177	866,290	449,469	463,270	407,277	-
2003	15,365,083	3,725,906	1,236,262	845,242	885,682	460,647	479,916	348,058	-
2004	15,895,737	3,790,374	1,251,069	853,142	902,404	469,847	492,068	356,143	-
2005	16,717,096	3,883,054	1,270,612	865,766	926,885	481,935	505,650	365,197	-
2006	17,189,520	3,991,051	1,288,671	875,173	957,861	495,065	518,039	373,114	-
2007	17,640,659	4,057,713	1,300,692	883,920	987,805	503,844	525,880	380,865	-
2008	18,103,112	4,108,833	1,311,724	894,969	1,006,556	513,021	531,682	389,735	-
2009	18,481,247	4,127,839	1,323,771	906,470	1,018,180	524,093	538,100	394,364	-
2010	19,173,013	4,220,779	1,371,346	934,598	1,050,441	540,875	555,768	405,501	-
2011	19,331,316	4,192,752	1,381,257	940,770	1,067,727	549,105	566,324	412,561	-
2012	19,685,618	4,215,952	1,389,526	948,652	1,086,708	555,538	575,600	422,177	-
2013	19,893,966	4,182,350	1,404,663	960,265	1,107,883	563,599	584,877	431,595	53,012
2014	20,302,381	4,199,046	1,421,648	970,618	1,125,197	573,043	592,508	442,250	62,807
2015	20,571,826	4,189,948	1,437,818	982,360	1,142,752	580,427	597,008	451,688	81,806
2016	20,943,233	4,189,839	1,451,270	994,220	1,159,777	586,464	606,137	455,352	94,343
2017	21,348,903	4,218,573	1,467,555	1,006,753	1,177,029	592,818	614,639	458,547	109,490
2018	21,696,420	4,262,366	1,480,468	1,021,266	1,201,455	603,107	624,965	461,756	123,762
2019	22,147,455	4,326,029	1,497,908	1,031,251	1,226,933	616,485	635,343	468,659	135,408
2020	22,748,808	4,416,302	1,530,431	1,056,627	1,255,961	633,582	652,738	476,893	144,275
2021	23,186,990	4,426,007	1,544,663	1,063,893	1,286,068	645,712	664,417	482,650	153,649
수 요 가 수 (개)									
1996	4,903,368	2,102,886	284,093	235,297	350,167	138,484	145,778	93,492	-
1997	5,631,468	2,351,903	314,268	270,580	429,803	164,950	161,555	103,250	-
1998	6,350,104	2,554,426	357,751	296,534	493,667	184,186	177,942	122,979	-
1999	7,054,634	2,753,154	400,978	324,480	522,358	214,262	214,011	140,694	-
2000	7,733,607	2,926,591	437,211	354,768	588,051	229,148	241,654	164,724	-
2001	8,455,568	3,077,569	474,147	389,175	641,407	246,996	270,362	187,041	-
2002	9,202,275	3,193,693	510,024	441,951	706,662	273,364	296,317	210,909	-
2003	9,840,498	3,312,945	564,883	500,397	737,607	293,160	318,576	233,073	-
2004	10,408,296	3,386,713	621,069	491,578	770,580	297,725	333,585	217,863	-
2005	10,966,459	3,443,879	674,337	518,973	796,438	320,109	348,131	243,509	-
2006	11,511,445	3,487,887	729,028	554,759	817,222	343,727	395,747	257,787	-
2007	12,037,675	3,525,660	796,528	582,370	847,560	370,025	419,601	267,774	-
2008	12,635,177	3,565,235	860,283	627,393	873,269	413,537	443,176	294,891	-
2009	13,145,581	3,611,840	908,760	662,669	896,246	444,585	462,052	311,576	-
2010	13,885,281	3,783,444	952,242	700,480	933,770	473,603	485,153	327,901	-
2011	14,486,948	3,868,157	1,002,185	732,222	977,038	500,511	513,784	345,653	-
2012	15,054,255	3,921,173	1,059,273	775,472	972,815	523,533	530,299	364,250	-
2013	15,627,644	3,991,519	1,121,579	812,574	992,427	544,158	542,674	379,028	27,846
2014	16,129,913	4,013,249	1,178,096	849,130	1,017,262	571,281	553,353	394,558	45,319
2015	16,617,294	4,048,716	1,228,270	891,117	1,042,413	555,852	561,817	409,472	64,678
2016	17,177,455	4,105,817	1,271,083	934,567	1,067,457	572,660	571,987	418,012	74,845
2017	17,746,992	4,159,785	1,319,756	962,963	1,092,226	588,515	581,453	427,149	89,146
2018	18,305,552	4,186,336	1,367,105	984,148	1,115,967	602,499	592,603	433,523	100,234
2019	18,814,512	4,249,965	1,419,384	1,000,869	1,134,868	618,012	604,211	445,116	108,412
2020	19,257,295	4,309,684	1,460,855	1,027,675	1,144,146	631,681	622,233	457,465	110,909
2021	19,640,701	4,357,591	1,495,405	1,036,211	1,164,556	645,814	634,123	464,252	111,971
보급율(%)	85.0	98.5	96.8	97.4	90.6	100.0	95.4	96.2	72.9

주: 가정용 도시가스 수요가수임

자료: 한국도시가스협회

6. Number of City Gas Customers by Region

경기 Gyeonggi	강원 Gangwon	충북 Chungbuk	충남 Chungnam	전북 Jeonbuk	전남 Jeonnam	경북 Gyeongbuk	경남 Gyeongnam	제주 Jeju	
Number of Households									
2,568,872	336,674	260,817	402,869	365,656	315,564	386,055	362,388	-	1996
2,737,567	349,974	272,100	420,431	376,093	326,800	553,272	374,840	-	1997
2,787,991	362,488	283,667	433,225	390,477	360,544	563,547	408,342	-	1998
2,886,473	371,782	290,547	443,679	401,400	365,045	569,843	456,703	-	1999
2,992,522	381,253	309,440	632,803	410,483	369,671	575,594	613,556	-	2000
3,130,162	388,181	316,926	644,513	417,380	373,916	632,550	625,550	-	2001
3,332,202	395,565	325,111	656,741	422,936	378,539	638,792	645,732	-	2002
3,539,862	406,191	438,232	691,966	432,207	411,630	725,715	737,567	-	2003
3,694,291	415,351	449,816	736,328	528,901	416,354	736,795	802,854	-	2004
3,854,802	424,594	462,330	756,073	536,612	483,288	798,123	897,540	204,635	2005
4,020,283	433,824	476,419	774,490	545,168	489,333	821,898	920,707	208,424	2006
4,189,798	442,313	488,540	796,086	552,058	497,013	837,576	984,706	211,850	2007
4,282,628	479,865	587,411	812,871	561,437	504,593	893,216	1,009,890	214,681	2008
4,365,439	489,191	599,204	827,846	657,431	512,923	943,644	1,035,041	217,711	2009
4,533,057	504,981	617,440	854,432	701,024	506,747	1,082,606	1,068,705	224,713	2010
4,579,405	512,556	625,405	868,291	703,806	534,312	1,092,983	1,109,927	194,135	2011
4,614,341	518,237	635,991	889,023	736,068	642,768	1,106,704	1,151,809	196,524	2012
4,674,725	522,170	644,062	857,699	743,574	684,400	1,121,998	1,189,546	167,548	2013
4,781,299	594,497	656,152	870,982	751,271	709,685	1,135,824	1,241,927	173,627	2014
4,868,605	601,985	669,503	885,968	759,506	739,282	1,141,784	1,264,284	177,102	2015
4,997,602	630,488	680,960	902,294	766,307	767,603	1,153,060	1,320,823	186,694	2016
5,112,281	638,754	689,374	923,437	773,845	783,355	1,163,320	1,340,930	278,203	2017
5,296,906	646,485	707,220	941,921	794,908	792,554	1,178,843	1,360,084	198,354	2018
5,461,923	672,097	722,123	959,255	804,883	804,725	1,196,936	1,384,997	202,500	2019
5,660,814	690,045	745,644	983,153	825,106	823,999	1,226,159	1,418,106	208,973	2020
5,834,570	752,727	761,101	1,001,656	835,253	834,314	1,248,060	1,439,372	212,878	2021
Number of Customers									
1,017,958	50,921	66,868	22,001	109,482	99,226	72,090	114,625	-	1996
1,216,144	62,295	81,521	34,562	124,597	107,959	83,729	124,352	-	1997
1,441,918	72,739	92,764	42,737	141,610	114,445	107,263	149,143	-	1998
1,666,499	86,054	104,395	54,317	159,168	118,671	129,826	165,767	-	1999
1,884,138	91,489	118,342	70,012	171,277	124,068	145,845	186,289	-	2000
2,130,327	100,377	140,386	90,674	186,962	131,704	174,708	213,733	-	2001
2,381,021	116,141	157,716	109,247	209,380	144,350	197,629	253,871	-	2002
2,568,708	125,906	173,415	131,948	225,989	153,479	221,982	278,430	-	2003
2,728,843	137,644	184,786	161,163	245,744	170,863	303,773	356,367	-	2004
2,894,471	148,809	195,946	188,572	266,161	180,085	340,931	404,618	1,490	2005
3,023,884	161,192	218,936	224,894	288,072	192,543	377,635	433,236	4,896	2006
3,142,440	173,318	245,871	255,131	310,130	201,281	416,949	477,820	5,217	2007
3,273,114	187,882	267,957	290,951	334,984	216,566	453,676	526,592	5,671	2008
3,385,202	208,012	286,108	323,989	354,371	234,992	481,530	567,134	6,515	2009
3,586,951	223,039	315,625	355,886	379,199	246,732	506,840	604,716	9,700	2010
3,717,204	233,185	333,660	393,013	408,895	268,167	534,181	648,199	10,894	2011
3,875,132	245,604	357,317	434,186	436,416	283,061	570,034	693,451	12,239	2012
4,004,734	259,433	380,484	447,443	461,458	308,875	603,139	734,674	15,599	2013
4,088,970	274,581	405,189	476,918	483,315	333,514	636,969	790,650	17,559	2014
4,199,592	283,550	425,023	511,511	502,263	357,704	674,713	839,996	20,607	2015
4,350,098	301,687	428,544	552,170	521,148	382,321	710,828	890,776	23,455	2016
4,493,608	317,771	452,221	595,864	534,315	401,701	741,526	963,437	25,556	2017
4,669,015	339,610	472,203	634,091	556,710	423,403	776,786	1,023,557	27,762	2018
4,790,907	362,805	487,553	659,942	571,660	447,035	800,208	1,084,560	29,005	2019
4,870,428	382,882	508,626	687,896	592,186	470,641	828,780	1,119,657	31,551	2020
4,955,986	403,730	525,865	710,664	611,303	490,681	856,443	1,140,277	35,829	2021
84.9	53.6	69.1	70.9	73.2	58.8	68.6	79.2	16.8	Diffusion(%)

Note: Number of households using city gas
Source: Korea City Gas Association

7. 도시가스 가격

단위: 원/㎥

	KOGAS 공급 가격 KOGAS Price			도시가스사공급비용 City Gas Suppliers' Margin								
	원료비 Material Cost	공급비용 Other Cost	공급가격 Sales Price	평 균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5~9월) Space Cooling	산업용 Industrial	수송용 Transport
								영업용1 Commercial1	영업용2 Commercial2			
1988. 6. 1	122.56	18.17	140.73	142.00	169.27	125.22	125.22	169.27		125.22	-	-
12. 1	110.83	18.17	129.00	142.00	169.27	125.22	125.22	169.27		125.22	-	-
1989. 1. 1	105.71	17.34	123.05	142.00	169.27	169.27	125.22	125.22		125.22	-	-
6. 1	101.91	39.03	140.94	93.46	143.91	143.91	79.75	79.75		79.75	71.01	-
1990. 5. 1	106.49	39.03	145.52	74.68	139.33	65.14	139.33	139.33		139.33	58.70	-
1991. 7. 1	119.12	39.03	158.15	59.38	126.70	52.51	126.70	126.70		126.70	35.84	-
1992. 7. 1	122.46	50.87	173.33	59.38	113.47	52.08	105.46	105.46		105.46	20.66	-
1994.11. 1	125.72	50.87	176.59	59.38	110.24	51.98	62.85	106.47		40.62	23.37	-
1995. 8. 1	125.35	61.00	186.35	59.38	110.24	51.98	62.85	106.47		40.62	23.37	-
1997. 3.25	155.43	59.43	214.83	58.38	109.24	50.98	61.85	105.47		40.62	22.37	-
12.2	216.92	59.40	276.32	58.38	109.24	50.98	61.85	105.47		40.62	22.37	-
1998. 1.24	254.56	59.40	313.96	58.38	109.24	50.98	61.85	105.47		40.62	22.37	-
8. 1	222.32	91.64	313.96	58.38	109.24	50.98	61.85	105.47		40.62	22.37	-
10. 1	203.18	91.64	294.82	58.38	109.24	50.98	61.85	105.47	61.85	40.62	22.37	-
1999. 1. 1	195.97	91.64	287.61	58.38	109.24	50.98	61.85	105.47	61.85	61.85	40.62	-
4. 1	175.68	91.64	267.32	58.38	109.24	50.98	61.85	105.47	61.85	40.62	22.37	-
10. 1	201.10	88.52	289.62	58.38	109.24	50.98	61.85	105.47	61.85	40.62	22.37	-
2000. 1. 1	221.60	88.52	310.12	58.38	109.24	50.98	61.85	105.47	-	40.62	22.37	-
5. 1	251.38	88.52	339.90	53.49	105.21	46.95	57.82	101.44	57.82	36.59	18.34	-
9. 1	251.38	88.71	340.09	53.49	105.21	46.95	57.82	101.44	57.82	36.59	18.34	-
10. 1	276.16	88.71	364.87	53.49	105.21	46.95	57.82	101.44	57.82	36.59	18.34	-
2001. 1. 1	314.94	84.88	399.82	53.49	105.21	46.95	57.82	101.44	57.82	36.59	18.34	107.35
4. 1	335.08	84.88	419.96	45.03	42.38	43.72	54.90	98.52	54.90	33.67	15.42	106.33
2002. 1. 1	276.41	78.08	354.49	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	106.33
11. 1	294.41	78.08	372.49	43.09	35.89	43.34	52.90	96.52	52.90	31.67	15.42	106.33
2003. 1. 1	305.08	71.84	376.92	43.09	35.89	43.34	52.90	96.52	52.90	31.67	15.42	106.33
3. 1	325.88	74.35	400.23	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	106.33
7. 1	317.83	74.35	392.18	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	106.33
9. 1	299.71	74.35	374.06	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	106.33
2004. 1. 1	321.56	72.52	394.08	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	106.33
9. 1	348.96	72.52	421.48	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	106.33
11. 1	377.86	72.52	450.38	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	106.33

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임

자료: 한국도시가스협회

7. City Gas Prices

Unit : KRW/m³

소비자가격 ¹ Retail Prices ¹									
평 균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5-9월) Space Cooling	산업용 Industrial	수송용 Transport	
				영업용1 Commercial1	영업용2 Commercial2				
282.73	310.00	265.95	265.95	310.00		265.95	265.95	-	1988. 6.
271.00	298.27	254.22	254.22	298.27		298.27	254.22	-	12. 1
265.05	292.32	292.32	248.27	248.27		248.27	248.27	-	1989. 1. 1
234.40	284.85	284.85	220.69	220.69		220.69	211.95	-	6. 1
220.20	284.85	210.66	284.85	284.85		284.85	204.22	-	1990. 5. 1
217.53	284.85	210.66	284.85	284.85		179.64	193.99	-	1991. 7. 1
232.71	295.47	225.41	304.79	304.79		179.64	193.99	-	1992. 7. 1
235.97	299.61	228.57	-	309.06		182.54	196.70	-	1994.11. 1
245.73	301.90	243.64	-	309.06		165.97	196.70	-	1995. 8. 1
273.21	333.68	275.42	-	322.30		165.97	209.94	-	1997. 3.25
334.70	402.76	344.50	-	391.38		165.97	256.06	-	12. 2
372.34	441.13	382.87	-	492.75		165.97	294.43	-	1998. 1.24
372.34	439.32	381.06	391.93	387.75		202.21	287.29	-	8. 1
353.20	420.18	361.92	372.79	368.61	324.99	202.21	268.15	-	10. 1
345.99	412.97	354.71	365.58	361.40	317.78	202.21	260.94	-	1999. 1. 1
325.70	392.68	334.42	345.29	341.11	297.49	202.21	240.65	-	4. 1
348.00	418.10	359.84	370.71	366.53	322.91	202.21	250.59	-	10. 1
368.50	438.60	380.34	391.21	387.03	343.41	202.21	271.09	-	2000. 1. 1
393.39	464.35	406.09	416.96	412.78	369.16	198.18	296.84	-	5. 1
393.58	470.34	412.08	422.95	406.45	362.83	198.18	296.84	-	9. 1
418.36	495.12	436.86	447.73	431.23	387.61	198.18	321.62	-	10. 1
453.31	530.01	471.75	482.62	466.12	422.50	198.18	356.51	442.52	2001. 1. 1
464.99	487.32	488.66	499.84	483.34	439.72	195.26	373.73	461.64	4. 1
397.58	419.51	424.96	436.52	418.62	375.00	232.72	320.03	407.94	2002. 1. 1
415.58	437.51	442.96	454.52	436.62	393.00	232.72	338.03	425.94	11. 1
420.01	441.79	447.24	458.80	441.46	397.84	232.72	349.01	436.92	2003. 1. 1
443.32	465.95	471.40	482.96	463.51	419.89	232.72	370.81	485.72	3. 1
135.27	457.90	463.35	474.91	455.46	411.84	232.72	362.76	450.67	7. 1
417.15	439.78	445.23	456.79	437.34	393.72	232.72	344.64	432.55	9. 1
437.17	460.00	465.45	477.01	458.34	414.41	259.54	365.99	453.90	2004. 1. 1
464.57	487.40	492.85	504.41	485.43	441.81	259.54	393.39	481.30	9. 1
493.47	516.30	521.75	533.31	514.33	470.71	259.54	422.29	510.20	11. 1

1. Retail prices in Seoul

Note: The price is based on MJ since July 2012

Source: Korea City Gas Association

7. 도시가스 가격(계속)

단위: 원/㎥

	KOGAS 공급 가격 KOGAS Price			도시가스사공급비용 City Gas Suppliers' Margin								
	원료비 Material Cost	공급비용 Other Cost	공급가격 Sales Price	평 균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5~9월) Space Cooling	산업용 Industrial	수송용 Transport
								영업용1 Commercial1	영업용2 Commercial2			
2005. 1. 1	368.84	66.98	435.82	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
3. 1	329.26	66.03	395.29	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
5. 1	348.02	66.03	414.05	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
6. 1	348.02	59.35	407.37	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
7. 1	361.10	59.35	420.45	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
11. 1	385.00	59.35	444.35	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
2006. 1. 1	414.46	60.85	475.31	44.58	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
7. 1	454.33	60.85	515.18	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
9. 1	502.73	60.85	563.58	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
11. 1	461.68	60.85	522.53	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
2007. 1. 1	442.35	59.45	501.80	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
3. 1	428.29	59.45	487.74	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
5. 1	451.00	59.45	510.45	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
7. 1	467.47	59.45	526.92	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
9. 1	507.94	59.45	567.39	47.82	39.13	44.85	56.14	99.76	56.14	34.91	18.66	113.02
11. 1	524.10	59.45	583.55	47.82	39.13	44.85	56.14	99.76	56.14	34.91	18.66	113.02
2008. 1. 1	504.08	63.10	567.18	47.82	39.13	44.85	56.14	99.76	56.14	34.91	18.66	113.02
11.15	546.08	63.10	609.18	47.82	39.13	44.85	56.14	99.76	56.14	34.91	18.66	113.02
2009. 6. 27	597.96	59.43	657.39	50.33	41.64	47.09	58.65	102.27	58.65	37.42	21.17	115.53
2010. 9. 1	624.61	67.81	692.42	48.63	40.20	45.65	57.21	100.83	57.21	35.98	19.73	115.53
11. 1	588.50	67.81	656.31	48.63	40.20	45.65	57.21	100.83	57.21	35.98	19.73	112.09
2011. 1. 1	623.38	67.81	691.19	48.63	40.20	45.65	57.21	100.83	57.21	35.98	19.73	112.09
5. 1	673.65	53.00	726.65	48.63	40.20	45.65	57.21	100.83	57.21	35.98	19.73	112.09
10. 10	715.06	53.00	768.06	47.72	39.86	45.31	56.87	100.49	56.87	35.64	19.73	111.75
2012. 6. 30	757.37	50.99	808.36	47.72	39.86	45.31	56.87	100.49	56.87	35.64	19.73	111.75

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임

자료: 한국도시가스협회

7. City Gas Prices(Continued)

Unit : KRW/m³

소비자가격 ¹ Retail Prices ¹									
평 균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5~9월) Space Cooling	산업용 Industrial	수송용 Transport	
				영업용1 Commercial1	영업용2 Commercial2				
478.91	500.29	505.74	517.30	503.30	459.68	274.26	410.84	500.44	2005. 1. 1
438.38	459.76	465.21	476.77	462.77	419.15	274.26	370.31	459.91	3. 1
457.14	478.52	483.97	495.53	481.53	437.91	274.26	389.07	478.67	5. 1
450.46	471.84	477.29	488.85	474.85	431.23	274.26	382.39	471.99	6. 1
463.54	484.92	490.37	501.93	487.93	444.31	274.26	395.47	487.07	7. 1
487.44	508.82	514.27	525.83	511.83	468.21	274.26	419.37	508.97	11. 1
519.89	537.92	543.37	554.93	545.99	502.37	329.04	454.72	544.32	2006. 1. 1
563.00	581.03	586.48	598.04	589.10	545.48	332.28	497.83	584.19	7. 1
611.40	629.43	634.88	646.44	637.50	593.88	332.28	546.23	632.59	9. 1
570.35	588.38	593.83	605.39	596.45	552.83	332.28	505.18	591.54	11. 1
549.62	571.13	576.58	588.14	580.64	537.02	363.79	481.60	567.96	2007. 1. 1
535.56	557.07	562.52	574.08	566.58	522.96	363.79	467.54	553.90	3. 1
558.27	579.78	585.23	596.79	589.29	545.67	363.79	490.25	576.61	5. 1
574.74	596.25	601.70	613.26	605.76	562.14	363.79	506.72	593.08	7. 1
615.21	636.72	642.17	653.73	646.23	602.61	363.79	547.19	638.55	9. 1
631.37	652.88	658.33	669.89	662.39	618.77	363.79	563.35	654.71	11. 1
615.00	640.68	646.13	657.69	645.68	602.06	400.19	545.29	636.65	2008. 1. 1
657.00	671.68	677.13	710.69	698.68	655.06	400.19	598.29	689.65	11.15
707.72	708.88	714.33	778.28	763.49	719.87	433.81	659.95	751.31	2009. 6. 27
741.05	749.94	755.39	816.92	795.71	752.09	484.45	684.14	773.50	2010. 9. 1
704.94	713.83	719.28	780.81	759.60	715.98	484.45	647.05	737.39	11. 1
739.82	748.71	754.16	815.69	794.48	750.86	484.45	681.93	772.27	2011. 1. 1
775.28	785.77	791.22	833.08	829.13	785.51	521.23	829.75	820.51	5. 1
815.78	826.84	832.29	874.15	870.20	826.58	535.45	771.16	861.58	10. 10
856.08	868.67	874.12	908.73	908.87	865.25	567.18	814.07	904.54	2012. 6. 30

1. Retail prices in Seoul

Note: The price is based on MJ since July 2012

Source: Korea City Gas Association

7. 도시가스 가격(계속)

단위: 원/MJ

	KOGAS 평균 공급 가격 KOGAS average price			KOGAS 공급 가격 KOGAS price								
	원료비 Material Cost	공급비용 Other Cost	공급가격 Sales Price	주택용 Residential		업무난방용 Office Space Heating	일반용 Commercial			냉난방공조용 Cooling/Heating		
				취사 Cooking	난방 Space Heating		동절기 12~3	하절기 6~9	기타월 4,5, 10,11	동절기 12~3	하절기 5~9	기타월 4,10,11
2012. 7. 1	17.39	1.17	18.56	19.03	19.03	19.56	18.76	18.57	18.57	19.52	12.21	18.64
2.22	18.25	1.17	19.42	19.89	19.89	20.42	19.62	19.42	19.42	20.37	12.85	19.50
8. 1	18.25	1.28	19.53	20.11	20.11	20.49	19.67	19.46	19.49	20.37	12.85	19.87
2014. 1. 1	19.45	1.28	20.73	21.32	21.32	21.69	20.87	20.66	20.69	21.57	13.75	21.07
7. 1	19.23	1.29	20.52	21.09	21.09	21.46	20.64	20.44	20.47	21.34	13.50	20.84
9. 1	19.23	1.29	20.52	21.09	21.09	21.46	20.64	20.44	20.47	21.34	13.50	20.84
11. 1	19.23	1.29	20.52	21.09	21.09	21.46	20.64	20.44	20.47	21.34	13.50	20.84
2015. 1. 1	17.95	1.29	19.24	19.81	19.81	20.19	19.36	19.16	19.19	20.06	12.55	19.57
3. 1	15.89	1.29	17.18	17.99	17.99	17.90	17.08	16.87	16.90	17.78	10.80	17.28
5. 1	13.74	1.54	15.29	16.38	16.38	16.61	15.10	14.84	14.85	16.13	8.78	15.06
7. 1	13.74	1.54	15.29	16.38	16.38	16.61	15.10	14.84	14.85	16.13	8.78	15.06
9. 1	14.46	1.54	16.00	17.10	17.10	17.33	15.82	15.56	15.57	16.85	9.31	15.78
11. 1	14.46	1.54	16.00	17.10	17.10	17.33	15.82	15.56	15.57	16.85	9.31	15.78
2016. 1. 1	12.91	1.54	14.46	15.55	15.55	15.78	14.27	14.01	14.02	15.30	8.15	14.23
3. 1	11.42	1.54	12.97	14.06	14.06	14.30	12.78	12.53	12.54	13.81	7.04	12.74
5. 1	10.34	1.82	12.17	13.40	13.40	13.65	11.92	11.61	11.61	13.22	6.23	11.66
7. 1	10.34	1.82	12.17	13.40	13.40	13.65	11.92	11.61	11.61	13.22	6.23	11.66
11. 1	11.16	1.82	12.99	14.22	14.22	14.46	12.74	12.42	12.42	14.03	6.84	12.48
2017. 1. 1	11.16	1.82	12.99	14.22	14.22	14.46	12.74	12.42	12.42	14.03	7.31	12.48
3. 1	11.60	1.82	13.43	14.66	14.66	14.90	13.18	12.86	12.86	14.47	7.64	12.92
5. 1	12.27	1.61	13.88	14.95	14.95	15.03	13.60	13.36	13.41	14.34	8.14	13.96
9. 1	12.27	1.61	13.88	14.95	14.95	15.03	13.60	13.36	13.41	14.34	8.14	13.96
11. 1	10.86	1.61	12.47	13.54	13.54	13.62	12.18	11.95	12.00	12.92	8.14	12.54
2018. 1. 1	10.86	1.61	12.47	13.54	13.54	13.62	12.18	11.95	12.00	12.92	8.14	12.54
3. 1	10.86	1.61	12.47	13.54	13.54	13.62	12.18	11.95	12.00	12.92	8.14	12.54
5. 1	11.63	1.28	12.64	13.54	13.54	13.66	12.18	11.95	12.00	13.28	8.52	12.69
7. 1	11.95	1.28	13.23	14.12	14.12	14.24	12.77	12.54	12.59	13.87	8.96	13.28
2019. 5. 1	11.93	1.28	13.21	14.12	14.12	14.24	12.77	12.54	12.59	13.87	8.96	13.28
7. 8	12.65	1.20	13.86	14.71	14.71	14.98	13.48	13.24	13.29	14.61	8.96	14.03
2020. 7. 1	10.44	1.42	11.86	12.93	12.93	13.03	11.44	11.25	11.27	12.57	7.01	11.72
8. 1	10.44	1.42	11.86	12.93	12.93	13.34	11.44	11.25	11.27	12.88	7.24	12.03
9. 1	10.44	1.42	11.86	12.93	12.93	12.12	11.44	11.25	11.27	11.66	6.33	10.82
10. 1	10.44	1.42	11.86	12.93	12.93	11.16	11.44	11.25	11.27	10.70	5.61	9.86
11. 1	10.44	1.42	11.86	12.93	12.93	11.09	11.44	11.25	11.27	10.63	5.56	9.79
12. 1	10.44	1.42	11.86	12.93	12.93	11.91	11.44	11.25	11.27	11.45	6.17	10.60
2021. 1. 1	10.44	1.42	11.86	12.93	12.93	12.44	11.44	11.25	11.27	11.98	6.57	11.13
2. 1	10.44	1.42	11.86	12.93	12.93	13.25	11.44	11.25	11.27	12.79	7.18	11.94
3. 1	10.44	1.42	11.86	12.93	12.93	14.30	11.44	11.25	11.27	13.84	7.97	13.00
4. 1	11.17	1.42	12.59	12.93	12.93	14.52	11.44	11.25	11.27	14.06	8.13	13.21
5. 1	10.25	1.68	11.93	12.93	12.93	13.43	11.53	11.25	11.27	12.88	7.30	11.76
6. 1	10.53	1.68	12.20	12.93	12.93	13.43	11.53	11.25	11.27	13.45	7.72	12.33

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임

자료: 한국도시가스협회

7. City Gas Prices(Continued)

Unit : KRW/MJ

				도시가스사 공급비용 City Gas Suppliers' Margin											
산업용 Industrial			수송용 Transport	평 균 Average	주택용 Residential		업무난방용 Office Space Heating	일반용1 Commercial1			일반용2 Commercial2				
동절기 12-3	하절기 6-9	기타월 4,5, 10,11			취사 Cooking	난방 Space Heating		동절기 12-3	하절기 6-9	기타월 4,5, 10,11	동절기 12-3	하절기 6-9		기타월 4,5, 10,11	
18.60	18.07	18.07	18.21	1.10	0.92	1.04	1.31	2.31	2.31	2.31	1.31	1.31	1.31	2012. 7. 1	
19.45	18.92	18.92	19.06	1.10	0.92	1.04	1.31	2.31	2.31	2.31	1.31	1.31	1.31		2.22
19.42	18.91	18.96	19.05	1.10	0.92	1.04	1.31	2.31	2.31	2.31	1.31	1.31	1.31		8. 1
20.62	20.11	20.16	20.26	1.10	0.92	1.04	1.31	2.31	2.31	2.31	1.31	1.31	1.31	2014. 1. 1	
20.39	19.89	19.94	20.03	1.10	0.92	1.04	1.31	2.31	2.31	2.31	1.31	1.31	1.31		7. 1
20.39	19.89	19.94	20.03	1.23	1.11	1.11	1.38	2.38	2.38	2.38	1.38	1.38	1.38		9. 1
20.39	19.89	19.94	20.03	1.23	1.11	1.11	1.38	2.38	2.38	2.38	1.38	1.38	1.38	11. 1	
19.11	18.61	18.66	18.75	1.23	1.11	1.11	1.38	2.38	2.38	2.38	1.38	1.38	1.38	2015. 1. 1	
16.83	16.32	16.37	16.47	1.23	1.11	1.11	1.38	2.38	2.38	2.38	1.38	1.38	1.38		3. 1
14.96	14.21	14.23	14.44	1.23	1.11	1.11	1.38	2.38	2.38	2.38	1.38	1.38	1.38		5. 1
14.96	14.21	14.23	14.44	1.23	1.11	1.11	1.38	2.38	2.38	2.38	1.38	1.38	1.38	7. 1	
15.68	14.93	14.95	15.16	1.23	1.11	1.11	1.38	2.38	2.38	2.38	1.38	1.38	1.38	9. 1	
15.68	14.93	14.95	15.16	1.23	1.11	1.11	1.38	2.38	2.38	2.38	1.38	1.38	1.38	11. 1	
14.13	13.38	13.40	13.61	1.26	1.14	1.14	1.41	2.41	2.41	2.41	1.41	1.41	1.41	2016. 1. 1	
12.65	11.89	11.91	12.12	1.26	1.14	1.14	1.41	2.41	2.41	2.41	1.41	1.41	1.41		3. 1
11.75	10.87	10.87	11.14	1.26	1.14	1.14	1.41	2.41	2.41	2.41	1.41	1.41	1.41		5. 1
11.75	10.87	10.87	11.14	1.26	1.14	1.14	1.41	2.41	2.41	2.41	1.41	1.41	1.41	7. 1	
12.57	11.68	11.68	11.96	1.26	1.14	1.14	1.41	2.41	2.41	2.41	1.41	1.41	1.41	11. 1	
12.57	11.68	11.68	11.96	1.26	1.14	1.14	1.41	2.41	2.41	2.41	1.41	1.41	1.41	2017. 1. 1	
13.01	12.13	12.13	12.40	1.26	1.14	1.14	1.41	2.41	2.41	2.41	1.41	1.41	1.41		3. 1
13.51	12.77	12.91	13.04	1.26	1.14	1.14	1.41	2.41	2.41	2.41	1.41	1.41	1.41		5. 1
13.51	12.77	12.91	13.04	1.35	1.22	1.22	1.49	2.49	2.49	2.49	1.49	1.49	1.49	9. 1	
12.10	11.35	11.49	11.62	1.35	1.22	1.22	1.49	2.49	2.49	2.49	1.49	1.49	1.49	11. 1	
12.10	11.35	11.49	11.62	1.35	1.22	1.22	1.49	2.49	2.49	2.49	1.49	1.49	1.49	2018. 1. 1	
12.10	11.35	11.49	11.62	1.35	1.22	1.22	1.49	2.49	2.49	2.49	1.49	1.49	1.49		3. 1
12.44	11.81	11.88	12.01	1.35	1.22	1.22	1.49	2.49	2.49	2.49	1.49	1.49	1.49		5. 1
13.03	12.39	12.47	12.60	1.35	1.22	1.22	1.49	2.49	2.49	2.49	1.49	1.49	1.49	7. 1	
13.03	12.39	12.47	12.60	1.35	1.22	1.22	1.49	2.49	2.49	2.49	1.49	1.49	1.49	2019. 5. 1	
13.75	13.11	13.19	13.32	1.35	1.22	1.22	1.49	2.49	2.49	2.49	1.49	1.49	1.49		7. 8
11.69	10.89	10.95	10.87	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		2020. 7. 1
12.00	11.20	11.26	11.17	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	8. 1	
10.78	9.98	10.04	9.96	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	9. 1	
9.82	9.02	9.08	9.00	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	10. 1	
9.75	8.95	9.01	8.93	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	11. 1	
10.57	9.77	9.83	9.74	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	12. 1	
11.10	10.30	10.36	10.27	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	2021. 1. 1	
11.91	11.11	11.17	11.08	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		2. 1
12.96	12.16	12.22	12.14	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		3. 1
13.18	12.38	12.44	12.35	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	4. 1	
11.87	10.89	10.94	10.86	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	5. 1	
12.44	11.45	11.51	11.43	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	6. 1	

1. Retail prices in Seoul

Note: The price is based on MJ since July 2012

Source: Korea City Gas Association

7. 도시가스 가격(계속)

단위: 원/MJ

	도시가스사 공급비용 City Gas Suppliers' Margin							소비자 가격 Retail Prices						
	냉난방공조용 Cooling/Heating			산업용 Industrial			수송용 Transport	평 균 Average	주택용 Residential		업무난방용 Office Space Heating	일반용1 Commercial1		
	동절기 12~3	하절기 5~9	기타월 4,10,11	동절기 12~3	하절기 6~9	기타월 4,5, 10,11			취사 Cooking	난방 Space Heating		동절기 12~3	하절기 6~9	기타월 4,5, 10,11
2012. 7. 1	1.31	0.82	1.31	0.45	0.45	0.45	0.45	19.66	19.95	20.08	20.87	21.07	20.87	20.87
2.22	1.31	0.82	1.31	0.45	0.45	0.45	0.45	20.52	20.81	20.93	21.73	21.93	21.73	21.73
8. 1	1.31	0.82	1.31	0.45	0.45	0.45	0.45	20.63	21.03	21.15	21.79	21.97	21.77	21.80
2014. 1. 1	1.31	0.82	1.31	0.45	0.45	0.45	0.45	21.83	22.23	22.36	22.99	23.17	22.97	23.00
7. 1	1.31	0.82	1.31	0.45	0.45	0.45	0.45	21.61	22.01	22.13	22.77	22.95	22.75	22.78
9. 1	1.38	0.89	1.38	0.68	0.68	0.68	0.68	21.75	22.21	22.21	22.84	23.02	22.82	22.85
11. 1	1.38	0.89	1.38	0.68	0.68	0.68	0.68	21.75	22.21	22.21	22.84	23.02	22.82	22.85
2015. 1. 1	1.38	0.89	1.38	0.68	0.68	0.68	0.68	20.47	20.93	20.93	21.57	21.75	21.54	21.57
3. 1	1.38	0.89	1.38	0.68	0.68	0.68	0.68	18.41	19.10	19.10	19.28	19.46	19.26	19.28
5. 1	1.38	0.89	1.38	0.68	0.68	0.68	0.68	16.52	17.49	17.49	18.00	17.48	17.23	17.24
7. 1	1.38	0.89	1.38	0.68	0.68	0.68	0.68	16.52	17.49	17.49	18.00	17.48	17.23	17.24
9. 1	1.38	0.89	1.38	0.68	0.68	0.68	0.68	17.24	18.21	18.21	18.71	18.20	17.95	17.96
11. 1	1.38	0.89	1.38	0.68	0.68	0.68	0.68	17.24	18.21	18.21	18.71	18.20	17.95	17.96
2016. 1. 1	1.41	0.92	1.41	0.71	0.71	0.71	0.68	15.72	16.69	16.69	17.19	16.68	16.43	16.43
3. 1	1.41	0.92	1.41	0.71	0.71	0.71	0.68	14.23	15.20	15.20	15.71	15.19	14.94	14.95
5. 1	1.41	0.92	1.41	0.71	0.71	0.71	0.68	13.43	14.55	14.55	15.05	14.33	14.02	14.02
7. 1	1.41	0.92	1.41	0.71	0.71	0.71	0.68	13.43	14.55	14.55	15.05	14.33	14.02	14.02
11. 1	1.41	0.92	1.41	0.71	0.71	0.71	0.68	14.25	15.36	15.36	15.87	15.15	14.83	14.83
2017. 1. 1	1.41	0.92	1.41	0.71	0.71	0.71	0.68	14.25	15.36	15.36	15.87	15.15	14.83	14.83
3. 1	1.41	0.92	1.41	0.71	0.71	0.71	0.68	14.69	15.80	15.80	16.31	15.59	15.28	15.28
5. 1	1.41	0.92	1.41	0.71	0.71	0.71	0.68	15.14	16.09	16.09	16.44	16.01	15.77	15.82
9. 1	1.49	1.00	1.49	0.79	0.79	0.79	0.76	15.23	16.17	16.17	16.52	16.09	15.85	15.90
11. 1	1.49	1.00	1.49	0.79	0.79	0.79	0.76	13.82	14.76	14.76	15.11	14.67	14.44	14.49
2018. 1. 1	1.49	1.00	1.49	0.79	0.79	0.79	0.76	13.82	14.76	14.76	15.11	14.67	14.44	14.49
3. 1	1.49	1.00	1.49	0.79	0.79	0.79	0.76	13.82	14.76	14.76	15.11	14.67	14.44	14.49
5. 1	1.49	1.00	1.49	0.79	0.79	0.79	0.76	13.99	14.76	14.76	15.14	14.67	14.44	14.49
7. 1	1.49	1.00	1.49	0.79	0.79	0.79	0.76	14.58	15.34	15.34	15.73	15.26	15.02	15.08
2019. 5. 1	1.49	1.00	1.49	0.79	0.79	0.79	0.76	14.58	15.34	15.34	15.73	15.26	15.02	15.08
7. 8	1.49	1.00	1.49	0.79	0.79	0.79	0.76	15.21	15.93	15.93	16.47	15.96	15.73	15.78
2020. 7. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	13.30	14.22	14.22	14.59	14.01	13.82	13.83
8. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	...	14.22	14.22	14.90	14.01	13.82	13.83
9. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	...	14.22	14.22	13.68	14.01	13.82	13.83
10. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	...	14.22	14.22	12.72	14.01	13.82	13.83
11. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	...	14.22	14.22	12.65	14.01	13.82	13.83
12. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	...	14.22	14.22	13.47	14.01	13.82	13.83
2021. 1. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	...	14.22	14.22	14.00	14.01	13.82	13.83
2. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	...	14.22	14.22	14.81	14.01	13.82	13.83
3. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	...	14.22	14.22	15.86	14.01	13.82	13.83
4. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	14.03	14.22	14.22	16.08	14.01	13.82	13.83
5. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	13.36	14.22	14.22	14.99	14.10	13.82	13.83
6. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	13.64	14.22	14.22	14.99	14.10	13.82	13.83

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임

자료: 한국도시가스협회

7. City Gas Prices(Continued)

Unit : KRW/MJ

일반용2 Commercial2			냉난방공조용 Cooling/Heating			산업용 Industrial			수송용 Transport	연료전지 Fuel cell	
동절기 12~3	하절기 6~9	기타월 4,5,10,11	동절기 12~3	하절기 5~9	기타월 4,10,11	동절기 12~3	하절기 6~9	기타월 4,5,10,11			
20.07	19.87	19.87	20.82	13.03	19.95	19.05	18.52	18.52	18.66	-	2012. 7. 1
20.93	20.73	20.73	21.68	13.67	20.80	19.91	19.38	19.38	19.52	-	2.22
20.97	20.77	20.80	21.67	13.67	21.17	19.87	19.37	19.42	19.51	-	8. 1
22.17	21.97	22.00	22.87	14.57	22.37	21.07	20.57	20.62	20.71	-	2014. 1. 1
21.95	21.75	21.77	22.65	14.32	22.15	20.84	20.34	20.39	20.48	-	7. 1
22.02	21.82	21.85	22.72	14.40	22.22	21.07	20.57	20.62	20.71	-	9. 1
22.02	21.82	21.85	22.72	14.40	22.22	21.07	20.57	20.62	20.71	-	11. 1
20.74	20.54	20.57	21.44	13.44	20.95	19.79	19.29	19.34	19.43	-	2015. 1. 1
18.46	18.25	18.28	19.16	11.69	18.66	17.51	17.00	17.05	17.15	-	3. 1
16.48	16.23	16.23	17.51	9.67	16.44	15.64	14.89	14.91	15.12	-	5. 1
16.48	16.23	16.23	17.51	9.67	16.44	15.64	14.89	14.91	15.12	-	7. 1
17.20	16.94	16.95	18.23	10.21	17.16	16.36	15.60	15.63	15.84	-	9. 1
18.23	10.21	17.16	18.23	10.21	17.16	16.36	15.60	15.63	15.84	-	11. 1
15.68	15.42	15.43	16.71	9.07	15.64	14.84	14.08	14.11	14.29	-	2016. 1. 1
14.19	13.94	13.94	15.22	7.96	14.15	13.35	12.60	12.62	12.80	-	3. 1
13.33	13.02	13.02	14.62	7.15	13.07	12.46	11.58	11.58	11.82	-	5. 1
13.33	13.02	13.02	14.62	7.15	13.07	12.46	11.58	11.58	11.82	-	7. 1
14.14	13.83	13.83	15.44	7.76	13.89	13.28	12.39	12.39	12.64	-	11. 1
14.14	13.83	13.83	15.44	8.23	13.89	13.28	12.39	12.39	12.64	-	2017. 1. 1
14.59	14.27	14.27	15.88	8.56	14.33	13.72	12.83	12.83	13.08	-	3. 1
15.01	14.77	14.82	15.75	9.06	15.36	14.22	13.47	13.61	13.72	-	5. 1
15.08	14.85	14.90	15.82	9.14	15.44	14.29	13.55	13.69	13.79	-	9. 1
13.67	13.44	13.49	14.41	9.14	14.03	12.88	12.14	12.28	12.38	-	11. 1
13.67	13.44	13.49	14.41	9.14	14.03	12.88	12.14	12.28	12.38	-	2018. 1. 1
13.67	13.44	13.49	14.41	9.14	14.03	12.88	12.14	12.28	12.38	-	3. 1
13.67	13.44	13.49	14.77	9.52	14.18	13.23	12.59	12.66	12.77	-	5. 1
14.26	14.02	14.08	15.36	9.96	14.77	13.82	13.18	13.25	13.36	-	7. 1
14.26	14.02	14.08	15.36	9.96	14.77	13.82	13.18	13.25	13.36	12.30	2019. 5. 1
14.96	14.73	14.78	16.10	9.96	15.52	14.54	13.90	13.97	14.08	13.02	7. 8
13.01	12.81	12.83	14.13	8.09	13.26	12.55	11.75	11.81	11.70	10.63	2020. 7. 1
13.01	12.81	12.83	14.44	8.32	13.59	12.86	12.06	12.12	12.01	10.95	8. 1
13.01	12.81	12.83	13.22	7.40	12.38	11.64	10.84	10.90	10.79	9.73	9. 1
13.01	12.81	12.83	12.26	6.68	11.42	10.68	9.88	9.94	9.83	8.76	10. 1
13.01	12.81	12.83	12.19	6.63	11.35	10.61	9.81	9.88	9.76	8.69	11. 1
13.01	12.81	12.83	13.01	7.24	12.16	11.43	10.63	10.69	10.58	9.51	12. 1
13.01	12.81	12.83	13.54	7.64	12.69	11.96	11.16	11.22	11.11	10.08	2021. 1. 1
13.01	12.81	12.83	14.35	8.25	13.50	12.77	11.97	12.03	11.92	10.89	2. 1
13.01	12.81	12.83	15.40	9.04	14.56	13.82	13.02	13.08	12.97	11.94	3. 1
13.01	12.81	12.83	15.62	9.20	14.77	14.04	13.24	13.30	13.19	12.16	4. 1
13.09	12.81	12.83	14.44	8.37	13.32	12.73	11.75	11.80	11.69	10.85	5. 1
13.09	12.81	12.83	15.01	8.80	13.89	13.30	12.31	12.37	12.26	11.42	6. 1

1. Retail prices in Seoul

Note: The price is based on MJ since July 2012

Source: Korea City Gas Association



4. 석유 Oil

1. 원유 및 정제원료 수급

Crude Oil & Refinery Feedstocks Overview

2. 원유 수급

Crude Oil Demand & Supply

2-1. 계약형태별 원유 수입 Crude Oil & Refinery Feedstocks

2-2. 국별 원유 수입 Crude Oil Imports by Country

2-3. 원유 수입 가격 Costs of Crude Oil Imports

2-4. 국별 원유 수입 단가 Unit Prices of Crude Oil Imports by Country

2-5. 원유 처리 현황 Refinery Runs

3. 석유정제 및 전환공정 투입

Petroleum Refining & Transformation Processes

4. 석유제품 수급

Petroleum Products Overview

4-1. 석유제품 수입 Petroleum Imports

4-2. 석유제품 수출 Petroleum Exports

4-3. 석유제품 정제생산 Petroleum refining production

4-4. 석유제품 소비 Petroleum Refining Production

4-4-1. 프로판 Propane

4-4-2. 부탄 Butane

4-4-3. 휘발유 Gasoline

4-4-4. 항공유 Air fuel

4-4-5. 등유 Kerosene

4-4-6. 경유 Diesel

4-4-7. 중유 Fuel oil

4-4-8. 납사 Naphtha

4-5. 석유제품 소비(2021)

Petroleum Product Consumption Status in 2021

5. 석유제품 소비자가격

Retail Prices of Petroleum Products

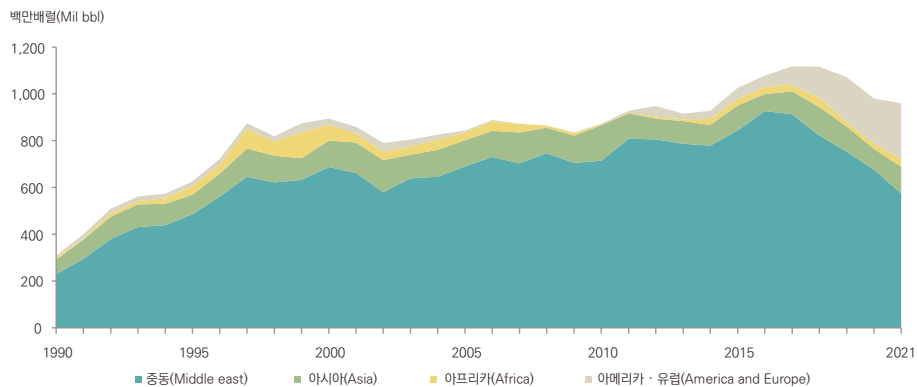
6. 정제 능력

Refining Capacities



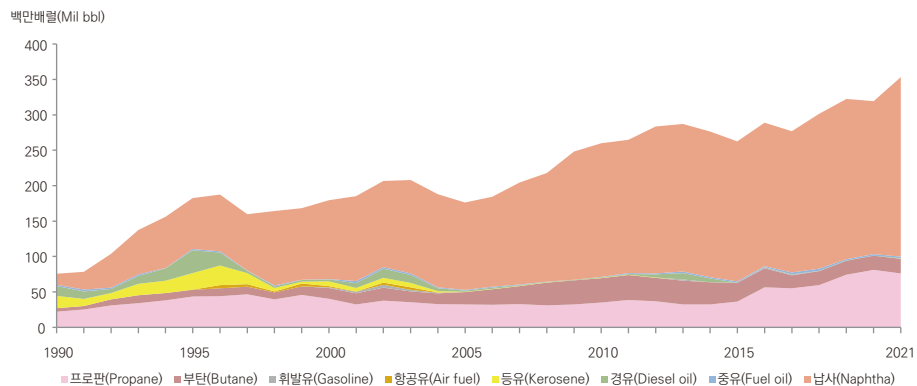
● 원유 수입 Crude Oil Imports

〈1990~2021〉



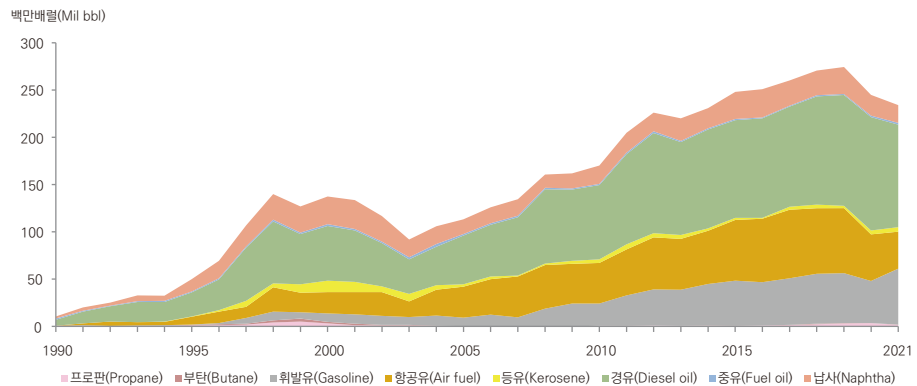
● 석유제품 수입 Petroleum Products Imports

〈1990~2021〉



● 석유제품 수출 Petroleum Products Exports

〈1990~2021〉



1. 원유 및 정제원료 수급

	생산	수입			수출	재고	일차에너지공급
	Production	Imports	원유	기타 ² Others ²			
			Crude oil				
1,000 bbl							
1990	-	310,494	308,368	2,126	-	4,500	313,963
1991	-	399,976	399,303	672	-	5,637	398,839
1992	-	512,082	509,378	2,704	601	6,907	510,338
1993	-	566,233	560,563	5,670	503	8,826	563,812
1994	-	586,912	573,714	13,199	794	19,476	575,467
1995	-	644,020	624,945	19,075	167	14,224	649,105
1996	-	737,722	721,927	15,795	1,502	16,479	733,966
1997	-	877,676	873,415	4,261	1,430	15,527	877,464
1998	-	822,564	819,094	3,470	257	6,509	831,325
1999	-	881,320	874,090	7,230	282	8,475	879,161
2000	-	899,809	893,943	5,866	743	8,917	898,624
2001	-	868,237	859,367	8,870	770	8,491	869,465
2002	-	800,488	790,992	9,496	932	11,089	796,972
2003	-	812,494	804,809	7,685	326	32,373	790,885
2004	-	830,674	825,790	4,884	96	30,300	832,651
2005	407	851,327	843,203	8,124	29	20,209	861,934
2006	333	892,296	888,794	3,502	21	28,074	884,743
2007	236	873,674	872,541	1,133	489	17,631	884,340
2008	155	866,659	864,872	1,787	1,686	16,123	866,575
2009	321	837,008	835,085	1,923	2,233	11,682	839,537
2010	380	874,666	872,415	2,251	3,330	13,577	869,820
2011	285	928,736	927,044	1,691	4,039	17,634	921,053
2012	263	949,058	947,292	1,766	2,473	19,677	944,792
2013	290	918,634	915,075	3,559	1,988	26,069	910,875
2014	198	933,736	927,524	6,213	992	34,161	924,848
2015	115	1,030,315	1,026,107	4,208	2,400	44,935	1,017,256
2016	104	1,084,066	1,078,119	5,947	3,597	49,109	1,076,400
2017	217	1,124,938	1,118,167	6,770	2,447	50,741	1,121,075
2018	189	1,126,403	1,116,281	10,122	4,124	59,367	1,113,842
2019	155	1,075,973	1,071,923	4,050	769	52,761	1,081,117
2020	103	987,422	980,259	7,163	448	50,884	988,952
2021	36	973,734	960,147	13,587	1,782	48,956	973,916

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

2. 정제원료, 첨가물, 기타탄화수소

3. 첨가물과 기타탄화수소

4. 국내 모든 정유사 정제능력의 합계

주: 원유, 정제원료, 첨가물, 기타탄화수소의 합계

자료: 한국석유공사-PEDSIS, 대한석유회

1. Crude Oil & Refinery Feedstocks Overview

전환과정 ¹ Transformation processes ¹				정제능력 ³ Refining capacity ³	
	원유 Crude oil	정제원료 Refinery feedstocks	기타 ² Others ²		
1,000 bbl				1,000BPSD	
313,973	312,045	1,928	-	840	1990
398,877	398,030	846	-	1,035	1991
510,450	508,619	1,830	-	1,675	1992
564,548	558,537	6,011	-	1,675	1993
576,085	563,819	12,266	-	1,700	1994
649,293	631,266	18,027	-	1,818	1995
734,715	720,131	14,584	-	2,438	1996
877,440	871,986	5,311	144	2,438	1997
833,014	825,895	7,115	3	2,438	1998
879,466	873,299	6,317	-150	2,438	1999
897,543	892,224	6,031	-712	2,438	2000
869,395	860,166	10,004	-775	2,438	2001
809,469	787,290	22,901	-722	2,438	2002
794,658	783,518	11,343	-202	2,438	2003
832,238	826,967	4,904	367	2,735	2004
860,864	852,544	7,603	717	2,735	2005
881,453	878,417	2,230	806	2,735	2006
882,291	882,409	-925	807	2,765	2007
863,787	865,680	-3,270	1,377	2,785	2008
835,024	838,419	-4,406	1,012	2,835	2009
869,469	872,263	-4,157	1,363	2,845	2010
926,980	924,447	1,399	1,134	2,934	2011
955,613	946,046	8,668	899	2,949	2012
922,923	909,539	12,673	711	2,949	2013
939,156	918,377	21,601	-822	3,009	2014
1,029,608	1,014,957	14,105	546	3,059	2015
1,085,610	1,072,234	12,643	733	3,064	2016
1,153,915	1,116,614	36,670	631	3,105	2017
1,175,276	1,106,317	68,740	219	3,204	2018
1,159,008	1,064,217	94,852	-62	3,204	2019
1,089,285	980,379	108,939	-33	3,204	2020
1,089,068	961,384	128,356	-672	3,204	2021

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. Refinery feedstocks, Additives and other hydrocarbons

3. Additives and other hydrocarbons

4. 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

2. 원유 수입

2-1. 계약형태별 원유 수입

단위: 천 배럴

	합계 Total	중동 Middle East					아시아 Asia				
		소계 Subtotal	장기계약 Long-term Contracts	현 물 Spots	임가공 Processing	개발도입 Development	소계 Subtotal	장기계약 Long-term Contracts	현 물 Spots	임가공 Processing	개발도입 Development
1981	182,814	165,858	164,303	1,555	-	-	5,141	2,305	2,836	-	-
1982	178,369	135,527	128,667	6,860	-	-	21,942	15,278	6,664	-	-
1983	192,969	142,881	104,221	38,660	-	-	26,301	12,444	13,858	-	-
1984	199,681	132,768	90,269	42,500	-	-	38,505	19,212	19,294	-	-
1985	198,313	113,013	50,976	41,577	20,459	-	47,996	31,649	2,425	13,922	-
1986	230,063	139,301	36,304	77,045	25,952	-	51,162	21,379	13,407	16,375	-
1987	216,163	138,659	54,242	58,074	26,343	-	51,265	24,251	17,638	9,375	-
1988	261,079	167,542	55,970	74,500	31,079	5,993	51,917	18,660	21,565	11,692	-
1989	296,411	213,743	77,404	111,472	18,205	6,661	62,573	26,858	33,408	1,837	470
1990	308,368	229,017	123,571	93,820	10,115	1,510	62,530	32,127	25,834	1,031	3,538
1991	399,303	294,357	199,810	92,249	-	2,298	82,695	43,327	38,709	-	658
1992	509,378	380,452	269,822	106,432	-	4,198	95,033	44,905	49,755	-	373
1993	560,563	430,839	299,831	125,467	-	5,541	96,233	53,933	42,300	-	-
1994	573,714	439,330	306,221	128,417	-	4,692	91,083	49,920	40,538	-	626
1995	624,945	486,528	351,042	133,065	-	2,421	82,050	40,042	41,308	-	700
1996	721,927	561,098	425,921	135,176	-	-	98,631	42,198	56,434	-	-
1997	873,415	645,678	537,313	107,123	-	1,242	121,372	58,519	62,853	-	-
1998	819,094	622,005	525,441	96,564	-	-	113,494	60,838	52,656	-	-
1999	874,090	632,067	468,318	163,750	-	-	93,517	45,189	48,328	-	-
2000	893,943	686,916	501,767	185,149	-	-	112,669	54,307	58,361	-	-
2001	859,367	661,649	491,422	169,887	-	340	130,033	35,959	94,074	-	-
2002	790,992	579,865	419,976	159,889	-	-	136,756	42,142	94,615	-	-
2003	804,809	639,453	497,625	139,484	996	1,348	100,721	35,603	65,118	-	-
2004	825,790	645,183	502,039	142,479	-	665	116,287	38,718	77,569	-	-
2005	843,203	689,356	533,800	154,368	-	1,188	111,937	29,458	82,479	-	-
2006	888,794	730,843	560,285	170,558	-	-	110,306	24,113	86,193	-	-
2007	872,541	704,020	521,070	182,950	-	-	131,273	21,071	110,202	-	-
2008	864,872	746,458	569,121	177,337	-	-	108,482	17,689	90,794	-	-
2009	835,085	705,363	560,061	145,302	-	-	116,379	19,214	97,166	-	-
2010	872,415	713,647	589,285	124,361	-	-	152,354	23,177	129,176	-	-
2011	927,044	807,908	685,205	122,704	-	-	108,402	22,820	85,583	-	-
2012	947,292	805,971	645,317	160,654	-	-	88,190	18,969	69,220	-	-
2013	915,075	786,813	604,972	181,841	-	-	97,047	22,364	74,683	-	-
2014	927,524	778,923	628,106	150,817	-	-	88,623	23,658	64,964	-	-
2015	1,026,107	844,637	597,539	241,282	-	5,815	106,263	21,406	84,857	-	-
2016	1,078,119	926,201	612,451	301,437	-	12,313	72,756	19,644	53,112	-	-
2017	1,118,167	913,446	618,093	278,913	-	16,440	97,233	28,400	68,833	-	-
2018	1,116,281	820,994	529,317	276,972	-	14,704	122,832	36,446	86,385	-	-
2019	1,071,923	752,564	593,774	147,450	-	11,340	107,943	12,728	95,215	-	-
2020	980,259	676,409	543,834	122,068	-	10,507	88,493	5,595	82,899	-	-
2021	960,147	574,430	483,832	85,262	-	5,335	113,932	4,965	108,967	-	-

자료: 한국석유공사

2. Crude Oil Demand and Supply

2-1. Crude Oil Imports by Contract Type

Unit: Thousand barrels

아프리카 Africa					아메리카·유럽 America and Europe				
소계 Subtotal	장기계약 Long-term Contracts	현 물 Spots	임가공 Processing	개발도입 Development	소계 Subtotal	장기계약 Long-term Contracts	현 물 Spots	개발도입 Development	
1,467	1,154	313	-	-	10,348	10,348	-	-	1981
6,415	5,868	547	-	-	14,486	14,486	-	-	1982
12,053	11,431	622	-	-	11,734	10,802	932	-	1983
12,227	11,232	995	-	-	16,180	15,770	410	-	1984
11,912	7,960	3,952	-	-	25,392	22,630	2,762	-	1985
13,999	9,134	4,865	-	-	25,601	22,345	3,256	-	1986
15,141	6,289	8,852	-	-	11,098	10,080	1,019	-	1987
17,775	834	12,621	4,321	-	23,845	21,142	2,703	-	1988
16,269	1,710	11,916	1,723	920	3,826	2,996	831	-	1989
9,689	687	8,202	-	801	7,132	3,657	3,475	-	1990
5,551	-	3,744	-	1,808	16,701	13,965	2,736	-	1991
12,822	3,500	7,460	-	1,862	21,071	20,083	-	988	1992
15,790	2,403	12,829	-	558	17,702	17,702	-	-	1993
23,225	5,637	17,588	-	-	20,075	20,075	-	-	1994
37,911	3,781	34,130	-	-	18,456	18,456	-	-	1995
37,024	6,025	30,999	-	-	25,174	18,365	6,809	-	1996
82,126	1,453	80,673	-	-	24,240	23,059	1,181	-	1997
61,907	11,200	50,707	-	-	21,689	16,794	4,895	-	1998
109,560	34,956	74,603	-	-	38,946	22,612	16,334	-	1999
67,749	13,356	54,393	-	-	26,610	13,501	13,109	-	2000
39,155	937	38,219	-	-	28,530	10,067	18,462	-	2001
35,877	2,981	32,896	-	-	38,494	13,548	24,946	-	2002
34,156	9,496	24,660	-	-	30,479	8,168	22,311	-	2003
42,874	19,012	23,862	-	-	21,447	11,768	9,679	-	2004
34,424	-	34,424	-	-	7,487	643	6,844	-	2005
42,814	1,310	41,504	-	-	4,831	-	4,831	-	2006
35,557	1,212	34,345	-	-	1,690	-	1,690	-	2007
9,932	51	9,881	-	-	-	-	-	-	2008
11,608	416	11,192	-	-	1,734	-	1,734	-	2009
4,592	-	4,592	-	-	1,823	-	1,823	-	2010
2,772	-	2,772	-	-	7,962	-	7,962	-	2011
9,233	-	9,233	-	-	43,899	-	43,899	-	2012
8,096	674	7,422	-	-	23,119	2,075	21,044	-	2013
25,301	1,549	23,752	-	-	34,678	18,761	15,916	-	2014
26,691	3,031	23,659	-	-	48,516	12,987	35,529	-	2015
30,496	4,277	26,218	-	-	48,667	27,222	21,444	-	2016
28,189	10,580	17,608	-	-	79,300	39,601	39,698	-	2017
40,901	17,395	23,506	-	-	131,554	52,912	78,643	-	2018
19,928	6,979	12,949	-	-	191,489	44,981	146,507	-	2019
24,549	1,801	22,747	-	-	190,808	49,104	141,704	-	2020
32,000	6,567	25,433	-	-	239,785	59,764	180,021	-	2021

Source : Korea National Oil Corporation.

2-2. 국별 원유 수입량

단위: 천 배럴

	합계	중동						
	Total	Middle East	사우디아라비아 Saudi Arabia	아랍에미레이트 U.A.E	이 란 Iran	쿠웨이트 Kuwait	오 만 Oman	카타르 Qatar
1981	182,814	165,858	104,914	4,647	14,496	38,511	-	-
1982	178,369	135,527	88,132	1,153	22,899	21,328	-	-
1983	192,969	141,816	63,075	7,068	31,415	18,959	17,353	2,073
1984	199,681	132,467	37,075	12,593	39,370	14,989	24,094	3,273
1985	198,313	113,013	13,746	19,934	34,121	17,520	23,125	502
1986	230,063	142,423	21,271	28,417	37,396	13,207	30,934	3,683
1987	216,163	138,659	31,394	25,255	31,853	9,693	29,229	2,518
1988	261,079	168,479	7,841	40,566	35,763	9,466	51,800	1,276
1989	296,411	211,819	14,974	49,122	38,599	15,097	70,282	3,470
1990	308,368	229,017	39,616	49,877	34,287	17,069	63,686	6,610
1991	399,303	294,357	133,588	46,135	52,775	-	51,155	8,133
1992	509,378	380,452	155,104	53,206	61,276	14,372	73,725	14,505
1993	560,563	430,839	172,413	57,576	76,057	29,334	69,557	14,404
1994	573,714	439,330	177,619	48,598	82,828	27,239	48,381	14,352
1995	624,945	486,528	226,863	70,536	68,314	25,233	55,131	10,871
1996	721,927	561,098	252,665	91,620	78,067	41,134	57,413	14,424
1997	873,415	645,678	267,888	127,395	82,192	55,091	50,197	35,241
1998	819,094	622,005	234,450	122,022	67,502	66,894	57,195	34,879
1999	874,090	632,067	241,747	117,405	81,944	53,284	56,001	37,301
2000	893,943	686,916	264,925	128,064	81,251	66,627	46,632	45,722
2001	859,367	661,649	255,432	128,405	80,413	64,407	53,639	42,157
2002	790,992	579,865	240,765	105,905	51,512	56,996	42,053	35,330
2003	804,809	639,453	250,473	138,869	63,682	65,885	40,927	46,780
2004	825,790	645,183	253,849	145,598	64,974	64,659	32,832	45,581
2005	843,203	689,356	249,337	150,608	70,767	79,679	38,799	53,122
2006	888,794	730,843	261,563	158,865	75,058	92,620	36,273	49,871
2007	872,541	704,020	249,887	141,887	85,793	94,031	14,760	46,088
2008	864,872	746,458	262,637	158,109	73,016	104,593	16,670	64,402
2009	835,085	705,363	254,799	114,592	81,437	100,090	17,507	53,673
2010	872,415	713,647	276,787	105,656	72,605	103,079	12,152	64,362
2011	927,044	807,908	291,348	87,234	87,184	117,370	16,715	93,146
2012	947,292	805,971	303,049	86,536	56,146	137,647	8,761	103,825
2013	915,075	786,813	286,588	110,809	48,214	139,853	3,543	86,090
2014	927,524	778,923	292,592	108,472	44,923	136,546	6,516	100,127
2015	1,026,107	844,637	305,779	99,835	42,400	141,856	2,897	123,228
2016	1,078,119	926,201	324,448	87,743	111,942	159,273	16,317	88,150
2017	1,118,167	913,446	319,221	90,971	147,873	160,368	3,876	64,934
2018	1,116,281	820,994	323,174	72,030	58,202	162,005	1,471	65,980
2019	1,071,923	752,564	296,871	88,811	33,230	150,587	360	64,293
2020	980,259	676,409	325,808	77,563	-	129,699	3,907	59,735
2021	960,147	574,430	281,774	56,809	-	101,721	6,574	50,610

자료: 한국석유공사

2-2. Crude Oil Imports by Country

Unit: Thousand barrels

아시아					아프리카	아메리카	유럽	중동의존도(%)	
Asia	인도네시아 Indonesia	말레이시아 Malaysia	호주 Australia	브루나이 Brunei	Africa	America	Europe	Dependence on Middle East	
5,141	2,842	2,299	-	-	1,467	10,348	-	90.7	1981
21,942	14,777	2,469	-	4,696	6,415	14,486	-	76.0	1982
27,367	9,402	9,782	-	8,183	12,053	11,734	-	73.5	1983
39,329	16,919	15,266	930	5,692	11,705	16,180	-	66.3	1984
47,996	20,183	19,745	-	8,067	11,912	25,392	-	57.0	1985
52,128	17,212	23,191	798	9,521	9,912	25,601	-	61.9	1986
51,265	18,014	20,611	2,253	10,387	15,141	11,098	-	64.1	1987
50,980	12,680	22,071	1,695	11,476	17,775	23,845	-	64.5	1988
63,585	12,362	28,009	1,881	13,233	17,180	3,826	-	71.5	1989
62,530	19,096	23,135	689	11,514	9,689	7,132	-	74.3	1990
82,695	33,436	26,102	1,674	12,225	5,551	16,701	-	73.7	1991
95,033	38,040	25,464	-	14,441	12,822	21,071	-	74.7	1992
96,233	34,677	27,370	1,819	12,950	15,790	17,702	-	76.9	1993
91,083	37,454	19,998	3,880	13,335	23,225	20,075	-	76.6	1994
82,050	31,367	13,339	4,939	11,938	37,911	18,456	-	77.9	1995
98,631	35,088	14,838	5,445	13,828	37,024	25,174	-	77.7	1996
121,372	40,965	16,968	8,851	12,787	82,126	23,580	660	73.9	1997
113,494	33,599	18,156	14,252	13,786	61,907	17,594	4,095	75.9	1998
93,517	41,726	19,988	15,495	8,045	109,560	27,896	11,050	72.3	1999
112,669	36,762	17,732	34,990	8,649	67,749	21,365	5,245	76.8	2000
130,033	45,228	19,838	32,879	9,631	39,155	25,469	3,061	77.0	2001
136,756	42,457	14,247	39,552	11,508	35,877	30,282	8,212	73.3	2002
100,721	33,672	11,101	25,396	11,247	34,156	28,543	1,936	79.5	2003
116,287	38,104	13,785	32,068	10,897	42,874	21,447	-	78.1	2004
111,937	37,703	13,037	31,879	10,558	34,424	5,363	2,124	81.8	2005
110,306	23,359	12,747	34,652	13,210	42,814	4,831	-	82.2	2006
131,273	17,603	12,991	39,101	9,224	35,557	1,690	-	80.7	2007
108,482	16,308	11,155	34,499	10,644	9,932	-	-	86.3	2008
116,379	20,115	6,271	34,423	9,596	11,608	1,734	-	84.5	2009
152,354	29,668	9,032	31,735	12,668	4,592	1,823	-	81.8	2010
108,402	21,008	8,961	15,101	12,324	2,772	2,796	5,166	87.1	2011
88,190	20,588	4,909	7,723	9,923	9,233	314	43,585	85.1	2012
97,047	13,242	5,099	15,992	7,606	8,096	329	22,790	86.0	2013
88,623	9,080	4,353	20,861	5,702	25,301	10,053	24,625	84.0	2014
106,263	8,475	2,833	17,694	4,808	26,691	23,255	25,261	82.3	2015
72,756	6,412	1,554	12,049	3,001	30,496	30,080	18,587	85.9	2016
97,233	8,624	3,606	11,679	2,606	28,189	44,453	34,847	81.7	2017
122,832	7,008	2,803	11,092	3,213	40,901	95,094	36,461	73.5	2018
107,943	2,742	1,556	7,886	1,873	19,928	187,735	3,753	70.2	2019
88,493	351	1,582	14,564	1,481	24,549	173,044	17,765	69.0	2020
113,932	586	315	22,009	-	32,000	204,188	35,597	59.8	2021

Source : Korea National Oil Corporation.

2-3. 원유 수입 가격

	수입량		수입액 Import Costs		
	Import Volume		총 액 Total	수송비용 ¹ Transport ¹	본선인도가격 Free on Board(FOB)
	1,000 bbl	1,000 kℓ			
1981	182,814	29,065	6,502,498	266,781	6,235,717
1982	178,369	28,358	6,073,554	219,253	5,854,301
1983	192,969	30,679	5,767,996	217,677	5,550,319
1984	199,681	31,746	5,803,155	216,049	5,587,106
1985	198,313	31,529	5,499,593	210,211	5,289,382
1986	230,063	36,576	3,474,558	215,440	3,259,118
1987	216,163	34,366	3,833,507	174,180	3,659,327
1988	261,079	41,507	3,841,196	215,298	3,625,898
1989	296,411	47,125	4,929,174	242,871	4,686,303
1990	308,368	49,026	6,461,664	297,947	6,163,717
1991	399,303	63,483	7,835,451	427,093	7,408,357
1992	509,378	80,983	9,448,897	384,961	9,063,936
1993	560,563	89,121	9,298,248	436,426	8,861,822
1994	573,714	91,211	8,919,438	406,419	8,513,019
1995	624,945	99,356	10,824,510	514,755	10,309,755
1996	721,927	114,775	14,516,826	682,806	13,834,020
1997	873,415	138,859	17,767,557	930,388	16,837,169
1998	819,094	130,223	11,238,878	800,729	10,438,149
1999	874,090	138,966	14,784,286	685,258	14,099,029
2000	893,943	142,123	25,226,819	1,052,966	24,173,853
2001	859,367	136,626	21,368,018	1,107,855	20,260,163
2002	790,992	125,755	19,173,386	708,090	18,465,296
2003	804,809	127,952	23,123,105	1,008,946	22,114,159
2004	825,790	131,287	29,873,681	1,390,108	28,483,573
2005	843,203	134,056	42,603,658	1,337,869	41,265,789
2006	888,794	141,304	55,846,131	1,556,918	54,289,213
2007	872,541	138,720	60,517,382	1,310,452	59,206,930
2008	864,872	137,501	84,995,324	2,125,208	82,870,116
2009	835,085	132,765	50,735,145	1,218,139	49,517,006
2010	872,415	138,700	68,683,539	1,400,522	67,283,018
2011	927,044	147,385	100,116,991	1,544,820	98,572,171
2012	947,292	150,604	106,843,353	1,631,759	105,211,595
2013	915,075	145,482	99,072,428	1,462,899	97,609,528
2014	927,524	147,461	93,906,987	1,532,531	92,374,457
2015	1,026,107	163,135	54,679,322	1,790,586	52,888,736
2016	1,078,119	171,404	44,289,848	1,628,017	42,661,831
2017	1,118,167	177,771	59,660,483	1,616,572	58,043,911
2018	1,116,281	177,471	79,790,402	1,676,386	78,114,015
2019	1,071,923	170,419	70,222,972	1,962,470	68,260,502
2020	980,259	155,846	44,427,432	2,117,756	42,309,677
2021	960,147	152,648	67,690,685	1,609,966	66,080,720

1. 운송비와 보험료의 합
자료: 한국석유공사

2-3. Costs of Crude Oil Imports

수입단가 Import Unit Prices			수송비용비중 Weight of Transport	
합계 Total	수송비용 ¹ Transport ¹	본선인도가격 Free on Board(FOB)		
USD/bbl			%	
35.57	1.52	34.05	4.1	1981
34.05	1.24	32.81	3.6	1982
29.89	1.13	28.76	3.8	1983
29.06	1.10	27.96	3.7	1984
27.73	1.06	26.67	3.8	1985
15.11	0.79	14.32	6.2	1986
17.74	0.81	16.93	4.5	1987
14.71	0.82	13.89	5.6	1988
16.63	0.83	15.80	4.9	1989
20.95	0.96	19.99	4.6	1990
19.62	1.27	18.35	5.5	1991
18.55	0.75	17.80	4.1	1992
16.59	0.78	15.81	4.7	1993
15.55	0.71	14.84	4.6	1994
17.32	0.82	16.50	4.8	1995
20.11	0.95	19.16	4.7	1996
20.34	1.06	19.28	5.2	1997
13.72	0.98	12.74	7.1	1998
16.91	0.78	16.13	4.6	1999
28.22	1.18	27.04	4.2	2000
24.86	1.28	23.58	5.2	2001
24.24	0.90	23.34	3.7	2002
28.73	1.25	27.48	4.4	2003
36.18	1.69	34.49	4.7	2004
50.53	1.59	48.94	3.1	2005
62.83	1.75	61.08	2.8	2006
69.36	1.50	67.86	2.2	2007
98.28	2.46	95.82	2.5	2008
60.75	1.45	59.30	2.4	2009
78.73	1.61	77.12	2.0	2010
108.00	2.00	106.00	1.5	2011
112.79	1.79	111.00	1.5	2012
108.27	1.27	107.00	1.5	2013
101.24	1.65	99.59	1.6	2014
53.29	1.75	51.54	3.3	2015
41.08	1.51	39.57	3.7	2016
53.36	1.45	51.91	2.7	2017
71.48	1.50	69.98	2.1	2018
65.51	1.83	63.68	2.8	2019
45.32	2.16	43.16	4.8	2020
70.50	1.68	68.82	2.4	2021

1. Includes freight and insurance costs.
Source : Korea National Oil Corporation.

2-4. 국별 원유 수입 단가

단위: 배럴 당 달러

	평 균	중동	사우디아라비아	아랍에미레이트	이 란	쿠웨이트	오 만	카타르	이라크
	Average	Middle East	Saudi Arabia	U.A.E	Iran	Kuwait	Oman	Qatar	Iraq
1981	35.6	35.5	33.9	37.9	37.7	38.6	-	-	-
1982	34.1	33.7	34.3	32.5	30.8	34.2	-	-	-
1983	29.9	29.7	30.1	29.9	28.8	29.2	30.7	29.8	28.5
1984	29.1	28.9	29.4	29.9	27.6	28.6	29.8	30.1	-
1985	27.7	27.9	28.5	27.7	27.1	28.4	28.6	28.5	-
1986	15.1	14.5	14.8	14.8	13.7	14.3	15.9	12.8	12.1
1987	17.7	17.6	17.4	18.1	17.0	17.7	18.0	18.5	17.8
1988	14.7	14.5	14.7	14.6	14.3	14.4	14.6	15.9	13.7
1989	16.6	16.4	16.3	16.5	15.8	15.8	16.8	17.4	14.8
1990	21.0	20.8	23.8	20.8	21.0	16.3	21.2	20.6	15.3
1991	19.6	19.3	18.6	20.9	18.5	-	20.1	20.7	-
1992	18.5	18.2	17.8	19.5	17.2	17.5	19.0	20.2	-
1993	16.6	16.1	15.7	17.3	15.2	15.4	17.0	18.6	-
1994	15.5	15.3	15.1	16.0	14.7	14.4	15.7	17.6	-
1995	17.3	17.2	17.4	17.2	16.8	16.7	17.1	17.4	-
1996	20.1	19.9	20.0	20.0	19.0	19.3	20.2	20.8	-
1997	20.3	20.2	20.5	20.4	19.5	19.6	20.5	20.1	-
1998	13.7	13.6	13.8	14.0	13.4	12.6	13.5	14.0	13.2
1999	16.9	17.1	17.2	17.3	16.7	15.9	17.0	17.1	21.0
2000	28.2	28.0	28.1	28.8	26.9	27.5	26.9	28.9	28.5
2001	24.9	24.8	24.9	25.3	24.3	23.9	24.6	25.4	25.3
2002	24.2	24.2	24.3	24.8	23.7	23.5	23.9	24.6	23.2
2003	28.7	28.4	28.6	28.9	28.0	27.6	27.6	28.7	29.7
2004	36.2	35.5	35.8	36.8	34.3	33.9	34.4	36.1	35.8
2005	50.5	50.1	51.0	51.4	46.6	49.0	50.2	51.7	46.1
2006	62.8	62.5	62.9	64.5	60.6	60.4	61.6	64.0	60.3
2007	69.4	68.9	69.3	70.7	67.5	67.9	67.5	71.5	66.5
2008	98.3	98.2	98.6	102.8	95.4	93.3	98.4	97.8	100.6
2009	60.8	61.0	61.0	62.5	59.8	62.1	61.9	57.7	60.9
2010	78.7	78.6	79.0	79.7	77.3	78.1	78.6	78.8	77.5
2011	108.0	107.4	108.0	110.8	105.8	106.9	103.1	107.8	105.6
2012	112.8	112.3	112.6	115.1	113.6	111.5	110.6	111.8	110.0
2013	108.3	107.9	108.8	111.2	107.0	107.6	105.3	108.7	101.7
2014	101.2	101.0	101.0	104.8	100.3	98.8	103.2	103.6	96.4
2015	53.3	53.1	53.7	55.2	52.7	50.7	51.1	56.5	49.4
2016	41.1	40.8	41.5	43.7	40.7	40.0	39.1	43.9	36.7
2017	53.4	53.1	53.8	54.8	52.9	52.1	54.4	55.8	50.1
2018	71.5	71.0	71.8	74.2	66.0	70.1	67.2	74.7	68.8
2019	65.5	65.7	66.9	67.0	62.3	66.0	60.6	63.8	63.7
2020	45.3	44.1	44.2	47.9	-	41.9	51.2	42.8	44.3
2021	70.5	70.6	72.0	65.4	-	71.7	72.4	69.1	67.6

주: 운임 및 보험료 포함인도(CIF)가격

자료: 한국석유공사

2-4. Unit Prices of Crude Oil Imports by Country

Unit: US dollars per barrel

아시아					아프리카	아메리카	유럽	
Asia	인도네시아 Indonesia	말레이시아 Malaysia	호 주 Australia	브루나이 Brunei	Africa	America	Europe	
39.0	38.5	39.7	-	-	39.7	34.9	-	1981
36.0	36.5	35.0	-	34.9	36.0	33.8	-	1982
30.3	31.0	29.7	-	30.2	31.2	30.6	-	1983
29.4	29.3	29.3	30.5	29.7	29.6	29.2	-	1984
27.5	27.0	27.8	-	28.2	27.1	27.8	-	1985
15.0	14.9	15.1	13.3	15.1	18.3	16.7	-	1986
18.2	17.8	18.3	18.2	18.7	18.1	17.1	-	1987
15.4	15.7	15.5	15.7	15.7	14.8	14.5	-	1988
17.8	17.5	18.3	19.0	18.5	16.0	15.2	-	1989
22.5	23.4	22.1	19.2	24.0	18.3	17.7	-	1990
21.2	20.4	22.9	21.5	22.7	18.2	18.1	-	1991
20.1	19.5	21.3	-	21.5	17.8	18.1	-	1992
18.6	17.8	19.8	20.7	19.8	17.1	16.6	-	1993
16.6	16.0	17.7	17.0	17.8	15.9	15.8	-	1994
17.9	17.7	19.0	17.9	18.9	18.0	16.6	-	1995
21.4	21.1	22.9	22.6	22.8	20.7	19.5	-	1996
20.7	20.6	22.4	21.5	22.9	20.9	19.3	18.8	1997
14.0	13.9	14.9	14.4	15.0	14.8	12.9	13.7	1998
17.5	16.6	18.5	18.0	17.7	16.1	15.0	16.2	1999
29.7	28.9	30.4	29.9	30.0	29.2	25.5	28.6	2000
25.4	24.7	26.5	26.2	25.7	25.1	22.6	25.6	2001
24.9	24.1	25.6	25.0	24.4	24.2	22.2	25.7	2002
30.5	29.9	31.9	30.6	32.4	30.4	27.4	33.7	2003
40.0	38.3	42.5	41.3	44.3	37.4	32.9	-	2004
54.1	51.4	57.1	54.5	59.1	48.1	42.6	58.2	2005
64.9	61.0	71.1	64.0	70.4	65.0	54.9	-	2006
72.6	63.4	75.3	73.6	78.4	66.9	52.6	-	2007
98.6	95.2	109.9	94.4	107.3	98.2	-	-	2008
59.3	57.5	65.1	55.8	61.3	61.8	51.0	-	2009
79.7	80.2	81.1	78.4	81.0	73.9	76.2	-	2010
112.0	110.4	114.7	107.3	114.6	112.4	98.7	115.3	2011
114.4	114.5	117.0	110.2	120.2	119.7	98.9	117.1	2012
110.2	109.6	113.7	106.1	115.9	108.2	110.8	112.4	2013
102.0	99.1	103.2	97.9	107.5	101.8	94.3	107.4	2014
54.5	53.5	55.4	54.7	55.2	53.7	52.4	56.4	2015
44.5	41.3	49.0	43.1	41.9	44.5	37.3	41.4	2016
55.7	54.7	56.8	57.8	61.1	57.1	48.5	56.7	2017
73.8	73.9	74.8	75.5	72.2	74.1	70.3	75.0	2018
65.8	64.8	66.4	63.6	69.7	66.9	64.2	67.9	2019
46.7	40.8	45.8	40.4	58.8	52.2	48.8	42.4	2020
71.3	60.8	62.3	73.0	-	73.1	69.8	68.4	2021

Note: CIF(Cost, Insurance, and Freight) prices
Source: Korea National Oil Corporation

2-5. 원유 처리 현황 Refinery Runs

	수입량 Import Volume	처리량 Refinery Runs			정제능력 Refining Capacities	가동률 Operation Rate
		연 간 Annual	월평균 Monthly Average	일평균 Daily Average		
		1,000 bbl			1,000 BPSD	%
1981	182,814	178,322	14,860	489	790	61.90
1982	178,369	173,044	14,420	474	790	60.00
1983	192,969	190,643	15,887	522	790	66.08
1984	199,681	201,937	16,828	552	790	69.87
1985	198,313	201,131	16,761	551	790	69.75
1986	230,063	209,729	17,477	575	790	72.78
1987	216,163	210,914	17,576	578	790	73.16
1988	261,079	256,420	21,368	701	790	88.73
1989	296,411	296,722	24,727	813	840	96.79
1990	308,368	312,045	25,541	840	840	101.78
1991	399,303	398,030	26,004	1,090	1,035	105.36
1992	509,378	508,619	33,169	1,390	1,675	82.97
1993	560,563	558,537	42,385	1,530	1,675	91.36
1994	573,714	563,819	46,545	1,545	1,700	90.87
1995	624,945	631,266	46,985	1,729	1,818	95.13
1996	721,927	720,131	52,606	1,968	2,438	80.70
1997	873,415	871,986	60,011	2,389	2,438	97.99
1998	819,094	825,895	72,665	2,263	2,438	92.81
1999	874,090	873,299	68,825	2,393	2,438	98.14
2000	893,943	892,224	72,775	2,444	2,438	100.26
2001	859,367	860,166	74,352	2,357	2,438	96.66
2002	790,992	787,290	71,680	2,157	2,438	88.47
2003	804,809	783,518	65,607	2,147	2,438	88.05
2004	825,790	826,967	65,293	2,259	2,735	82.61
2005	843,203	852,544	68,914	2,336	2,735	85.40
2006	888,794	878,417	71,045	2,407	2,735	87.99
2007	872,541	882,409	73,201	2,418	2,765	87.43
2008	864,872	865,680	73,534	2,365	2,785	84.93
2009	835,085	838,419	72,140	2,297	2,835	81.02
2010	872,415	872,263	69,868	2,390	2,845	84.00
2011	927,044	924,447	72,689	2,533	2,934	86.32
2012	947,292	946,046	77,037	2,585	2,949	87.65
2013	915,075	909,539	78,837	2,492	2,949	84.50
2014	927,524	918,377	75,795	2,516	3,009	83.62
2015	1,026,107	1,014,957	76,531	2,781	3,059	90.90
2016	1,078,119	1,072,234	84,580	2,930	3,064	95.61
2017	1,118,167	1,116,614	89,353	3,059	3,105	98.53
2018	1,116,281	1,106,317	93,051	3,031	3,204	94.60
2019	1,071,923	1,064,217	92,193	2,916	3,204	91.00
2020	980,259	980,379	88,685	2,679	3,204	83.60
2021	960,147	961,384	81,698	2,686	3,204	82.21

자료: 한국석유공사

3. 석유정제 및 전환공정 투입

Petroleum Refining & Transformation Processes

	석유 정제 Petroleum Refining		발전 및 열생산 투입 ¹ Power Generation & Others		
	원유 및 정제원료 투입 Petroleum Refining Inputs	석유제품 정제생산 Petroleum Refining Production	발전전용 Electricity-only	열병합 CHP	열전용 Heat-only
	1,000 bbl				
1990	313,973	300,671	29,720	-	0
1991	398,877	403,172	41,461	-	1,509
1992	510,450	498,179	51,825	-	1,514
1993	564,548	532,859	48,725	-	2,027
1994	576,085	568,034	55,972	-	1,656
1995	649,293	630,447	62,201	-	2,059
1996	734,715	711,091	63,640	-	1,983
1997	877,440	877,979	56,960	-	2,328
1998	833,014	831,686	21,414	358	2,420
1999	879,466	882,503	23,277	462	3,091
2000	897,543	898,150	32,247	6,281	2,715
2001	869,395	875,425	35,154	6,375	3,191
2002	809,469	818,580	30,017	6,386	3,387
2003	794,658	797,438	30,515	6,110	3,840
2004	832,238	841,987	24,114	5,756	4,298
2005	860,864	886,181	21,710	4,013	4,062
2006	881,453	894,250	23,530	3,644	3,533
2007	882,291	890,883	25,439	2,737	3,213
2008	863,787	875,161	13,711	2,054	2,385
2009	835,024	846,060	19,584	2,229	2,306
2010	869,469	900,247	18,201	1,767	2,403
2011	926,980	944,587	13,728	707	1,709
2012	955,613	978,095	22,222	176	1,300
2013	922,923	967,180	22,726	235	1,274
2014	939,156	988,461	10,433	592	1,036
2015	1,029,608	1,072,558	12,079	773	767
2016	1,085,610	1,118,794	18,500	807	1,251
2017	1,153,915	1,185,996	7,042	1,019	1,184
2018	1,175,276	1,207,900	8,016	591	1,099
2019	1,159,008	1,196,345	5,287	397	1,711
2020	1,089,285	1,112,863	3,377	449	1,594
2021	1,089,068	1,113,422	3,811	377	1,773

1. 석유제품(프로판, 등유, B-C유 등)의 발전 및 열생산 투입량
자료: 한국석유공사

1. Power generation and heat production inputs of petroleum products
Source : Korea National Oil Corporation

4. 석유제품 수급

	공급 Supply					
	수입	수출	국제병커링	재고	일차에너지공급 ¹	정제생산
	Imports	Exports	International Bunkers	Stock	TPES ¹	Petroleum Refining Production
	1,000 bbl					
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

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

2. 가정, 상업, 공공부문 합계

자료: 한국석유공사-PEDSIS

4. Petroleum Products Overview

소비 Consumption						
발전 및 열생산 투입 Power Generatoin & Others	에너지산업 자체소비 Energy Industry Own Use	최종소비				
		TFC	산업 Industry	수송 Transport	건물 ² Building ²	
1,000 bbl						
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	40,956	752,269	462,169	245,380	44,720	2020
5,961	37,613	809,098	505,836	259,041	44,221	2021

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

2. Sum of residential, commercial and public sector

Source: Korea National Oil Corporation-PEDSIS

4-1. 석유제품 수입

	합계 Total	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
	1000배럴					
1990	101,248	22,127	4,998	-	6	17,465
1991	110,042	25,351	4,950	-	9	9,771
1992	137,011	30,933	8,698	-	-	8,986
1993	167,759	34,269	11,209	-	-	16,016
1994	190,790	37,950	10,645	-	-	17,087
1995	205,428	43,360	9,742	-	115	23,361
1996	215,124	44,097	11,052	-	4,408	27,679
1997	185,811	46,754	10,476	-	3,582	15,769
1998	175,895	39,662	9,482	215	1,210	5,103
1999	184,490	45,772	11,887	390	3,828	2,687
2000	204,301	40,209	15,554	740	1,696	6,870
2001	204,757	32,177	15,885	2,108	339	5,310
2002	228,543	37,844	18,371	4,032	2,781	6,917
2003	219,897	35,325	15,476	2,061	3,459	6,624
2004	195,110	32,701	15,183	1,218	215	1,710
2005	179,354	32,469	17,220	78	1	360
2006	191,560	32,062	21,941	-	3	259
2007	209,130	32,691	25,481	-	2	514
2008	224,614	31,074	31,967	-	251	379
2009	267,832	32,399	33,792	-	2	68
2010	276,849	35,221	34,408	-	6	331
2011	279,260	38,561	35,379	-	16	417
2012	309,599	36,916	33,030	84	18	151
2013	329,205	32,179	33,790	1,718	17	98
2014	326,623	32,266	31,267	-	6	133
2015	307,875	36,435	26,277	387	4	11
2016	334,608	56,437	26,834	1,391	7	18
2017	314,487	55,155	18,124	1,127	3	37
2018	341,628	59,549	19,776	174	3	1
2019	352,147	74,600	19,493	130	3	35
2020	347,302	80,930	20,235	0	5	80
2021	392,317	76,363	20,535	299	5	216

자료: 한국석유공사-PEDSIS

4-1. Petroleum Imports

경유 Diesel	중유 Fuel Oil	납사 Naphtha	용제 White spirit & SBP	윤활유 Lubricants	아스팔트 Bitumen	기타 Others	
1000배럴							
13,586	27,658	15,409	-	-	-	-	1990
10,803	34,209	24,862	-	-	86	-	1991
5,781	34,271	47,948	-	-	395	-	1992
11,226	32,624	62,414	-	-	-	-	1993
17,435	35,486	72,167	-	-	18	-	1994
32,190	24,824	71,837	-	-	-	-	1995
18,540	29,143	80,204	-	-	-	-	1996
3,134	26,757	79,326	-	14	-	-	1997
2,198	12,926	105,100	-	-	-	-	1998
2,311	16,497	101,119	-	-	-	-	1999
2,818	25,107	111,283	-	-	24	-	2000
6,681	22,318	119,738	-	-	201	-	2001
12,928	23,700	121,912	-	-	57	-	2002
11,141	13,829	131,981	-	-	-	-	2003
4,290	8,285	131,368	-	-	140	-	2004
1,912	4,021	123,292	-	-	-	-	2005
1,582	8,749	126,964	-	-	-	-	2006
765	5,910	143,766	-	-	-	-	2007
369	7,192	153,381	-	-	-	-	2008
836	19,858	180,840	-	38	-	-	2009
758	17,478	188,600	-	47	-	-	2010
950	15,392	188,507	-	38	-	-	2011
4,783	27,146	207,444	-	26	-	-	2012
8,597	44,281	208,297	16	-	-	213	2013
5,152	52,006	205,726	23	43	-	-	2014
267	46,737	197,617	6	104	31	-	2015
198	47,228	202,224	8	24	-	240	2016
236	40,091	199,632	4	-	-	78	2017
237	42,915	218,814	9	11	65	74	2018
138	31,585	226,088	3	35	-	37	2019
19	29,626	215,927	8	41	430	-	2020
0	37,239	253,313	2	993	3,353	-	2021

Source: Korea National Oil Corporation-PEDSIS

4-2. 석유제품 수출

	합계 Total	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
	1000배럴					
1990	27,184	593	505	30	-	97
1991	69,744	656	687	992	3,131	-
1992	91,653	218	437	119	7,543	3
1993	103,493	525	811	520	5,576	5
1994	93,132	596	742	568	6,168	465
1995	122,630	1,766	1,145	442	13,435	564
1996	158,329	2,060	1,451	2,546	19,670	2,913
1997	231,050	2,991	1,566	10,169	19,942	10,250
1998	296,682	6,913	3,571	15,611	42,764	6,949
1999	297,899	8,708	4,941	11,274	34,333	14,986
2000	303,723	5,287	2,844	14,869	37,675	19,874
2001	292,469	2,384	2,436	16,166	39,500	18,006
2002	235,567	1,589	1,293	15,525	42,006	10,205
2003	203,343	1,740	1,154	13,538	27,658	13,144
2004	227,306	510	454	18,323	45,508	7,693
2005	262,647	295	419	14,515	54,533	4,455
2006	278,632	393	369	19,927	62,399	4,763
2007	279,659	329	204	15,336	72,350	1,250
2008	317,870	258	115	30,911	76,869	2,396
2009	312,654	125	1	40,187	69,819	5,425
2010	340,597	910	1	39,338	71,449	6,462
2011	394,944	742	163	53,519	81,239	8,960
2012	425,574	1,563	222	63,492	91,539	7,582
2013	429,291	821	36	64,013	89,534	6,685
2014	448,822	1,049	299	73,327	93,840	4,438
2015	477,425	804	439	79,293	107,272	3,769
2016	487,716	1,450	417	76,258	111,378	2,065
2017	509,113	1,930	483	82,217	121,203	5,266
2018	531,563	3,898	1,044	87,895	115,417	6,530
2019	522,099	5,126	681	87,872	114,850	4,171
2020	468,529	5,826	218	74,147	82,248	6,397
2021	446,559	2,850	406	98,370	65,465	7,878

자료: 한국석유공사-PEDSIS

4-2. Petroleum Exports

경유 Diesel	중유 Fuel Oil	납사 Naphtha	용제 White spirit & SBP	윤활유 Lubricants	아스팔트 Bitumen	기타 Others	
1000배럴							
10,453	12,091	3,325	61	-	29	-	1990
20,661	37,925	5,625	46	-	21	-	1991
27,124	50,708	5,430	52	-	19	-	1992
35,709	49,693	10,328	15	-	310	-	1993
34,310	40,082	9,148	8	-	1,045	-	1994
42,443	40,238	21,337	-	-	1,260	-	1995
54,208	43,075	30,771	-	-	1,635	-	1996
93,711	50,242	36,942	-	715	3,318	1,204	1997
109,238	60,240	44,848	17	1,331	2,860	2,339	1998
88,353	82,375	46,218	28	1,511	2,915	2,258	1999
96,675	72,157	48,849	-	8	3,184	2,301	2000
90,440	67,011	51,228	-	-	3,366	1,931	2001
76,235	35,025	44,943	-	-	7,060	1,684	2002
60,817	45,835	30,970	-	0	6,695	1,791	2003
68,038	45,539	31,157	-	30	7,725	2,328	2004
85,890	56,065	25,793	0	9,377	9,181	2,122	2005
91,520	58,266	27,991	-	-	10,250	2,752	2006
102,974	42,699	29,423	-	-	13,009	2,086	2007
130,936	35,352	22,915	-	-	15,651	2,468	2008
125,474	25,814	26,569	-	8	15,854	3,379	2009
130,761	25,884	32,111	11,805	-	18,531	3,346	2010
159,181	34,486	35,386	-	217	14,297	6,754	2011
176,464	28,428	33,287	-	419	14,171	8,406	2012
163,759	22,434	39,552	952	14,493	18,113	8,898	2013
174,142	13,810	35,363	1,177	17,877	22,972	10,528	2014
171,999	10,965	47,839	1,206	16,087	26,887	10,864	2015
175,032	13,512	49,763	1,170	15,232	28,478	12,961	2016
176,154	16,657	44,194	1,758	16,886	29,689	12,675	2017
190,712	26,345	43,564	1,412	18,664	24,008	12,074	2018
195,231	17,490	47,382	1,260	15,915	20,808	11,311	2019
200,099	13,262	36,680	2,018	17,421	19,785	10,429	2020
180,871	8,829	31,203	1,383	23,321	14,978	11,007	2021

Source: Korea National Oil Corporation-PEDSIS

4-3. 석유제품 정제생산

	합계 Total	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
	1000배럴					
1990	300,671	3,345	8,812	23,985	16,405	13,600
1991	403,172	4,314	9,673	29,874	18,696	13,771
1992	498,179	5,653	9,816	35,422	21,034	29,186
1993	532,859	4,880	9,523	44,737	20,230	31,874
1994	568,034	2,788	8,066	49,521	26,196	30,926
1995	630,447	4,506	11,510	60,445	34,981	40,852
1996	711,091	5,715	10,954	71,083	38,862	51,235
1997	877,979	6,725	13,936	82,300	42,399	76,329
1998	831,686	8,429	18,670	76,111	63,826	65,574
1999	882,503	9,377	21,651	75,207	53,036	90,380
2000	898,150	10,905	25,044	76,336	59,568	87,824
2001	875,425	10,407	28,928	76,502	65,251	75,525
2002	818,580	9,626	30,835	76,744	67,734	62,721
2003	797,438	10,526	29,794	71,385	55,020	64,500
2004	841,987	11,033	30,194	74,969	76,644	50,535
2005	886,181	11,182	28,887	73,877	84,904	45,271
2006	894,250	11,209	26,973	80,616	95,490	41,220
2007	890,883	10,227	26,000	78,375	105,699	30,021
2008	875,161	12,968	23,218	93,710	107,675	31,846
2009	846,060	15,274	21,128	106,615	102,664	33,348
2010	900,247	17,149	18,282	108,921	105,458	39,176
2011	944,587	10,992	14,207	122,473	118,137	35,813
2012	978,095	12,544	13,798	136,490	130,697	32,625
2013	967,180	11,373	14,405	134,758	129,990	28,204
2014	988,461	11,467	17,560	145,127	135,208	23,097
2015	1,072,558	11,052	19,424	156,999	151,720	24,958
2016	1,118,794	8,127	18,142	154,036	160,738	25,688
2017	1,185,996	10,509	23,422	160,624	174,006	25,606
2018	1,207,900	9,127	24,200	169,511	170,998	26,829
2019	1,196,345	6,833	22,216	170,280	170,766	21,485
2020	1,112,863	4,713	19,105	151,393	112,582	44,372
2021	1,113,422	6,706	17,735	178,751	97,182	53,657

자료: 한국석유공사-PEDSIS

4-3. Petroleum Refining Production

경유 Diesel	중유 Fuel Oil	납사 Naphtha	용제 White spirit & SBP	윤활유 Lubricants	아스팔트 Bitumen	기타 Others	
1000배럴							
95,010	102,705	31,151	531	-	5,128	-	1990
127,080	147,943	44,544	404	-	6,873	0	1991
153,717	178,972	54,253	452	-	9,675	0	1992
168,233	188,587	54,775	429	-	9,592	-	1993
166,155	190,927	82,313	695	-	10,447	-	1994
181,389	208,597	76,620	736	-	10,809	-0	1995
215,452	214,255	90,630	671	-	12,233	-	1996
264,509	238,153	112,554	797	4,444	15,042	20,790	1997
232,804	207,207	119,287	622	4,287	12,819	22,050	1998
219,311	240,188	133,315	780	4,472	13,181	21,604	1999
228,204	230,510	142,054	-	765	13,582	23,359	2000
218,943	225,792	135,983	-	891	14,412	22,792	2001
205,437	189,808	133,103	-	1,393	18,208	22,971	2002
200,644	204,384	116,501	-	2,666	17,334	24,684	2003
215,217	202,451	131,886	-	3,998	19,161	25,898	2004
229,813	211,249	138,131	4,458	14,163	19,856	24,390	2005
236,329	207,786	142,343	-	5,120	21,079	26,086	2006
250,438	185,083	149,630	-	4,890	24,373	26,147	2007
267,800	151,959	124,344	-	3,930	26,000	31,711	2008
258,387	126,246	116,317	-	5,110	28,008	32,963	2009
267,196	125,491	133,950	16,130	5,068	29,284	34,144	2010
292,885	124,722	149,304	-	3,962	24,179	47,914	2011
309,772	102,477	157,199	-	4,100	24,869	53,524	2012
299,242	81,718	160,125	3,846	18,287	28,915	56,316	2013
315,056	55,781	166,557	3,430	21,576	32,146	61,455	2014
334,360	59,004	195,261	3,067	20,099	37,173	59,439	2015
339,998	72,756	213,617	3,187	19,504	40,508	62,491	2016
347,167	70,065	249,148	4,551	22,171	41,476	57,250	2017
360,752	70,667	248,724	4,225	23,748	35,908	63,211	2018
367,540	59,492	254,353	4,374	20,874	31,219	66,914	2019
351,861	77,276	224,925	6,429	22,789	25,945	71,474	2020
337,745	77,512	214,883	4,169	32,443	16,159	76,478	2021

Source: Korea National Oil Corporation-PEDSIS

4-4. 소비

	합계 Total	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
	1000배럴					
1990	298,791	21,168	12,103	23,672	6,725	23,684
1991	349,916	24,762	13,570	28,706	5,937	25,465
1992	420,540	28,563	18,458	35,235	2,941	34,077
1993	471,282	30,469	19,680	42,493	2,738	43,130
1994	533,451	31,632	21,118	51,088	2,759	47,741
1995	558,685	33,457	19,903	59,382	2,961	62,522
1996	593,951	35,583	20,671	67,971	3,355	73,508
1997	641,542	39,874	21,999	71,355	3,031	83,125
1998	565,805	37,503	24,211	61,089	2,974	60,349
1999	615,237	41,636	29,390	63,879	3,128	75,803
2000	630,544	42,830	37,340	62,382	2,628	68,918
2001	625,752	38,619	42,545	62,704	4,168	61,801
2002	646,205	41,908	45,933	64,076	3,482	58,919
2003	648,500	38,728	47,295	60,477	4,895	52,740
2004	642,486	35,816	49,705	58,148	4,753	43,872
2005	640,864	36,078	50,910	60,391	4,797	36,529
2006	650,245	36,458	53,596	59,871	10,686	31,839
2007	664,737	36,800	56,736	62,498	3,700	26,601
2008	641,487	34,735	62,042	62,933	5,229	27,935
2009	660,470	38,485	62,346	65,866	6,120	26,096
2010	681,595	39,130	58,276	68,926	6,188	29,541
2011	685,590	36,552	54,808	69,571	7,401	25,974
2012	699,879	33,644	52,615	71,762	9,623	22,563
2013	703,082	34,334	54,231	73,407	8,735	19,238
2014	709,141	33,493	52,430	73,471	11,356	15,956
2015	734,541	38,726	47,228	76,566	13,057	16,861
2016	782,758	54,486	47,257	78,926	12,673	19,245
2017	801,275	54,611	43,376	79,616	13,370	18,729
2018	788,210	55,972	44,472	79,683	13,724	18,511
2019	796,132	67,840	43,096	82,750	13,120	16,668
2020	752,269	70,644	38,456	80,965	7,793	16,831
2021	809,098	72,524	36,709	84,873	15,531	16,490

주: 최종소비
자료: 한국석유공사-PEDSIS

4-4. Petroleum Consumption

경유 Diesel	중유 Fuel Oil	납사 Naphtha	용제 White spirit & SBP	윤활유 Lubricants	아스팔트 Bitumen	기타 Others	
1000배럴							
94,104	68,700	43,065	458	-	5,113	0	1990
110,620	76,612	56,867	362	-	7,015	0	1991
121,487	83,929	85,528	349	-	9,972	0	1992
134,127	91,499	97,692	-	-	9,453	0	1993
142,732	98,315	127,970	680	-	9,416	-	1994
155,423	95,006	119,775	733	-	9,524	0	1995
159,719	92,980	128,775	664	-	10,726	-	1996
156,016	93,040	152,960	785	3,740	11,958	3,659	1997
115,876	67,156	179,074	578	2,821	9,851	4,323	1998
122,006	72,416	189,101	735	3,168	10,296	3,679	1999
126,367	68,295	202,634	736	3,795	10,289	4,330	2000
129,549	64,461	201,551	794	3,570	11,033	4,958	2001
135,322	64,362	210,762	1,271	3,827	10,350	5,992	2002
141,240	60,260	218,881	2,703	4,079	10,550	6,651	2003
141,733	54,912	226,789	3,894	4,333	11,668	6,862	2004
139,787	51,519	234,409	4,301	5,098	10,751	6,295	2005
140,326	47,737	243,267	4,752	3,681	10,813	7,220	2006
142,400	44,432	266,283	3,879	3,693	10,889	6,826	2007
131,296	37,503	254,818	3,329	4,504	9,927	7,235	2008
128,902	33,045	272,112	3,199	4,900	12,484	6,916	2009
130,479	30,579	289,885	4,297	5,238	11,115	7,941	2010
129,839	25,820	303,306	2,877	3,409	10,413	15,620	2011
131,917	19,235	328,403	1,268	3,452	10,152	15,244	2012
138,477	13,328	327,806	731	3,388	10,677	18,730	2013
140,824	11,541	335,886	1,001	3,636	9,293	20,254	2014
151,750	12,817	346,401	1,388	3,945	10,195	15,609	2015
161,183	12,667	362,868	1,633	4,000	11,461	16,360	2016
163,026	11,059	384,242	1,742	4,893	11,637	14,974	2017
160,316	9,987	372,559	1,614	4,675	10,658	16,040	2018
163,781	8,402	365,443	1,728	4,764	10,540	18,001	2019
155,042	6,833	333,938	2,154	4,593	10,054	24,967	2020
156,318	6,405	369,918	1,585	8,030	9,450	31,266	2021

Note: Total final consumption
Source: Korea National Oil Corporation-PEDSIS

4-4-1. 프로판 Propane

단위: 천 배럴

	공급 Supply					소비 Consumption					
	수입	수출	재고	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
	Imports	Exports	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 ¹ Building ¹
1990	22,127	593	1,799	20,495	3,345	-	2,704	21,168	1,326	153	19,690
1991	25,351	656	1,151	25,343	4,314	1	4,765	24,762	2,189	92	22,481
1992	30,933	218	1,829	30,036	5,653	4	6,599	28,563	3,500	107	24,955
1993	34,269	525	998	34,575	4,880	-	8,898	30,469	3,466	55	26,948
1994	37,950	596	752	37,600	2,788	-	10,281	31,632	5,139	118	26,375
1995	43,360	1,766	454	41,891	4,506	-	12,773	33,457	6,001	145	27,311
1996	44,097	2,060	472	42,007	5,715	-	11,937	35,583	6,557	51	28,975
1997	46,754	2,991	2,932	41,277	6,725	-	7,981	39,874	10,909	102	28,863
1998	39,662	6,913	2,219	33,465	8,429	0	4,291	37,503	11,733	196	25,573
1999	45,772	8,708	2,242	37,027	9,377	3	4,606	41,636	13,708	177	27,752
2000	40,209	5,287	1,889	35,276	10,905	-	3,254	42,830	12,918	76	29,835
2001	32,177	2,384	1,377	30,306	10,407	-	238	38,619	9,486	31	29,102
2002	37,844	1,589	2,525	35,103	9,626	1	192	41,908	12,056	105	29,747
2003	35,325	1,740	3,278	32,829	10,526	1	163	38,728	11,006	97	27,625
2004	32,701	510	3,929	31,538	11,033	0	158	35,816	11,176	87	24,553
2005	32,469	295	3,117	32,936	11,182	4	501	36,078	13,358	6	22,714
2006	32,062	393	3,241	31,545	11,209	4	387	36,458	13,986	6	22,466
2007	32,691	329	1,910	33,796	10,227	2	719	36,800	14,657	6	22,137
2008	31,074	258	1,522	31,205	12,968	2	568	34,735	15,220	25	19,490
2009	32,399	125	1,334	32,462	15,274	9	842	38,485	18,730	10	19,745
2010	35,221	910	1,401	34,244	17,149	2	856	39,130	19,893	12	19,225
2011	38,561	742	1,662	37,563	10,992	1	738	36,552	18,239	12	18,301
2012	36,916	1,563	1,425	35,589	12,544	1	1,152	33,644	16,490	15	17,140
2013	32,179	821	980	31,803	11,373	1	958	34,334	17,055	28	17,250
2014	32,266	1,049	2,847	29,351	11,467	1	616	33,493	17,725	16	15,752
2015	36,435	804	2,131	36,347	11,052	1	1,571	38,726	21,924	28	16,774
2016	56,437	1,450	2,177	54,940	8,127	1	1,727	54,486	36,516	31	17,939
2017	55,155	1,930	2,378	53,024	10,509	405	1,679	54,611	37,457	16	17,137
2018	59,549	3,898	3,195	54,835	9,127	258	987	55,972	38,410	16	17,546
2019	74,600	5,126	2,610	70,059	6,833	943	1,915	67,840	50,037	17	17,786
2020	80,930	5,826	3,234	74,481	4,713	829	1,786	70,644	52,893	17	17,734
2021	76,363	2,850	2,678	74,071	6,706	1,245	652	72,524	54,359	17	18,148

1. 가정, 상업, 공공부문 합계
자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector
Source: Korea National Oil Corporation-PEDSIS

4-4-2. 부탄 Butane

Unit: Thousand barrels

	공급 Supply					소비 Consumption					
	수입	수출	재고	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
									산업	수송	건물 ¹
	Imports	Exports	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	Industry	Transport	Building ¹
1990	4,998	505	629	4,192	8,812	-	975	12,103	929	11,121	53
1991	4,950	687	544	4,348	9,673	-	413	13,570	1,886	11,627	58
1992	8,698	437	758	8,044	9,816	-	23	18,458	5,708	12,724	27
1993	11,209	811	1,250	9,906	9,523	-	0	19,680	5,667	13,954	59
1994	10,645	742	331	10,823	8,066	-	43	21,118	5,798	15,232	88
1995	9,742	1,145	456	8,472	11,510	-	68	19,903	3,690	16,144	68
1996	11,052	1,451	370	9,687	10,954	-	5	20,671	3,492	17,102	77
1997	10,476	1,566	1,252	8,004	13,936	-	8	21,999	2,974	18,242	783
1998	9,482	3,571	1,671	5,493	18,670	-	3	24,211	4,837	19,097	277
1999	11,887	4,941	843	7,774	21,651	0	21	29,390	5,118	23,792	480
2000	15,554	2,844	1,188	12,366	25,044	-	55	37,340	5,117	31,770	453
2001	15,885	2,436	1,147	13,490	28,928	-	60	42,545	5,849	36,356	340
2002	18,371	1,293	2,265	15,956	30,835	-	32	45,933	6,273	38,890	770
2003	15,476	1,154	2,113	14,474	29,794	-	33	47,295	5,854	40,620	822
2004	15,183	454	2,404	14,439	30,194	-	22	49,705	6,798	42,024	883
2005	17,220	419	1,961	17,244	28,887	0	37	50,910	6,093	43,119	1,697
2006	21,941	369	1,606	21,926	26,973	0	4	53,596	7,490	44,660	1,446
2007	25,481	204	1,141	25,742	26,000	0	8	56,736	7,900	47,498	1,339
2008	31,967	115	1,072	31,922	23,218	0	53	62,042	13,267	47,638	1,137
2009	33,792	1	897	33,966	21,128	-	6	62,346	12,406	48,947	993
2010	34,408	1	1,184	34,121	18,282	-	4	58,276	8,900	48,599	778
2011	35,379	163	1,439	34,960	14,207	-	3	54,808	7,342	46,223	1,243
2012	33,030	222	1,300	32,948	13,798	3	10	52,615	6,441	44,640	1,534
2013	33,790	36	931	34,123	14,405	10	39	54,231	9,151	43,634	1,446
2014	31,267	299	1,473	30,424	17,560	3	456	52,430	9,823	40,888	1,719
2015	26,277	439	1,523	25,788	19,424	7	100	47,228	5,134	40,420	1,673
2016	26,834	417	1,065	26,875	18,142	7	92	47,257	7,353	38,618	1,285
2017	18,124	483	1,583	17,123	23,422	6	106	43,376	5,479	36,157	1,741
2018	19,776	1,044	1,669	18,645	24,200	6	85	44,472	9,270	33,709	1,492
2019	19,493	681	1,149	19,332	22,216	6	81	43,096	8,821	33,198	1,078
2020	20,235	218	1,384	19,781	19,105	5	72	38,456	8,630	28,890	936
2021	20,535	406	1,225	20,289	17,735	5	67	36,709	7,908	27,902	899

1. 가정, 상업, 공공부문 합계
자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector
Source: Korea National Oil Corporation-PEDSIS

4-4-3. 휘발유 Gasoline

단위: 천 배럴

	공급 Supply					소비 Consumption					
	수입	수출	재고	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
									산업	수송	건물 ¹
	Imports	Exports	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	Industry	Transport	Building ¹
1990	-	30	1,133	-284	23,985	1.2	9.4	23,672	522	22,233	917
1991	-	992	1,250	-1,109	29,874	2.0	11.9	28,706	669	26,926	1,111
1992	-	119	1,259	-129	35,422	1.0	21.2	35,235	881	33,434	919
1993	-	520	2,853	-2,114	44,737	0.5	9.9	42,493	1,106	40,377	1,010
1994	-	568	1,867	418	49,521	0.3	8.8	51,088	1,378	48,893	817
1995	-	442	2,165	-740	60,445	0.1	6.8	59,382	1,416	57,043	923
1996	-	2,546	2,425	-2,805	71,083	0.0	7.0	67,971	1,610	65,661	700
1997	-	10,169	3,139	-10,885	82,300	0.7	6.6	71,355	1,931	68,767	657
1998	215	15,611	2,860	-15,117	76,111	-	5.3	61,089	2,457	57,729	903
1999	390	11,274	3,144	-11,168	75,207	-	5.1	63,879	2,189	61,155	534
2000	740	14,869	3,702	-14,687	76,336	-	3.4	62,382	2,184	59,744	454
2001	2,108	16,166	3,483	-13,842	76,502	0.1	3.2	62,704	2,669	59,474	562
2002	4,032	15,525	3,409	-11,421	76,744	0.9	3.4	64,076	3,093	60,333	650
2003	2,061	13,538	3,323	-11,397	71,385	0.8	23.3	60,477	2,014	57,843	621
2004	1,218	18,323	3,237	-17,020	74,969	2.2	5.4	58,148	2,025	55,587	535
2005	78	14,515	3,146	-14,345	73,877	2.1	4.4	60,391	2,089	57,732	570
2006	-	19,927	3,223	-20,005	80,616	3.5	4.3	59,871	1,893	57,399	579
2007	-	15,336	3,344	-15,458	78,375	2.6	4.9	62,498	1,611	60,432	455
2008	-	30,911	2,650	-30,217	93,710	4.7	4.1	62,933	1,558	60,897	478
2009	-	40,187	3,203	-40,740	106,615	6.0	4.0	65,866	1,566	63,729	571
2010	-	39,338	3,842	-39,977	108,921	4.7	4.1	68,926	1,508	66,815	603
2011	-	53,519	3,201	-52,878	122,473	2.7	3.9	69,571	1,555	67,448	568
2012	84	63,492	5,099	-65,306	136,490	2.7	3.5	71,762	1,503	69,624	635
2013	1,718	64,013	5,061	-62,258	134,758	2.5	10.2	73,407	1,547	71,162	698
2014	-	73,327	4,446	-72,712	145,127	1.4	3.4	73,471	1,461	71,186	825
2015	387	79,293	5,104	-79,565	156,999	4.0	3.2	76,566	1,430	74,265	871
2016	1,391	76,258	5,697	-75,460	154,036	0.2	3.0	78,926	1,348	76,897	680
2017	1,127	82,217	5,676	-81,069	160,624	0.0	3.0	79,616	1,500	77,518	598
2018	174	87,895	7,179	-89,223	169,511	0.0	3.1	79,683	1,388	77,710	584
2019	130	87,872	6,134	-86,697	170,280	0.1	2.3	82,750	1,353	80,942	455
2020	0	74,147	4,906	-72,918	151,393	0.4	1.6	80,965	1,298	79,388	278
2021	299	98,370	5,445	-98,611	178,751	0.3	1.6	84,873	1,189	83,389	295

1. 가정, 상업, 공공부문 합계
 자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector
 Source: Korea National Oil Corporation-PEDSIS

4-4-4. 항공유 Air Fuel

Unit: Thousand barrels

	공급 Supply						소비 Consumption					
	수입	수출	국제항공 병커링	재고	일차 에너지공급	정제 생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
	Imports	Exports	International Aviation Bunkers	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업	수송	건물 ¹
										Industry	Transport	Building ¹
1990	6	-	10,103	1,003	-10,442	16,405	-	0	6,725	-	16	6,709
1991	9	3,131	11,010	1,152	-14,281	18,696	-	0	5,937	-	17	5,921
1992	-	7,543	13,173	772	-20,336	21,034	-	0	2,941	-	15	2,927
1993	-	5,576	14,545	533	-19,882	20,230	-	1	2,738	-	31	2,708
1994	-	6,168	16,334	1,134	-23,103	26,196	-	1	2,759	1	35	2,724
1995	115	13,435	18,476	1,150	-31,812	34,981	-	0	2,961	4	33	2,924
1996	4,408	19,670	20,191	1,046	-35,348	38,862	-	0	3,355	2	26	3,327
1997	3,582	19,942	21,990	1,498	-38,808	42,399	-	1	3,031	1	43	2,988
1998	1,210	42,764	18,197	1,786	-60,040	63,826	0	1	2,974	2	67	2,906
1999	3,828	34,333	18,829	1,479	-49,028	53,036	-	1	3,128	3	56	3,069
2000	1,696	37,675	19,875	2,380	-56,756	59,568	-	4	2,628	2	62	2,563
2001	339	39,500	20,828	3,186	-60,795	65,251	-	2	4,168	11	63	4,094
2002	2,781	42,006	23,525	2,330	-61,894	67,734	-	0	3,482	13	65	3,404
2003	3,459	27,658	24,725	2,513	-49,107	55,020	-	0	4,895	15	68	4,812
2004	215	45,508	26,349	3,352	-72,481	76,644	-	0	4,753	18	85	4,651
2005	1	54,533	27,171	1,671	-80,021	84,904	-	0	4,797	14	93	4,689
2006	3	62,399	22,236	2,226	-85,188	95,490	-	0	10,686	14	7,297	3,375
2007	2	72,350	30,942	3,249	-104,312	105,699	-	0	3,700	1	479	3,221
2008	251	76,869	28,230	2,195	-103,793	107,675	-	-	5,229	1	2,223	3,006
2009	2	69,819	26,889	1,994	-96,504	102,664	-	-	6,120	0	2,672	3,448
2010	6	71,449	29,935	2,256	-101,641	105,458	-	-	6,188	0	2,715	3,473
2011	16	81,239	30,191	2,650	-111,808	118,137	-	-	7,401	0	3,748	3,653
2012	18	91,539	30,208	3,212	-122,291	130,697	-	-	9,623	0	6,167	3,455
2013	17	89,534	31,895	3,939	-122,139	129,990	-	-	8,735	3	5,248	3,484
2014	6	93,840	31,973	2,998	-124,867	135,208	-	0	11,356	0	7,855	3,501
2015	4	107,272	32,882	2,661	-139,813	151,720	-	-	13,057	9	9,371	3,677
2016	7	111,378	36,733	4,632	-149,268	160,738	-	-	12,673	5	9,180	3,488
2017	3	121,203	37,604	5,870	-160,042	174,006	-	-	13,370	2	9,793	3,575
2018	3	115,417	39,620	6,680	-155,845	170,998	-	-	13,724	2	10,033	3,689
2019	3	114,850	40,375	6,572	-155,114	170,766	-	-	13,120	3	9,833	3,284
2020	5	82,248	25,204	4,968	-105,842	112,582	-	-	7,793	2	4,484	3,307
2021	5	65,465	19,801	3,818	-84,111	97,182	-	-	15,531	5	12,075	3,451

1. 가정, 상업, 공공부문 합계

주: 항공취발유, 취발유형항공유, 등유형항공유의 합계

자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector

Note: Sum of Aviation gasoline, gasoline type jet fuel and kerosene type jet fuel

Source: Korea National Oil Corporation-PEDSIS

4-4-5. 등유 Kerosene

단위: 천 배럴

	공급 Supply					소비 Consumption						
	수입	수출	재고	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비				
									산업	수송	건물 ¹	
	Imports	Exports	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	Industry	Transport	Building ¹	
1990	17,465	97	6,233	12,452	13,600	3	54	23,684	4,724	156	18,804	
1991	9,771	-	1,944	14,060	13,771	3	4	25,465	4,663	152	20,650	
1992	8,986	3	3,277	7,648	29,186	5	9	34,077	4,945	240	28,893	
1993	16,016	5	5,003	14,285	31,874	1	8	43,130	5,313	253	37,564	
1994	17,087	465	5,954	15,670	30,926	7	5	47,741	5,479	219	42,044	
1995	23,361	564	6,294	22,457	40,852	2	6	62,522	7,141	228	55,152	
1996	27,679	2,913	8,025	23,030	51,235	22	10	73,508	7,375	292	65,841	
1997	15,769	10,250	6,275	7,265	76,329	20	5	83,125	12,209	279	70,637	
1998	5,103	6,949	7,751	-3,337	65,574	68	105	60,349	10,675	336	49,338	
1999	2,687	14,986	7,933	-12,481	90,380	1,112	167	75,803	8,538	151	67,113	
2000	6,870	19,874	10,768	-15,836	87,824	955	158	68,918	8,237	57	60,624	
2001	5,310	18,006	8,670	-10,603	75,525	505	360	61,801	6,801	101	54,899	
2002	6,917	10,205	4,919	455	62,721	1,064	264	58,919	7,279	203	51,437	
2003	6,624	13,144	6,149	-7,755	64,500	1,760	308	52,740	6,551	183	46,007	
2004	1,710	7,693	4,448	-4,286	50,535	836	62	43,872	6,165	107	37,601	
2005	360	4,455	2,827	-2,474	45,271	748	36	36,529	6,062	83	30,384	
2006	259	4,763	4,733	-6,410	41,220	1,082	28	31,839	5,536	75	26,228	
2007	514	1,250	3,631	367	30,021	808	258	26,601	5,012	55	21,534	
2008	379	2,396	2,410	-796	31,846	662	628	27,935	4,785	60	23,090	
2009	68	5,425	2,308	-5,256	33,348	795	43	26,096	4,592	61	21,444	
2010	331	6,462	3,011	-6,834	39,176	854	22	29,541	5,456	88	23,996	
2011	417	8,960	2,462	-7,994	35,813	542	19	25,974	4,777	96	21,101	
2012	151	7,582	2,084	-7,054	32,625	483	15	22,563	4,117	162	18,284	
2013	98	6,685	2,387	-6,890	28,204	685	12	19,238	3,619	58	15,562	
2014	133	4,438	1,826	-3,750	23,097	707	100	15,956	1,904	31	14,021	
2015	11	3,769	2,357	-4,298	24,958	888	20	16,861	1,399	57	15,405	
2016	18	2,065	2,276	-1,972	25,688	1,382	11	19,245	1,491	18	17,737	
2017	37	5,266	1,830	-4,783	25,606	1,211	20	18,729	1,248	19	17,462	
2018	1	6,530	2,318	-7,018	26,829	1,254	10	18,511	1,277	32	17,202	
2019	35	4,171	2,553	-4,371	21,485	1,330	10	16,668	1,521	44	15,102	
2020	80	6,397	1,591	-5,355	44,372	1,105	4	16,831	2,256	50	14,525	
2021	216	7,878	1,975	-8,046	53,657	1,191	4	16,490	2,280	38	14,171	

1. 가정, 상업, 공공부문 합계
자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector
Source: Korea National Oil Corporation-PEDSIS

4-4-6. 경유 Diesel

Unit: Thousand barrels

	공급 Supply					소비 Consumption					
	수입	수출	재고	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
									산업	수송	건물 ¹
	Imports	Exports	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	Industry	Transport	Building ¹
1990	13,586	10,453	3,315	1,351	95,010	1,755	315	94,104	21,538	52,237	20,328
1991	10,803	20,661	4,780	-15,565	127,080	2,027	186	110,620	23,669	58,348	28,603
1992	5,781	27,124	6,763	-28,461	153,717	4,022	203	121,487	24,682	63,645	33,160
1993	11,226	35,709	8,005	-29,997	168,233	2,123	174	134,127	25,679	69,603	38,845
1994	17,435	34,310	8,567	-23,461	166,155	2,886	139	142,732	27,880	75,112	39,740
1995	32,190	42,443	11,115	-20,066	181,389	6,096	125	155,423	29,292	84,840	41,291
1996	18,540	54,208	11,791	-45,215	215,452	10,352	142	159,719	31,020	90,471	38,229
1997	3,134	93,711	12,257	-100,279	264,509	8,679	323	156,016	31,794	88,402	35,820
1998	2,198	109,238	10,262	-115,612	232,804	1,868	85	115,876	23,498	68,956	23,422
1999	2,311	88,353	9,648	-96,305	219,311	1,089	93	122,006	22,985	77,191	21,830
2000	2,818	96,675	10,254	-102,669	228,204	496	46	126,367	25,080	88,255	13,032
2001	6,681	90,440	8,903	-90,424	218,943	291	46	129,549	25,164	92,663	11,723
2002	12,928	76,235	7,106	-69,308	205,437	689	37	135,322	23,189	101,141	10,993
2003	11,141	60,817	7,306	-57,994	200,644	2,306	35	141,240	21,125	108,309	11,807
2004	4,290	68,038	8,951	-73,553	215,217	194	47	141,733	19,618	110,186	11,929
2005	1,912	85,890	7,420	-89,490	229,813	129	38	139,787	18,234	110,352	11,201
2006	1,582	91,520	8,354	-97,441	236,329	199	28	140,326	20,530	110,170	9,625
2007	765	102,974	10,197	-110,333	250,438	179	41	142,400	20,983	111,404	10,012
2008	369	130,936	8,572	-134,672	267,800	196	43	131,296	18,752	103,846	8,698
2009	836	125,474	7,461	-128,320	258,387	137	40	128,902	19,271	100,828	8,803
2010	758	130,761	8,313	-135,778	267,196	237	39	130,479	20,332	101,266	8,881
2011	950	159,181	7,406	-161,483	292,885	599	36	129,839	20,082	101,100	8,657
2012	4,783	176,464	9,376	-177,336	309,772	1,128	42	131,917	19,572	103,242	9,103
2013	8,597	163,759	9,542	-159,354	299,242	741	40	138,477	20,597	108,608	9,271
2014	5,152	174,142	8,677	-172,798	315,056	131	33	140,824	18,961	111,390	10,473
2015	267	171,999	11,079	-181,337	334,360	83	36	151,750	17,569	121,217	12,964
2016	198	175,032	8,609	-179,118	339,998	186	37	161,183	16,953	130,748	13,482
2017	236	176,154	9,463	-184,218	347,167	93	44	163,026	16,051	132,721	14,254
2018	237	190,712	11,149	-199,308	360,752	329	37	160,316	15,129	133,341	11,845
2019	138	195,231	10,473	-203,407	367,540	972	32	163,781	15,810	137,642	10,329
2020	19	200,099	7,511	-207,256	351,861	391	44	155,042	16,479	131,401	7,162
2021	0	180,871	8,144	-194,224	337,745	616	11	156,318	15,524	134,062	6,732

1. 가정, 상업, 공공부문 합계
자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector
Source: Korea National Oil Corporation-PEDSIS

4-4-7. 중유 Fuel Oil

단위: 천 배럴

	공급 Supply						소비 Consumption					
	수입	수출	국제해운 병커링	재고	일차 에너지공급	정제 생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
	Imports	Exports	International Marine Bunkers	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업	수송	건물 ¹
1990	27,658	12,091	16,226	3,624	307	102,705	27,961	2,114	68,700	58,414	1,507	8,778
1991	34,209	37,925	22,526	6,187	-28,806	147,943	40,938	1,344	76,612	63,221	1,471	11,920
1992	34,271	50,708	28,491	9,383	-44,402	178,972	49,306	625	83,929	69,600	1,717	12,612
1993	32,624	49,693	30,369	8,291	-46,345	188,587	48,628	697	91,499	71,447	7,296	12,757
1994	35,486	40,082	34,773	11,152	-42,230	190,927	54,735	642	98,315	78,430	6,957	12,928
1995	24,824	40,238	40,069	10,255	-54,587	208,597	58,162	744	95,006	75,615	6,557	12,834
1996	29,143	43,075	49,017	11,205	-63,899	214,255	55,249	719	92,980	77,671	3,115	12,194
1997	26,757	50,242	54,368	12,684	-79,383	238,153	50,588	15,147	93,040	69,937	12,823	10,280
1998	12,926	60,240	55,393	10,838	-100,855	207,207	22,255	15,861	67,156	58,104	3,170	5,882
1999	16,497	82,375	61,127	10,465	-126,631	240,188	24,626	16,539	72,416	65,076	1,553	5,787
2000	25,107	72,157	58,189	11,667	-106,441	230,510	39,792	15,839	68,295	59,187	3,656	5,452
2001	22,318	67,011	55,675	12,273	-100,974	225,792	43,923	15,981	64,461	55,192	4,185	5,083
2002	23,700	35,025	53,840	11,607	-64,499	189,808	38,036	15,639	64,362	54,587	4,563	5,213
2003	13,829	45,835	58,104	10,251	-88,754	204,384	36,398	14,950	60,260	50,240	4,670	5,350
2004	8,285	45,539	60,516	11,779	-99,298	202,451	33,135	14,868	54,912	46,139	4,379	4,395
2005	4,021	56,065	61,510	9,356	-111,131	211,249	28,902	16,187	51,519	42,909	4,521	4,090
2006	8,749	58,266	62,138	10,744	-112,998	207,786	29,418	15,766	47,737	39,137	4,109	4,491
2007	5,910	42,699	57,192	9,425	-92,584	185,083	30,397	15,606	44,432	35,188	3,950	5,294
2008	7,192	35,352	54,748	9,543	-83,026	151,959	17,285	14,611	37,503	29,242	4,239	4,021
2009	19,858	25,814	49,853	9,117	-55,380	126,246	23,172	13,665	33,045	25,683	4,220	3,141
2010	17,478	25,884	52,578	10,038	-61,905	125,491	21,273	10,424	30,579	23,851	3,857	2,871
2011	15,392	34,486	52,451	11,247	-72,754	124,722	14,999	10,245	25,820	19,454	3,868	2,498
2012	27,146	28,428	51,227	10,608	-51,870	102,477	22,081	7,292	19,235	13,751	3,588	1,895
2013	44,281	22,434	49,624	10,549	-27,572	81,718	22,796	8,439	13,328	9,739	1,893	1,696
2014	52,006	13,810	50,120	11,312	-12,687	55,781	11,218	7,828	11,541	8,983	1,362	1,196
2015	46,737	10,965	53,682	11,832	-18,430	59,004	12,637	8,563	12,817	9,230	2,153	1,434
2016	47,228	13,512	61,604	10,547	-26,129	72,756	18,981	10,408	12,667	9,670	1,815	1,182
2017	40,091	16,657	58,646	11,631	-36,255	70,065	7,530	8,927	11,059	8,304	1,484	1,271
2018	42,915	26,345	55,524	11,912	-39,236	70,667	7,859	5,255	9,987	7,714	1,224	1,048
2019	31,585	17,490	45,291	9,880	-29,164	59,492	4,145	2,124	8,402	6,108	1,513	780
2020	29,626	13,262	55,525	8,702	-37,982	77,276	3,089	1,779	6,833	5,216	1,150	467
2021	37,239	8,829	57,322	9,749	-29,959	77,512	2,903	719	6,405	4,547	1,557	300

1. 가정, 상업, 공공부문 합계

주: 경질중유(Bunker-A), 중유(Bunker-B), 중질중유(Bunker-C)의 합계

자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector

Note: Sum of Bunker-A, Bunker-B and Bunker-C

Source: Korea National Oil Corporation-PEDSIS

4-4-8. 납사 Naphtha

Unit: Thousand barrels

	공급 Supply					소비 Consumption						
	수입	수출	재고	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비				
	Imports	Exports	Stock	TPES	Petroleum Products	Power Generation & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 ¹ Building ¹	
1990	15,409	3,325	1,702	12,181	31,151	-	3	43,065	43,065	-	-	
1991	24,862	5,625	3,075	17,864	44,544	-	3	56,867	56,867	-	-	
1992	47,948	5,430	6,394	40,607	54,253	-	1	85,528	85,528	-	-	
1993	62,414	10,328	6,717	51,762	54,775	-	1	97,692	97,692	-	-	
1994	72,167	9,148	6,260	63,477	82,313	-	0	127,970	127,970	-	-	
1995	71,837	21,337	5,326	51,434	76,620	-	0	119,775	119,775	-	-	
1996	80,204	30,771	6,774	47,986	90,630	-	0	128,775	128,775	-	-	
1997	79,326	36,942	8,080	41,078	112,554	-	264	152,960	152,960	-	-	
1998	105,100	44,848	7,978	60,354	119,287	-	316	179,074	179,074	-	-	
1999	101,119	46,218	6,189	56,690	133,315	-	274	189,101	189,101	-	-	
2000	111,283	48,849	6,926	61,696	142,054	-	267	202,634	202,615	-	20	
2001	119,738	51,228	9,160	66,276	135,983	-	333	201,551	201,551	-	-	
2002	121,912	44,943	7,623	78,506	133,103	-	795	210,762	210,762	-	-	
2003	131,981	30,970	5,878	102,756	116,501	-	361	218,881	218,881	-	-	
2004	131,368	31,157	10,975	95,114	131,886	-	243	226,789	226,789	-	-	
2005	123,292	25,793	11,554	98,505	138,131	-	199	234,409	234,409	-	-	
2006	126,964	27,991	10,655	99,872	142,343	-	182	243,267	243,267	-	-	
2007	143,766	29,423	9,634	115,364	149,630	-	22	266,283	266,283	-	-	
2008	153,381	22,915	9,786	130,313	124,344	-	38	254,818	254,818	-	-	
2009	180,840	26,569	8,330	155,727	116,317	-	92	272,112	272,112	-	-	
2010	188,600	32,111	8,837	155,982	133,950	-	0	289,885	289,885	-	-	
2011	188,507	35,386	8,809	153,373	149,304	-	-	303,306	303,306	-	-	
2012	207,444	33,287	11,795	171,171	157,199	-	0	328,403	328,401	-	2	
2013	208,297	39,552	12,725	167,413	160,125	-	0	327,806	327,806	-	-	
2014	205,726	35,363	12,813	170,276	166,557	-	19	335,886	335,886	-	-	
2015	197,617	47,839	12,123	150,468	195,261	-	0	346,401	346,401	-	-	
2016	202,224	49,763	12,309	152,275	213,617	-	0	362,868	362,868	-	-	
2017	199,632	44,194	10,205	157,542	249,148	-	0	384,242	384,242	-	-	
2018	218,814	43,564	15,096	170,359	248,724	-	-	372,559	372,559	-	-	
2019	226,088	47,382	11,595	182,206	254,353	-	-	365,443	365,443	-	-	
2020	215,927	36,680	16,954	173,888	224,925	-	-	333,938	333,938	-	-	
2021	253,313	31,203	14,529	224,486	214,883	-	-	369,918	369,918	-	-	

1. 가정, 상업, 공공부문 합계
 자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector
 Source: Korea National Oil Corporation-PEDSIS

4-5. 석유제품 소비(2021)

단위: 천 배럴

	합계		정제가스	프로판	부탄	휘발유	항공유	등유	경유	경질중유
	Total	%	Refinery gas	Propane	Butane	Gasoline	Jet oil	Kerosene	Diesel	Bunker-A
국제해운병커링	70,042	...	-	0	-	0	-	-	12,720	86
국제항공병커링	19,801	...	-	-	-	-	19,801	-	-	-
전환공정 ¹	8,331	...	-	3,615	5	0	-	1,191	616	-
발전전용	3,811	...	-	187	5	0	-	1,164	616	-
열병합	377	...	-	323	-	-	-	2	0	-
열전용	1,773	...	-	734	-	-	-	25	-	-
가스제조	2,370	...	-	2,370	-	-	-	-	-	-
에너지산업자체소비	37,613	...	33,936	652	67	2	-	4	11	-
최종소비	809,098	100	8,999	72,524	36,709	84,873	15,531	16,490	156,318	1,073
산업	505,836	63	8,999	54,359	7,908	1,189	5	2,280	15,524	480
농림업	3,543	0	-	51	1	256	-	1,440	1,687	29
어업	6,253	1	-	12	-	633	-	0	5,474	55
광업	657	0	-	58	0	1	-	8	326	49
제조업	481,043	59	8,999	54,155	7,907	229	5	681	3,641	203
식품 및 담배	390	0	-	210	4	1	-	63	25	2
섬유 및 가죽	156	0	-	40	2	1	-	35	20	1
목재 및 나무제품	50	0	-	3	-	2	-	7	30	-
제지 및 인쇄	230	0	-	54	-	1	-	7	51	2
화학 및 석유화학	452,940	56	8,939	45,170	6,507	2	-	54	48	16
메모: 석유화학 원료	417,203	52	-	40,872	6,414	-	-	-	-	-
비금속 광물	3,388	0	-	186	0	4	-	5	916	18
철강	674	0	-	622	18	-	-	2	30	1
비철금속	281	0	-	127	1	-	-	1	22	0
기계류	645	0	-	241	3	4	-	57	306	8
수송장비	1,478	0	-	296	15	176	0	4	543	141
기타제조	10,383	1	-	6,614	1,321	40	2	429	1,070	13
기타에너지	10,428	1	60	590	36	-	3	19	581	-
건설업	14,340	2	-	84	-	71	-	152	4,395	143
수송	259,041	32	-	17	27,902	83,389	12,075	38	134,062	529
철도	521	0	-	0	-	-	-	0	521	-
도로	243,566	30	-	4	27,902	83,389	-	6	132,260	6
국내해운	2,863	0	-	10	-	-	-	30	1,272	523
국내항공	12,090	1	-	3	-	0	12,075	2	10	-
가정	16,827	2	-	5,882	120	7	-	10,699	12	9
상업	19,235	2	-	12,015	777	58	67	3,235	2,721	28
공공	8,159	1	-	251	1	230	3,384	236	3,999	28

1. 전환공정 중 석유제품이 생산되는 석유제품 정제 생산은 제외
 자료: 한국석유공사

4-5. Petroleum Product Consumption Status in 2021

Unit: Thousand barrels

종유	중질종유	납사	용제	윤활유	아스팔트	파라핀왁스	석유코크	기타석유제품	
Bunker-B	Bunker-C	Naphtha	White spirit & SBP	Lubricant	Bitumen	Para. -wax	Pet. -coke	Other oil products	
2	57,234	-	0	-	-	-	-	-	International marine bunkers
-	-	-	-	-	-	-	-	-	International aviation bunkers
-	2,903	-	-	-	-	-	-	-	Transformation processes ¹
-	1,839	-	-	-	-	-	-	-	Electricity-only plants
-	51	-	-	-	-	-	-	-	CHP plants
-	1,013	-	-	-	-	-	-	-	Heat-only plants
-	-	-	-	-	-	-	-	-	Gas manufacturing
-	719	-	0	0	0	-	2,223	0	Energy Industry Own Use
143	5,189	369,918	1,585	8,030	9,450	189	1,276	20,802	Total final consumption
116	3,951	369,918	1,362	8,030	9,450	189	1,273	20,802	Industry
26	52	-	2	-	-	-	-	-	Agriculture/Forestry
41	37	-	-	-	-	-	-	-	Fishing
1	28	-	1	-	-	-	185	-	Mining & quarrying
36	3,801	369,918	1,359	8,030	-	189	1,088	20,802	Manufacturing
2	83	-	-	-	-	-	-	-	Food & tobacco
8	43	-	7	-	-	-	-	-	Textile & leather
-	9	-	0	-	-	-	-	-	Wood & wood pro.
2	60	-	53	-	-	-	-	-	Paper, pulp & print
18	1,380	369,918	928	-	-	144	-	19,819	Chemical & petrochemical
-	-	369,918	-	-	-	-	-	-	memo: petrochemical feedstock
2	1,354	-	0	-	-	-	902	-	Non-metallic minerals
0	0	-	1	-	-	-	-	-	Iron & steel
0	128	-	1	-	-	-	-	-	Non-ferrous metals
1	18	-	6	-	-	-	-	-	Machinery
0	300	-	4	-	-	-	-	-	Transport equipment
3	400	-	190	-	-	6	-	296	Other manufacturing
-	27	-	169	8,030	-	39	186	688	Other energy
12	34	-	-	-	9,450	-	-	-	Construction
15	1,013	-	0	-	-	-	-	-	Transport
-	-	-	-	-	-	-	-	-	Rail
0	-	-	0	-	-	-	-	-	Road
15	1,013	-	-	-	-	-	-	-	Domestic navigation
-	-	-	-	-	-	-	-	-	Domestic aviation
2	94	-	-	-	-	-	-	-	Residential
8	103	-	221	-	-	-	3	-	Commercial
1	27	-	2	-	-	-	-	-	Public services

1. Refining production processes in which petroleum products are produced were excluded.

Source : Korea National Oil Corporation.

5. 석유제품 소비자가격

Retail Prices of Petroleum Products

	휘발유 ¹ Gasoline ¹	실내등유 ¹ Kerosene ¹	자동차용 경유 ¹ Diesel oil ¹	프로판 ² Propane ²	부 탄 Butane	
					일반용 ² Residential· Commercial ²	자동차용 ¹ Automobile ³
	원/리터(Won/ℓ)			원/kg(Won/kg)	원/리터(Won/ℓ)	
1981	-	257.7	245.9	848.0	-	-
1982	-	292.0	278.0	836.3	-	-
1983	-	292.3	278.3	747.7	-	-
1984	-	291.0	277.0	740.0	-	-
1985	-	291.0	277.0	740.0	-	-
1986	-	249.2	238.3	605.9	-	-
1987	547.0	234.7	225.1	556.4	-	-
1988	445.6	194.7	187.3	458.6	-	-
1989	379.8	186.0	179.0	514.0	-	-
1990	383.5	191.3	182.0	415.0	-	-
1991	480.7	226.9	182.0	430.4	-	-
1992	555.8	235.8	198.7	449.4	-	-
1993	610.0	254.0	214.0	460.0	-	-
1994	611.0	271.0	227.1	475.0	-	-
1995	598.0	261.6	239.4	489.7	-	-
1996	675.8	314.7	300.8	510.0	-	-
1997	838.7	373.5	376.2	599.0	-	-
1998	1,122.6	524.2	553.5	815.0	-	-
1999	1,191.9	491.2	521.8	678.3	-	-
2000	1,248.4	559.6	612.8	809.3	-	-
2001	1,280.0	580.2	644.6	919.0	1,138.9	440.0
2002	1,269.1	554.4	677.6	887.3	1,108.1	457.7
2003	1,294.8	638.8	772.0	980.0	1,193.3	567.4
2004	1,365.3	752.2	907.9	1,050.2	1,234.5	673.9
2005	1,432.3	871.0	1,079.7	1,131.5	1,305.1	723.4
2006	1,492.4	931.9	1,228.2	1,242.7	1,392.3	747.9
2007	1,525.9	932.2	1,272.7	1,330.6	1,453.7	773.8
2008	1,692.1	1,238.7	1,614.4	1,789.9	1,898.2	1,009.0
2009	1,600.7	976.2	1,397.5	1,577.2	1,885.0	828.7
2010	1,710.4	1,076.0	1,502.8	1,812.7	2,072.0	952.2
2011	1,929.3	1,321.2	1,745.7	2,034.0	2,277.3	1,076.1
2012	1,985.8	1,394.1	1,806.3	2,105.9	2,352.0	1,101.9
2013	1,924.5	1,366.7	1,729.6	2,085.3	2,337.6	1,070.8
2014	1,827.3	1,296.7	1,636.7	2,112.9	2,369.3	1,051.2
2015	1,510.4	947.4	1,299.6	1,801.3	2,033.9	806.4
2016	1,402.6	784.5	1,182.5	1,689.1	1,913.5	734.0
2017	1,491.3	853.1	1,282.5	1,833.8	2,074.7	826.5
2018	1,581.4	942.3	1,391.9	1,920.4	2,177.4	874.5
2019	1,472.4	961.7	1,340.5	1,869.9	2,140.4	806.3
2020	1,381.4	853.8	1,189.7	1,851.2	2,148.0	790.8
2021	1,590.6	946.8	1,391.4	2,092.3	2,415.1	932.2

1. 주유소/충전소 판매가격

2. 일반용 프로판 및 부탄의 판매소 판매가격

자료 : 한국석유공사

1. Salse price at gas and charging station

2. Sales prices at general-purpose propane

Source : Korea National Oil Corporation

6. 정제 능력

Refining Capacities

단위: 천 BPSD

Unit: Thousand BPSD

	합계	SK에너지	GS칼텍스	SK인천정유	현대오일뱅크	에스-오일
	Total	SK Energy	GS-Caltex	SK-Inchon	Hyundai Oilbank	S-Oil
1981	790	280	380	60	10	60
1982	790	280	380	60	10	60
1983	790	280	380	60	10	60
1984	790	280	380	60	10	60
1985	790	280	380	60	10	60
1986	790	280	380	60	10	60
1987	790	280	380	60	10	60
1988	790	280	380	60	10	60
1989	840	280	380	60	60	60
1990	840	280	380	60	60	60
1991	1,035	375	380	60	60	160
1992	1,675	585	380	275	110	325
1993	1,675	585	380	275	110	325
1994	1,700	610	380	275	110	325
1995	1,818	610	380	275	110	443
1996	2,438	810	600	275	310	443
1997	2,438	810	600	275	310	443
1998	2,438	810	600	275	310	443
1999	2,438	810	600	275	310	443
2000	2,438	810	600	275	310	443
2001	2,438	810	600	275	310	443
2002	2,438	810	600	275	310	443
2003	2,438	810	600	275	310	443
2004	2,735	840	650	275	390	580
2005	2,735	840	650	275	390	580
2006	2,735	840	650	275	390	580
2007	2,765	840	680	275	390	580
2008	2,785	1,115	700	-	390	580
2009	2,835	1,115	750	-	390	580
2010	2,845	1,115	760	-	390	580
2011	2,934	1,115	775	-	390	654
2012	2,949	1,115	775	-	390	669
2013	2,949	1,115	775	-	390	669
2014	3,009	1,165	785	-	390	669
2015	3,059	1,215	785	-	390	669
2016	3,064	1,215	790	-	390	669
2017	3,105	1,215	790	-	431	669
2018	3,204	1,215	800	-	520	669
2019	3,204	1,215	800	-	520	669
2020	3,204	1,215	800	-	520	669
2021	3,204	1,215	800	-	520	669

자료 : 한국석유공사

Source: Korea National Oil Corporation



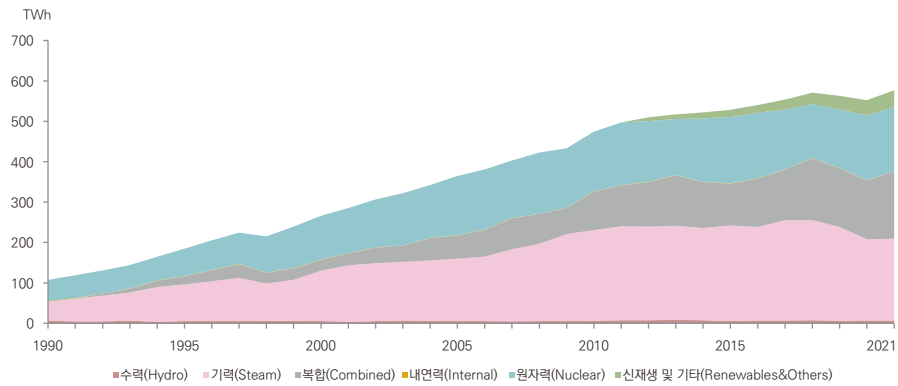
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Electricity

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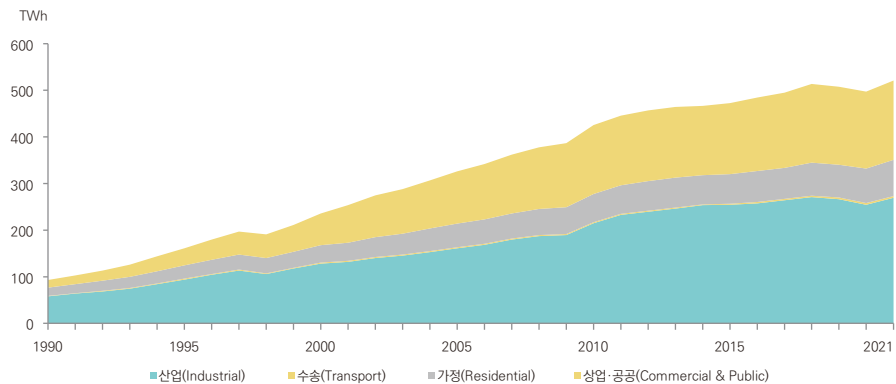
● 발전 설비별 발전량 Power Generation Amount by Generating Facility

〈1990~2021〉



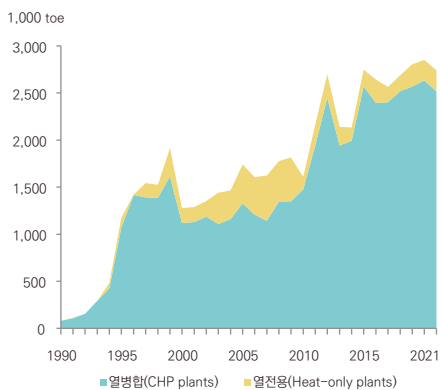
● 부문별 전력 소비 Electricity Consumption by Sector

〈1990~2021〉



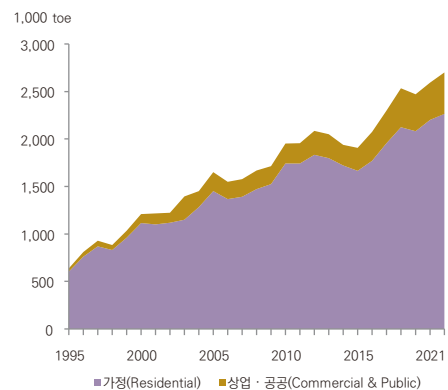
● 전환공정 내 열생산 Heat Production in the Transformation Processes

〈1990~2021〉



● 열 소비 Heat Consumption

〈1990~2021〉



1. 주요 전력 지표

	단 위 Unit	1961	1981	1985	1990	1995	2000	2005	2010	2011
발전설비	kW	426,287	11,029,344	17,639,982	24,055,893	35,355,785	53,684,913	67,075,240	79,983,793	83,263,146
한전, 자회사	kW	367,254	9,130,580	15,013,903	19,782,833	30,561,633	44,566,083	55,956,412	65,559,674	67,005,570
타사	kW	-	704,800	1,122,800	1,238,290	1,622,240	3,884,634	6,301,785	10,518,514	12,336,297
상용자가	kW	59,033	1,193,964	1,503,279	3,034,770	3,171,912	5,234,196	4,817,043	3,905,605	3,921,279
총발전량	MWh	1,936,418	44,088,303	62,667,201	118,460,795	203,546,465	290,442,948	389,479,512	495,028,363	517,569,729
한전, 자회사	MWh	1,772,921	37,428,005	56,179,998	103,184,998	179,073,203	256,841,584	349,758,383	435,384,166	443,409,223
타사	MWh	-	2,778,660	1,754,007	4,206,029	4,032,626	4,836,511	14,611,607	38,433,844	52,670,709
상용자가 ¹⁾	MWh	163,497	3,881,638	4,733,196	11,067,768	20,440,636	28,764,853	25,109,522	21,210,354	21,489,797
		-	-	-	-	(1,554,996)	(4,721,413)	(269,341)	-(842,196)	-(813,434)
소내 소비 전력량	MWh	89,337	2,102,514	3,422,742	5,394,570	8,298,749	12,328,447	16,451,551	19,371,717	19,689,178
소내 소비율	%	5.04	5.23	5.91	5.02	4.53	4.71	4.56	4.20	4.14
양수용 전력량	MWh	-	153,950	676,358	2,272,202	3,668,783	2,117,789	1,980,383	3,662,630	4,256,763
송전단 전력량(양수제외)	MWh	1,683,584	37,950,201	53,908,278	100,002,741	172,693,293	251,953,275	346,207,397	451,432,992	472,650,336
송배전 손실량	MWh	494,198	2,252,746	3,176,183	5,619,450	9,422,999	11,871,191	15,614,768	18,034,237	17,430,383
송배전 손실율	%	29.35	6.66	5.89	5.62	5.46	4.71	4.51	3.99	3.69
판매 전력량	MWh	1,189,386	35,424,455	50,732,095	94,383,292	163,270,294	239,535,486	332,412,828	434,160,228	455,070,261
수요 성장율	%	-	8.2	7.8	14.8	11.4	11.8	6.5	10.1	4.8
최대전력	kW	305,686	6,144,194	9,348,942	17,251,683	29,878,000	41,007,164	54,631,000	71,308,000	73,137,000
평균전력	kW	202,388	48,589,802	6,621,847	12,291,040	21,080,003	30,327,813	41,625,494	54,184,955	56,722,987
부하율 ²⁾	%	66.2	74.7	70.8	71.2	70.6	74.0	76.2	75.9	77.6
이용율	%	55.1	46.7	43.5	58.4	66.3	62.2	67.5	73.3	73.9
판매단가	원/kWh	3.22	64.31	67.92	52.94	61.28	74.65	74.46	86.12	89.32
수용가수	호 수	797,252	5,682,341	6,931,167	9,315,211	12,771,338	14,975,793	17,329,494	19,229,450	19,814,866
인구1인당 전력생산량 ³⁾	kWh/명	69	1,038	1,422	2,516	4,117	5,635	7,550	9,712	9,982
		-	-	-	-	(4,538)	(6,144)	(8,065)	(10,129)	(10,397)
인구1인당 전력소비량	kWh/명	46	915	1,243	2,202	3,640	5,067	6,883	8,883	9,142

1.() 내는 상용자가 발전량 중 한전의 구입 전력량

2. 최대전력에 대한 평균전력의 비를 백분율로 나타낸 것

3.() 내는 상용발전 자체 소비량 포함분임

자료 : 한국전력공사

1. Major Electricity Indicators

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
85,849,093	91,077,485	96,925,225	101,590,229	109,789,291	120,848,466	122,912,875	129,747,830	133,655,412	138,482,028p	Generating Facilities
68,848,108	70,845,294	72,305,204	73,282,111	79,216,544	82,132,490	81,362,425	83,672,341	83,853,696	82,459,277	KEPCO & Subsidiaries
12,957,468	16,123,643	20,910,550	24,366,649	26,649,013	34,775,150	37,729,234	41,665,327	45,337,578	51,560,498	Other Co.
4,043,517	4,108,548	3,709,470	3,941,468	3,923,734	3,940,825	3,821,215	4,410,161	4,464,139	4,462,253p	Non-Utility for Common Use
531,201,866	537,169,276	540,378,799	547,801,803	560,984,590	576,412,127	592,904,629	586,806,004	577,111,901	601,938,354p	Gross Generation
448,516,180	448,756,663	442,914,458	432,758,183	436,314,042	426,484,068	418,327,451	409,069,939	394,522,245	400,373,182	KEPCO & Subsidiaries
58,964,028	66,710,267	78,494,632	94,756,654	103,906,393	126,741,534	151,520,206	152,823,960	155,963,475	175,412,367	Other Co.
23,721,658	21,702,345	18,969,709	20,286,965	20,764,155	23,186,525	23,056,972	24,912,104	26,626,181	26,152,804p	Non-Utility Generation for Common Use ¹
-(2,094,121)	-(1,680,942)	-(561,813)	-(576,355)	-(220,419)	-(304,506)	-(798,850)	-(1,146,405)	-(1,676,440)	-(1,023,939)	
20,154,366	20,463,269	20,257,068	23,782,283	21,504,884	21,707,139	21,389,786	21,572,766	21,135,360	21,254,113	Auxiliary Use
3.96	3.96	3.88	4.50	3.98	3.92	3.75	3.83	3.83	3.68	Aux. Use Factor
4,789,137	5,408,107	6,644,037	4,823,507	4,716,403	5,476,612	5,105,659	4,587,619	4,352,176	4,855,815	Pumping Storage
484,334,191	491,002,570	494,716,613	499,239,421	514,118,988	525,710,752	543,231,596	536,197,809	525,850,762	549,623,783	Net Generation
17,291,504	18,310,889	18,270,412	17,979,210	18,474,842	18,790,097	19,359,355	19,000,475	18,609,971	19,424,218	T & D Losses
3.57	3.73	3.69	3.60	3.59	3.57	3.56	3.54	3.54	3.53	Loss Factor(T & D)
466,592,949	474,848,580	477,591,701	483,654,816	497,038,904	507,746,386	526,149,162	520,498,738	509,269,715	533,430,811	Power Sold
2.5	1.8	0.6	1.3	2.8	2.2	3.6	-1.1	-2.2	4.7	Growth Rate
75,987,000	76,522,000	80,154,000	78,790,000	85,183,000	85,133,000	92,478,000	90,314,000	89,091,000	91,141,000	Peak Load
58,011,649	59,035,145	59,585,720	60,284,383	61,694,161	63,188,368	65,142,295	64,274,007	62,859,991	65,845,832	Average Load
76.3	77.1	74.3	76.5	72.4	74.2	70.4	71.2	70.6	72.2	Load Factor ²
70.2	68.0	63.9	61.7	58.3	54.0	54.7	51.3	48.7	49.1	Utilization Plant Factor
99.10	106.33	111.28	111.57	111.23	109.53	108.75	108.66	109.80	108.11	Average Revenues per kWh Sold
20,475,899	21,017,693	21,532,269	22,030,215	22,552,719	23,077,023	23,501,542	23,860,032	24,198,304	24,523,304	Customers
10,191	10,112	10,169	10,433	10,546	10,759	11,058	10,859	10,654	11,170	Generation per Capita ³
(10,623)	(10,504)	(10,573)	(10,778)	(10,947)	(11,204)	(11,489)	(11,317)	(11,099)	(11,657)	
9,331	9,285	9,305	9,555	9,699	9,869	10,195	10,039	9,826	10,330	Consumption per Capita

1. Parentheses are power sales to KEPCO in non-utility generation

2. The percentage ratio of average load over peak load

3. Parentheses include own use of non-utility generation

Source : Korea Electric Power Corporation

2. 발전 설비

단위: kW

	합계 Total		수력 Hydro		원자력 Nuclear		집단 District Energy		대체 Alternative Energy		기타 ¹ Others ¹		화력 Thermal	
		%		%		%		%		%		%		%
1981	9,835,380	100.0	1,201,730	12.2	587,000	6.0	0	0.0	0	0.0	0	0	8,046,650	81.8
1982	10,304,063	100.0	1,201,730	11.7	1,265,683	12.3	0	0.0	0	0.0	0.0	0.0	7,836,650	76.1
1983	13,115,263	100.0	1,201,730	9.2	1,915,683	14.6	0	0.0	0	0.0	0.0	0.0	9,997,850	76.2
1984	14,190,263	100.0	1,201,730	8.5	1,915,683	13.5	0	0.0	0	0.0	0.0	0.0	11,072,850	78.0
1985	16,136,703	100.0	2,223,170	13.8	2,865,683	17.8	0	0.0	0	0.0	0.0	0.0	11,047,850	68.5
1986	18,060,083	100.0	2,224,550	12.3	4,765,683	26.4	0	0.0	0	0.0	0.0	0.0	11,069,850	61.3
1987	19,020,503	100.0	2,232,270	11.7	5,715,683	30.1	0	0.0	0	0.0	0.0	0.0	11,072,550	58.2
1988	19,944,123	100.0	2,235,740	11.2	6,665,683	33.4	0	0.0	0	0.0	0.0	0.0	11,042,700	55.4
1989	20,997,043	100.0	2,338,660	11.1	7,615,683	36.3	0	0.0	0	0.0	0.0	0.0	11,042,700	52.6
1990	21,021,123	100.0	2,340,040	11.1	7,615,683	36.2	0	0.0	0	0.0	0.0	0.0	11,065,400	52.6
1991	21,110,623	100.0	2,444,540	11.6	7,615,683	36.1	0	0.0	0	0.0	0.0	0.0	11,050,400	52.3
1992	24,120,073	100.0	2,497,790	10.4	7,615,683	31.6	0	0.0	0	0.0	0.0	0.0	14,006,600	58.1
1993	27,653,693	100.0	2,503,710	9.1	7,615,683	27.5	0	0.0	0	0.0	0.0	0.0	17,534,300	63.4
1994	28,749,573	100.0	2,492,590	8.7	7,615,683	26.5	0	0.0	0	0.0	0.0	0.0	18,641,300	64.8
1995	32,183,873	100.0	3,093,390	9.6	8,615,683	26.8	0	0.0	0	0.0	0.0	0.0	20,474,800	63.6
1996	35,715,433	100.0	3,094,450	8.7	9,615,683	26.9	0	0.0	0	0.0	0.0	0.0	23,005,300	64.4
1997	41,041,778	100.0	3,114,595	7.6	10,315,683	25.1	0	0.0	0	0.0	0.0	0.0	27,611,500	67.3
1998	43,405,841	100.0	3,131,208	7.2	12,015,683	27.7	0	0.0	0	0.0	0.0	0.0	28,258,950	65.1
1999	46,977,697	100.0	3,147,564	6.7	13,715,683	29.2	0	0.0	0	0.0	0.0	0.0	30,114,450	64.1
2000	48,450,717	100.0	3,148,664	6.5	13,715,683	28.3	0	0.0	0	0.0	0.0	0.0	31,586,370	65.2
2001	50,858,647	100.0	3,875,764	7.6	13,715,683	27.0	0	0.0	0	0.0	0.0	0.0	33,267,200	65.4
2002	53,800,847	100.0	3,875,764	7.2	15,715,683	29.2	0	0.0	0	0.0	0.0	0.0	34,209,400	63.6
2003	56,052,677	100.0	3,876,779	6.9	15,715,683	28.0	1,296,200	2.3	83,315	0.1	0.0	0.0	35,080,700	62.6
2004	59,961,131	100.0	3,879,313	6.5	16,715,683	27.9	1,381,500	2.3	107,905	0.2	0.0	0.0	37,876,730	63.2
2005	62,258,197	100.0	3,882,813	6.2	17,715,683	28.5	1,381,500	2.2	155,622	0.2	0.0	0.0	39,122,579	62.8
2006	65,514,242	100.0	5,484,858	8.4	17,715,683	27.0	1,381,500	2.1	240,422	0.4	0.0	0.0	40,691,779	62.1
2007	68,268,188	100.0	5,492,087	8.0	17,715,683	26.0	1,381,500	2.0	862,409	1.3	0.0	0.0	43,305,259	63.4
2008	72,490,692	100.0	5,505,137	7.6	17,715,683	24.4	1,459,630	2.0	728,337	1.0	0.0	0.0	47,081,904	64.9
2009	73,469,978	100.0	5,514,572	7.5	17,715,683	24.1	1,610,210	2.2	1,136,352	1.5	0.0	0.0	47,493,161	64.6
2010	76,078,188	100.0	5,524,540	7.3	17,715,683	23.3	2,066,724	2.7	1,748,980	2.3	0.0	0.0	49,022,261	64.4
2011	79,341,867	100.0	6,418,389	8.1	18,715,683	23.6	2,623,224	3.3	1,858,660	2.3	0.0	0.0	49,725,911	62.7
2012	81,805,576	100.0	6,446,030	7.9	20,715,683	25.3	2,768,012	3.4	2,482,838	3.0	0.0	0.0	49,537,801	60.6
2013	86,968,937	100.0	6,454,462	7.4	20,715,683	23.8	3,106,068	3.6	3,518,702	4.0	0.0	0.0	53,174,022	61.1
2014	93,215,755	100.0	6,466,936	6.9	20,715,683	22.2	4,322,509	4.6	4,473,945	4.8	0.0	0.0	57,236,681	61.4
2015	97,648,761	100.0	6,470,709	6.6	21,715,683	22.2	5,360,020	5.5	5,649,367	5.8	0.0	0.0	58,452,981	59.9
2016	105,865,557	100.0	6,485,211	6.1	23,115,683	21.8	6,200,144	5.9	7,477,088	7.1	0.0	0.0	62,587,431	59.1
2017	116,907,641	100.0	6,489,456	5.6	22,528,683	19.3	7,682,304	6.6	9,186,923	7.9	0.0	0.0	71,020,275	60.7
2018	119,091,660	100.0	6,490,410	5.4	21,850,000	18.3	9,207,684	7.7	11,622,809	9.8	0.0	0.0	69,920,756	58.7
2019	125,337,669	100.0	6,508,103	5.2	23,250,000	18.5	9,190,984	7.3	14,249,553	11.4	851,790	0.7	71,287,238	56.9
2020	129,191,273	100.0	6,505,768	5.0	23,250,000	18.0	9,190,984	7.1	18,739,127	14.5	366,204	0.3	71,139,190	55.1
2021	134,019,775	100.0	6,541,335	4.9	23,250,000	17.3	9,229,174	6.9	23,014,162	17.2	366,784	0.3	71,618,320	53.4

1. 부생가스, 증류탑페열, 여열회수, 천연가스압터빈

주: 1. 상용자가 제외

2. 2001. 4. 2. 한전의 발전부문은 발전부문 및 전력거래소로 분리

자료: 한국전력공사

2. Generating Facilities

Unit: kW

화력 Thermal										
석탄혼소 Coal Mix	%	석유화력 Oil Thermal	%	액화천연가스 LNG	%	복합화력 Combined Cycle	%	내연력 Internal Combustion	%	
725,000	7.4	6,087,300	61.9	0	0.0	920,000	9.4	314,350	3.2	1981
650,000	6.3	6,072,300	58.9	0	0.0	920,000	8.9	194,350	1.9	1982
2,110,000	16.1	6,772,300	51.6	0	0.0	920,000	7.0	195,550	1.5	1983
3,170,000	22.3	6,772,300	47.7	0	0.0	920,000	6.5	210,550	1.5	1984
3,700,000	22.9	6,212,300	38.5	0	0.0	920,000	5.7	215,550	1.3	1985
3,700,000	20.5	6,212,300	34.4	-	-	920,000	5.1	237,550	1.3	1986
3,700,000	19.5	3,662,300	19.3	2,550,000	13.4	920,000	4.8	240,250	1.3	1987
3,700,000	18.6	3,662,300	18.4	2,550,000	12.8	895,000	4.5	235,400	1.2	1988
3,700,000	17.6	3,662,300	17.4	2,550,000	12.1	840,000	4.0	290,400	1.4	1989
3,700,000	17.6	3,662,300	17.4	2,550,000	12.1	840,000	4.0	313,100	1.5	1990
3,700,000	17.5	3,662,300	17.3	2,550,000	12.1	760,000	3.6	378,100	1.8	1991
3,700,000	15.3	3,662,300	15.2	2,550,000	10.6	3,706,200	15.4	388,100	1.6	1992
5,760,000	20.8	4,424,800	16.0	1,787,500	6.5	5,172,550	18.7	389,450	1.4	1993
6,820,000	23.7	4,424,800	15.4	1,787,500	6.2	5,333,550	18.6	275,450	1.0	1994
7,820,000	24.3	4,674,800	14.5	1,537,500	4.8	6,183,550	19.2	258,950	0.8	1995
7,820,000	21.9	4,664,800	13.1	1,537,500	4.3	8,718,550	24.4	264,450	0.7	1996
10,200,000	24.9	4,340,000	10.6	1,537,500	3.7	11,268,550	27.5	265,450	0.6	1997
11,331,000	26.1	4,340,000	10.0	1,537,500	3.5	10,785,000	24.8	265,450	0.6	1998
13,031,000	27.7	4,340,000	9.2	1,537,500	3.3	10,935,000	23.3	270,950	0.6	1999
14,031,000	29.0	4,490,000	9.3	1,537,500	3.2	11,256,920	23.2	270,950	0.6	2000
15,531,000	30.5	4,490,000	8.8	1,537,500	3.0	11,435,750	22.5	272,950	0.5	2001
15,931,000	29.6	4,280,000	8.0	1,537,500	2.9	12,185,750	22.6	275,150	0.5	2002
15,931,000	28.4	4,280,000	7.6	1,537,500	2.7	13,085,750	23.3	246,450	0.4	2003
17,465,000	29.1	4,308,600	7.2	1,537,500	2.6	14,313,350	23.9	252,280	0.4	2004
17,965,000	28.9	4,308,600	6.9	1,537,500	2.5	15,014,789	24.1	296,690	0.5	2005
18,465,000	28.2	4,388,600	6.7	1,537,500	2.3	16,003,989	24.4	296,690	0.5	2006
20,465,000	30.0	4,488,600	6.6	1,537,500	2.3	16,510,989	24.2	303,170	0.4	2007
23,705,000	32.7	4,488,600	6.2	1,537,500	2.1	17,043,989	23.5	306,815	0.4	2008
24,205,000	32.9	4,478,600	6.1	887,500	1.2	17,574,961	23.9	347,100	0.5	2009
24,205,000	31.8	4,478,600	5.9	887,500	1.2	19,100,161	25.1	351,000	0.5	2010
24,205,000	30.5	4,478,600	5.6	887,500	1.1	19,799,361	25.0	355,450	0.4	2011
24,533,600	30.0	3,950,000	4.8	887,500	1.1	19,799,361	24.2	367,340	0.4	2012
24,533,600	28.2	3,950,000	4.5	887,500	1.0	23,473,232	27.0	329,690	0.4	2013
26,273,600	28.2	2,950,000	3.2	387,500	0.4	27,295,891	29.3	329,690	0.4	2014
26,273,600	26.9	2,950,000	3.0	387,500	0.4	28,512,191	29.2	329,690	0.3	2015
30,545,800	28.9	2,950,000	2.8	250,000	0.2	28,512,191	26.9	329,440	0.3	2016
35,314,578	30.2	2,950,000	2.5	-	-	32,416,227	27.7	339,470	0.3	2017
35,407,613	29.7	2,950,000	2.5	-	-	31,223,673	26.2	339,470	0.3	2018
35,500,658	28.3	2,600,000	2.1	-	-	32,845,963	26.2	340,617	0.3	2019
35,350,658	27.4	1,200,000	0.9	1,400,000	1.1	33,012,852	25.6	175,680	0.1	2020
35,828,658	26.7	1,200,000	0.9	1,400,000	1.0	33,012,852	24.6	176,810	0.1	2021

1. Waste heat in distillation tower, waste heat recovery, natural gas pressure turbine and by-product gas

Note: 1. Except Non-utility in common use

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

Source: Korea Electric Power Corporation

3. 설비별 발전 전력량

단위: GWh

	합계		수 력		원 자 력		집 단		신 재생		기 타 ¹	
	Total	%	Hydro	%	Nuclear	%	District energy	%	Renewables	%	Others ¹	%
1981	40,207	100.0	2,709	6.7	2,897	7.2	-	-	-	-	-	-
1982	43,122	100.0	2,005	4.6	3,777	8.8	-	-	-	-	-	-
1983	48,850	100.0	2,723	5.6	8,965	18.4	-	-	-	-	-	-
1984	53,808	100.0	2,399	4.5	11,792	21.9	-	-	-	-	-	-
1985	58,007	100.0	3,659	6.3	16,745	28.9	-	-	-	-	-	-
1986	64,695	100.0	4,019	6.2	28,311	43.8	-	-	-	-	-	-
1987	73,992	100.0	5,344	7.2	39,314	53.1	-	-	-	-	-	-
1988	85,462	100.0	3,566	4.2	40,101	46.9	-	-	-	-	-	-
1989	94,472	100.0	4,558	4.8	47,365	50.1	-	-	-	-	-	-
1990	107,670	100.0	6,361	5.9	52,887	49.1	-	-	-	-	-	-
1991	118,619	100.0	5,051	4.3	56,311	47.5	-	-	-	-	-	-
1992	130,963	100.0	4,863	3.7	56,530	43.2	-	-	-	-	-	-
1993	144,437	100.0	6,006	4.2	58,138	40.3	-	-	-	-	-	-
1994	164,993	100.0	4,098	2.5	58,651	35.5	-	-	-	-	-	-
1995	184,661	100.0	5,478	3.0	67,029	36.3	-	-	-	-	-	-
1996	205,494	100.0	5,201	2.5	73,924	36.0	-	-	-	-	-	-
1997	224,445	100.0	5,404	2.4	77,086	34.3	-	-	-	-	-	-
1998	215,300	100.0	6,099	2.8	89,689	41.7	-	-	-	-	-	-
1999	239,325	100.0	6,066	2.5	103,064	43.1	-	-	-	-	-	-
2000	266,400	100.0	5,610	2.1	108,964	40.9	-	-	-	-	-	-
2001	285,224	100.0	4,151	1.5	112,133	39.3	-	-	-	-	-	-
2002	306,474	100.0	5,311	1.7	119,103	38.9	-	-	-	-	-	-
2003	322,452	100.0	6,887	2.1	129,672	40.2	-	-	-	-	-	-
2004	342,148	100.0	5,861	1.7	130,715	38.2	3,553	1.0	350	0.1	-	-
2005	364,639	100.0	5,189	1.4	146,779	40.3	2,759	0.8	404	0.1	-	-
2006	381,181	100.0	5,219	1.4	148,749	39.0	2,597	0.7	511	0.1	-	-
2007	403,125	100.0	5,042	1.3	142,937	35.5	3,085	0.8	831	0.2	-	-
2008	422,355	100.0	5,563	1.3	150,958	35.7	5,054	1.2	1,373	0.3	-	-
2009	433,604	100.0	5,641	1.3	147,771	34.1	5,827	1.3	1,791	0.4	-	-
2010	474,660	100.0	6,472	1.4	148,596	31.3	8,080	1.7	4,478	0.9	-	-
2011	496,893	100.0	7,831	1.6	154,723	31.1	12,429	2.5	7,592	1.5	-	-
2012	509,574	100.0	7,652	1.5	150,327	29.5	12,913	2.5	8,618	1.7	-	-
2013	517,148	100.0	8,394	1.6	138,784	26.8	14,403	2.8	10,160	2.0	-	-
2014	521,971	100.0	7,820	1.5	156,407	30.0	18,948	3.6	14,696	2.8	-	-
2015	528,091	100.0	5,796	1.1	164,762	31.2	22,019	4.2	17,318	3.3	-	-
2016	540,441	100.0	6,634	1.2	161,995	30.0	32,537	6.0	18,936	3.5	-	-
2017	553,530	100.0	6,995	1.3	148,427	26.8	36,194	6.5	24,145	4.4	-	-
2018	570,647	100.0	7,270	1.3	133,505	23.4	47,033	8.2	27,177	4.8	-	-
2019	563,040	100.0	6,247	1.1	145,910	25.9	46,058	8.2	30,526	5.4	1,367	0.2
2020	552,162	100.0	7,148	1.3	160,184	29.0	45,567	8.3	31,057	5.6	4,940	0.9
2021	576,809	100.0	6,737	1.2	158,015	27.4	48,326	8.4	39,102	6.8	1,181	0.2

1. 부생가스, 증류탑폐열, 여열회수, 천연가스압 터빈

2. 화력에는 한전구입량 포함

주: 2001.4.2. 6개 발전자회사 및 전력거래소로 분리, 발전량은 자가용을 제외한 사업자용만 집계

자료: 한국전력공사

3. Power Generation by Facility

Unit: GWh

화력 ² Thermal ²												
		석탄혼소 Coal Mix		석유화력 Oil Thermal		액화천연가스 LNG		복합화력 Combined Cycle		내연력 Internal Combustion		
		%	%	%	%	%	%	%	%			
34,601	86.1	4,260	10.6	30,045	74.7	-	-	258	0.6	38	0.1	
37,340	86.6	4,488	10.4	32,473	75.3	-	-	332	0.8	45	0.1	
37,163	76.1	6,799	13.9	30,098	61.6	-	-	214	0.4	42	0.1	
39,617	73.6	16,159	30.0	23,302	43.3	-	-	99	0.2	41	0.1	
37,603	64.8	20,027	34.5	17,384	30.0	-	-	58	0.1	61	0.1	
32,364	50.0	19,927	30.8	12,180	18.8	-	-	53	0.1	122	0.2	
29,333	39.6	17,221	23.3	2,235	3.0	9,471	12.8	66	0.1	171	0.2	
41,795	48.9	21,644	25.3	8,608	10.1	10,892	12.7	172	0.2	210	0.2	
42,549	45.0	21,147	22.4	10,918	11.6	9,689	10.3	221	0.2	253	0.3	
48,422	45.0	22,445	20.8	12,878	12.0	11,775	10.9	619	0.6	429	0.4	
57,257	48.3	23,221	19.6	19,741	16.6	12,427	10.5	785	0.7	472	0.4	
69,569	53.1	25,466	19.4	22,572	17.2	14,077	10.7	5,464	4.2	574	0.4	
80,293	55.6	34,490	23.9	24,688	17.1	9,738	6.7	9,188	6.4	640	0.4	
102,244	62.0	45,126	27.4	36,812	22.3	1,869	1.1	16,047	9.7	789	0.5	
112,154	60.7	51,565	27.9	28,739	15.6	8,948	4.8	20,521	11.1	825	0.4	
126,368	61.5	59,650	29.0	29,067	14.1	8,229	4.0	26,943	13.1	772	0.4	
142,005	63.3	69,729	31.1	27,408	12.2	7,661	3.4	34,424	15.3	718	0.3	
119,512	55.5	77,662	36.1	9,943	4.6	1,437	0.7	26,505	12.3	575	0.3	
130,195	54.4	83,604	34.9	11,524	4.8	1,345	0.6	28,675	12.0	382	0.2	
151,826	57.0	99,427	37.3	18,888	7.1	1,632	0.6	26,863	10.1	294	0.1	
168,940	59.2	112,257	39.4	21,622	7.6	1,557	0.5	29,033	10.2	325	0.1	
182,060	59.4	119,665	39.0	17,493	5.7	1,771	0.6	38,337	12.5	353	0.1	
185,893	57.6	121,931	37.8	16,664	5.2	1,674	0.5	40,375	12.5	370	0.1	
201,669	58.9	128,547	37.6	16,084	4.7	733	0.2	55,452	16.2	407	0.1	
209,509	57.5	134,892	37.0	15,529	4.3	786	0.2	57,457	15.8	575	0.2	
224,105	58.8	140,346	36.8	14,307	3.8	1,258	0.3	67,138	17.6	677	0.2	
251,229	62.3	155,685	38.6	15,703	3.9	2,028	0.5	76,405	19.0	578	0.1	
259,407	61.4	174,156	41.2	7,982	1.9	1,518	0.4	74,519	17.6	503	0.1	
272,574	62.9	193,803	44.7	11,970	2.8	762	0.2	64,486	14.9	697	0.2	
307,034	64.7	198,287	41.8	10,874	2.3	2,288	0.5	94,012	19.8	731	0.2	
314,318	63.3	199,516	40.2	9,456	1.9	2,233	0.4	101,479	20.4	821	0.2	
330,064	64.8	199,330	39.1	13,553	2.7	3,453	0.7	110,882	21.8	752	0.1	
345,407	66.8	201,119	38.9	13,941	2.7	3,526	0.7	124,400	24.1	741	0.1	
324,101	62.1	203,765	39.0	6,838	1.3	568	0.1	111,711	21.4	656	0.1	
318,196	60.3	207,334	39.3	8,822	1.7	222	0.0	100,598	19.0	643	0.1	
320,339	59.3	209,200	38.7	13,055	2.4	369	0.1	96,922	17.9	573	0.1	
337,768	61.0	231,887	41.9	5,225	0.9	220	0.0	99,619	18.0	513	0.1	
355,661	62.3	231,653	40.6	5,845	1.0	-	-	116,836	20.5	528	0.1	
332,933	59.1	219,076	38.9	1,842	0.3	-	-	110,289	19.6	579	0.1	
303,266	54.9	187,335	33.9	1,504	0.3	587	0.1	111,759	20.2	405	0.1	
324,629	56.3	188,905	32.7	1,494	0.3	1,177	0.2	130,358	22.6	491	0.1	

1. Waste heat in distillation tower, waste heat recovery, natural gas pressure turbine and by-product gas

2. The total of thermal power includes the purchased power

Note: Separate generation subsidiary and KPX(Korea Power Exchange). Except non-utility in common use

Source: Korea Electric Power Corporation

4. 에너지원별 발전량

단위: GWh

	합계		수력 ¹		원자력		집단 ²		신재생 ¹		기타 ³	
	Total	%	Hydro ¹	%	Nuclear	%	District Energy ²	%	Renewable Energy ¹	%	Others ³	%
1981	40,207	100.0	2,709	6.7	2,897	7.2	-	-	-	-	-	-
1982	43,122	100.0	2,005	4.6	3,777	8.8	-	-	-	-	-	-
1983	48,850	100.0	2,723	5.6	8,965	18.4	-	-	-	-	-	-
1984	53,808	100.0	2,399	4.5	11,792	21.9	-	-	-	-	-	-
1985	58,007	100.0	3,659	6.3	16,745	28.9	-	-	-	-	-	-
1986	64,695	100.0	4,019	6.2	28,311	43.8	-	-	-	-	-	-
1987	73,992	100.0	5,344	7.2	39,314	53.1	-	-	-	-	-	-
1988	85,462	100.0	3,566	4.2	40,101	46.9	-	-	-	-	-	-
1989	94,472	100.0	4,558	4.8	47,365	50.1	-	-	-	-	-	-
1990	107,670	100.0	6,361	5.9	52,887	49.1	-	-	-	-	-	-
1991	118,619	100.0	5,051	4.3	56,311	47.5	-	-	-	-	-	-
1992	130,963	100.0	4,863	3.7	56,530	43.2	-	-	-	-	-	-
1993	144,437	100.0	6,006	4.2	58,138	40.3	-	-	-	-	-	-
1994	164,993	100.0	4,098	2.5	58,651	35.5	-	-	-	-	-	-
1995	184,661	100.0	5,478	3.0	67,029	36.3	-	-	-	-	-	-
1996	205,494	100.0	5,201	2.5	73,924	36.0	-	-	-	-	-	-
1997	224,445	100.0	5,404	2.4	77,086	34.3	-	-	-	-	-	-
1998	215,300	100.0	6,099	2.8	89,689	41.7	-	-	-	-	-	-
1999	239,325	100.0	6,066	2.5	103,064	43.1	-	-	-	-	-	-
2000	266,400	100.0	5,610	2.1	108,964	40.9	-	-	-	-	-	-
2001	285,224	100.0	4,151	1.5	112,133	39.3	-	-	-	-	-	-
2002	306,474	100.0	5,311	1.7	119,103	38.9	-	-	-	-	-	-
2003	322,452	100.0	6,887	2.1	129,672	40.2	-	-	-	-	-	-
2004	342,148	100.0	5,861	1.7	130,715	38.2	3,553	1.0	350	0.1	-	-
2005	364,638	100.0	5,189	1.4	146,779	40.3	2,759	0.8	404	0.1	-	-
2006	381,181	100.0	5,219	1.4	148,749	39.0	2,597	0.7	511	0.1	-	-
2007	403,124	100.0	5,042	1.3	142,937	35.5	3,085	0.8	831	0.2	-	-
2008	422,355	100.0	5,561	1.3	150,958	35.7	5,054	1.2	1,373	0.3	-	-
2009	433,604	100.0	5,641	1.3	147,771	34.1	5,827	1.3	1,791	0.4	-	-
2010	474,660	100.0	6,472	1.4	148,596	31.3	8,080	1.7	3,984	0.8	-	-
2011	496,893	100.0	7,831	1.6	154,723	31.1	12,429	2.5	7,592	1.5	-	-
2012	509,574	100.0	7,652	1.5	150,327	29.5	13,061	2.6	10,563	2.1	-	-
2013	517,148	100.0	8,543	1.7	138,784	26.8	14,633	2.8	11,267	2.2	-	-
2014	521,971	100.0	7,820	1.5	156,407	30.0	-	-	14,695	2.8	-	-
2015	528,091	100.0	5,796	1.1	164,762	31.2	-	-	20,904	4.0	-	-
2016	540,441	100.0	6,634	1.2	161,995	30.0	-	-	22,936	4.2	-	-
2017	553,530	100.0	6,995	1.3	148,427	26.8	-	-	27,874	5.0	-	-
2018	570,647	100.0	7,270	1.3	133,505	23.4	-	-	32,239	5.6	-	-
2019	563,040	100.0	6,247	1.1	145,910	25.9	-	-	33,603	6.0	2,249	0.4
2020	552,162	100.0	7,148	1.3	160,184	29.0	-	-	32,650	5.9	7,681	1.4
2021	576,809	100.0	6,737	1.2	158,015	27.4	-	-	40,041	6.9	3,316	0.6

1. 신재생: 수력 발전량 불포함, 혼소발전량 분리

2. 2014년 부터 집단은 에너지원별 발전량 분류

3. 부생가스, 증류탑 폐열, 여열회수, 천연가스압터빈

자료: www.kepco.co.kr (전력통계속보)

4. Power Generation by Energy Source

Unit: GWh

화 력 Thermal								
소 계 Subtotal		석 탄 Coal		석 유 Petroleum		액화천연가스 LNG		
	%		%		%		%	
34,601	86.1	2,530	6.3	32,071	79.8	-	-	1981
37,340	86.6	2,612	6.1	34,728	80.5	-	-	1982
37,162	76.1	4,289	8.8	32,873	67.3	-	-	1983
39,617	73.6	13,383	24.9	26,234	48.8	-	-	1984
37,603	64.8	17,639	30.4	19,964	34.4	-	-	1985
32,365	50.0	18,220	28.2	13,895	21.5	250	0.4	1986
29,334	39.6	15,856	21.4	5,087	6.9	8,391	11.3	1987
41,795	48.9	19,840	23.2	11,523	13.5	10,432	12.2	1988
42,549	45.0	18,777	19.9	14,640	15.5	9,132	9.7	1989
48,421	45.0	19,961	18.5	18,856	17.5	9,604	8.9	1990
57,257	48.3	20,140	17.0	27,182	22.9	9,935	8.4	1991
69,570	53.1	22,072	16.9	35,311	27.0	12,187	9.3	1992
80,293	55.6	30,917	21.4	34,888	24.2	14,488	10.0	1993
102,244	62.0	41,835	25.4	40,363	24.5	20,046	12.1	1994
112,154	60.7	48,813	26.4	42,045	22.8	21,296	11.5	1995
126,367	61.5	56,881	27.7	42,436	20.7	27,050	13.2	1996
141,956	63.2	67,190	29.9	42,943	19.1	31,823	14.2	1997
119,512	55.5	75,498	35.1	17,712	8.2	26,302	12.2	1998
130,195	54.4	81,544	34.1	18,527	7.7	30,124	12.6	1999
151,826	57.0	97,538	36.6	26,142	9.8	28,146	10.6	2000
168,940	59.2	110,333	38.7	28,156	9.9	30,451	10.7	2001
182,060	59.4	118,022	38.5	25,095	8.2	38,943	12.7	2002
185,892	57.6	120,276	37.3	26,526	8.2	39,090	12.1	2003
201,668	58.9	127,158	37.2	18,511	5.4	55,999	16.4	2004
209,509	57.5	133,658	36.7	17,733	4.9	58,118	15.9	2005
224,105	58.8	139,205	36.5	16,598	4.4	68,302	17.9	2006
251,233	62.3	154,674	38.4	18,132	4.5	78,427	19.5	2007
259,411	61.4	173,508	41.1	10,094	2.4	75,809	17.9	2008
272,573	62.9	193,216	44.6	14,083	3.2	65,274	15.1	2009
307,528	64.8	197,916	41.7	12,878	2.7	96,734	20.4	2010
314,318	63.3	200,124	40.3	12,492	2.5	101,702	20.5	2011
327,971	64.4	198,831	39.0	15,156	3.0	113,984	22.4	2012
343,920	66.5	200,444	38.8	15,751	3.0	127,724	24.7	2013
343,050	65.7	203,446	39.0	24,950	4.8	114,654	22.0	2014
336,629	63.7	204,230	38.7	31,616	6.0	100,783	19.1	2015
348,876	64.6	213,803	39.6	14,221	2.6	120,852	22.4	2016
370,235	66.9	238,799	43.1	8,663	1.6	122,773	22.2	2017
397,632	69.7	238,967	41.9	5,740	1.0	152,924	26.8	2018
375,031	66.6	227,384	40.4	3,292	0.6	144,355	25.6	2019
344,499	62.4	196,333	35.6	2,255	0.4	145,911	26.4	2020
368,699	63.9	197,966	34.3	2,354	0.4	168,378	29.2	2021

1. Renewable energy excludes power generation of hydro

2. District Energy has been included in the generation by each energy source since 2014

3. Waste heat in distillation tower, waste heat recovery, natural gas pressure turbine and by-product gas

Source: www.kepco.co.kr (Monthly Report on Major Electric Power Statistics)

5. 발전 연료 소비량

	합계		석 탄 Coal					
	Total		소계 Subtotal			무 연 탄 Anthracite		
	소비량 Consumption	점유율 Ratio	소비량 Consumption		점유율 Ratio	소비량 Consumption		점유율 Ratio
	1,000 toe	(%)	M/T	1,000 toe	(%)	M/T	1,000 toe	(%)
1981	9,579	100.0	1,721,997	703	7.3	1,721,997	703	7.3
1982	10,189	100.0	1,856,603	720	7.1	1,856,603	720	7.1
1983	11,568	100.0	2,622,818	1,114	9.6	2,077,163	776	9.6
1984	12,735	100.0	6,196,200	3,162	24.8	2,480,996	876	6.9
1985	13,828	100.0	7,921,198	4,151	30.0	2,274,029	774	5.6
1986	15,627	100.0	7,941,931	4,271	27.3	1,896,261	649	4.1
1987	18,096	100.0	7,205,920	3,739	20.7	2,173,164	727	4.0
1988	20,701	100.0	8,969,282	4,654	22.5	2,597,736	885	4.3
1989	22,897	100.0	8,280,161	4,372	19.1	2,367,043	819	3.6
1990	26,055	100.0	8,529,283	4,603	17.7	2,013,268	704	2.7
1991	28,582	100.0	8,538,869	4,638	16.2	1,977,676	690	2.4
1992	31,362	100.0	9,217,102	5,106	16.3	2,008,494	790	2.5
1993	34,253	100.0	12,543,851	7,098	20.7	2,283,630	944	2.7
1994	38,525	100.0	16,147,950	9,468	24.6	2,179,638	952	2.5
1995	43,272	100.0	18,631,970	11,021	25.5	2,429,275	1,102	2.6
1996	47,971	100.0	21,461,439	12,745	26.6	2,513,738	1,155	2.4
1997	52,221	100.0	25,011,741	14,979	28.7	2,304,699	1,066	2.0
1998	49,486	100.0	28,206,782	16,749	33.8	2,527,301	1,174	2.3
1999	54,863	100.0	30,812,524	18,089	33.0	2,596,945	1,202	2.2
2000	60,993	100.0	36,216,533	21,504	35.3	2,848,015	1,293	2.1
2001	65,147	100.0	40,794,652	24,310	37.3	2,875,286	1,312	2.0
2002	69,606	100.0	43,061,763	25,960	37.3	2,750,542	1,261	1.8
2003	73,411	100.0	44,457,391	26,560	36.2	2,879,676	1,331	1.8
2004	76,974	100.0	47,926,692	27,971	36.3	2,411,721	1,131	1.5
2005	82,513	100.0	50,296,834	29,394	35.6	2,359,492	1,092	1.3
2006	85,104	100.0	52,603,606	30,561	35.9	2,345,136	1,069	1.2
2007	83,860	100.0	58,342,192	33,935	40.5	2,392,411	1,087	1.3
2008	87,480	100.0	65,772,104	37,991	43.4	2,534,021	1,205	1.4
2009	89,528	100.0	73,782,646	42,155	47.1	2,690,328	1,235	1.4
2010	96,512	100.0	78,807,044	43,513	45.1	2,404,050	1,071	1.1
2011	99,268	100.0	81,512,968	44,168	44.5	1,658,801	783	0.8
2012	99,913	100.0	80,601,345	42,923	43.0	1,796,721	853	0.9
2013	101,572	100.0	80,488,469	44,666	44.7	1,728,664	940	0.9
2014	96,909	100.0	79,731,844	44,769	46.2	2,043,992	1,134	1.2
2015	94,858	100.0	81,558,142	45,754	48.2	2,125,486	1,213	1.3
2016	94,517	100.0	80,573,360	44,915	47.5	2,528,364	1,407	1.5
2017	94,392	100.0	90,296,155	49,465	52.4	1,078,762	581	0.6
2018	92,789	100.0	90,540,880	48,640	52.4	991,627	522	0.6
2019	91,057	100.0	84,486,191	46,471	51.0	1,164,840	603	0.7
2020	87,767	100.0	70,065,113	38,539	43.9	971,161	503	0.6
2021	89,007	100.0	67,777,536	37,282	41.9	899,642	466	0.5

주: 원자력, 수력은 발전량 기준임

자료: www.kepco.co.kr (한국전력통계)

5. Fuel Consumption for Generation

석탄 Coal			석유 Petroleum						
유연탄 Bituminous Coal			소계 Subtotal			방카C유 Bunker-C			
소비량 Consumption		점유율 Ratio	소비량 Consumption		점유율 Ratio	소비량 Consumption		점유율 Ratio	
M/T	1,000 toe	(%)	kℓ	1,000 toe	(%)	kℓ	1,000 toe	(%)	
-	-	-	7,596,508	7,475	78.0	7,092,164	6,994	73.0	1981
-	-	-	8,140,409	8,042	78.8	7,425,802	7,327	71.9	1982
545,655	338	2.9	7,632,873	7,531	65.1	6,926,560	6,841	59.2	1983
3,715,204	2,286	18.0	6,114,016	6,025	47.3	5,460,617	5,391	42.3	1984
5,647,169	3,376	24.0	4,639,173	4,576	33.1	4,349,166	4,296	31.1	1985
6,045,670	3,621	23.2	3,267,275	3,216	20.6	2,869,139	2,828	18.1	1986
5,032,756	3,012	16.6	1,247,497	1,220	6.7	7,929,195	913	5.0	1987
6,371,546	3,769	18.2	2,736,533	2,687	13.0	2,124,308	2,091	10.1	1988
5,913,118	3,553	15.5	3,458,676	3,398	14.8	2,846,370	2,804	12.2	1989
6,516,015	3,899	15.0	4,482,279	4,398	16.9	3,643,426	3,592	13.8	1990
6,561,193	3,948	13.8	6,386,732	6,280	22.0	4,895,177	4,831	16.9	1991
7,208,608	4,316	13.8	8,166,462	8,004	25.5	5,517,119	5,442	17.4	1992
10,260,221	6,154	18.0	7,961,710	7,828	22.9	5,611,726	5,534	16.2	1993
13,968,312	8,516	22.1	9,184,676	9,016	23.4	6,509,197	6,415	16.7	1994
16,202,695	9,919	22.9	9,686,754	9,465	21.9	6,467,208	6,369	14.7	1995
18,947,701	11,590	24.2	9,807,908	9,416	19.6	6,095,098	5,913	12.3	1996
22,707,042	13,913	26.7	9,880,476	9,604	18.4	5,513,752	5,422	10.3	1997
25,679,481	15,575	31.5	3,404,219	3,320	6.7	2,276,328	2,235	4.5	1998
28,215,579	16,887	30.8	3,348,422	3,268	6.0	2,730,231	2,685	4.9	1999
33,368,518	20,211	33.1	5,086,067	4,993	8.2	4,297,082	4,231	6.9	2000
37,919,366	22,998	35.3	5,604,382	5,539	8.5	4,926,551	4,877	7.5	2001
40,311,221	24,699	35.5	4,804,957	4,751	6.8	4,455,276	4,429	6.4	2002
41,577,715	25,229	34.4	5,054,789	4,912	6.7	4,267,870	4,189	5.7	2003
45,514,971	26,842	34.8	4,339,836	4,162	5.4	3,681,635	3,538	4.6	2004
47,937,342	28,303	34.3	4,167,583	4,005	4.8	3,578,026	3,445	4.2	2005
50,258,470	29,492	34.7	3,789,478	3,735	4.4	3,547,138	3,511	4.1	2006
55,949,781	32,848	39.2	4,018,927	3,995	4.8	3,899,079	3,888	4.6	2007
63,238,083	36,783	42.1	2,141,528	2,122	2.4	2,034,572	2,027	2.3	2008
71,092,318	40,959	45.7	3,055,850	3,024	3.4	2,943,672	2,926	3.3	2009
76,402,994	42,438	44.0	2,824,346	2,804	2.9	2,693,701	2,687	2.8	2010
79,854,167	43,382	43.7	2,174,197	2,158	2.2	2,050,365	2,050	2.1	2011
78,804,624	39,855	39.9	3,412,819	3,321	3.3	3,272,119	3,196	3.2	2012
78,759,805	43,726	43.8	3,550,813	3,521	3.5	3,401,690	3,389	3.4	2013
77,687,852	43,635	45.0	1,692,083	1,667	1.7	1,581,186	1,570	1.6	2014
79,432,656	44,541	47.0	1,962,050	1,955	2.1	1,850,640	1,856	2.0	2015
78,044,996	43,508	46.0	2,938,724	2,866	3.0	2,783,521	2,719	2.9	2016
89,217,393	48,883	51.8	1,101,446	1,084	1.1	927,885	928	1.0	2017
89,549,253	48,118	51.9	1,228,356	1,212	1.3	1,013,229	1,020	1.1	2018
83,321,351	45,868	50.4	684,493	648	0.7	361,925	360	0.4	2019
69,093,952	38,036	43.3	451,951	433	0.3	283,175	282	0.3	2020
66,877,894	36,816	41.4	497,710	474	0.5	290,828	290	0.3	2021

Note : Nuclear and Hydro are based on generation
Source : www.kepco.co.kr (Statistics of Electric Power in Korea)

5. 발전 연료 소비량(계속)

	석 유 Petroleum								
	기타종유 Others			경 유 Diesel oil			나프타 Naphtha		
	소비량 Consumption		점유율 Ratio	소비량 Consumption		점유율 Ratio	소비량 Consumption		점유율 Ratio
	kℓ	1,000 toe	%	kℓ	1,000 toe	%	kℓ	1,000 toe	%
1981	416,985	411	4.3	77,358	70	0.7	-	-	-
1982	617,647	609	6.0	97,439	88	0.9	3,221 ¹	3	-
1983	599,530	592	5.1	106,783	97	0.8	2,098 ¹	2	-
1984	518,905	512	4.0	134,494	121	1.0	-	-	-
1985	202,827	200	1.4	87,180	80	0.6	-	-	-
1986	320,265	316	2.0	77,870	72	0.5	1,306 ²	1	-
1987	243,076	239	1.3	75,226	68	0.4	-	-	-
1988	525,150	517	2.5	87,075	79	0.4	-	-	-
1989	499,474	492	2.1	112,832	102	0.4	-	-	-
1990	582,788	575	2.2	256,065	231	0.9	-	-	-
1991	1,216,759	1,201	4.2	274,796	248	0.9	-	-	-
1992	2,026,861	1,999	6.4	622,482	563	1.8	-	-	-
1993	2,023,813	1,996	5.8	326,171	298	0.9	-	-	-
1994	2,237,542	2,205	5.7	437,937	396	1.0	-	-	-
1995	2,286,132	2,251	5.2	933,414	845	2.0	-	-	-
1996	2,100,710	2,038	4.2	1,612,100	1,465	3.1	-	-	-
1997	2,795,692	2,749	5.2	1,571,032	1,433	2.9	-	-	-
1998	822,384	807	1.6	305,507	278	0.6	-	-	-
1999	292,767	288	0.5	325,424	295	0.6	-	-	-
2000	597,913	589	1.0	191,073	173	0.3	-	-	-
2001	570,701	565	0.9	107,130	97	0.1	-	-	-
2002	72,649	72	0.1	277,032	250	0.3	-	-	-
2003	148,614	146	0.2	638,305	577	0.8	-	-	-
2004	518,815	499	0.6	139,386	125	0.2	-	-	-
2005	472,999	455	0.5	116,558	105	0.1	-	-	-
2006	86,265	85	0.1	156,075	139	0.2	-	-	-
2007	-	-	-	119,848	107	0.1	-	-	-
2008	28	0	0.0	106,928	94	0.1	-	-	-
2009	-	-	-	112,178	98	0.1	-	-	-
2010	16,958	17	0.0	113,687	100	0.1	-	-	-
2011	-	-	-	123,832	109	0.1	-	-	-
2012	-	-	-	140,700	125	0.1	-	-	-
2013	-	-	-	149,123	132	0.1	-	-	-
2014	-	-	-	110,897	97	0.1	-	-	-
2015	-	-	-	111,411	99	0.1	-	-	-
2016	-	-	-	155,203	147	0.2	-	-	-
2017	-	-	-	173,561	156	0.2	-	-	-
2018	-	-	-	215,128	192	0.2	-	-	-
2019	-	-	-	322,568	288	0.3	-	-	-
2020	-	-	-	168,777	151	0.2	-	-	-
2021	-	-	-	206,882	185	0.2	-	-	-

1. 코크스 소비실적

2. C.O.M 소비실적

5. Fuel Consumption for Generation(Continued)

액화천연가스 L N G			원 자 력 Nuclear		수 력 Hydro		
소비량 Consumption		점유율 Ratio	소비량 Consumption	점유율 Ratio	소비량 Consumption	점유율 Ratio	
ton	1,000 toe	%	1,000 toe	%	1,000 toe	%	
-	-	-	724	7.6	677	7.1	1981
-	-	-	944	9.3	501	4.9	1982
-	-	-	2,241	19.4	681	5.9	1983
-	-	-	2,948	23.2	600	4.7	1984
-	-	-	4,186	30.3	915	6.6	1985
44,649	58	0.4	7,078	45.3	1,005	6.4	1986
1,525,409	1,972	10.9	9,829	54.3	1,336	7.4	1987
1,888,394	2,445	11.8	10,025	48.4	892	4.3	1988
1,648,197	2,146	9.4	11,841	51.7	1,139	5.0	1989
1,718,700	2,242	8.6	13,222	50.7	1,590	6.1	1990
1,779,890	2,323	8.1	14,078	49.3	1,263	4.4	1991
2,224,518	2,903	9.3	14,133	45.1	1,216	3.9	1992
2,517,921	3,290	9.6	14,535	42.4	1,502	4.4	1993
3,329,257	4,354	11.3	14,663	38.1	1,024	2.6	1994
3,562,048	4,659	10.8	16,757	38.7	1,370	3.2	1995
4,622,368	6,029	12.6	18,481	38.5	1,300	2.7	1996
5,376,576	7,015	13.4	19,272	36.9	1,351	2.6	1997
4,189,314	5,470	11.1	22,422	45.3	1,525	3.1	1998
4,766,708	6,223	11.3	25,766	47.0	1,517	2.7	1999
4,491,013	5,852	9.6	27,241	44.7	1,403	2.3	2000
4,790,808	6,241	9.6	28,033	43.0	1,038	1.6	2001
5,983,120	7,792	11.2	29,776	42.8	1,327	1.9	2002
5,995,742	7,802	10.6	32,415	44.2	1,722	2.3	2003
8,220,852	10,697	13.9	32,679	42.5	1,465	1.9	2004
8,537,926	11,122	13.5	36,695	44.5	1,297	1.6	2005
9,466,086	12,317	14.5	37,187	43.7	1,305	1.5	2006
10,828,751	14,114	16.8	30,732	36.6	1,084	1.3	2007
10,515,372	13,715	15.7	32,456	37.1	1,196	1.4	2008
8,596,732	11,365	12.7	31,771	35.5	1,213	1.4	2009
12,914,479	16,857	17.5	31,948	33.1	1,391	1.4	2010
13,609,052	17,993	18.1	33,265	33.5	1,684	1.7	2011
15,320,734	20,336	20.4	31,719	31.7	1,615	1.6	2012
17,004,866	22,330	22.3	29,283	29.3	1,771	1.8	2013
12,497,193	15,821	16.3	33,002	34.1	1,650	1.7	2014
8,763,724	11,161	11.8	34,765	36.6	1,223	1.3	2015
8,283,596	11,156	11.8	34,181	36.2	1,400	1.5	2016
8,161,279	10,738	11.4	31,615	33.5	1,490	1.6	2017
9,889,858	12,952	14.0	28,437	30.6	1,549	1.7	2018
8,890,733	11,528	12.7	31,079	34.1	1,331	1.5	2019
10,144,036	13,153	14.8	34,119	38.3	1,523	1.7	2020
12,461,751	16,159	18.2	33,657	37.8	1,435	1.6	2021

1. Cokes Consumption

2. C.O.M(coal and oil mixture) Consumption

6. 화력 발전소 열효율

단위: %

	합계 Total		한전, 자회사 Total of KEPCO & Subsidiaries		기 력 Thermal					
					소계 Subtotal		무연탄 Anthracite coal		유연탄 Bituminous Coal	
	발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net
1981	36.39	34.41	36.39	34.44	36.40	34.35	31.00	-	0.00	0.00
1982	36.73	34.85	36.73	34.88	36.74	34.89	31.22	-	0.00	0.00
1983	36.96	38.94	36.98	34.99	37.01	35.02	32.07	-	36.83	0.00
1984	37.07	35.00	37.08	35.02	37.11	35.05	32.38	-	38.08	0.00
1985	36.98	34.85	37.00	34.87	37.02	34.90	32.00	-	37.63	0.00
1986	36.80	34.66	36.80	34.67	36.82	34.69	31.72	-	37.67	0.00
1987	36.26	34.11	36.26	34.12	36.28	34.14	31.83	-	37.69	0.00
1988	36.68	34.62	36.67	34.63	36.70	34.65	31.63	-	37.93	0.00
1989	36.80	34.73	36.81	34.75	36.84	34.76	31.61	-	38.17	0.00
1990	36.99	34.95	37.02	34.98	37.07	35.01	32.19	-	38.22	0.00
1991	36.93	34.92	36.95	34.95	36.97	34.94	32.05	-	38.26	0.00
1992	36.73	34.86	36.74	34.86	36.93	34.94	31.92	-	38.15	0.00
1993	37.34	35.47	37.35	35.48	37.11	35.11	31.98	-	38.19	0.00
1994	38.16	36.42	38.20	36.46	37.52	35.63	32.02	-	38.61	0.00
1995	38.14	36.47	38.22	36.54	37.61	35.74	32.05	29.48	38.69	36.91
1996	38.21	36.60	38.37	36.77	37.79	35.97	32.77	30.20	38.94	37.21
1997	38.38	36.82	38.73	37.11	38.05	36.23	33.18	30.50	38.99	37.25
1998	39.45	37.81	39.48	37.81	38.41	36.57	33.47	30.58	39.17	37.44
1999	39.51	37.73	39.52	37.73	38.40	36.39	33.99	30.33	39.06	37.21
2000	39.45	37.64	39.45	37.63	38.59	36.60	34.48	30.91	39.25	37.43
2001	39.57	37.80	39.52	37.72	38.67	36.73	33.93	30.37	39.30	37.51
2002	39.96	38.26	39.87	38.12	38.78	36.86	34.66	31.11	39.30	37.52
2003	39.94	38.23	39.86	38.12	38.67	36.76	34.51	30.93	39.16	37.40
2004	40.66	38.96	40.62	38.88	38.82	36.83	34.74	30.80	39.25	37.46
2005	40.70	38.98	40.62	38.86	38.87	36.88	34.94	30.89	39.26	37.41
2006	40.97	39.30	40.83	39.11	38.90	36.96	34.59	31.41	39.31	37.44
2007	40.90	39.21	40.79	39.06	38.93	36.99	34.86	31.64	39.36	37.49
2008	40.84	39.14	40.67	38.93	39.10	37.14	35.26	32.19	39.45	37.54
2009	40.55	38.79	40.46	38.67	39.24	37.29	37.24	34.07	39.46	37.56
2010	40.83	39.14	40.67	38.94	38.91	36.95	34.71	31.75	39.33	37.41
2011	40.44	38.75	40.51	38.76	38.62	36.63	35.58	32.54	38.96	37.04
2012	40.48	38.86	40.57	38.82	38.53	36.55	38.55	35.26	38.75	36.83
2013	39.55	37.94	40.06	38.29	38.29	36.32	34.93	31.97	38.64	36.72
2014	41.25	39.50	40.71	38.87	38.79	36.76	36.26	33.05	38.94	36.97
2015	40.92	38.62	39.97	38.07	38.39	36.37	34.99	31.91	38.55	36.54
2016	39.79	37.92	39.33	37.40	37.99	35.94	35.24	32.11	38.12	36.11
2017	39.82	37.90	39.50	37.51	38.66	36.56	35.32	32.06	38.79	36.72
2018	40.82	38.88	40.21	38.25	38.94	36.84	35.75	32.36	39.03	36.95
2019	40.70	38.71	39.88	37.88	38.78	36.65	36.40	32.77	38.84	36.73
2020	41.14	39.20	40.16	38.11	38.84	36.64	36.05	32.34	38.91	36.73
2021	41.53	39.62	40.50	38.48	38.81	36.56	34.53	30.87	38.91	36.68

주: 1987년부터 지역난방 열공급실적 포함

자료: www.kepco.co.kr (한국전력통계)

6. Thermal Plant Efficiency

Unit: %

기 력 Thermal								타 사 Other Co.		
중 유 Heavy Oil		액화천연가스 LNG		복합화력 Combined Cycle		내연력 Internal-Combustion				
발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net	
37.38	35.49	-	-	36.69	34.71	31.27	28.24	36.34	33.86	1981
37.72	35.95	-	-	36.49	34.76	33.18	30.44	36.54	34.27	1982
38.08	36.26	-	-	33.14	31.30	33.12	31.21	36.38	33.96	1983
38.07	36.33	-	-	30.50	27.44	33.41	31.03	35.64	32.96	1984
38.21	36.47	-	-	28.84	24.05	34.66	33.00	35.44	31.87	1985
37.73	35.97	-	-	29.78	24.22	36.55	35.25	35.74	33.06	1986
35.72	33.41	36.64	35.20	27.91	24.05	37.76	36.43	36.10	33.36	1987
38.04	35.90	36.71	35.23	32.06	29.86	36.40	35.25	36.69	34.38	1988
38.25	36.09	36.65	35.13	33.80	31.72	35.86	34.87	36.49	34.32	1989
37.90	35.66	37.01	35.55	36.03	34.82	33.30	32.45	36.30	34.13	1990
37.43	35.27	36.88	35.45	36.50	35.34	36.38	35.41	36.16	34.08	1991
37.36	35.23	37.16	35.78	34.61	33.75	38.53	37.49	36.63	34.84	1992
37.26	35.19	37.54	36.30	39.30	38.29	36.87	35.96	36.62	34.74	1993
37.62	35.75	35.45	34.13	42.35	41.38	32.00	31.34	36.61	34.81	1994
37.66	35.75	36.94	35.35	41.46	40.60	29.97	29.38	35.29	33.77	1995
37.45	35.62	36.79	35.16	39.89	39.13	32.30	31.59	33.26	32.06	1996
37.73	35.90	36.12	34.43	41.39	40.50	33.67	32.87	31.73	31.14	1997
37.22	35.27	36.30	34.73	43.97	43.04	36.30	35.27	38.48	37.59	1998
37.35	35.32	36.07	34.48	44.09	43.19	34.60	33.57	38.69	37.53	1999
37.45	35.30	35.68	34.01	44.15	43.22	37.20	35.79	39.32	38.07	2000
37.71	35.64	35.42	33.68	45.07	44.15	39.87	38.33	41.01	40.14	2001
37.59	35.42	36.10	34.50	45.56	44.68	40.09	38.64	42.10	41.33	2002
37.58	35.36	36.37	34.67	45.71	44.80	39.74	38.19	41.75	40.96	2003
37.40	34.80	36.09	34.28	47.19	46.33	39.11	37.57	41.75	40.97	2004
37.55	35.22	36.45	34.56	47.13	46.26	40.03	38.19	42.44	41.55	2005
37.44	35.39	35.47	33.76	47.52	46.63	40.02	37.86	44.00	43.33	2006
37.25	35.16	35.55	33.91	46.45	45.47	40.67	38.31	43.01	42.11	2007
36.68	34.50	35.40	33.97	46.10	45.24	40.39	38.09	43.75	42.92	2008
37.60	35.77	35.27	33.99	46.74	45.63	41.08	38.78	42.49	41.67	2009
36.40	34.34	35.10	33.71	46.45	45.55	40.58	30.35	43.64	42.73	2010
35.83	33.59	34.92	33.55	47.30	46.40	41.14	39.01	39.43	38.68	2011
36.27	34.09	36.24	34.80	47.73	46.81	41.11	39.01	42.94	42.10	2012
36.26	34.06	36.06	34.83	45.42	44.30	41.20	38.95	36.04	35.50	2013
38.55	36.31	34.21	32.70	48.24	47.13	43.40	41.19	47.66	46.91	2014
38.94	36.86	35.27	33.70	50.21	49.07	40.35	41.18	48.31	47.09	2015
38.09	36.03	30.46	28.89	47.53	46.38	39.41	36.70	48.15	47.18	2016
36.55	34.20	35.32	33.91	46.16	45.13	38.80	33.73	44.30	43.40	2017
37.44	35.04	-	-	47.65	46.60	37.96	35.82	48.99	47.33	2018
35.77	33.66	-	-	46.94	45.84	40.56	38.41	51.02	49.07	2019
36.08	33.64	35.89	34.56	47.01	45.77	38.28	35.80	49.41	48.34	2020
35.78	33.37	35.56	34.19	47.05	45.96	38.62	36.30	49.85	48.73	2021

Note : Including decreased power due to heat supply to district heat plants from 1987
Source : www.kepco.co.kr (Statistics of Electric Power in Korea)

7. 송배전 손실

	송전단전력량(A) Net Generation	송 변 전 손 실 Transmission & Substation Loss		배 전 Distribution 손실량(C) Loss
		손실량(B) Loss	손실율(B/A) Loss rate	
	MWh	MWh	%	MWh
1981	37,950,201	1,497,037	3.95	1,028,709
1982	40,554,656	1,618,593	3.99	1,056,437
1983	45,494,797	1,654,124	3.64	1,220,288
1984	50,237,757	1,876,982	3.73	1,309,638
1985	53,908,278	1,774,207	3.29	1,401,975
1986	59,818,134	1,971,711	3.30	1,536,899
1987	68,274,720	2,454,190	3.59	1,651,446
1988	78,855,492	2,688,533	3.41	1,849,233
1989	87,512,175	2,992,296	3.42	2,328,018
1990	100,002,741	3,241,555	3.24	2,377,894
1991	110,571,199	3,493,017	3.16	2,704,160
1992	122,308,820	4,104,765	3.36	2,960,077
1993	135,272,537	4,320,073	3.19	3,218,541
1994	155,218,428	4,912,238	3.16	3,765,691
1995	172,693,293	5,786,564	3.35	3,636,435
1996	192,882,960	6,297,934	3.27	4,114,653
1997	211,028,738	6,391,185	3.03	3,853,926
1998	203,430,303	6,542,247	3.22	3,417,718
1999	225,802,022	7,282,489	3.23	3,997,622
2000	251,953,275	7,492,964	2.97	4,378,227
2001	269,842,046	7,545,874	2.80	4,594,565
2002	290,058,444	7,908,462	2.73	5,086,021
2003	305,644,685	8,318,184	2.72	5,221,053
2004	324,885,244	8,865,825	2.73	5,624,621
2005	346,207,398	9,658,412	2.79	5,956,356
2006	363,053,968	6,793,719	1.87	7,793,508
2007	384,693,240	6,683,351	1.74	8,661,810
2008	401,726,293	7,479,407	1.86	8,626,969
2009	411,631,123	6,873,181	1.67	9,896,559
2010	451,432,992	7,288,944	1.61	10,745,293
2011	472,650,336	7,209,896	1.53	10,220,487
2012	484,334,191	7,640,896	1.58	9,650,608
2013	491,002,788	7,830,681	1.59	10,480,430
2014	494,716,613	7,841,759	1.59	10,428,653
2015	499,239,421	7,953,844	1.59	10,025,366
2016	514,118,988	8,181,614	1.59	10,293,228
2017	525,710,752	8,352,731	1.59	10,437,366
2018	543,231,596	8,619,366	1.59	10,739,989
2019	536,197,809	8,445,564	1.58	10,554,911
2020	525,850,762	8,278,987	1.57	10,330,984
2021	549,623,783	8,651,079	1.57	10,773,139

주: 송전단은 양수전력량 제외분임

자료: www.kepco.co.kr (한국전력통계)

7. Transmission and Distribution Loss

손실 Losses	판매량(D)	총 손실 Total Loss		
손실율(C/(A-B)) Loss rate	Power Sold	손실량(A-D) Loss	손실율((A-D)/A) Loss rate	
%	MWh	MWh	%	
2.71	35,424,455	2,525,746	6.66	1981
2.61	37,879,626	2,675,030	6.60	1982
2.68	42,620,384	2,874,412	6.32	1983
2.61	47,051,137	3,186,620	6.34	1984
2.60	50,732,095	3,176,183	5.89	1985
2.57	56,309,525	3,508,609	5.87	1986
2.42	64,169,084	4,105,636	6.01	1987
2.34	74,317,726	4,537,766	5.75	1988
2.66	82,191,862	5,320,313	6.08	1989
2.38	94,383,292	5,619,450	5.62	1990
2.44	104,374,022	6,197,177	5.60	1991
2.42	115,243,978	7,064,842	5.78	1992
2.38	127,733,923	7,538,614	5.57	1993
2.43	146,540,499	8,677,929	5.59	1994
2.11	163,270,294	9,422,999	5.46	1995
2.13	182,470,373	10,412,587	5.40	1996
1.83	200,783,627	10,245,111	4.85	1997
1.68	193,470,338	9,959,965	4.90	1998
1.83	214,521,910	11,280,111	5.00	1999
1.79	240,082,085	11,871,190	4.71	2000
1.75	257,701,607	12,140,439	4.50	2001
1.80	277,063,960	12,994,484	4.48	2002
1.76	292,105,448	13,539,237	4.43	2003
1.78	310,394,798	14,490,446	4.46	2004
1.77	330,592,630	15,614,768	4.51	2005
2.19	348,466,741	14,587,227	4.02	2006
2.29	369,348,078	15,345,161	3.99	2007
2.19	385,619,917	16,106,376	4.01	2008
2.45	394,861,383	16,769,740	4.07	2009
2.42	433,398,756	18,034,236	3.99	2010
2.20	455,219,953	17,430,383	3.69	2011
2.02	467,042,687	17,291,504	3.57	2012
2.17	472,691,677	18,311,111	3.73	2013
2.14	476,446,201	18,270,412	3.69	2014
2.04	481,260,212	17,979,210	3.60	2015
2.03	495,644,146	18,474,842	3.59	2016
2.02	506,920,655	18,790,097	3.57	2017
2.01	523,872,241	19,359,355	3.56	2018
2.00	517,197,335	19,000,475	3.54	2019
2.00	507,240,791	18,609,971	3.54	2020
1.99	530,199,565	19,424,218	3.53	2021

Note: Except net generation in pumping storage power
Source: www.kepco.co.kr (Statistics of electric power in Korea)

8. 산업분류별 전력 소비량

단위: GWh

		1981		1990		2000		2010	
			%		%		%		%
합계	Total	35,424	100.0	94,383	100.0	239,535	100.0	434,160	100.0
가정용	Residential	5,934	16.8	17,735	18.8	37,102	15.5	61,194	14.1
공공용	Public	1,310	3.7	3,291	3.5	8,663	3.6	19,872	4.6
서비스	Service	3,422	9.7	13,097	13.9	59,473	24.8	127,732	29.4
전기사업자	Electricity	43	0.1	96	0.1	296	0.1	2,227	0.5
수도	Water	1,280	3.6	2,589	2.7	4,526	1.9	4,886	1.1
상가 및 기타	Commercial & Others	2,099	5.9	10,412	11.0	54,651	22.8	120,619	26.5
수송(전철)	Transport (Electric Railway)	462	1.3	1,012	1.1	2,037	0.9	2,191	0.5
산업	Industry	24,296	68.6	59,248	62.8	132,260	55.2	223,171	49.0
농림어업	Agri.-Fishery	255	0.7	1,458	1.5	5,306	2.2	10,042	2.3
광업	Mining	715	2.0	1,011	1.1	1,003	0.4	1,683	0.4
제조업	Total Manuf.	23,325	65.8	56,779	60.2	125,952	52.6	211,447	48.7
식료품	Food, beverage	1,532	4.3	3,540	3.8	6,149	2.6	8,737	2.0
섬유·의복	Textile, clothes	4,854	13.7	9,505	10.1	15,497	6.5	12,362	2.9
목재·나무	Lumber, wood	347	1.0	623	0.7	1,137	0.5	1,754	0.4
펄프·인쇄	Pulp, printing	1,590	4.5	3,877	4.1	8,843	3.7	10,019	2.3
석유·화학	Petroleum, chemistry	4,518	12.8	10,922	11.6	26,899	11.2	43,213	10.0
요업	Ceramic industry	2,642	7.5	5,633	6.0	8,981	3.8	11,620	2.7
1차금속	Basic Metal	4,945	14.0	10,064	10.7	23,751	9.9	41,834	9.6
기계·장비	Machinery Equipment	2,666	7.5	12,091	12.8	32,997	13.8	79,490	18.3
기타	Others	231	0.7	525	0.6	1,697	0.7	2,418	0.6

자료: www.kepco.co.kr (한국전력통계)

8. Electricity Consumption by Industry

		2019		2020		2021	
			%		%		%
합계	Total	520,498.7	100.0	509,270	100.0	533,431	100.0
가정용	Residential	70,455.4	13.5	74,074	14.5	77,558	15.2
공공용	Public	24,458.1	4.7	23,623	4.6	25,026	4.9
서비스업 및 기타	Service	148,311	28.5	144,444	28.4	148,182	29.1
산업	Industry	277,275	53.3	267,129	52.5	282,665	55.5
농림어업	Agri.-Fishery	17,305	3.3	17,037	3.3	18,496	3.6
광업	Mining	1,493	0.3	1,552	0.3	1,807	0.4
제조업	Total Manuf.	258,477	49.7	248,540	48.8	262,362	51.5
식품	Food	10,933	2.1	11,534	2.3	12,114	2.4
음료	Beverages	1,135	0.2	1,167	0.2	1,229	0.2
담배	Tobacco	195	0.0	201	0.0	194	0.0
섬유제품	Textiles, except apparel	8,665	1.7	7,654	1.5	8,166	1.6
의복, 액세서리, 모피제품	Wearing apparel, clothing accessories and fur articles	655	0.1	583	0.1	594	0.1
가죽, 가방, 신발	Leather, luggage and footwear	499	0.1	459	0.1	472	0.1
목재, 나무제품	Wood and of products of wood	1,742	0.3	1,703	0.3	1,761	0.3
펄프, 종이, 종이제품	Pulp, paper	8,040	1.5	7,853	1.5	8,010	1.6
인쇄, 기록매체	Printing and reproduction of recorded media	1,221	0.2	1,188	0.2	1,204	0.2
코크스, 연탄, 석유정제품	Coke, briquettes and refined petroleum products	13,360	2.6	12,550	2.5	13,281	2.6
화학물질, 화학제품	Chemicals and chemical products	40,187	7.7	38,342	7.5	41,256	8.1
의료용 물질, 의약품	Pharmaceuticals, medicinal chemical	2,347	0.5	2,499	0.5	2,676	0.5
고무제품, 플라스틱제품	Rubber and plastics products	8,884	1.7	8,679	1.7	9,473	1.9
비금속 광물제품	Other non-metallic mineral products	11,746	2.3	11,154	2.2	11,700	2.3
1차 금속	Basic metal	41,871	8.0	36,343	7.1	35,044	6.9
금속가공제품	Fabricated metal	8,952	1.7	8,409	1.7	8,764	1.7
전자, 영상, 음향, 컴퓨터, 통신장비	Electronic components, computer	51,983	10.0	53,311	10.5	57,788	11.3
의료, 정밀, 광학, 시계	Medical, precision and optical	4,095	0.8	3,843	0.8	4,144	0.8
전기장비	Electrical equipment	6,727	1.3	6,902	1.4	7,710	1.5
기타기계, 장비	Other machinery	10,327	2.0	10,169	2.0	11,131	2.2
자동차, 트레일러	Motor vehicles, trailers	17,452	3.4	16,489	3.2	17,983	3.5
기타 운송장비	Other transport equipment	4,281	0.8	4,170	0.8	4,103	0.8
가구	Furniture	655	0.1	673	0.1	702	0.1
기타 제품	Other manufacturing	2,450	0.5	2,589	0.5	2,781	0.5
산업기계, 장비수리	Maintenance and repair services	76	0.0	76	0.0	79	0.0

Source : www.kepco.co.kr (Statistics of Electric Power in Korea)

9. 종별 고객호수 및 판매 전력량

	고객호수 Number of Customers				계 약 용 량 Contracted Capacity
	합계 Total	전 등 Lighting		동 력 Power	
		주택용 Residential	가로등 Street lighting		
	호(Customers)				(kW)
1981	5,682,341	5,375,418	26,989	279,934	11,455,619
1982	5,985,146	5,662,899	28,314	293,933	11,934,397
1983	6,341,630	5,965,558	30,650	345,422	12,728,929
1984	6,621,304	6,248,193	34,709	338,402	13,843,572
1985	6,931,167	6,513,423	39,830	377,914	14,838,997
1986	7,298,666	6,819,129	44,334	435,203	16,350,311
1987	7,659,359	7,107,465	51,874	500,020	18,510,279
1988	8,109,627	7,447,643	65,961	596,023	21,128,962
1989	8,702,520	7,925,818	82,665	694,037	23,603,072
1990	9,315,211	8,402,039	113,069	800,103	27,445,800
1991	10,052,770	8,968,169	136,526	948,075	26,546,208
1992	10,747,587	9,416,246	167,777	1,163,564	30,577,482
1993	11,499,368	9,910,793	208,618	1,379,957	35,151,208
1994	12,160,982	10,309,485	278,021	1,573,476	39,933,277
1995	12,771,338	10,476,101	343,619	1,951,618	44,896,631
1996	13,329,502	10,812,846	370,239	2,146,417	50,069,757
1997	13,913,351	11,128,407	399,327	2,385,617	54,137,261
1998	14,102,163	11,160,467	427,212	2,514,484	53,909,512
1999	14,379,369	11,269,741	458,594	2,651,034	57,653,769
2000	14,975,793	11,510,731	482,790	2,982,272	62,117,938
2001	15,618,745	11,904,058	523,041	3,191,646	67,522,271
2002	16,490,026	12,427,392	551,238	3,511,396	72,219,358
2003	16,775,526	12,704,193	576,513	3,494,820	0
2004	17,061,591	12,156,544	612,218	3,596,338	-
2005	17,329,494	12,224,192	660,624	3,687,890	-
2006	17,624,836	12,280,190	712,278	3,800,247	-
2007	18,038,810	12,392,777	821,139	3,949,447	-
2008	18,419,048	12,553,340	883,533	4,062,127	-
2009	18,727,411	12,682,652	985,102	4,123,920	-
2010	19,229,450	12,904,238	1,117,657	4,275,608	-
2011	19,814,866	13,181,372	1,271,913	4,439,499	-
2012	20,475,899	13,514,464	1,398,414	4,652,872	-
2013	21,017,693	13,822,791	1,511,494	4,786,371	-
2014	21,532,269	14,117,408	1,604,510	4,927,881	-
2015	22,030,215	14,419,050	1,672,745	5,072,161	-
2016	22,552,719	14,728,391	1,751,669	5,225,847	-
2017	23,077,023	15,085,547	1,830,973	5,334,261	-
2018	23,501,542	15,317,045	1,918,848	5,464,537	-
2019	23,860,032	15,487,494	2,010,103	5,584,965	-
2020	24,198,304	15,609,631	2,130,215	5,706,405	-
2021	24,523,304	15,728,358	2,206,425	5,864,705	-

주: 동력은 일반용, 교육용, 산업용, 농사용을 포함

자료: www.kepco.co.kr (전력통계속보)

9. Electricity Sold and Customers by Tariff

판매전력량 Power Sold (MWh)					1인당 전력소비량 Consumption per Capita	
합계 Total	증 가 율 Growth Rate	전 등 Lighting		동 력 Power		
		주택용 Residential	가로등 Street lighting			
(MWh)	%	(MWh)			(kWh)	
35,424,455	8.2	5,577,038	67,547	29,779,870	915	1981
37,879,626	6.9	6,230,538	85,568	31,563,520	963	1982
42,620,384	12.5	7,355,577	101,509	35,163,298	1,068	1983
47,051,137	10.4	8,329,435	117,516	38,604,186	1,164	1984
50,732,095	7.8	9,180,700	160,097	41,391,298	1,243	1985
56,309,525	11.0	9,808,900	198,462	46,302,162	1,367	1986
64,169,084	14.0	10,886,765	246,937	53,035,162	1,543	1987
74,317,726	15.8	12,587,009	327,881	61,402,836	1,771	1988
82,191,862	10.6	14,475,818	402,309	67,313,737	1,939	1989
94,383,292	14.8	16,960,708	469,466	76,953,118	2,202	1990
104,374,022	10.6	18,614,385	508,743	85,250,895	2,412	1991
115,243,978	10.4	20,459,168	604,135	94,180,675	2,639	1992
127,733,923	10.8	21,854,842	820,746	105,058,335	2,899	1993
146,540,499	14.7	28,713,150	988,377	116,838,971	3,297	1994
163,270,294	11.4	30,303,082	1,108,064	131,859,147	3,640	1995
182,470,373	11.8	32,838,347	1,238,823	148,393,203	4,006	1996
200,783,627	10.0	35,101,434	1,381,925	164,300,269	4,366	1997
193,470,338	-3.6	35,352,823	1,419,829	156,697,685	4,167	1998
214,214,891	10.7	38,432,579	1,563,323	174,218,990	4,572	1999
239,535,486	11.8	44,968,217	1,759,253	192,808,015	5,067	2000
257,731,354	7.6	52,289,302	1,877,624	203,564,427	5,444	2001
278,451,371	8.0	58,469,488	2,075,944	217,905,939	5,845	2002
293,599,230	5.4	62,432,397	2,197,210	228,969,622	6,126	2003
312,095,586	6.3	49,513,298	2,367,077	244,238,826	6,491	2004
332,412,828	6.5	52,044,462	2,570,006	260,287,453	6,883	2005
348,719,371	4.9	53,912,272	2,687,040	273,302,435	7,191	2006
368,605,433	5.7	55,680,846	2,793,943	290,663,273	7,607	2007
385,070,137	4.5	57,877,514	2,847,241	304,954,394	7,922	2008
394,474,637	2.4	59,427,255	2,954,231	312,971,988	8,092	2009
434,160,228	10.1	63,199,602	3,081,490	348,189,080	8,883	2010
455,070,261	4.8	63,523,655	3,145,498	369,794,267	9,142	2011
466,592,949	2.5	65,483,733	3,158,091	380,331,187	9,331	2012
474,848,580	1.8	65,814,572	3,156,226	389,382,023	9,285	2013
477,591,701	0.6	64,457,263	3,221,008	395,255,557	9,305	2014
483,654,816	1.3	65,618,610	3,341,240	400,620,410	9,555	2015
497,038,904	2.8	68,056,786	3,462,314	412,103,978	9,699	2016
507,746,386	2.2	68,543,760	3,556,775	422,834,479	9,869	2017
526,149,162	3.6	72,894,709	3,582,649	437,114,210	10,195	2018
520,498,738	-1.1	72,638,868	3,571,475	432,909,737	10,039	2019
509,269,715	-2.2	76,303,405	3,506,999	418,842,969	9,826	2020
533,430,811	4.7	79,914,811	3,444,429	439,909,625	10,330	2021

Note: Power includes Public & Service, Educational, Industrial and Agricultural.
Source: www.kepco.co.kr (The Monthly Report on Major Electric Power Statistics)

10. 지역별 고객호수

단위: 호

	합계 Total	서울 Seoul	부산 Busan	대구 ¹ Daegu ¹	인천 ¹ Incheon ¹	광주 ¹ Gwangju ¹	대전 ¹ Daejeon ¹	울산 ¹ Ulsan ¹	경기 Gyeonggi	강원 Gangwon
1981	5,682,341	990,879	396,744	-	-	-	-	-	763,328	309,535
1982	5,985,146	1,068,990	425,802	-	-	-	-	-	831,866	320,671
1983	6,341,630	1,145,358	459,405	253,744	183,263	-	-	-	738,380	335,166
1984	6,621,304	1,213,212	492,515	269,816	206,910	-	-	-	788,010	348,994
1985	6,931,167	1,259,649	520,442	290,169	226,979	-	-	-	863,299	361,294
1986	7,298,666	1,342,557	549,211	309,141	246,681	-	-	-	959,669	375,248
1987	7,659,359	1,424,052	585,585	323,463	266,851	142,912	-	-	1,032,694	385,981
1988	8,109,627	1,489,835	625,406	346,296	299,938	164,246	-	-	1,125,343	401,446
1989	8,702,520	1,639,388	675,719	368,842	334,265	199,854	167,369	-	1,254,777	418,647
1990	9,315,211	1,770,712	713,862	390,717	381,098	216,450	176,065	-	1,392,777	433,639
1991	10,052,770	1,941,146	757,285	415,206	425,390	236,312	199,495	-	1,538,708	458,028
1992	10,747,587	2,088,448	812,701	437,575	452,350	259,521	223,958	-	1,656,005	472,668
1993	11,499,368	2,282,007	862,213	468,265	491,105	280,897	243,019	-	1,781,004	491,497
1994	12,160,982	2,384,055	925,589	499,091	524,633	313,360	260,105	-	1,914,773	516,574
1995	12,771,338	2,475,203	931,215	554,631	536,249	231,741	272,923	-	2,076,917	543,613
1996	13,329,502	2,562,005	988,174	600,402	624,680	344,918	285,437	-	2,145,396	563,441
1997	13,913,351	2,644,613	1,009,857	619,317	644,983	370,228	315,592	-	2,259,588	585,745
1998	14,102,163	2,677,494	1,020,617	631,034	650,902	367,181	316,585	-	2,319,637	600,194
1999	14,379,369	2,698,014	1,033,138	641,417	659,611	371,943	322,702	-	2,386,211	615,947
2000	14,975,793	2,723,669	1,049,126	664,243	685,359	374,421	334,325	281,441	2,496,014	648,109
2001	15,618,745	2,786,735	1,073,085	698,785	724,411	385,354	357,073	294,629	2,669,017	679,612
2002	16,490,026	2,899,136	1,104,808	734,517	782,931	402,934	387,741	309,300	2,869,292	707,824
2003	16,775,526	2,956,773	1,125,135	757,085	791,760	414,184	402,889	318,989	2,959,312	722,536
2004	17,061,591	2,977,662	1,134,704	766,034	793,050	417,432	410,397	324,666	3,037,348	741,187
2005	17,329,494	2,991,797	1,142,226	762,324	795,639	423,395	417,087	330,779	3,092,956	762,530
2006	17,624,836	3,004,520	1,144,447	765,031	799,902	430,007	422,353	335,854	3,159,117	786,952
2007	18,038,810	3,032,471	1,146,331	775,419	810,596	436,176	426,486	344,838	3,266,588	808,944
2008	18,419,048	3,036,105	1,147,170	785,574	823,213	443,834	432,523	353,728	3,364,828	832,089
2009	18,727,411	3,061,319	1,152,245	791,320	834,374	451,057	443,519	360,482	3,448,837	850,629
2010	19,229,450	3,127,242	1,168,269	800,585	862,705	462,672	465,250	372,924	3,547,389	868,928
2011	19,814,866	3,213,280	1,192,817	820,940	884,924	471,124	483,447	385,869	3,666,846	886,990
2012	20,475,899	3,297,656	1,217,929	839,322	905,425	484,454	504,791	401,743	3,784,921	908,906
2013	21,017,693	3,396,721	1,238,164	851,861	916,535	504,496	513,418	414,659	3,889,183	930,463
2014	21,532,269	3,441,223	1,252,737	870,345	936,198	516,639	522,331	427,835	3,998,459	950,946
2015	22,030,215	3,467,528	1,263,051	891,935	955,702	526,471	538,213	440,557	4,117,575	975,262
2016	22,552,719	3,506,464	1,270,512	918,572	978,238	531,637	556,529	450,632	4,248,808	1,000,910
2017	23,077,023	3,563,803	1,279,193	929,637	1,005,645	543,151	576,795	459,420	4,369,707	1,026,182
2018	23,501,542	3,605,300	1,282,195	941,398	1,020,655	545,480	584,853	465,067	4,482,784	1,062,000
2019	23,860,032	3,647,702	1,286,717	932,965	1,026,667	550,818	588,843	468,077	4,563,003	1,089,261
2020	24,198,304	3,692,337	1,287,766	933,257	1,032,731	553,028	591,180	470,696	4,615,521	1,112,938
2021	24,523,304	3,713,891	1,290,387	928,295	1,042,093	558,106	594,286	471,793	4,687,268	1,137,935

1. 1981~1982 인천은 경기, 대구는 경북에 포함

1981~1986 광주는 전남, 1981~1988 대전은 충남에 포함

1981~1999 울산은 경남에 포함

자료: www.kepco.co.kr (한국전력통계)

10. Customers by Region

Unit: Customers

충북 Chungbuk	충남 Chungnam	전북 Jeonbuk	전남 Jeonnam	경북 Gyeongbuk	경남 Gyeongnam	제주 Jeju	세종 Sejong	개성 Gaeseong	
248,927	500,068	383,292	625,017	825,789	563,483	75,279	-	-	1981
258,265	520,503	397,197	642,489	854,507	586,835	78,021	-	-	1982
267,292	538,115	413,956	671,407	634,404	619,256	81,884	-	-	1983
265,993	546,853	421,872	685,795	644,813	649,259	87,262	-	-	1984
277,700	568,658	430,003	704,609	660,128	676,684	91,553	-	-	1985
290,107	584,862	442,523	721,072	676,106	706,990	94,499	-	-	1986
303,898	604,486	455,181	603,070	695,039	737,338	98,809	-	-	1987
320,399	631,416	471,424	614,611	729,775	784,635	104,857	-	-	1988
335,983	495,233	492,284	613,564	757,348	838,844	110,403	-	-	1989
357,162	523,487	504,258	633,153	797,699	905,669	118,463	-	-	1990
383,413	551,222	526,071	662,433	838,110	994,092	125,859	-	-	1991
413,099	572,417	550,825	695,520	887,910	1,087,311	137,279	-	-	1992
444,013	602,491	577,084	734,563	932,755	1,162,137	146,318	-	-	1993
473,360	634,181	600,284	765,911	972,791	1,221,100	155,175	-	-	1994
522,129	685,374	641,639	818,002	1,028,506	1,285,696	167,500	-	-	1995
534,930	705,031	642,202	829,920	1,010,690	1,315,572	176,704	-	-	1996
599,950	740,094	670,079	858,186	1,046,942	1,363,077	185,100	-	-	1997
572,056	757,591	675,238	867,812	1,067,153	1,388,080	190,589	-	-	1998
588,106	778,604	689,342	884,312	1,092,578	1,419,395	198,049	-	-	1999
632,774	818,080	766,004	927,447	1,179,324	1,188,615	206,842	-	-	2000
672,851	864,016	765,857	961,552	1,234,125	1,234,759	216,884	-	-	2001
710,595	915,748	850,377	1,004,440	1,296,355	1,285,153	228,875	-	-	2002
720,825	918,493	841,139	986,405	1,313,240	1,306,492	240,269	-	-	2003
735,903	942,950	851,423	998,130	1,345,213	1,336,161	249,331	-	-	2004
754,380	974,323	865,105	1,020,908	1,375,853	1,365,303	254,889	-	-	2005
774,536	1,005,607	886,495	1,036,400	1,416,085	1,396,399	261,131	-	-	2006
795,998	1,044,357	905,310	1,077,482	1,471,397	1,430,566	265,851	-	-	2007
820,888	1,076,938	926,633	1,106,823	1,524,494	1,472,953	271,002	-	253	2008
838,126	1,103,222	903,752	1,135,861	1,566,729	1,508,845	276,850	-	244	2009
865,909	1,141,204	943,598	1,160,472	1,607,210	1,551,878	282,977	-	238	2010
890,383	1,184,303	973,340	1,201,817	1,662,139	1,599,848	296,567	-	232	2011
916,759	1,171,169	1,022,299	1,251,282	1,729,293	1,660,652	311,032	68,018	248	2012
940,692	1,208,741	1,046,867	1,284,336	1,777,464	1,705,087	324,574	74,187	245	2013
964,440	1,243,023	1,109,077	1,308,664	1,826,845	1,744,017	339,072	80,165	253	2014
991,176	1,281,942	1,133,398	1,335,482	1,884,765	1,785,232	358,644	83,028	254	2015
1,016,059	1,317,480	1,155,045	1,364,679	1,937,384	1,828,814	385,200	85,756	-	2016
1,041,172	1,357,245	1,178,675	1,393,273	1,980,254	1,865,308	418,037	89,514	-	2017
1,065,629	1,390,063	1,193,339	1,423,206	2,015,725	1,889,174	442,334	92,326	14	2018
1,089,307	1,423,311	1,217,739	1,454,637	2,047,790	1,912,803	461,797	98,581	14	2019
1,108,181	1,451,902	1,243,394	1,497,359	2,086,877	1,935,540	484,825	100,758	14	2020
1,129,889	1,482,070	1,272,614	1,527,926	2,122,187	1,958,431	502,738	103,381	14	2021

1. Until 1982 from 1981, Incheon was a part of Gyeonggi area, and Daegu was a part of Gyeongbuk area
 Until 1986, Gwangju was a part of Jeonnam area. Until 1988, Daejeon was a part of Chungnam area

Until 1999, Ulsan was a part of Gyeongnam area

Source : www.kepco.co.kr (Statistics of Electric Power in Korea)

11. 지역별 판매 전력량

단위: MWh

	합계 Total	서울 Seoul	부산 Busan	대구 ¹ Daegu ¹	인천 ¹ Incheon ¹	광주 ¹ Gwangju ¹	대전 ¹ Daejeon ¹	울산 ¹ Ulsan ¹	경기 Gyeonggi	강원 Gangwon
1981	35,424,455	6,492,486	3,323,730	-	-	-	-	-	6,210,420	2,543,706
1982	37,879,626	6,962,896	3,535,896	-	-	-	-	-	6,777,839	2,795,600
1983	42,620,384	7,859,263	3,990,744	2,386,400	2,787,713	-	-	-	5,251,406	3,024,738
1984	47,051,137	8,646,945	4,336,842	2,550,045	3,066,661	-	-	-	6,236,550	3,054,322
1985	50,732,095	9,280,092	4,519,559	2,616,406	3,242,433	-	-	-	7,061,470	3,195,860
1986	56,309,525	10,205,815	4,936,278	2,730,215	3,745,058	-	-	-	8,260,554	3,441,686
1987	64,169,084	11,364,344	5,519,338	3,270,714	4,100,383	772,101	-	-	9,991,838	3,613,050
1988	74,317,726	13,073,675	6,115,017	3,528,899	4,680,412	1,061,408	-	-	11,896,657	3,976,253
1989	82,191,862	14,369,760	6,531,786	3,773,640	5,090,566	1,334,659	1,413,477	-	13,561,579	4,203,975
1990	94,383,292	16,027,052	7,341,267	4,243,166	5,794,948	1,562,328	1,847,100	-	15,756,857	4,526,254
1991	104,374,022	17,060,163	7,685,775	4,503,228	6,295,568	1,670,014	2,023,889	-	17,386,302	5,051,168
1992	115,243,978	18,370,162	8,066,136	4,926,991	7,210,104	1,895,916	2,230,216	-	19,212,289	5,507,607
1993	127,733,923	19,870,468	8,451,284	5,378,003	8,354,173	2,100,756	2,444,999	-	21,542,019	6,065,953
1994	146,540,499	22,253,268	9,323,262	6,220,840	9,182,284	2,456,594	2,939,864	-	25,233,617	6,619,719
1995	163,270,294	23,565,808	9,894,007	6,549,781	9,995,190	2,782,927	3,320,893	-	28,696,044	7,118,029
1996	182,470,373	25,686,049	10,885,412	8,326,697	11,188,533	3,103,707	3,792,028	-	31,898,222	7,558,856
1997	200,783,627	27,314,635	11,450,156	8,629,456	12,118,886	3,447,578	4,169,271	-	35,250,295	8,069,296
1998	193,470,338	26,161,720	10,948,496	8,279,242	11,569,386	3,371,966	4,139,120	-	33,612,776	7,427,165
1999	214,214,891	28,447,269	11,296,855	9,215,520	12,921,985	3,766,361	4,713,997	-	38,031,741	8,213,597
2000	239,535,486	31,395,005	12,409,397	10,189,993	14,195,026	4,279,226	5,289,144	17,236,182	43,885,163	9,145,542
2001	257,731,354	33,321,290	13,423,022	10,544,475	14,963,884	4,639,098	5,771,636	17,695,778	48,583,252	10,227,934
2002	278,451,380	34,882,647	14,270,036	11,219,611	16,099,983	5,090,958	6,210,506	18,825,229	53,908,880	11,105,285
2003	293,599,230	36,163,797	14,764,341	11,471,668	16,921,206	5,337,212	6,502,820	19,629,362	57,939,772	11,899,814
2004	312,095,586	38,213,581	15,479,222	11,903,722	17,648,598	5,761,794	6,896,446	20,576,404	62,758,836	12,051,844
2005	332,412,828	40,523,741	16,588,954	12,363,357	18,165,058	6,205,053	7,252,938	20,851,718	68,750,378	12,379,005
2006	348,719,371	41,824,268	17,218,934	12,622,007	18,694,596	6,441,161	7,505,662	21,556,369	73,309,874	12,993,255
2007	368,605,433	42,972,816	17,905,735	12,925,891	19,446,553	6,803,616	7,823,147	22,739,544	78,107,276	13,567,824
2008	385,070,137	44,096,350	18,709,380	13,265,254	19,915,366	7,044,868	8,087,633	24,132,175	81,848,570	13,895,753
2009	394,474,637	44,984,457	18,689,437	13,133,729	20,032,122	7,169,715	8,224,741	24,682,548	83,743,497	13,992,115
2010	434,160,228	47,295,093	20,263,682	14,479,996	21,827,577	7,860,057	8,867,405	26,515,702	93,074,875	14,848,027
2011	455,070,261	46,902,989	20,561,979	14,821,948	22,241,136	8,047,388	9,059,776	28,198,242	96,844,503	15,876,041
2012	466,592,949	47,234,102	20,664,842	14,954,958	22,651,946	8,130,493	9,160,107	29,362,724	100,291,952	15,904,382
2013	474,848,580	46,555,105	20,364,705	15,080,052	22,673,441	8,274,074	9,225,140	29,992,969	102,227,067	15,794,741
2014	477,591,701	45,018,863	19,980,898	14,858,787	22,578,048	8,197,277	9,102,524	30,115,123	102,180,707	15,778,144
2015	483,654,816	45,381,484	20,002,307	14,947,708	23,211,766	8,333,873	9,182,737	30,286,140	105,048,003	16,206,618
2016	497,038,904	46,493,234	20,467,093	15,268,114	23,875,857	8,558,369	9,379,633	32,095,217	109,403,901	16,498,768
2017	507,746,386	46,298,158	21,007,358	15,386,372	24,515,313	8,683,649	9,423,804	31,609,850	114,847,859	16,552,836
2018	526,149,162	47,810,210	21,216,605	15,675,749	24,921,926	8,773,811	9,648,827	33,748,169	122,695,954	16,845,836
2019	520,498,738	47,167,206	20,802,410	15,265,585	24,280,690	8,603,297	9,415,699	34,138,999	123,022,307	16,368,275
2020	509,269,715	45,787,926	20,503,969	14,758,568	23,638,583	8,531,108	9,405,221	33,157,834	124,688,964	16,120,067
2021	533,430,811	47,295,807	21,067,833	15,443,949	24,901,194	8,973,447	9,748,621	33,593,123	133,445,948	16,808,006

1. 1981~1982 인천은 경기, 대구는 경북에 포함
 1981~1986 광주는 전남, 1981~1988 대전은 충남에 포함
 1981~1999 울산은 경남에 포함
 자료: www.kepco.co.kr (한국전력통계)

11. Power Sold by Region

Unit: MWh

충북 Chungbuk	충남 Chungnam	전북 Jeonbuk	전남 Jeonnam	경북 Gyeongbuk	경남 Gyeongnam	제주 Jeju	세종 Sejong	개성 Gaeseong	
1,287,083	1,649,261	1,137,600	2,038,246	5,510,444	5,106,745	124,734	-	-	1981
1,429,295	1,835,226	1,222,122	2,178,572	5,774,649	5,227,192	140,339	-	-	1982
1,645,727	2,046,659	1,343,885	2,568,679	3,740,059	5,811,537	163,574	-	-	1983
1,751,034	2,238,610	1,477,921	2,842,597	4,093,951	6,564,469	191,190	-	-	1984
1,788,836	2,418,858	1,606,963	3,154,637	4,536,391	7,096,336	214,255	-	-	1985
1,977,103	2,663,234	1,791,932	3,478,316	5,127,166	7,709,200	242,970	-	-	1986
2,329,049	2,974,130	2,024,321	3,047,651	6,019,043	8,861,076	282,047	-	-	1987
2,856,745	3,477,027	2,368,995	3,457,879	6,836,226	10,635,067	353,466	-	-	1988
3,182,679	2,554,104	2,727,559	3,563,594	7,766,706	11,688,667	429,111	-	-	1989
3,831,246	2,677,636	3,330,675	4,390,468	9,019,102	13,489,898	545,296	-	-	1990
4,468,846	3,299,180	3,894,762	4,825,759	10,051,838	15,535,031	622,498	-	-	1991
5,099,960	3,988,782	4,361,426	5,526,665	11,009,681	17,128,261	709,782	-	-	1992
5,751,135	4,523,432	4,980,707	6,032,480	12,414,603	19,046,497	777,414	-	-	1993
6,651,720	5,658,708	5,932,774	6,859,046	14,460,318	21,821,001	927,484	-	-	1994
7,400,349	7,101,854	6,881,068	7,718,537	16,912,878	24,280,916	1,052,013	-	-	1995
8,585,639	9,226,106	7,994,501	8,864,129	17,819,373	26,346,814	1,194,306	-	-	1996
9,363,428	10,292,423	8,734,206	11,493,502	20,361,452	28,769,138	1,319,901	-	-	1997
8,544,449	9,311,632	8,516,306	11,746,234	20,701,378	27,769,065	1,371,404	-	-	1998
9,513,085	10,520,730	9,428,292	13,160,127	22,537,413	30,976,108	1,471,811	-	-	1999
10,722,434	12,235,851	10,592,299	14,410,926	24,805,745	17,038,616	1,704,936	-	-	2000
11,647,860	13,835,150	11,247,612	15,653,923	25,925,964	18,295,403	1,955,071	-	-	2001
12,685,134	15,447,796	12,019,475	16,076,907	28,289,834	20,144,321	2,174,770	-	-	2002
13,052,046	17,584,892	12,412,142	16,670,742	29,582,443	21,302,733	2,364,241	-	-	2003
13,865,584	19,419,620	13,128,881	17,829,501	31,446,013	22,553,302	2,562,238	-	-	2004
14,464,184	22,449,469	13,592,737	18,803,153	33,161,128	24,093,883	2,768,073	-	-	2005
15,350,674	25,003,743	14,407,656	19,500,753	34,010,487	25,380,993	2,898,939	-	-	2006
16,678,098	28,051,143	15,166,073	20,341,400	36,249,730	26,788,262	3,038,325	-	-	2007
17,375,035	30,427,966	15,927,799	21,868,193	37,164,797	28,074,968	3,183,210	-	52,820	2008
17,591,645	32,115,473	16,684,299	23,589,470	37,983,313	28,393,041	3,352,343	-	112,692	2009
19,444,836	38,809,312	18,949,073	25,059,934	41,589,052	31,549,222	3,574,624	-	151,763	2010
20,453,358	42,650,112	21,168,359	27,136,865	44,167,300	33,071,206	3,710,080	-	158,975	2011
21,361,911	44,492,412	21,462,325	28,484,719	44,799,525	33,014,947	3,864,639	578,610	178,351	2012
21,665,043	45,466,812	21,708,655	30,302,068	45,444,247	33,530,619	4,094,900	2,345,527	103,415	2013
22,179,262	47,294,961	22,297,413	31,722,943	46,016,364	33,435,157	4,220,090	2,437,031	178,108	2014
22,949,032	47,286,062	22,086,860	32,637,829	44,956,836	33,876,325	4,429,553	2,641,139	190,544	2015
24,008,863	48,453,931	22,733,495	33,096,902	44,647,503	34,497,477	4,738,201	2,801,869	20,479	2016
24,843,477	50,180,209	22,799,647	33,562,076	45,455,611	34,647,864	5,013,545	2,918,758	-	2017
26,239,895	52,012,705	22,961,959	34,118,388	45,958,814	35,158,610	5,272,604	3,087,693	1,405	2018
26,732,303	52,644,854	22,280,693	32,385,388	44,314,767	34,472,017	5,374,285	3,226,179	3,786	2019
26,901,894	50,422,732	20,538,912	30,973,975	41,001,627	34,069,974	5,373,288	3,393,223	1,851	2020
28,402,063	48,801,626	21,486,861	33,486,886	44,258,297	35,734,059	5,687,730	4,295,363	-	2021

1. Incheon was a part of Gyeonggi province until 1982, Daegu was a part of Gyeongbuk province until 1982.
 Gwangju was a part of Jeonnam province until 1986, Daejeon was a part of Chungnam province until 1988.
 Ulsan was a part of Gyeongnam province until 1999.

Source : www.kepco.co.kr (Statistics of Electric Power in Korea)

12. 종별 판매단가 및 판매수입

	판매 단가 Average Revenues per kWh						
	주택용 ¹	일반용	교육용 ²	산업용	농사용	가로등	평 균
	Residential ¹	Public & Commercial	Educational ²	Industrial	Agricultural	Street lighting	Average
KRW/kWh							
1981	74.61	-	62.35	-	-	78.22	64.31
1982	75.19	-	68.76	-	-	90.88	69.87
1983	73.26	-	66.50	-	-	85.02	67.71
1984	73.33	-	66.10	-	-	84.39	67.42
1985	73.42	-	66.64	-	-	83.20	67.92
1986	71.33	-	64.21	-	-	82.02	65.51
1987	71.75	-	61.74	-	-	72.79	63.48
1988	71.94	-	57.47	-	33.48	55.60	65.49
1989	69.13	-	52.97	-	32.70	49.84	55.43
1990	68.66	-	49.81	-	34.06	48.26	52.94
1991	73.03	-	50.53	-	33.80	46.84	54.23
1992	81.22	-	53.59	-	33.56	51.43	58.09
1993	82.29	-	54.53	-	35.82	51.60	58.90
1994	85.95	86.92	77.60	46.14	34.59	51.93	60.22
1995	86.47	89.00	76.00	47.14	36.17	53.59	61.28
1996	88.95	90.32	75.68	48.37	37.11	54.60	62.99
1997	92.05	93.19	77.89	49.86	38.96	56.18	65.26
1998	100.62	104.16	86.51	55.01	44.31	63.02	72.08
1999	103.07	102.45	85.73	54.78	44.04	62.82	71.59
2000	107.30	106.04	90.16	58.30	43.04	65.92	74.65
2001	111.71	107.99	92.74	61.56	43.51	68.14	77.06
2002	110.31	104.42	90.78	60.08	43.16	66.22	75.21
2003	107.96	100.59	90.24	60.30	43.45	65.75	74.68
2004	110.41	96.85	89.05	60.23	41.95	65.33	74.58
2005	110.82	95.24	89.00	60.25	41.67	65.65	74.46
2006	114.33	97.91	77.48	61.92	42.96	68.61	76.43
2007	114.31	97.68	77.20	64.56	42.45	71.47	77.85
2008	114.97	95.30	78.58	66.24	42.38	72.50	78.76
2009	114.45	98.50	83.56	73.69	42.13	76.65	83.59
2010	119.85	98.93	87.23	76.63	42.54	81.13	86.12
2011	119.99	101.69	94.18	81.23	42.72	87.18	89.32
2012	123.69	112.50	108.84	92.83	42.90	98.89	99.10
2013	127.02	121.98	115.99	100.70	45.51	107.33	106.33
2014	125.14	129.75	114.15	106.83	47.31	113.39	111.28
2015	123.69	130.46	113.22	107.41	47.31	113.37	111.57
2016	121.52	130.41	111.51	107.11	47.41	113.35	111.23
2017	108.50	130.42	103.07	107.41	47.57	113.48	109.53
2018	106.87	129.97	104.12	106.46	47.43	113.76	108.75
2019	104.95	130.33	103.85	106.56	47.74	113.91	108.66
2020	107.89	131.60	103.99	107.35	48.45	114.35	109.80
2021	109.16	128.47	101.69	105.48	45.95	112.97	108.11

1. 1981~1993년은 농사용 전등 및 4kW미만 고객포함, '94년부터 농사용 전등 제외

2. 1981~1993년 이전은 동력 전체 고객

자료: www.kepco.co.kr (한국전력통계)

12. Average Prices per kWh and Total Revenues by Tariff

판 매 수 입 Revenues from Sales				
합계 Total	전 등 Lighting		동 력 Power	
	주택용 Residential	가로등 Street lighting		
1,000 KRW				
2,278,213,424	416,119,361	5,283,500	1,856,810,563	1981
2,646,596,884	468,450,526	7,776,032	2,170,370,326	1982
2,885,847,889	538,889,430	8,630,261	2,338,328,198	1983
3,172,400,557	610,828,881	9,916,972	2,551,654,704	1984
3,445,722,446	674,003,733	13,320,667	2,758,398,046	1985
3,688,880,988	699,638,496	16,278,065	2,972,964,425	1986
4,073,692,124	781,074,998	17,975,469	3,274,641,657	1987
4,421,004,587	905,541,478	18,231,798	3,497,231,311	1988
4,556,005,382	1,000,778,289	20,051,209	3,535,175,884	1989
4,996,726,916	1,164,463,510	22,654,463	3,809,608,943	1990
5,659,869,358	1,359,461,082	23,827,765	4,276,580,511	1991
6,695,094,977	1,661,629,880	31,068,507	5,002,396,590	1992
7,523,500,082	1,798,384,094	42,354,050	5,682,761,938	1993
8,824,120,639	2,467,970,639	51,328,723	6,304,821,278	1994
10,004,979,019	2,620,217,437	59,380,811	7,325,380,772	1995
11,493,847,557	2,921,082,494	67,635,634	8,505,129,431	1996
13,103,807,061	3,231,024,101	77,640,901	9,795,142,060	1997
13,944,793,061	3,415,238,117	89,472,284	10,440,082,660	1998
15,334,844,616	3,705,145,616	98,206,287	11,531,492,713	1999
17,882,184,141	4,259,408,737	115,971,626	13,506,803,778	2000
19,861,385,283	4,787,877,903	127,940,937	14,945,566,443	2001
20,943,327,071	5,184,230,824	137,459,416	15,621,636,831	2002
21,925,576,497	5,494,326,608	144,463,055	16,286,786,835	2003
23,276,653,272	5,466,721,140	154,649,377	17,655,282,754	2004
24,752,637,345	5,767,493,514	168,727,452	18,816,416,379	2005
26,652,703,238	6,163,640,653	184,370,077	20,304,692,507	2006
28,695,989,957	6,365,005,846	199,695,515	22,131,288,596	2007
30,328,758,201	6,654,217,289	206,418,500	23,468,122,411	2008
32,975,019,408	6,801,453,931	226,430,707	25,947,134,770	2009
37,390,071,008	7,574,768,788	250,009,506	29,565,292,715	2010
40,647,051,421	7,621,964,092	274,238,526	32,750,848,803	2011
46,237,819,965	8,099,666,224	312,298,567	37,825,855,174	2012
50,488,373,086	8,359,482,143	338,753,964	41,790,136,978	2013
53,144,071,420	8,066,376,737	365,234,262	44,712,460,421	2014
53,963,686,067	8,116,164,990	378,803,714	45,468,717,391	2015
55,287,523,060	8,270,443,259	392,456,597	46,624,623,206	2016
55,614,010,810	7,437,258,827	403,630,974	47,773,121,009	2017
57,217,586,406	7,790,409,259	407,555,748	49,019,621,398	2018
56,556,500,292	7,623,684,703	406,828,844	48,525,986,745	2019
55,918,578,210	8,232,506,704	401,011,598	47,285,059,907	2020
57,671,487,528	8,723,165,593	389,133,677	48,559,188,258	2021

1. Included agricultural lighting and all customers under 4kW from 1981 to 1993 and excluded agricultural lighting from 1994

2. Power total customers from 1981 to 1993

Source : www.kepco.co.kr (Statistics of Electric Power in Korea)

13. 전력구입실적

Power Purchasing Results

	전력시장 Electricity Market			PPA (Power Purchase Agreement)			합계 Total		
	구입량 Volume	구입액 Payment	단 가 Unit cost	구입량 Volume	구입액 Payment	단 가 Unit cost	구입량 Volume	구입액 Payment	단 가 Unit cost
	(GWh)	(bil. Won)	(Won/kWh)	(GWh)	(bil. Won)	(Won/Wh)	(GWh)	(bil. Won)	(Won/kWh)
2002	281,873	13,392	47.51	13,650	1,141	83.57	295,523	14,533	49.18
2003	299,510	14,669	48.98	11,084	1,055	95.19	310,595	15,725	50.63
2004	318,062	15,747	49.51	10,464	1,020	97.43	328,526	16,766	51.03
2005	338,864	17,374	51.27	10,412	1,170	112.38	349,276	18,544	53.09
2006	354,866	19,018	53.59	10,370	1,299	125.27	365,236	20,317	55.63
2008	392,431	26,880	68.50	12,389	2,228	179.86	404,820	29,109	71.91
2009	405,690	26,965	66.47	9,476	1,508	159.10	415,166	28,473	68.58
2010	440,863	32,312	73.29	14,228	2,195	154.27	455,091	34,507	75.82
2011	462,357	36,844	79.69	14,638	2,529	172.78	476,995	39,373	82.54
2012	471,800	42,613	90.32	17,400	3,249	186.70	489,200	45,862	93.75
2013	479,287	42,288	88.23	16,892	3,161	187.10	496,179	45,449	91.60
2014	490,372	44,727	91.21	11,114	2,260	203.32	501,486	46,987	93.70
2015	495,114	41,913	84.65	8,715	1,375	157.74	503,829	43,288	85.92
2016	508,879	41,829	82.20	9,719	1,223	125.81	518,598	43,052	83.02
2017	520,230	44,985	86.47	10,702	1,375	128.47	530,932	46,360	87.32
2018	536,287	50,850	94.82	11,805	1,585	134.25	548,093	52,435	95.67
2019	529,075	50,142	94.77	11,446	1,346	117.62	540,520	51,488	95.26
2020	515,107	43,767	84.97	14,732	1,291	87.62	529,839	45,058	85.04
2021	535,985	55,295	103.17	18,211	1,900	104.35	554,197	57,196	103.20

자료: www.kepco.co.kr (한국전력통계)

Source: www.kepco.co.kr (Statistics of electric power in Korea)

13-1. 2021 발전원별 전력구입실적(전력시장구입) Purchase Results from Electricity Market by Energy Source

	합계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	석유류 Oil	액화천연가스/ 복합 LNG/ Combined	신재생 Renewables	수 력 Hydro	양 수 Pumping	기 타 Other
구입량 Volume (GWh)	535,985	150,163	186,813	1,654	2,110	163,079	23,368	2,349	3,667	2,785
구입액 Payment (bil. Won)	55,295	8,451	19,001	172	460	19,955	2,498	253	515	265
단가 Unit cost (Won/kWh)	103.17	56.28	101.71	103.92	218.12	122.37	106.88	107.64	140.38	95.06

자료: www.kepco.co.kr (전력통계속보)

Source: www.kepco.co.kr (Statistics of electric power in Korea)

13-2. 2021 전력구입실적(PPA 사업자 구입)

Purchase Results from Power Purchase Agreement

	합계 Total	복합화력 Combined Cycle					지역전기 Community Energy Service	태양광 Solar energy	기타 신재생 Renewables
		POSCO 에너지	GS EPS	GS Power	CGN	소계 Subtotal			
구입량 Volume (GWh)	18,211	-	566	-	2,204	2,770	117	15,244	81
구입액 Payment (bil.Won)	1,900	-	65	-	306	371	10	1,512	8
단가 Unit cost (Won/kWh)	104.35	-	114.85	-	138.83	133.93	85.79	99.17	94.23

주: 기타 신재생에는 소수력, 풍력, 바이오, 폐기물, 연료전지 포함
 자료: www.kepco.co.kr (한국전력통계)

Source: www.kepco.co.kr (Statistics of electric power in Korea)

14. 발전원별 전력구입량

Power Trading Results by Energy Source

	합계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	석유류 Oil	액화천연가스/ 복합 LNG/ Combined	수력 Hydro	양수 Pumping	신재생/기타 Renewable/ Others	신재생 Renewable	기타 Other
	GWh										
2009	405,690	141,123	178,840	7,298	12,819	57,894	2,760	2,814	2,143	-	2,143
2010	440,863	141,894	183,359	7,649	11,854	85,155	3,287	2,774	4,890	-	4,890
2011	462,357	147,763	185,778	7,777	9,474	96,114	4,123	3,214	8,114	7,930	184
2012	471,800	143,548	184,604	8,020	14,417	105,285	3,348	3,634	8,944	8,755	189
2013	479,287	132,396	186,886	6,462	14,684	119,947	3,558	4,086	11,267	11,081	186
2014	490,018	149,056	189,330	7,746	7,560	114,864	2,070	5,037	14,355	15,030	197
2015	495,114	157,106	194,176	6,778	9,391	106,447	1,510	3,639	16,067	15,803	264
2016	508,879	154,175	199,505	7,071	13,262	111,710	2,140	3,617	17,399	17,031	368
2017	520,230	141,098	224,834	4,014	5,735	117,540	2,255	4,171	20,583	20,028	555
2018	536,287	126,883	226,585	2,420	6,834	144,039	2,763	3,892	22,873	22,165	709
2019	529,075	138,607	215,012	2,331	4,011	138,655	2,193	3,444	24,822	22,575	2,247
2020	515,203	152,328	185,179	1,876	2,184	140,866	3,156	3,257	26,358	20,202	6,156
2021	535,985	150,163	186,813	1,654	2,110	163,079	2,349	3,667	26,152	23,368	2,785

자료: www.kepco.co.kr (전력통계속보)

Source: www.kepco.co.kr (The Monthly Report on Major Electric Power Statistics)

15. 발전원별 전력거래금액

Power Purchasing Amounts by Energy Source

	합계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	석유류 Oil	액화천연가스/ 복합 LNG/ Combined	수력 Hydro	양수 Pumping	신재생/기타 Renewable/ Others	신재생 Renewable	기 타 Other
	GWh										
2009	26,965	5,030	10,787	797	1,867	7,518	302	441	224	-	224
2010	32,312	5,633	11,163	842	2,189	10,912	445	613	515	-	515
2011	36,844	5,793	12,488	767	2,144	13,695	562	567	829	806	23
2012	42,613	5,686	12,246	833	3,650	17,714	606	810	1,068	1,039	30
2013	42,069	5,179	10,972	595	3,253	19,297	608	835	1,331	1,303	28
2014	43,917	8,192	12,419	706	1,671	18,497	333	866	1,685	1,735	28
2015	40,951	9,836	13,270	731	1,408	13,445	179	483	1,600	1,572	27
2016	40,514	10,489	14,732	626	1,462	11,102	186	385	1,531	1,502	29
2017	43,343	8,573	17,755	385	949	13,163	219	450	1,849	1,803	46
2018	48,631	7,889	18,793	258	1,185	17,485	302	490	2,229	2,161	68
2019	47,685	8,094	18,808	240	918	16,518	236	419	2,453	2,242	211
2020	41,567	9,093	15,209	153	422	13,918	258	368	2,146	1,610	536
2021	55,295	8,451	19,001	172	460	19,955	253	515	2,762	2,498	265

자료: www.kepco.co.kr (전력통계속보)

Source: www.kepco.co.kr (The Monthly Report on Major Electric Power Statistics)

16. 발전원별 전력구입단가

Power Purchasing Unit Cost by Energy Source

	합계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	석유류 Oil	액화천연가스/ 복합 LNG/ Combined	수력 Hydro	양수 Pumping	신재생/기타 Renewable/ Others	신재생 Renewable	기 타 Other
	GWh										
2009	66.47	35.64	60.31	109.19	145.62	129.86	109.37	156.61	104.53	-	104.36
2010	73.29	39.70	60.88	110.13	184.65	128.14	135.43	220.81	105.32	-	105.32
2011	79.69	39.20	67.22	98.64	226.27	142.48	136.19	176.43	102.18	101.66	126.25
2012	90.32	39.61	66.34	103.88	253.20	168.25	180.95	222.90	119.45	118.66	156.00
2013	87.77	39.12	58.71	91.73	221.50	160.88	170.92	204.42	118.13	120.09	150.28
2014	89.62	54.96	65.59	91.18	220.97	161.03	160.89	171.83	117.41	117.08	142.75
2015	82.71	62.61	68.34	107.78	149.91	126.31	118.39	132.82	99.58	99.51	103.79
2016	79.61	68.03	73.84	88.57	110.28	99.38	87.01	106.35	88.01	88.22	78.25
2017	83.31	60.76	78.97	95.89	165.40	111.99	96.95	107.96	89.82	90.03	82.00
2018	90.68	62.18	82.94	106.49	173.37	121.39	109.36	125.81	97.46	97.50	96.25
2019	90.13	58.39	87.47	102.85	228.79	119.13	107.83	121.62	98.82	99.30	94.01
2020	80.68	59.69	82.13	81.48	193.12	98.81	81.72	113.07	81.41	79.70	87.03
2021	103.17	56.28	101.71	103.92	218.12	122.37	107.64	140.38	105.62	106.88	95.06

1. 신재생은 RPS 제외분임.

자료: www.kepco.co.kr (전력통계속보)

1. Excluding RPS

Source: www.kepco.co.kr (Monthly Report on Major Electric Power Statistics)

17. 현행 전기요금표

1. 주택용 전력(저압)

- 주거용 고객(아파트 고객 포함), 계약전력 3kW 이하의 고객
- 독신자 합숙소(기숙사 포함) 또는 집단주거용 사회복지시설로서 고객이 주택용 전력의 적용을 희망하는 경우 적용
- 주거용 오피스텔 고객(주거용 오피스텔이란? 주택은 아니지만 실제 주거용으로 이용되는 오피스텔)

• 하계(7.1~8.31)

(적용일자 : 2022년 4월 1일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
300kWh 이하 사용	910	93.2
301 ~ 450kWh 사용	1,600	187.8
450kWh 초과 사용	7,300	280.5

※ 슈퍼유저요금: 하계(7~8월), 1,000kWh초과 전력량요금은 709.4원/kWh 적용

• 기타계절(1.1~6.30, 9.1~12.31)

(적용일자 : 2022년 4월 1일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
200kWh 이하 사용	910	93.2
201 ~ 400kWh 사용	1,600	187.8
400kWh 초과 사용	7,300	280.5

※ 슈퍼유저요금: 동계(12~2월), 1,000kWh초과 전력량요금은 709.4원/kWh 적용

2. 주택용 전력(고압)

- 고압으로 공급받는 가정용 고객에게 적용

• 하계(7.1~8.31)

(적용일자 : 2022년 4월 1일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
300kWh 이하 사용	730	78.2
301 ~ 450kWh 사용	1,260	147.2
450kWh 초과 사용	6,060	215.5

※ 슈퍼유저요금: 하계(7~8월), 1,000kWh초과 전력량요금은 574.5원/kWh 적용

• 기타계절(1.1~6.30, 9.1~12.31)

(적용일자 : 2022년 4월 1일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
200kWh 이하 사용	730	78.2
201 ~ 400kWh 사용	1,260	147.2
400kWh 초과 사용	6,060	215.5

※ 슈퍼유저요금: 동계(12~2월), 1,000kWh초과 전력량요금은 74.5원/kWh 적용

17. 현행 전기요금표(계속)

3. 일반용 전력(갑 I)

- 타 종별을 제외한 고객으로 계약전력 300kW 이상 고객에 적용

(적용일자 : 2022년 4월 1일)

		기본요금 (원/kW)	전력량 요금(원/kWh)		
			여름철 (6~8월)	봄·가을철 (3~5, 9~10월)	겨울철 (11~2월)
저압전력		6,160	105.6	65.1	92.2
고압A	선택 I	7,170	115.8	71.8	103.5
	선택 II	8,230	111.8	67.5	98.2
고압B	선택 I	7,170	113.7	70.7	100.5
	선택 II	8,230	108.4	65.4	95.2

※ 저압: 표준전압110V~380V, 고압A:3,300~66,000V, 고압B:154,000V이상

4. 일반용 전력(갑 II)

- 타 종별을 제외한 고객으로 계약전력 300kW 이상 고객에 적용

(적용일자 : 2022년 4월 1일)

		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철 (6~8월)	봄·가을철 (3~5, 9~10월)	겨울철 (11~2월)
고압A	선택 I	7,170	경 부 하	62.6	62.6	71.3
			중간부하	113.8	70.0	101.7
			최대부하	136.3	81.3	116.5
	선택 II	8,230	경 부 하	57.3	57.3	66.0
			중간부하	108.5	64.7	96.4
			최대부하	131.0	76.0	111.2
고압B	선택 I	7,170	경 부 하	62.0	62.0	71.0
			중간부하	110.6	67.9	98.3
			최대부하	127.0	73.3	112.5
	선택 II	8,230	경 부 하	56.7	56.7	65.7
				105.3	62.6	93.0
			최대부하	121.7	68.0	107.2

※ 대상: 시간대별 구분 계량기가 설치된 고객

17. Table for Current Electricity Tariff(Continued)

5. 일반용 전력(을)

- 타 종별을 제외한 고객으로 계약전력 300kW 이상 고객에 적용

		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
고압A	선택 I	7,220	경 부 하	61.5	61.5	68.5
			중 간 부 하	114.4	84.0	114.6
			최 대 부 하	196.5	114.7	172.1
	선택 II	8,320	경 부 하	56.0	56.0	63.0
			중 간 부 하	108.9	78.5	109.1
			최 대 부 하	191.0	109.2	166.6
	선택 III	9,810	경 부 하	55.1	55.1	62.4
			중 간 부 하	108.3	77.2	108.5
			최 대 부 하	178.6	100.9	155.4
고압B	선택 I	6,630	경 부 하	59.9	59.9	66.9
			중 간 부 하	112.2	82.2	112.2
			최 대 부 하	193.4	112.5	168.4
	선택 II	7,380	경 부 하	56.1	56.1	63.1
			중 간 부 하	108.4	78.4	108.4
			최 대 부 하	189.6	108.7	164.6
	선택 III	8,190	경 부 하	54.4	54.4	61.5
			중 간 부 하	106.7	76.8	106.7
			최 대 부 하	188.0	107.1	162.9
고압C	선택 I	6,590	경 부 하	59.4	59.4	66.3
			중 간 부 하	112.3	82.3	111.9
			최 대 부 하	193.2	112.7	168.5
	선택 II	7,520	경 부 하	54.7	54.7	61.6
			중 간 부 하	107.6	77.6	107.2
			최 대 부 하	188.5	108.0	163.8
	선택 III	8,090	경 부 하	53.6	53.6	60.5
			중 간 부 하	106.5	76.5	106.1
			최 대 부 하	187.4	106.9	162.7

6. 전기자동차 충전전력

	기본요금 (원/kW)	전력량 요금 (원/kWh)			
		시 간 대	여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
저 압	2,390	경 부 하	57.5	58.6	80.6
		중 간 부 하	145.2	70.4	128.1
		최 대 부 하	232.4	75.3	190.7
고 압	2,580	경 부 하	52.4	53.4	69.8
		중 간 부 하	110.6	64.2	100.9
		최 대 부 하	163.6	68.1	138.7

※ 적용범위 : 자동차관리법 제3조 및 같은 법 시행규칙 제2조의 적용을 받는 자동차로 사용연료가 전기인 자동차(단, 이륜자동차는 제외) 및자동차 충전설비

7. 산업용(갑)I

- 광업, 제조업 및 기타사업에 전력을 사용하는 계약전력 4kW 이상 300kW 미만의 고객에게 적용

(적용일자 : 2022년 4월 1일)

		기본요금 (원/kW)	전력량 요금(원/kWh)		
			여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
저 압 전 력		5,550	80.9	59.1	79.2
고압A	선택 I	6,490	89.5	65.8	89.4
	선택 II	7,470	84.7	61.2	82.9
고압B	선택 I	6,000	88.3	64.7	87.9
	선택 II	6,900	83.6	60.1	81.8

17. 현행 전기요금표(계속)

8. 산업용(갑)II

- 광업, 제조업 및 기타사업에 전력을 사용하는 계약전력 4kW 이상 300kW 미만의 고객에게 적용

(적용일자 : 2022년 4월 1일)

		기본요금 (원/kW)	전력량 요금 (원/kWh)			
			시 간 대	여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
고압A	선택 I	6,490	경 부 하	60.4	60.4	67.8
			중 간 부 하	86.2	65.2	84.7
			최 대 부 하	119.7	84.4	114.1
	선택 II	7,470	경 부 하	55.5	55.5	62.9
			중 간 부 하	81.3	60.3	79.8
			최 대 부 하	114.8	79.5	109.2
고압B	선택 I	6,000	경 부 하	57.2	57.2	64.4
			중 간 부 하	84.8	63.8	82.4
			최 대 부 하	118.6	82.6	111.1
	선택 II	6,900	경 부 하	52.7	52.7	59.9
			중 간 부 하	80.3	59.3	77.9
			최 대 부 하	114.1	78.1	106.6

※ 대상: 시간대별 구분 계량기가 설치된 고객

9. 산업용(을)

- 광업, 제조업 및 기타사업에 전력을 사용하는 계약전력 300kW 이상의 고객에게 적용

		기본요금 (원/kW)	전력량 요금 (원/kWh)			
			시 간 대	여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
고압A	선택 I	7,220	경 부 하	61.5	61.5	68.5
			중 간 부 하	114.4	84.0	114.6
			최 대 부 하	196.5	114.7	172.1
	선택 II	8,320	경 부 하	56.0	56.0	63.0
			중 간 부 하	108.9	78.5	109.1
			최 대 부 하	191.0	109.2	166.6
	선택 III	9,810	경 부 하	55.1	55.1	62.4
			중 간 부 하	108.3	77.2	108.5
			최 대 부 하	178.6	100.9	155.4
고압B	선택 I	6,630	경 부 하	59.9	59.9	66.9
			중 간 부 하	112.2	82.2	112.2
			최 대 부 하	193.4	112.5	168.4
	선택 II	7,380	경 부 하	56.1	56.1	63.1
			중 간 부 하	108.4	78.4	108.4
			최 대 부 하	189.6	108.7	164.6
	선택 III	8,190	경 부 하	54.4	54.4	61.5
			중 간 부 하	106.7	76.8	106.7
			최 대 부 하	188.0	107.1	162.9
고압C	선택 I	6,590	경 부 하	59.4	59.4	66.3
			중 간 부 하	112.3	82.3	111.9
			최 대 부 하	193.2	112.7	168.5
	선택 II	7,520	경 부 하	54.7	54.7	61.6
			중 간 부 하	107.6	77.6	107.2
			최 대 부 하	188.5	108.0	163.8
	선택 III	8,090	경 부 하	53.6	53.6	60.5
			중 간 부 하	106.5	76.5	106.1
			최 대 부 하	187.4	106.9	162.7

17. Table for Current Electricity Tariff(Continued)

10. 교육용(갑)

- 법령에 의한 학교인정 교육시설(부속병원 제외), 도서관 및 독서진흥법에 의한 도서관, 박물관 및 미술관 진흥법에 의한 박물관·미술관, 과학관 육성법에 의한 과학관에 적용
- 계약전력 1,000kW 미만의 고객

(적용일자 : 2022년 4월 1일)

		기본요금 (원/kW)	전력량 요금(원/kWh)		
			여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
저압전력		5,230	96.8	59.6	84.0
고압A	선택 I	5,550	96.5	59.7	82.5
	선택 II	6,370	92.0	55.3	78.0
고압B	선택 I	5,550	95.8	59.3	81.7
	선택 II	6,370	91.3	54.8	77.2

11. 교육용(을)

- 법령에 의한 학교인정 교육시설(부속병원 제외), 도서관 및 독서진흥법에 의한 도서관, 박물관 및 미술관 진흥법에 의한 박물관·미술관, 과학관 육성법에 의한 과학관에 적용
- 계약전력 1,000kW 이상의 고객

		기본요금 (원/kW)	전력량 요금 (원/kWh)			
			시 간 대	여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
고압A	선택 I	6,090	경 부 하	49.7	49.7	53.7
			중 간 부 하	94.4	64.1	92.9
			최 대 부 하	160.3	84.6	131.6
	선택 II	6,980	경 부 하	45.2	45.2	49.2
			중 간 부 하	89.9	59.6	88.4
			최 대 부 하	155.8	80.1	127.1
고압B	선택 I	6,090	경 부 하	48.2	48.2	52.0
			중 간 부 하	91.7	62.4	90.0
			최 대 부 하	154.6	82.2	127.3
	선택 II	6,980	경 부 하	43.7	43.7	47.5
			중 간 부 하	87.2	57.9	85.5
			최 대 부 하	150.1	77.7	122.8

12. 농사용

- 농사용전력(갑) : 양곡생산을 위한 양수, 배수펌프 및 수문조작에 사용하는 전력
- 농사용전력(을) : 다음 중 하나에 해당하는 계약전력 1,000kW 미만의 고객으로 농사용전력(갑) 이외의 고객
 - 농사용 욕요 또는 전조재배에 사용하는 전력
 - 농작물 재배·축산·양잠·수산물양식업, 농작물 저온보관시설, 수협 또는 어촌계의 저온보관시설
 - 농수산물 생산자의 농수산물 건조 시설, 수협 또는 어촌계의 수산물 제빙·냉동시설
 - 농작물 재배·축산·양잠·수산물양식업 고객의 해충 구제(驅除) 및 유인용 전등

(적용일자 : 2022년 4월 1일)

		기본요금(원/kW)	전력량 요금(원/kWh)	
갑		360	21.5	
을	저압	1,150	39.1	
	고압(A,B)	1,210	여름철	41.8
			봄·가을철	39.8
			겨울철	41.8

※ 12.11.1 이후 기존 농사용(을 병)→농사용(병) 통합 후 농사용(을)로 명칭변경

17. 현행 전기요금표(계속)

13. 가로등

- 일반 공중의 편익을 위하여 도로·교량·공원 등에 조명으로 설치한 전등이나 교통 신호등·도로표시등·해공로(海空路) 표시등 및 기타 이에 준하는 전등(소형기기를 포함)에 적용

(적용일자 : 2022년 4월 1일)

	기본요금(원/kW)	전력량 요금(원/kWh)
갑(정액등)	W당 37.5 (월 최저요금 1,220원)	
을(종량등)	6,290	85.8

14. 심야전력

- 한전이 인정하는 심야전력 이용기기를 설치하여 전력사용이 적은 심야(밤 11시~아침 9시)에 열, 온수 또는 얼음을 생산, 저장하였다가 하루 종일 난방, 급탕 또는 냉방에 이용하는 경우 적용

(적용일자 : 2022년 4월 1일)

	기본요금(원/kW)	전력량 요금(원/kWh)	
갑	겨울철 : 76.7, 기타계절 : 55.3 (월 최저요금 : 20kWh에 해당하는 요금)		
을 I	겨울철 : 62.2, 기타계절 : 45.1 (월 최저요금 : 20kWh에 해당하는 요금)		
을 II	$7,160\text{원} \times \frac{\text{기타시간 사용전력량}}{\text{월간 총사용전력량}}$	심야시간대	겨울철 : 62.2 기타계절 : 45.1
		기타시간	88.3
	(월 최저요금 kW당 710원)		

※ 겨울철: 11월~익년2월, 기타계절 : 3월~10월

※ 심야시간: 23:00~09:00, 기타시간 : 09:00~23:00

15. 수요관리형 선택요금 I(CPP요금)

- 일반용(을)·산업용(을) 고압A(공급전압 22,900V) 고객 중 “CPP요금”적용기간(1~2월, 7~8월)에 대응하는 전년도 동일 기간에서 토, 일요일 및 공휴일을 제외한 평일 사용전력량 중 최대부하시간대 사용전력량 점유비가 25%이상인 고객 중 희망 고객
- 단, 지식서비스 산업, 전기차 충전전력, 산업용 기타사업 할인고객 제외

		기본요금 (원/kW)	전력량 요금(원/kWh)		
			시간대	7.1~8.31	1.1~2월 말일
고압A	선택 I	7,220	경부하	58.8	61.2
			중간부하	97.9	93.2
					198.3
			최대부하	158.5	133.2
				664.3	581.7
	선택 II	8,320	경부하	53.3	55.7
			중간부하	92.4	7.7
					192.5
			최대부하	153.0	127.7
				658.8	576.2
	선택 III	9,810	경부하	52.6	55.3
			중간부하	91.9	87.3
					191.5
			최대부하	143.9	119.9
				616.9	538.3

17. Table for Current Electricity Tariff(Continued)

16. 수요관리형 선택요금 II

- 일반용(을)·산업용(을) 고압 B, C (공급전압 154,000V 이상) 고객 중 희망 고객
- 단, 지식서비스 산업, 전기차 충전전력 고객 제외
- 여름철 및 봄가을철 최대부하시간대: 14~17시, 중간부하시간대: 9~14시, 17~23시 겨울철 시간대는 기존 요금제의 시간대와 동일

		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철 (6~8월)	봄·가을철 (3~5, 9~10월)	겨울철 (11~2월)
고압B	선택 I	6,630	경 부 하	76.5	76.5	83.5
			중 간 부 하	128.8	98.8	128.8
			최 대 부 하	316.2	190.9	185.0
	선택 II	7,380	경 부 하	72.7	72.7	79.7
			중 간 부 하	125.0	95.0	125.0
			최 대 부 하	310.3	185.0	181.2
	선택 III	8,190	경 부 하	71.0	71.0	78.1
			중 간 부 하	123.3	93.4	123.3
			최 대 부 하	307.9	182.6	179.5
고압C	선택 I	6,590	경 부 하	76.0	76.0	82.9
			중 간 부 하	128.9	89.9	128.5
			최 대 부 하	315.9	191.2	185.1
	선택 II	7,520	경 부 하	71.3	71.3	78.2
			중 간 부 하	124.2	94.2	123.8
			최 대 부 하	308.6	183.9	180.4
	선택 III	8,090	경 부 하	70.2	70.2	77.1
			중 간 부 하	123.1	93.1	122.7
			최 대 부 하	306.9	182.2	179.3

17. 전기자동차 충전전력요금

- 환경친화적 자동차의 개발 및 보급촉진에 관한 법률 제2조 제3호에 따른 전기 자동차(단, 이륜자동차는 제외) 충전설비

	기본요금 (원/kW)	전력량 요금(원/kWh)			
		시간대	여름철	봄·가을철	겨울철
저압	2,390	경 부 하	57.5	58.6	80.6
		중 간 부 하	145.2	70.4	128.1
		최 대 부 하	232.4	75.3	190.7
고압	2,580	경 부 하	52.4	53.4	69.8
		중 간 부 하	110.6	64.2	100.9
		최 대 부 하	163.6	68.1	138.7

17. 현행 전기요금표(계속)

- 지능형전력망의 구축 및 이용촉진에 관한 법률 제12조 및 동법 시행령 제8조에 따른 전기차충전서비스
제공사업자의 전기자동차에 해당하는 충전설비

		기본요금	전력량 요금(원/kWh)			
		(원/kW)	시간대	여름철	봄·가을철	겨울철
선택 I	저압	2,390	경 부 하	69.1	58.6	83.8
			중 간 부 하	135.0	70.4	116.3
			최 대 부 하	176.7	75.3	145.2
	고압	2,580	경 부 하	63.0	53.4	72.6
			중 간 부 하	103.1	64.2	91.6
			최 대 부 하	124.4	68.1	105.6
선택 II	저압	2,390	경 부 하	56.3	58.6	79.0
			중 간 부 하	113.2	70.4	99.9
			최 대 부 하	244.0	75.3	200.2
	고압	2,580	경 부 하	51.4	53.4	68.4
			중 간 부 하	86.2	64.2	78.7
			최 대 부 하	171.8	68.1	145.6
선택 III	저압	2,390	경 부 하	63.3	58.6	88.7
			중 간 부 하	111.8	70.4	98.6
			최 대 부 하	209.2	75.3	171.6
	고압	2,580	경 부 하	57.7	53.4	76.8
			중 간 부 하	85.1	64.2	77.7
			최 대 부 하	147.2	68.1	124.7
선택 IV	저압	2,390	계 절 별 단일단가	145.2	70.4	128.1
	고압	2,580		110.6	64.2	100.9

18. 일반용 보완전력요금

		기본요금	전력량 요금(원/kWh)			
		(원/kW)	시간대	여름철	봄·가을철	겨울철
저압	5,310		경 부 하	74.1	74.1	74.1
			중 간 부 하	106.8	79.5	90.8
			최 대 부 하	155.4	93.5	110.3
고압	4,910		경 부 하	69.9	69.9	69.9
			중 간 부 하	100.7	75.7	84.0
			최 대 부 하	141.1	86.5	101.6

19. 산업용 보완전력요금

- 고압A: 기본공급약관 산업용전력(을) 고압전력A 적용
- 고압B: 기본공급약관 산업용전력(을) 고압전력B 적용

20. 역송전력 요금

- 당월 부하시간대별 가중평균 계통한계가격 SMP에 당월 부하시간대별 역송전력량 합계를 곱하여 계산

$$* \text{부하시간대별 가중평균 계통한계가격 SMP} = \frac{\sum \text{부하시간대별(SMP} \times \text{실거래량)}}{\text{부하시간대별 실거래량의 합계}}$$

17. Table for Current Electricity Tariff(Continued)

◎ 선택요금제도

	내 용
선택(Ⅰ) 요금	기본요금이 낮고 전력량요금이 높으므로 전기사용시간(설비가동률)이 월200시간 이하인 고객에 유리
선택(Ⅱ) 요금	전기사용시간(설비가동률)이 월200시간 초과 500시간 이하인 고객에게 유리
선택(Ⅲ) 요금	기본요금이 높고 전력량요금이 낮으므로 전기사용시간(설비가동률)이 월500시간 초과인 고객에게 유리

◎ 전압구분

	적용범위
저압	표준전압 220V, 380V 고객
고압A	표준전압 3,300V 이상 66,000V 이하 고객
고압B	표준전압 154,000V 고객
고압C	표준전압 345,000V 이상 고객

◎ 계절별 시간대별 구분

※ 1. 일반용전력(갑)Ⅱ, 산업용전력(갑)Ⅱ, 일반용전력(을), 산업용전력(을), 교육용전력(을)

	여름철 (6~8월)	봄·가을철 (3~5, 9~10월)	겨울철 (11~2월)
경 부 하	23:00~09:00	23:00~09:00	23:00~09:00
중간부하	09:00~10:00	09:00~10:00	09:00~10:00
	12:00~13:00	12:00~13:00	12:00~17:00
	17:00~23:00	17:00~23:00	20:00~22:00
최대부하	10:00~12:00	10:00~12:00	10:00~12:00
	13:00~17:00	13:00~17:00	17:00~20:00
			22:00~23:00

※ 다만, 1. 공휴일의 최대수요전력 및 사용전력량은 경부하시간대에 계량하고, 공휴일이 아닌 토요일 최대부하시간대의 사용전력량은 중간부하시간대에 계량함

1. 일반용전력(갑)Ⅱ, 산업용전력(갑)Ⅱ, 일반용전력(을), 산업용전력(을), 교육용전력(을)

2. 요금적용전력은 중간부하시간대와 최대부하시간대의 최대수요전력 중 큰 것을 대상으로 하여 제68조(요금적용전력의 결정)에 따라 산정

3. 제1호의 공휴일이라 함은 "관공서의 공휴일에 관한 규정"에 정한 공휴일임. 이 경우 정부에서 수시로 지정하는 임시공휴일은 제외

자료: cyber.kepco.co.kr(한전사이버지점)

Source: cyber.kepco.co.kr



6. 신재생에너지

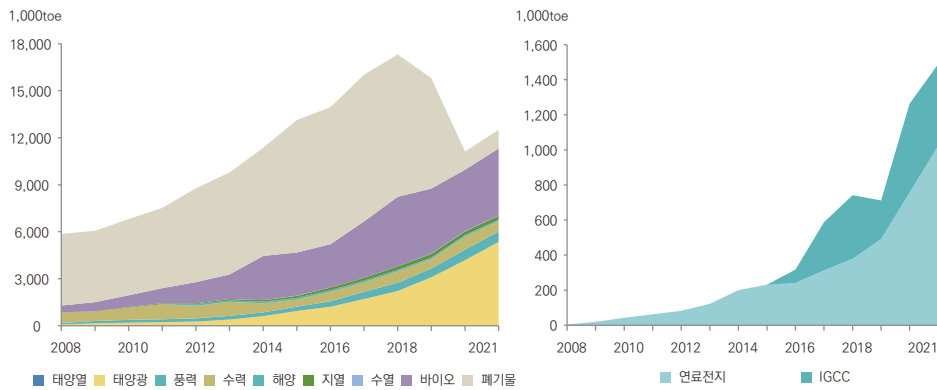
Renewable Energy

1. 신재생에너지 생산량(열량)
Production of New & Renewable Energy(Calorific Unit)
2. 신재생에너지 생산량(고유단위)
Production of New & Renewable Energy(Original Unit)
3. 신재생에너지 발전량
Generation of New & Renewable Energy
4. 신재생에너지 보급용량(발전-신규)
Facility of New & Renewable Energy
(Generation-New)
5. 신재생에너지 보급용량(발전-누적)
Facility of New & Renewable Energy
(Generation-Accumulate)
6. 신재생에너지 보급용량(발전외-신규)
Facility of New & Renewable Energy
(Except generation-New)
7. 신재생에너지 보급용량(발전외-누적)
Facility of New & Renewable Energy
(Except generation-Accumulate)



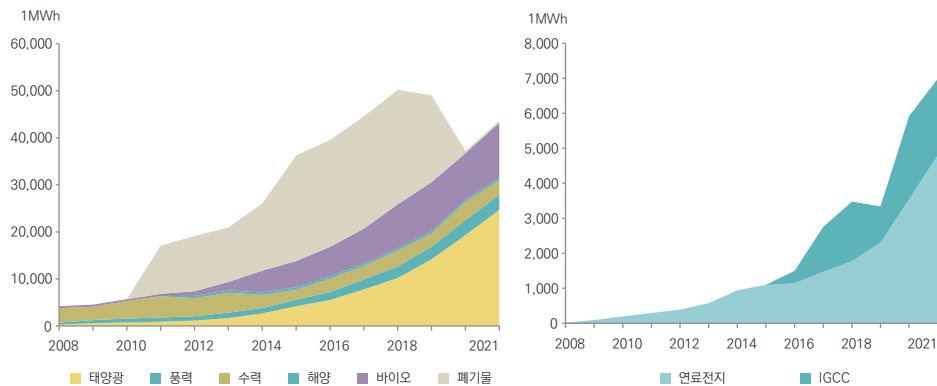
● 신재생에너지 생산량 Production of New & Renewable Energy(Calorific Unit)

〈2008~2021〉



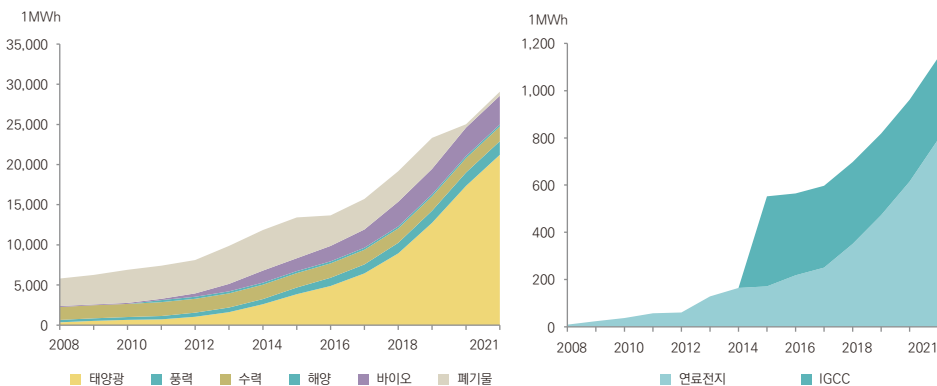
● 신재생에너지 발전량 Generation of New & Renewable Energy

〈2008~2021〉



● 신재생에너지 보급용량(발전-누적) Facility of New & Renewable Energy(Generation-Accumulate)

〈2008~2021〉



1. 신재생에너지 생산량(열량)

※ 2019년 4/4분기 비재생폐기물 제외

단위: toe

	2008	2009	2010	2011	2012	2013	2014
신재생에너지합계(toe)	5,858,479	6,086,254	6,856,419	7,584,042	8,856,234	9,893,583	11,569,103
재생에너지	5,854,112	6,067,061	6,814,072	7,520,697	8,773,722	9,771,165	11,369,732
신에너지	4,367	19,193	42,347	63,345	82,512	122,418	199,371
재생에너지							
태양열	28,036	30,669	29,257	27,435	26,259	27,812	28,459
태양광 ⁸	61,127	121,736	166,287	198,393	243,033	358,816	579,181
사업용	46,507	101,049	137,032	158,095	179,899	274,755	449,975
자가용	14,620	20,687	29,255	40,298	63,134	84,061	129,206
풍력	93,747	147,351	175,645	185,521	192,677	242,361	241,857
사업용	92,654	146,249	174,531	184,394	191,682	241,289	240,223
자가용	1,093	1,102	1,114	1,127	995	1,072	1,634
수력 ¹	660,148	606,629	792,293	965,373	814,933	892,232	581,186
사업용	660,083	606,549	792,075	965,120	814,537	891,015	579,882
자가용	65	80	218	253	396	1,217	1,304
해양	-	-	223	11,246	98,310	102,077	103,848
지열	15,726	22,126	33,449	47,833	65,277	86,959	108,472
수열	-	-	-	-	-	-	-
바이오	426,760	580,419	754,623	963,363	1,334,724	1,558,493	2,821,996
바이오가스	45,386	50,865	80,343	91,184	107,430	139,370	142,937
매립지가스	119,990	128,302	114,990	124,220	116,073	97,497	79,918
바이오디젤	177,642	254,189	356,822	336,054	359,916	369,081	387,699
우드칩 ⁵	13,320	20,075	132,230	163,022	164,542	168,466	190,687
성형탄	29,186	24,102	23,053	24,591	23,857	23,517	24,927
임산연료 ⁷	41,236	49,309	23,419	23,665	56,481	49,622	5,163
목재펠릿 ⁵	-	53,577	23,766	50,995	120,055	268,129	795,215
폐목재 ²	-	-	-	149,632	140,874	175,983	191,142
흑액	-	-	-	-	228,337	229,254	322,304
하수슬러지고형연료	-	-	-	-	17,159	37,574	41,477
Bio-SRF ⁵	-	-	-	-	-	-	527,270
바이오 증류	-	-	-	-	-	-	113,257
폐기물	4,568,568	4,558,131	4,862,296	5,121,533	5,998,509	6,502,414	6,904,733
폐가스	1,969,304	2,015,279	2,114,825	2,175,167	2,999,138	3,343,253	4,148,491
산업폐기물	772,544	802,560	851,834	873,206	860,472	886,943	780,801
생활폐기물 ⁶	44,108	58,455	94,406	184,506	147,247	169,121	157,178
대형도시쓰레기 ⁶	638,447	660,511	717,671	753,252	748,372	698,870	725,420
시멘트킬른보조연료	568,110	543,179	618,082	681,415	752,890	899,151	837,114
RDF/RPF/TDF ^{3,4}	60,584	45,393	93,275	220,171	261,022	286,419	-
SRF ⁴	-	-	-	-	-	-	58,935
정제연료유	306,861	260,354	227,497	233,816	229,368	218,657	196,794
폐목재 ²	208,610	172,400	144,706	-	-	-	-
신에너지							
연료전지	4,367	19,193	42,347	63,345	82,512	122,418	199,371
사업용	2,888	17,578	40,436	60,730	78,987	118,348	194,714
자가용	1,479	1,615	1,911	2,615	3,525	4,070	4,657
IGCC	-	-	-	-	-	-	-

1. 수력은 양수발전 제외하며, '03년부터 수력에 대수력(10MW) 포함

2. '11년부터 폐목재는 폐기물에서 바이오로 분류변경

3. '11년부터 TDF 추가

4. '14년부터 RDF/RPF/TDF는 SRF로 대체 조사

5. '14년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

6. '15년부터 대형도시쓰레기는 생활폐기물로 포함

7. '17년부터 임산연료는 행정자료 제공 기관(산림청 : 임산통계연보)의 통계수집 방법 변경

8. 2010년부터 유관기관 행정자료를 활용하여 민간자본 태양광 누락설비 추가반영, 에너지밸런스는 미반영

주 : 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정('19.10.01 시행)에 따라 폐기물에너지 중 비재생폐기물은 제외
자료 : 한국에너지공단

1. Production of New & Renewable Energy(Calorific Unit)

※ For the fourth quarter 2019, non-renewable waste data is excluded.

Unit: toe

2015	2016	2017	2018	2019	2020	2021	
13,350,608	14,268,768	16,604,536	18,059,346	16,524,882	12,378,065	14,000,317	Total
13,119,143	13,951,097	16,017,457	17,318,186	15,813,116	11,115,797	12,510,554	Renewable energy
231,465	317,672	587,079	741,160	711,766	1,262,268	1,489,762	New energy
							Renewable energy
28,387	28,341	27,949	27,198	26,688	26,048	25,568	Solar Thermal
907,060	1,183,384	1,672,743	2,196,855	3,062,023	4,165,154	5,317,227	Solar Photovoltaic ⁸
731,025	947,609	1,325,013	1,750,684	2,504,790	3,504,379	4,567,632	Business
176,035	235,775	347,730	446,171	557,234	660,775	749,595	Private
283,467	355,356	462,184	525,210	570,836	671,107	677,507	Wind Power
281,026	352,953	459,848	522,772	568,596	668,708	675,174	Business
2,441	2,403	2,336	2,438	2,241	2,398	2,332	Private
453,787	603,244	600,690	718,787	594,539	826,344	651,227	Hydro Power ¹
452,157	602,578	599,897	718,140	593,974	825,838	650,633	Business
1,630	666	793	647	565	506	594	Private
104,731	104,562	104,256	103,380	101,030	97,397	96,911	Ocean
135,046	162,041	183,913	205,442	224,698	240,933	255,590	Geothermal
4,791	5,989	7,941	14,725	21,398	23,647	24,756	Hydro Thermal
2,765,657	2,765,453	3,598,782	4,442,376	4,162,427	3,899,174	4,263,576	Bio
108,734	95,000	98,123	91,740	96,281	95,385	114,343	Bio Gas
75,804	71,133	77,036	65,179	75,518	62,190	81,226	LFG
441,345	442,859	428,053	683,234	699,713	689,957	597,068	Bio Diesel
373,308	223,392	122,443	140,232	226,865	237,346	231,309	Wood Chip ⁵
15,828	15,432	15,663	17,221	16,505	10,858	10,598	Wood Briquette
44,790	123,810	648,298	674,167	131,073	142,876	96,770	Fire Wood ⁷
823,763	817,172	1,099,049	1,486,488	1,543,390	1,325,675	1,787,454	Wood Pellet ⁵
103,998	82,395	75,605	73,771	66,663	72,501	66,622	Waste Wood ²
231,008	228,848	230,016	218,902	205,286	197,589	212,208	Black Liquor
78,484	77,843	100,749	114,451	102,061	154,832	152,762	Sewage Solid Fuel
208,392	281,394	437,734	532,943	510,194	501,406	522,913	Bio-SRF ⁵
260,203	306,175	266,012	344,048	488,877	408,559	390,302	Biobunker
8,436,217	8,742,727	9,358,998	9,084,212	7,049,477	1,165,993	1,198,193	Waste
5,345,343	5,189,393	5,561,785	5,628,536	4,214,432	-	-	Waste Gas
925,376	944,486	953,426	944,887	747,659	308,446	308,638	Industrial Wastes
972,271	949,551	1,001,529	994,424	828,116	410,219	420,039	Living Wastes ⁶
-	-	-	-	-	-	-	Municipal Solid Wastes ⁶
807,229	661,278	654,136	626,621	577,577	234,334	272,998	Cement Kiln Fuel
-	-	-	-	-	-	-	RDF/RPF/TDF ^{3,4}
207,638	821,614	1,005,761	695,021	546,511	212,993	196,517	SRF ⁴
178,360	176,405	182,361	194,723	135,182	-	-	Refinery Fuel Oil
-	-	-	-	-	-	-	Wood waste ²
							New energy
230,180	241,568	313,218	378,633	492,105	755,887	1,023,132	Fuel Cells
226,069	237,279	308,375	371,004	480,826	742,434	1,006,930	Business
4,111	4,289	4,844	7,629	11,279	13,453	16,202	Private
1,285	76,104	273,861	362,527	219,661	506,381	466,631	IGCC

1. Pumped-storage(hydro) has been excluded. Large-hydro(10MW) has been included.

2. Classification has been modified from Waste to Bio since 2011

3. TDF has been added since 2011

4. SRF has substituted for RDF/RPF/TDF since 2014.

5. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014.

6. Municipal solid wastes has been included in Living wastes since 2015.

7. Collection of Korea Forest Service was changed since 2017.

8. adds the missing private units since 2010.

Note: Non-renewable waste data has been excluded since the fourth quarter 2019.

Source: Korea Energy Agency

2. 신재생에너지 생산량(고유단위)

※ 2019년 4/4분기 비재생폐기물 제외

	2008	2009	2010	2011	2012	2013	2014
태양열(toe)	28,036	30,669	29,257	27,435	26,259	27,812	28,459
태양광(MWh) ⁷	284,316	566,212	773,425	922,755	1,127,097	1,667,641	2,694,350
사업용	216,314	469,994	637,359	735,327	852,602	1,302,158	2,132,582
자가용	68,002	96,218	136,066	187,428	274,495	365,483	561,768
풍력(MWh)	436,034	685,353	816,950	862,884	912,760	1,148,179	1,145,557
사업용	430,950	680,228	811,772	857,646	908,447	1,143,549	1,138,496
자가용	5,084	5,125	5,182	5,243	4,326	4,662	7,105
수력(MWh) ¹	3,070,458	2,821,530	3,685,090	4,490,107	3,862,087	4,228,112	2,753,924
사업용	3,070,156	2,821,157	3,684,075	4,488,929	3,860,364	4,222,822	2,748,254
자가용	302	373	1,015	1,178	1,723	5,290	5,670
해양(MWh)	-	-	1,039	52,307	465,924	483,777	492,172
사업용	-	-	1,039	52,307	465,924	483,777	492,172
지열(toe)	15,726	22,126	33,449	47,833	65,277	86,959	108,472
수열(toe)	-	-	-	-	-	-	-
바이오							
바이오가스(천증기톤)	842	944	1,491	1,692	1,993	2,586	2,652
매립지가스(천증기톤)	2,226	2,380	2,133	2,305	2,153	1,809	1,483
바이오디젤(Tco _l)	1,776	2,542	3,568	3,361	3,599	3,691	3,877
우드칩(Tco _l) ⁵	133	201	1,322	1,630	1,645	1,685	1,907
성형탄(Tco _l)	292	241	231	246	239	235	249
임산연료(Tco _l)	412	493	234	237	565	496	52
목재펠릿(Tco _l) ⁵	-	536	238	510	1,201	2,681	7,952
폐목재(천증기톤) ²	-	-	-	2,776	2,614	3,265	3,546
흑액(Tco _l)	-	-	-	-	2,283	2,293	3,223
하수슬러지 고품연료(Tco _l)	-	-	-	-	172	376	415
Bio-SRF(Tco _l) ⁵	-	-	-	-	-	-	5,273
바이오중유(Tco _l)	-	-	-	-	-	-	1,133
폐기물							
폐가스(천증기톤)	36,536	37,389	39,236	40,356	55,643	62,027	76,966
산업폐기물(천증기톤)	14,333	14,890	15,804	16,200	15,964	16,455	14,486
생활폐기물(천증기톤) ⁶	818	1,085	1,752	3,423	2,732	3,138	2,916
대형도시쓰레기(천증기톤) ⁶	11,845	12,254	13,315	13,975	13,884	12,966	13,459
시멘트킬른보조연료(천증기톤)	10,540	10,078	11,467	12,642	13,968	16,682	15,531
RDF/RPF/TDF(Tco _l) ^{3,4}	606	454	933	2,202	2,610	2,864	-
SRF(Tco _l) ⁴	-	-	-	-	-	-	589
정제연료유(Tco _l)	3,069	2,604	2,275	2,338	2,294	2,187	1,968
폐목재(천증기톤) ²	3,870	3,199	2,685	-	-	-	-
연료전지(MWh)	20,310	89,270	196,960	294,621	389,664	578,578	943,056
사업용	13,432	81,759	188,072	282,463	374,347	560,890	922,817
자가용	6,878	7,511	8,888	12,162	15,325	17,696	20,247
IGCC(MWh)	-	-	-	-	-	-	-
사업용	-	-	-	-	-	-	-

1. 수력은 양수발전 제외하며, 2003년부터 수력에 대수력(10MW) 포함

2. 2011년부터 폐목재는 폐기물에서 바이오로 분류변경

3. 2011년부터 TDF 추가

4. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

5. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

6. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

7. 2010년부터 유관기관 행정자료를 활용하여 민간자본 태양광 누락설비 추가반영, 에너지밸런스에는 미반영

주: 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정(2019.10.01 시행)에 따라 폐기물에너지 중 비재생폐기물은 제외

자료: 한국에너지공단

2. Production of New & Renewable Energy(Original Unit)

※ For the fourth quarter 2019, non-renewable waste data is excluded.

2015	2016	2017	2018	2019	2020	2021	
28,387	28,341	27,949	27,198	26,688	26,048	25,568	Solar Thermal(toe)
4,229,946	5,516,146	7,739,189	10,167,519	14,192,911	19,337,964	24,717,623	Solar Photovoltaic(MWh) ⁷
3,464,576	4,491,036	6,220,719	8,219,173	11,759,577	16,452,484	21,444,281	Business
765,371	1,025,111	1,518,470	1,948,345	2,433,335	2,885,480	3,273,342	Private
1,342,439	1,683,142	2,169,014	2,464,879	2,679,158	3,149,948	3,180,017	Wind Power(MWh)
1,331,877	1,672,764	2,158,913	2,454,329	2,669,463	3,139,475	3,169,833	Business
10,614	10,450	10,199	10,645	9,785	10,474	10,184	Private
2,150,013	2,858,714	2,819,882	3,374,375	2,791,076	3,879,383	3,057,210	Hydro Power(MWh) ¹
2,142,922	2,855,818	2,816,419	3,371,552	2,788,609	3,877,175	3,054,616	Business
7,091	2,895	3,463	2,823	2,467	2,208	2,595	Private
496,354	495,556	489,466	485,353	474,321	457,263	454,980	Ocean(MWh)
496,354	495,556	489,466	485,353	474,321	457,263	454,980	Business
135,046	162,041	183,913	205,442	224,698	240,933	255,590	Geothermal(toe)
4,791	5,989	7,941	14,725	21,398	23,647	24,756	Hydro Thermal(toe)
							Bio
2,017	1,763	1,820	1,702	1,786	1,770	2,121	Bio gas(1,000 steam Ton)
1,406	1,320	1,429	1,209	1,401	1,154	1,507	LFG(1,000 steam Ton)
4,413	4,429	4,281	6,832	6,997	6,900	5,971	Bio-Diesel(Ton)
3,733	2,234	1,224	1,402	2,269	2,373	2,313	Wood Chip(Ton) ⁵
158	154	157	172	165	109	106	Wood Briquette(Ton)
448	1,238	6,483	6,742	1,311	1,429	968	Fire Wood(Ton)
8,238	8,172	10,990	14,865	15,434	13,257	17,875	Wood Pellet(Ton) ⁵
1,929	1,529	1,403	1,369	1,237	1,345	1,236	Waste Wood(1,000 steam Ton) ²
2,310	2,288	2,300	2,189	2,053	1,976	2,122	Black Liquor(Ton)
785	778	1,007	1,145	1,021	1,548	1,528	Sewage Solid Fuel(Ton)
2,084	2,814	4,377	5,329	5,102	5,014	5,229	Bio-SRF(Ton) ⁵
2,602	3,062	2,660	3,440	4,889	4,086	3,903	Bio-bunker(Ton)
							Waste
99,171	96,278	103,187	104,426	78,190	-	-	Waste Gas(1,000 steam ton)
17,168	17,523	17,689	17,530	13,871	5,723	5,726	Industrial Wastes(1,000 steam ton)
18,038	17,617	18,581	18,449	15,364	7,611	7,793	Living Wastes(1,000 steam ton) ⁶
-	-	-	-	-	-	-	Municipal Solid Wastes(1,000 steam ton) ⁶
14,976	12,269	12,136	11,626	10,716	4,348	5,065	Cement Kiln Fuel(1,000 steam ton)
-	-	-	-	-	-	-	RDF/RPF/TDA(Ton) ^{3,4}
2,076	8,216	10,058	6,950	5,465	2,130	1,965	SRF(Ton) ⁴
1,784	1,764	1,824	1,947	1,352	-	-	Refinery Fuel Oil(Ton)
-	-	-	-	-	-	-	Waste Wood(1,000 steam ton) ²
1,089,260	1,143,402	1,469,289	1,764,948	2,285,164	3,544,354	4,798,120	Fuel Cells(MWh)
1,071,418	1,124,544	1,447,768	1,741,801	2,257,401	3,485,608	4,727,370	Business
17,871	18,647	21,151	33,314	49,254	58,746	70,750	Private
6,089	360,681	1,285,733	1,702,006	1,031,272	2,377,374	2,190,755	IGCC(MWh)
6,089	360,681	1,285,733	1,702,006	1,031,272	2,377,374	2,190,755	Business

1. Pumped-storage(hydro) has been excluded. Large-hydro(10MW) has been included

2. Classification has been modified from Waste to Bio since 2011

3. TDF has been added since 2011

4. SRF has substituted for RDF/RPF/TDF since 2014

5. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014

6. Municipal solid wastes has been included in Living wastes since 2015

7. adds the missing private units since 2010

Note: Non-renewable waste data has been excluded since the fourth quarter 2019

Source: Korea Energy Agency

3. 신재생에너지 발전량

※ 2019년 4/4분기 비재생폐기물 제외

단위: MWh

	2008	2009	2010	2011	2012	2013	2014
신·재생에너지 총발전량	4,227,477	4,617,907	5,890,180	17,351,213	19,521,955	21,500,322	27,020,292
산업용	4,147,211	4,508,680	5,731,502	12,712,005	12,768,554	15,348,683	20,910,666
자가용	80,266	109,227	158,678	4,639,208	6,753,401	6,151,639	6,109,626
재생에너지	4,207,167	4,528,637	5,693,220	17,056,588	19,132,283	20,921,736	26,077,228
산업용	4,133,779	4,426,921	5,543,430	12,429,542	12,394,207	14,787,793	19,987,849
자가용	73,388	101,716	149,790	4,627,046	6,738,076	6,133,943	6,089,379
신에너지	20,310	89,270	196,960	294,625	389,672	578,586	943,064
산업용	13,432	81,759	188,072	282,463	374,347	560,890	922,817
자가용	6,878	7,511	8,888	12,162	15,325	17,696	20,247
재생에너지							
태양광							
산업용	284,316	566,212	773,425	922,755	1,127,097	1,667,641	2,694,350
자가용	216,314	469,994	637,359	735,327	852,602	1,302,158	2,132,582
풍력	68,002	96,218	136,066	187,428	274,495	365,483	561,768
산업용	436,034	685,353	816,954	862,889	912,773	1,148,211	1,145,601
자가용	430,950	680,228	811,772	857,646	908,447	1,143,549	1,138,496
수력 ¹⁾	5,084	5,125	5,182	5,243	4,326	4,662	7,105
산업용	3,070,458	2,821,530	3,685,090	4,490,107	3,862,087	4,228,112	2,753,924
자가용	3,070,156	2,821,157	3,684,075	4,488,929	3,860,364	4,222,822	2,748,254
해양	302	373	1,015	1,178	1,723	5,290	5,670
산업용	-	-	1,039	52,307	465,924	483,777	492,172
자가용	-	-	1,039	52,307	465,924	483,777	492,172
바이오 ²⁾	416,359	455,542	416,713	524,623	1,027,251	1,839,568	4,656,237
산업용	416,359	455,542	409,185	469,805	654,430	1,366,716	4,225,476
자가용	-	-	7,528	54,818	372,821	472,852	430,761
바이오가스	3,363	6,814	17,401	44,860	38,973	99,810	94,930
산업용	3,363	6,814	9,873	20,263	15,461	37,480	47,507
자가용	-	-	7,528	24,597	23,512	62,330	47,423
매립가스	412,996	448,728	399,312	440,814	419,409	293,298	253,024
산업용	412,996	448,728	399,312	440,814	419,409	293,298	246,543
자가용	-	-	-	-	-	-	6,481
우드칩 ⁴⁾	-	-	-	8,728	88,060	119,712	106,168
산업용	-	-	-	8,728	23,057	62,111	105,908
자가용	-	-	-	-	65,003	57,601	260
목재펠릿 ⁵⁾	-	-	-	-	83,015	696,539	2,764,069
산업용	-	-	-	-	83,015	696,539	2,764,069
자가용	-	-	-	-	-	-	-
폐목재	-	-	-	30,221	40,534	178,215	90,472
산업용	-	-	-	30,221	32,168	99,211	90,472
자가용	-	-	-	-	8,366	79,004	90,472
흑액	-	-	-	-	275,940	273,917	274,248
자가용	-	-	-	-	275,940	273,917	274,248
하수슬러지 고형연료	-	-	-	-	81,320	178,077	195,307
산업용	-	-	-	-	81,320	178,077	195,307
Bio-SRF ⁶⁾	-	-	-	-	-	-	341,254
산업용	-	-	-	-	-	-	329,377
자가용	-	-	-	-	-	-	11,877
바이오중유	-	-	-	-	-	-	536,765
산업용	-	-	-	-	-	-	536,765
폐기물 ⁷⁾	-	-	-	10,203,907	11,737,151	11,554,426	14,334,944
산업용	-	-	-	5,825,528	5,652,440	6,268,771	9,250,869
자가용	-	-	-	4,378,379	6,084,711	5,285,655	5,084,075
폐가스	-	-	-	9,862,615	11,162,731	11,092,956	13,737,289
산업용	-	-	-	5,568,052	5,459,106	6,060,450	8,924,777
자가용	-	-	-	4,294,563	5,703,625	5,032,506	4,812,512
산업폐기물	-	-	-	45,713	27,598	23,410	66,381
산업용	-	-	-	11,708	4,600	11,613	51,158
자가용	-	-	-	34,005	22,998	11,797	15,223
생활폐기물 ⁸⁾	-	-	-	56,708	100,697	181,142	234,469
산업용	-	-	-	48,298	57,725	92,857	102,300
자가용	-	-	-	8,410	42,972	88,285	132,169
대형도시쓰레기 ⁹⁾	-	-	-	238,871	439,281	238,807	185,230
산업용	-	-	-	197,470	124,165	85,740	61,059
자가용	-	-	-	41,401	315,116	153,067	124,171
RDF/RPF/TDF ³⁾	-	-	-	-	6,844	18,111	-
산업용	-	-	-	-	6,844	18,111	-
SRF ³⁾	-	-	-	-	-	-	111,575
산업용	-	-	-	-	-	-	111,575
자가용	-	-	-	-	-	-	-
시멘트킬른보조연료	-	-	-	-	-	-	-
자가용	-	-	-	-	-	-	-
정제연료유	-	-	-	-	-	-	-
산업용	-	-	-	-	-	-	-
신에너지							
연료전지	20,310	89,270	196,960	294,625	389,672	578,586	943,064
산업용	13,432	81,759	188,072	282,463	374,347	560,890	922,817
자가용	6,878	7,511	8,888	12,162	15,325	17,696	20,247
IGCC							
산업용	-	-	-	-	-	-	-

1. 수력은 양수발전 제외하며, 2003년부터 수력에 대수력(10MW) 포함

2. 2012년부터 RPS 공급인증서 발급대상 바이오, 폐기물 혼소발전은 혼소비율을 반영하여 발전량 산정

3. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

4. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

5. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

6. 2010년부터 유관기관 행정자료를 활용하여 민간자본 태양광 누락설비 추가반영, 에너지밸런스에 미반영

주: 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정(2019.10.01 시행)에 따라 폐기물에너지 중 비재생폐기물은 제외

자료: 한국에너지공단

3. Generation of New & Renewable Energy

※ For the fourth quarter 2019, non-renewable waste data is excluded.

Unit: MWh

2015	2016	2017	2018	2019	2020	2021		
37,329,731	41,049,367	47,306,018	53,687,940	52,340,558	43,123,776	50,657,393	Total	
23,829,001	26,806,171	31,649,620	37,255,151	38,028,933	39,791,354	46,856,560		Business
13,500,729	14,243,197	15,656,398	16,432,789	14,311,625	3,332,422	3,800,833		Private
36,234,353	39,545,496	44,551,367	50,210,819	49,002,632	37,202,048	43,668,518	Renewable energy	Business
22,751,494	25,320,946	28,916,119	33,811,345	34,740,260	33,928,372	39,938,435		Private
13,482,859	14,224,550	15,635,247	16,399,475	14,262,371	3,273,676	3,730,083	New energy	Business
1,095,378	1,503,871	2,754,652	3,477,121	3,337,926	5,921,728	6,968,875		Private
1,077,507	1,485,225	2,733,501	3,443,807	3,288,673	5,862,982	6,918,125		Business
17,871	18,647	21,151	33,314	49,254	58,746	70,750		Private
							Renewable energy	
4,229,946	5,516,146	7,739,189	10,167,519	14,192,911	19,337,964	24,717,623	Solar photovoltaic	Business
3,464,576	4,491,036	6,220,719	8,219,173	11,759,577	16,452,484	21,444,281		Private ⁶
765,371	1,025,111	1,518,470	1,948,345	2,433,335	2,885,480	3,273,342	Wind power	Business
1,342,491	1,683,214	2,169,112	2,464,974	2,679,248	3,149,948	3,180,017		Private
1,331,877	1,672,764	2,158,913	2,454,329	2,669,463	3,139,475	3,169,833	Hydro power ¹	Business
10,614	10,450	10,199	10,645	9,785	10,474	10,184		Private
2,150,013	2,858,714	2,819,882	3,374,375	2,791,076	3,879,383	3,057,210	Ocean	Business
2,142,922	2,855,818	2,816,419	3,371,552	2,788,609	3,877,175	3,054,616		Private
7,091	2,895	3,463	2,823	2,467	2,208	2,595	Bio ²	Business
496,354	495,556	489,466	485,353	474,321	457,263	454,980		Private
496,354	495,556	489,466	485,353	474,321	457,263	454,980	Bio gas	Business
5,546,583	6,237,564	7,466,664	9,363,229	10,415,632	9,938,354	11,788,068		Private
5,165,641	5,940,066	7,178,784	9,076,016	10,111,154	9,664,364	11,454,757	LFG	Business
380,942	297,498	287,879	287,213	304,478	273,990	333,310		Private
121,142	138,600	170,599	175,007	195,247	179,046	191,081	Wood chip ⁴	Business
92,207	100,320	142,362	144,461	168,409	149,710	174,406		Private
28,935	38,279	28,236	30,546	26,838	29,336	16,675	Wood pellet ⁴	Business
252,312	238,584	255,827	242,172	239,527	180,043	187,485		Private
246,589	238,584	255,827	242,172	239,527	180,043	187,485	Waste wood	Business
5,723	-	-	-	-	-	-		Private
132,176	54,486	52,518	53,786	41,753	99,242	222,248	Black liquor	Business
131,297	54,486	52,518	53,786	41,753	95,538	167,583		Private
879	-	-	-	-	3,704	54,665	Sewage solid fuel	Business
2,512,521	2,679,313	3,722,931	4,837,318	4,959,229	4,926,845	6,794,232		Private
2,508,862	2,679,313	3,722,931	4,837,318	4,959,229	4,926,845	6,794,232	Bio-SRF ⁴	Business
3,659	-	-	-	-	-	-		Private
96,324	-	-	-	-	-	-	Waste gas	Business
17,953	-	-	-	-	-	-		Private
78,331	-	-	-	-	-	-	Industrial wastes	Business
263,411	259,219	259,643	256,667	277,640	240,950	261,970		Private
263,411	259,219	259,643	256,667	277,640	240,950	261,970	Living wastes ⁵	Business
282,542	284,973	331,095	405,314	338,143	410,193	406,146		Private
282,542	284,973	331,095	405,314	338,143	410,193	406,146	Municipal solid wastes ⁵	Business
652,965	1,127,409	1,431,740	1,782,965	2,068,895	1,983,916	1,892,499		Private
652,961	1,127,409	1,431,740	1,782,965	2,068,895	1,983,916	1,892,499	RDF/RPF/TDF ³	Business
4	-	-	-	-	-	-		Private
1,233,190	1,454,982	1,242,311	1,609,999	2,295,198	1,918,119	1,832,406	SRF ³	Business
1,233,190	1,454,982	1,242,311	1,609,999	2,295,198	1,918,119	1,832,406		Private
22,468,966	22,754,303	23,867,053	24,355,370	18,449,443	439,137	470,620	Cement kiln fuel	Business
10,150,125	9,865,706	10,051,818	10,204,921	6,937,137	337,612	359,968		Private
12,318,841	12,888,596	13,815,235	14,150,448	11,512,307	101,525	110,652	Refinery fuel oil	Business
21,419,499	21,672,062	22,892,836	23,310,983	17,574,387	-	-		Private
9,503,822	9,217,232	9,334,436	9,445,991	6,281,275	-	-	New energy	Business
11,915,677	12,454,830	13,558,400	13,864,992	11,293,112	-	-	Fuel cells	Business
86,666	174,950	159,714	158,923	157,812	91,821	108,574		Private
57,544	174,903	156,506	153,954	153,549	90,776	98,312	IGCC	Business
29,122	47	3,208	4,969	4,263	1,045	10,263		Private
694,377	406,578	371,828	381,641	307,864	187,677	222,835		Business
397,335	128,816	125,992	115,601	102,506	91,181	128,370		Private
297,042	277,762	245,836	266,040	205,358	96,496	94,465		Business
-	-	-	-	-	-	-		Private
-	-	-	-	-	-	-		Business
-	-	-	-	-	-	-		Private
-	-	-	-	-	-	-		Business
-	-	-	-	-	-	-		Private
171,900	312,740	411,991	455,951	392,976	159,639	139,211		Business
171,900	312,740	404,199	441,504	383,403	155,654	133,286		Private
77,000	155,957	7,792	14,447	9,573	3,984	5,924		Business
77,000	155,957	-	-	-	-	-		Private
19,524	32,016	30,684	47,871	16,404	-	-		Business
19,524	32,016	30,684	47,871	16,404	-	-		Private
1,089,289	1,143,191	1,468,919	1,775,115	2,306,654	3,544,354	4,798,120		Business
1,071,418	1,124,544	1,447,768	1,741,801	2,257,401	3,485,608	4,727,370		Private
17,871	18,647	21,151	33,314	49,254	58,746	70,750		Business
6,089	360,681	1,285,733	1,702,006	1,031,272	2,377,374	2,190,755		Private
6,089	360,681	1,285,733	1,702,006	1,031,272	2,377,374	2,190,755		Business

1. Pumped-storage(hydro) has been excluded. Large-hydro(10MW) has been included

2. Co-firing is calculated by the blending ratio since 2012

3. SRF has substituted for RDF/RPF/TDF since 2014

4. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014

5. Municipal solid wastes has been included in Living wastes since 2015

6. adds the missing private units since 2010

Note: Non-renewable waste data has been excluded since the fourth quarter 2019

Source: Korea Energy Agency

4. 신재생에너지 보급용량(발전·신규)

단위: kW

	2008	2009	2010	2011	2012	2013	2014
신·재생에너지 총보급용량	413,527	451,054	663,716	539,173	702,171	1,833,181	1,997,420
태양광 ^{3,8}	396,901	417,830	617,190	485,865	612,116	1,713,242	1,833,249
사업용 ⁴	16,626	33,224	46,526	53,308	90,055	119,939	164,171
자가용 ⁴	275,665	166,838	127,781	85,416	315,909	567,770	1,001,294
풍력 ³	259,110	142,657	92,350	42,983	232,978	467,422	857,353
사업용 ⁴	16,555	24,181	35,431	42,433	82,931	100,348	143,941
자가용 ⁵	105,270	35,276	33,436	51,944	72,811	91,906	61,363
수력 ^{2,3}	105,250	35,250	33,400	51,813	67,300	91,900	60,880
사업용 ⁴	20	26	36	131	5,511	6	483
자가용 ⁴	5,680	13,433	5,520	96,619	27,700	7,508	14,356
해양 ³	5,680	13,433	5,210	96,309	27,645	6,709	14,256
사업용 ⁴	-	-	310	310	55	799	100
바이오 ^{1,3}	-	1,000	-	254,000	110	-	-
사업용 ⁴	-	1,000	-	254,000	110	-	-
자가용 ⁴	8,601	3,534	729	23,790	268,163	526,388	576,261
바이오가스	8,601	3,390	530	20,810	267,023	508,983	573,610
사업용 ⁴	-	144	199	2,980	1,140	17,405	2,651
자가용 ⁴	541	490	279	2,150	4,530	6,252	13,210
사업용 ⁴	541	390	80	170	4,530	4,802	10,559
자가용 ⁴	-	100	199	1,980	-	1,450	2,651
매립지가스	-	-	450	-	1,024	4,176	2,860
사업용 ⁴	-	-	450	-	1,024	3,176	2,860
자가용 ⁴	-	-	-	-	-	1,000	-
우드칩 ⁶	8,060	3,044	-	-	-	14,955	1,440
사업용 ⁴	8,060	3,000	-	-	-	14,955	1,440
자가용 ⁴	-	44	-	-	-	-	-
목재펠릿 ⁶	-	-	-	20,640	181,211	414,725	153,562
사업용 ⁴	-	-	-	20,640	180,071	414,724	153,562
자가용 ⁴	-	-	-	-	1,140	0	-
폐목재	-	-	-	-	-	14,955	-
사업용 ⁴	-	-	-	-	-	-	-
자가용 ⁴	-	-	-	-	-	14,955	-
흑액	-	-	-	-	-	-	-
자가용	-	-	-	-	-	-	-
하수슬러지 고품연료	-	-	-	-	81,398	38,908	-
사업용 ⁴	-	-	-	-	81,398	38,908	-
Bio-SRF ⁵	-	-	-	1,000	-	32,417	48,969
사업용 ⁴	-	-	-	-	-	32,417	48,969
자가용 ⁴	-	-	-	1,000	-	-	-
바이오중유	-	-	-	-	-	-	356,220
사업용 ⁴	-	-	-	-	-	-	356,220
폐기물 ^{1,3}	10,460	216,472	482,020	7,198	14,475	571,782	307,860
사업용 ⁴	10,460	207,700	471,700	300	14,260	570,768	291,110
자가용 ⁴	0	8,772	10,320	6,898	215	1,014	16,750
폐가스	-	200,000	462,000	-	15	531,600	235,100
사업용 ⁴	-	200,000	462,000	-	-	531,600	235,100
자가용 ⁴	-	-	-	-	15	-	-
산업폐기물	-	-	-	300	2,150	5,998	3,500
사업용 ⁴	-	-	-	300	2,150	5,998	2,600
자가용 ⁴	-	-	-	-	-	-	900
생활폐기물	10,460	16,472	20,020	6,898	4,950	9,384	10,160
사업용 ⁴	10,460	7,700	9,700	-	4,750	8,370	8,310
자가용 ⁴	0	8,772	10,320	6,898	200	1,014	1,850
시멘트킬른보조연료	-	-	-	-	-	-	14,000
자가용	-	-	-	-	-	-	14,000
SRF ⁵	-	-	-	-	7,360	24,800	2,990
사업용 ⁴	-	-	-	-	7,360	24,800	2,990
자가용 ⁴	-	-	-	-	-	-	-
정제연료유	-	-	-	-	-	-	42,110
사업용 ⁴	-	-	-	-	-	-	42,110
연료전지 ³	7,851	14,501	14,230	20,206	3,003	67,827	36,286
사업용 ⁴	7,800	14,400	14,000	19,650	2,800	67,460	36,040
자가용 ⁴	51	101	230	556	203	367	246
IGCC ³	-	-	-	-	-	-	-
사업용 ⁴	-	-	-	-	-	-	-

1. RPS 공급인증서 발급대상 바이오-폐기물 혼소발전은 혼소비율을 반영하여 보급용량 산정

2. 수력은 양수발전 제외하며, '03년부터 수력에 대수력(10MW) 포함

3. 태양광, 풍력, 수력, 해양, 바이오, 폐기물, 연료전지, IGCC는 각 연도별 신설 및 증설 용량임

4. 보급년도는 자가용 준공, 사업용 상업운전개시 기준임

5. '14년부터 RDF/RPF/TDF는 SRF로 대체 조사

6. '14년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

7. '15년부터 대형도시쓰레기는 생활폐기물로 포함

8. '10년부터 유관기관 행정자료를 활용하여 민간자본 태양광 누락설비 추가반영

주 : 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정('19.10.01 시행)에 따라 폐기물에너지 중 비재생폐기물은 제외

자료: 한국에너지공단

4. Facility of New & Renewable Energy(Generation-New)

Unit: kW

2015	2016	2017	2018	2019	2020	2021	Total
1,960,879	1,642,293	2,312,963	3,774,674	4,623,115	5,503,265	4,453,978	
1,761,134	1,375,144	1,931,310	3,346,217	4,223,584	5,080,008	3,907,796	Business ⁴
199,745	267,149	381,653	428,457	399,531	423,257	546,183	Private ⁴
1,225,378	1,059,562	1,583,693	2,604,968	3,927,256	4,664,287	3,915,086	Solar photovoltaic ^{5,8}
1,040,107	798,822	1,248,429	2,191,652	3,535,059	4,285,023	3,461,563	Business ⁴
185,271	260,740	335,264	413,317	392,197	379,264	453,524	Private ⁴
207,797	186,825	113,568	161,309	191,224	160,189	63,729	Wind power ³
207,599	186,750	110,456	161,258	191,201	160,050	63,600	Business ⁴
198	75	3,112	51	23	139	129	Private ⁴
2,718	19,160	6,445	4,333	11,723	3,007	18,221	Hydro power ^{2,3}
2,718	19,060	6,445	4,333	11,723	2,927	18,166	Business ⁴
-	100	-	-	-	80	55	Private ⁴
-	-	-	-	500	-	80	Ocean ³
-	-	-	-	500	-	80	Business ⁴
89,975	286,538	486,742	864,857	290,046	454,350	187,397	Bio ^{1,3}
89,975	286,538	485,992	862,757	289,277	414,350	187,397	Business ⁴
-	-	750	2,100	769	40,000	-	Private ⁴
2,675	9,003	8,115	6,049	5,569	3,925	1,499	Bio gas
2,675	9,003	7,365	3,949	4,800	3,925	1,499	Business ⁴
-	-	750	2,100	769	-	-	Private ⁴
-	1,075	-	1,098	700	925	998	LFG
-	1,075	-	1,098	700	925	998	Business ⁴
-	-	-	-	-	-	-	Private ⁴
2,950	38,900	3,512	-	6,549	44,600	8,037	Wood chip ⁷
2,950	38,900	3,512	-	6,549	4,600	8,037	Business ⁴
-	-	-	-	-	40,000	-	Private ⁴
561	200,000	333,451	165,290	43,325	259,551	151,963	Wood pellet ⁷
561	200,000	333,451	165,290	43,325	259,551	151,963	Business ⁴
-	-	-	-	-	-	-	Private ⁴
-	-	-	-	-	-	-	Waste wood
-	-	-	-	-	-	-	Business ⁴
-	-	-	-	-	-	-	Private ⁴
-	-	-	-	-	-	-	Black liquor
-	-	-	-	-	-	-	Private ⁴
-	-	49,320	44,755	20,673	-	-	Sewage solid fuel
-	-	49,320	44,755	20,673	-	-	Business ⁴
79,439	37,560	92,343	27,665	113,229	145,349	24,900	Bio-SRF ⁷
79,439	37,560	92,343	27,665	113,229	145,349	24,900	Business ⁴
-	-	-	-	-	-	-	Private ⁴
4,350	-	-	620,000	100,000	-	-	Bio bunker
4,350	-	-	620,000	100,000	-	-	Business ⁴
47,950	43,419	89,756	37,792	80,514	64,800	90,415	Waste ^{1,3}
34,035	37,854	47,608	29,006	74,634	63,000	-	Business ⁴
13,915	5,565	42,148	8,786	5,880	1,800	90,415	Private ⁴
27,250	-	30,000	-	5,200	-	-	Waste gas
16,500	-	-	-	-	-	-	Business ⁴
10,750	-	30,000	-	5,200	-	-	Private ⁴
3,165	8,265	15,997	6,906	42,233	11,400	89,920	Industrial wastes
-	5,700	10,869	6,020	42,233	11,400	-	Business ⁴
3,165	2,565	5,128	886	-	-	89,920	Private ⁴
2,035	3,160	4,020	4,060	14,780	53,400	-	Living wastes ⁷
2,035	160	-	160	14,100	51,600	-	Business ⁴
-	3,000	4,020	3,900	680	1,800	-	Private ⁴
-	-	-	-	-	-	-	Cement kiln fuel
-	-	-	-	-	-	-	Private
15,500	31,994	36,119	19,339	16,312	-	495	SRF ⁵
15,500	31,994	33,119	15,339	16,312	-	-	Business ⁴
-	-	3,000	4,000	-	-	495	Private ⁴
-	-	3,620	7,487	1,989	-	-	Refinery fuel oil
-	-	3,620	7,487	1,989	-	-	Business ⁴
6,361	46,790	32,760	101,414	121,852	156,632	179,050	Fuel cells ³
6,000	46,120	32,380	97,211	121,190	154,658	176,990	Business ⁴
361	670	380	4,203	662	1,974	2,060	Private ⁴
380,700	-	-	-	-	-	-	IGCC ³
380,700	-	-	-	-	-	-	Business ⁴

1. Co-firing is calculated by the blending ratio

2. Pumped-storage(hydro) has been excluded. Large-hydro(10MW) has been included

3. reflects the new one and extension for each year

4. is based on the initiation of commercial operation

5. is based on the completion

6. SRF has substituted for RDF/RPF/TDF since 2014

7. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014

8. adds the missing private units since 2010

Note: Non-renewable waste data has been excluded since the fourth quarter 2019

Source: Korea Energy Agency

5. 신재생에너지 보급용량(발전-누적)

단위: kW

	2008	2009	2010	2011	2012	2013	2014
신·재생에너지 총보급용량	5,813,689	6,264,774	6,927,626	7,466,823	8,169,076	10,001,583	11,999,081
태양광 ¹⁰							
사업용	2,466,937	2,884,767	3,501,957	3,987,822	4,599,938	6,313,180	8,146,429
자가용	3,346,752	3,380,007	3,425,669	3,479,001	3,569,138	3,688,403	3,852,652
태양광 ³	356,856	523,725	650,639	736,078	1,052,060	1,619,144	2,620,516
태양광 ³	298,485	441,142	533,492	576,475	809,453	1,276,875	2,134,228
태양광 ³	58,371	82,583	117,147	159,603	242,607	342,269	486,288
풍력							
사업용 ³	298,057	333,333	366,772	418,716	491,536	583,455	644,818
자가용 ³	293,795	329,045	362,445	414,258	481,558	573,458	634,338
자가용 ³	4,262	4,288	4,327	4,458	9,978	9,997	10,480
수력 ²							
사업용 ³	1,603,728	1,617,161	1,622,681	1,719,300	1,747,000	1,754,508	1,768,864
자가용 ³	1,602,547	1,615,980	1,621,190	1,717,499	1,745,144	1,751,853	1,766,109
자가용 ³	1,181	1,181	1,491	1,801	1,856	2,655	2,755
해양							
사업용 ³	-	1,000	1,000	255,000	255,110	255,110	255,110
사업용 ³	-	1,000	1,000	255,000	255,110	255,110	255,110
바이오 ^{1,4}							
사업용	115,097	118,631	119,360	143,150	411,313	937,701	1,513,962
자가용	73,232	76,622	77,152	97,962	364,985	873,968	1,447,578
바이오가스	41,865	42,009	42,208	45,188	46,328	63,733	66,384
사업용	8,217	8,707	8,986	11,136	15,666	21,918	35,128
자가용	2,717	3,107	3,187	3,357	7,887	12,689	23,248
사업용	5,500	5,600	5,799	7,779	9,229	11,880	11,880
매립지가스	58,005	58,005	58,455	58,455	59,479	63,655	66,515
사업용	58,005	58,005	58,455	58,455	59,479	62,655	65,515
자가용	-	-	-	-	-	1,000	1,000
우드칩 ⁷	8,060	11,104	11,104	11,104	11,104	26,059	27,499
사업용	8,060	11,060	11,060	11,060	11,060	26,015	27,455
자가용	-	44	44	44	44	44	44
목재펠릿 ⁷	-	-	-	20,640	201,851	616,576	770,138
사업용	-	-	-	20,640	200,711	615,435	768,997
자가용	-	-	-	-	1,140	1,140	1,140
폐목재	2,950	2,950	2,950	2,950	2,950	17,905	17,905
사업용	2,950	2,950	2,950	2,950	2,950	2,950	2,950
자가용	-	-	-	-	-	14,955	14,955
흑연	36,365	36,365	36,365	36,365	36,365	36,365	36,365
자가용	36,365	36,365	36,365	36,365	36,365	36,365	36,365
하수슬러지 고품연료	-	-	-	-	81,398	120,306	120,306
사업용	-	-	-	-	81,398	120,306	120,306
Bio-SRF ⁷	1,500	1,500	1,500	2,500	2,500	34,917	83,886
사업용	1,500	1,500	1,500	1,500	1,500	33,917	82,886
자가용	-	-	-	1,000	1,000	1,000	1,000
바이오중유	-	-	-	-	-	-	356,220
사업용	-	-	-	-	-	-	356,220
폐기물 ^{1,4,9}							
사업용	3,431,049	3,647,521	4,129,541	4,136,739	4,151,214	4,722,996	5,030,856
자가용	190,828	398,528	870,228	870,528	884,788	1,455,556	1,746,666
폐가스	3,240,221	3,248,993	3,259,313	3,266,211	3,266,426	3,267,440	3,284,190
사업용	3,364,340	3,564,340	4,026,340	4,026,340	4,026,355	4,557,955	4,793,055
자가용	154,780	354,780	816,780	816,780	816,780	1,348,380	1,583,480
산업폐기물	3,209,560	3,209,560	3,209,560	3,209,560	3,209,575	3,209,575	3,209,575
사업용	1,705	1,705	1,705	2,005	4,155	10,153	13,653
자가용	1,705	1,705	1,705	2,005	4,155	10,153	12,753
생활폐기물 ³	62,554	79,026	99,046	105,944	110,894	120,278	130,438
사업용	31,893	39,593	49,293	49,293	54,043	62,413	70,723
자가용	30,661	39,433	49,753	56,651	56,851	57,865	59,715
시멘트킬른보조연료	-	-	-	-	-	-	14,000
자가용	-	-	-	-	-	-	14,000
SRF ⁶	2,450	2,450	2,450	2,450	9,810	34,610	37,600
사업용	2,450	2,450	2,450	2,450	9,810	34,610	37,600
자가용	-	-	-	-	-	-	-
정제연료유	-	-	-	-	-	-	42,110
사업용	-	-	-	-	-	-	42,110
연료전지							
사업용 ³	8,902	23,403	37,633	57,840	60,843	128,670	164,956
자가용 ³	8,050	22,450	36,450	56,100	58,900	126,360	162,400
자가용 ³	852	953	1,183	1,740	1,943	2,310	2,556
IGCC							
사업용 ³	-	-	-	-	-	-	-

1. RPS 공급인증서 발급대상 바이오·폐기물 혼소발전은 혼소비용을 반영하여 보급용량 산정

2. 수력은 양수발전 제외하며, '03년부터 수력에 대수력(10MW) 포함

3. 태양광, 풍력, 수력, 해양, 연료전지, IGCC 사업용은 각 연도별 신설, 증·감설, 해지를 반영한 용량이며, 자가용은 각 연도별 설치용량의 단순합계임

4. 바이오 및 폐기물은 각 연도별 기준 가동설비 용량임

5. 보급년도는 자가용 준공, 사업용 상업운전개시 기준임

6. '14년부터 RDF/RPF/TDF는 SRF로 대체 조사

7. '14년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

8. '15년부터 대형도시쓰레기는 생활폐기물로 포함

9. 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정('19.10.01 시행)에 따라 폐기물에너지 중 비재생폐기물은 제외

10. '10년부터 유관기관 행정자료를 활용하여 민간자본 태양광 누락설비 추가반영

자료: 한국에너지공단

5. Facility of New & Renewable Energy(Generation-Accumulate)

Unit: kW

2015	2016	2017	2018	2019	2020	2021	
13,959,586	14,226,292	16,304,748	19,870,125	24,152,458	25,974,393	30,211,816	Total
9,907,563	11,198,597	12,969,295	16,107,589	19,441,971	23,333,870	27,079,125	Business
4,052,023	3,027,695	3,335,453	3,762,536	4,710,487	2,640,523	3,132,691	Private
3,845,520	4,882,354	6,436,415	8,938,659	12,745,227	17,356,934	21,199,351	Solar photovoltaic ¹⁰
3,174,335	3,950,561	5,169,548	7,258,762	10,673,133	14,910,942	18,338,405	Business ³
671,185	931,793	1,266,867	1,679,897	2,072,094	2,445,992	2,860,946	Private ³
852,615	1,034,684	1,143,411	1,302,644	1,493,868	1,645,407	1,709,116	Wind power
841,937	1,023,950	1,130,166	1,289,354	1,480,555	1,632,055	1,695,655	Business ³
10,678	10,734	13,245	13,290	13,313	13,352	13,461	Private ³
1,771,582	1,789,896	1,794,121	1,797,764	1,809,488	1,807,291	1,821,374	Hydro power ²
1,768,827	1,788,126	1,792,371	1,796,325	1,808,048	1,805,777	1,819,805	Business ³
2,755	1,770	1,750	1,439	1,439	1,514	1,569	Private ³
255,110	255,110	255,110	255,000	255,500	255,500	255,580	Ocean ²
255,110	255,110	255,110	255,000	255,500	255,500	255,580	Business ³
1,603,937	1,905,946	2,284,442	3,065,271	3,141,235	3,525,835	3,578,983	Bio ^{1,4}
1,537,553	1,860,096	2,238,442	3,017,171	3,092,366	3,440,259	3,508,257	Business
66,384	45,850	46,000	48,100	48,869	85,576	70,726	Private
37,803	49,041	55,637	60,396	60,945	61,532	61,590	Bio gas
25,923	39,621	46,067	48,726	48,506	52,386	52,194	Business
11,880	9,420	9,570	11,670	12,439	9,146	9,396	Private
66,515	70,130	70,130	69,378	67,820	67,427	66,309	LFG
65,515	70,130	70,130	69,378	67,820	67,427	66,309	Business
1,000	-	-	-	-	-	-	Private
30,449	52,490	15,662	15,450	21,999	83,669	126,879	Wood chip ⁷
30,405	52,490	15,662	15,450	21,999	43,669	101,979	Business
44	-	-	-	-	40,000	24,900	Private
770,699	986,048	1,270,523	1,383,881	1,343,074	1,512,934	1,643,778	Wood pellet ⁷
769,558	986,048	1,270,523	1,383,881	1,343,074	1,512,934	1,643,778	Business
1,140	-	-	-	-	-	-	Private
17,905	-	-	-	-	-	-	Waste wood
2,950	-	-	-	-	-	-	Business
14,955	-	-	-	-	-	-	Private
36,365	36,430	36,430	36,430	36,430	36,430	36,430	Black liquor
36,365	36,430	36,430	36,430	36,430	36,430	36,430	Private
120,306	123,238	166,030	182,041	140,248	249,604	338,996	Sewage solid fuel
120,306	123,238	166,030	182,041	140,248	249,604	338,996	Business
163,325	229,219	310,680	338,345	450,369	563,890	424,651	Bio-SRF ⁷
162,325	229,219	310,680	338,345	450,369	563,890	424,651	Business
1,000	-	-	-	-	-	-	Private
360,570	359,350	359,350	979,350	1,020,350	950,350	880,350	Bio bunker
360,570	359,350	359,350	979,350	1,020,350	950,350	880,350	Business
5,078,806	3,793,908	3,794,445	3,813,059	3,888,166	422,064	507,374	Waste ^{1,4,9}
1,780,701	1,759,904	1,790,428	1,800,956	1,321,683	338,193	333,288	Business
3,298,105	2,034,004	2,004,017	2,012,103	2,566,483	83,871	174,086	Private
4,820,305	3,476,480	3,475,180	3,475,180	3,505,480	-	-	Waste gas
1,599,980	1,548,100	1,548,100	1,548,100	1,022,900	-	-	Business
3,220,325	1,928,380	1,927,080	1,927,080	2,482,580	-	-	Private
16,818	59,238	65,630	62,200	100,197	109,608	199,435	Industrial wastes
12,753	56,673	60,502	56,186	94,183	105,794	105,701	Business
4,065	2,565	5,128	6,014	6,014	3,814	93,734	Private
132,473	115,292	107,762	108,142	120,952	173,520	173,020	Living wastes ⁸
72,758	39,133	38,953	36,133	50,063	100,463	100,163	Business
59,715	76,159	68,809	72,009	70,889	73,057	72,857	Private
14,000	26,400	-	-	-	-	-	Cement kiln fuel
14,000	26,400	-	-	-	-	-	Private
53,100	85,771	118,390	135,257	147,021	138,936	134,919	SRF ⁶
53,100	85,271	115,390	128,257	140,021	131,936	127,424	Business
-	500	3,000	7,000	7,000	7,000	7,495	Private
42,110	30,727	27,483	32,280	14,516	-	-	Refinery fuel oil
42,110	30,727	27,483	32,280	14,516	-	-	Business
171,317	218,064	250,474	351,398	472,644	615,031	793,708	Fuel cells
168,400	214,520	246,900	343,691	464,356	604,814	781,804	Business ³
2,917	3,544	3,574	7,707	8,288	10,217	11,904	Private ³
380,700	346,330	346,330	346,330	346,330	346,330	346,330	IGCC
380,700	346,330	346,330	346,330	346,330	346,330	346,330	Business ³

1. Co-firing is calculated by the blending ratio

2. Pumped-storage(hydro) has been excluded. Large-hydro(10MW) has been included

3. reflects the extension and reduction for each year

4. is the simple sum of facility each year

5. is operated facilities on each year

6. is based on the initiation of commercial operation

7. is based on the completion

8. SRF has substituted for RDF/RPF/TDF since 2014

9. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014

10. Municipal solid wastes has been included in Living wastes since 2015

Source: Korea Energy Agency

6. 신재생에너지 보급용량(발전외-신규)

	2008	2009	2010	2011	2012	2013	2014
태양열(㎡) ¹	51,552	96,951	69,805	54,732	63,775	48,473	32,043
지열(kW) ¹	31,613	39,838	89,226	73,515	123,838	121,465	124,915
수열(kW) ¹	-	-	-	-	-	-	-
바이오							
바이오가스(증기톤/시간) ¹	23	490	33	23	23	33	41
매립지가스(증기톤/시간) ¹	-	28	-	-	15	-	-
바이오디젤(kℓ/년) ²	743,207	1,142,900	1,104,400	1,204,400	1,204,400	1,177,468	887,087
우드칩(증기톤/시간) ^{1,6}	2	250	46	12	-	6	5
성형탄(톤/년) ³	69,489	57,385	54,888	58,551	56,802	55,992	59,349
임산연료(톤/년) ³	147,271	159,918	69,344	69,372	187,291	168,214	12,903
목재펠릿(증기톤/시간) ^{1,6}	-	3	0	72	127	128	469
폐목재(증기톤/시간) ¹	34	-	20	6	59	77	18
흑액(증기톤/시간) ¹	-	-	-	-	-	-	-
하수슬러지고형연료(증기톤/시간) ¹	-	5	2	-	1	4	3
Bio-SRF(증기톤/시간) ^{1,6}	-	-	-	70	18	6	44
폐기물							
폐가스(증기톤/시간) ¹	40	52	22	133	114	27	109
산업폐기물(증기톤/시간) ¹	277	206	139	253	255	171	145
생활폐기물(증기톤/시간) ^{1,7}	41	61	24	68	97	61	66
시멘트킬른보조연료(톤/년) ⁴	742,628	710,038	807,950	1,127,624	1,001,273	1,276,799	1,386,522
SRF(증기톤/시간) ^{1,5}	5	15	23	-	238	119	33
정제연료유(kℓ/년) ³	309,961	280,487	273,087	273,579	246,097	204,924	201,656

1. 각연도별 신설 용량

2. 바이오디젤 용량은 해당연도 기준 생산능력임

3. 성형탄, 임산연료, 정제연료유는 해당연도 기준 생산량(판매량)임

4. 시멘트킬른보조연료 용량은 해당연도 기준 소비량임

5. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

6. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

7. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

자료: 한국에너지공단

6. Facility of New & Renewable Energy(Except generation-New)

2015	2016	2017	2018	2019	2020	2021	
29,033	28,972	19,067	20,470	27,054	23,297	28,379	Solar Thermal(m ²) ¹
174,347	127,349	121,290	123,562	95,342	89,300	79,130	Geothermal(kW) ¹
48,509	39,005	58,778	59,095	36,770	78,111	46,402	Hydro thermal(kW) ¹
							Bio
16	18	49	17	34	13	12	Bio gas(steam ton/h) ¹
-	-	-	-	-	-	-	LFG(steam ton/h) ¹
854,687	854,687	1,008,630	2,283,370	1,441,330	1,237,630	1,259,230	Bio-diesel(kL/y) ²
9	8	31	50	48	-	35	Wood chip(steam ton/h) ^{1,6}
37,685	36,744	37,294	41,002	39,298	25,852	25,234	Wood briquette(ton/y) ³
156,939	438,371	2,301,934	2,396,789	457,174	499,748	336,035	Fire wood(ton/y) ³
75	962	187	27	34	-	14	Wood pellet(steam ton/h) ^{1,6}
4	-	39	-	-	-	-	Waste wood(steam ton/h) ¹
-	-	-	-	-	-	-	Black liquor(steam ton/h) ¹
40	-	5	-	-	-	-	Sewage solid fuel(steam ton/h) ¹
-	-	338	20	-	-	15	Bio-SRF(steam ton/h) ^{1,6}
							Waste
9	10	207	122	50	-	-	Waste gas(steam ton/h) ¹
102	23	569	31	107	15	75	Industrial wastes(steam ton/h) ¹
24	8	42	2	62	-	149	Living wastes(steam ton/h) ^{1,7}
1,490,640	1,431,061	1,490,397	1,597,882	1,676,440	1,711,594	2,025,596	Cement kiln fuel(ton/y) ⁴
-	808	437	131	-	-	102	SRF(steam ton/h) ^{1,5}
173,877	170,625	178,286	182,138	184,293	-	-	Refinery fuel oil(kL/y) ³

1. is the capacity of new facilities

2. productive capacity of each year

3. production(sales) of each year

4. consumption of each year

5. SRF has substituted for RDF/RPF/TDF since 2014

6. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014

7. Municipal solid wastes has been included in Living wastes since 2015

Source: Korea Energy Agency

7. 신재생에너지 보급용량(발전외-누적)

	2008	2009	2010	2011	2012	2013	2014
태양열(㎡) ¹	1,427,834	1,424,857	1,376,027	1,163,980	723,680	673,220	625,649
지열(kW) ¹	104,765	144,602	233,828	307,343	431,181	552,646	677,561
수열(kW) ¹	-	-	-	-	-	-	-
바이오 ²							
바이오가스(증기톤/시간)	261	751	784	807	830	863	904
매립자가스(증기톤/시간)	-	28	28	28	43	43	43
우드칩(증기톤/시간) ⁴	97	347	393	405	405	411	416
목재펠릿(증기톤/시간) ⁴	73	76	76	148	275	403	872
폐목재(증기톤/시간)	163	163	183	189	248	325	343
흑액(증기톤/시간)	310	310	310	310	310	310	310
하수슬러지고형연료(증기톤/시간)	-	5	7	7	8	12	15
Bio-SRF(증기톤/시간) ⁴	4	4	4	74	92	98	142
폐기물							
폐가스(증기톤/시간)	4,983	5,035	5,057	5,190	5,304	5,331	5,440
산업폐기물(증기톤/시간)	1,609	1,815	1,954	2,207	2,462	2,633	2,778
생활폐기물(증기톤/시간) ⁵	1,172	1,233	1,257	1,325	1,422	1,483	1,549
SRF(증기톤/시간) ³	28	43	66	66	304	423	456

1. 태양열, 지열, 수열의 합계용량은 각 연도별 설치용량의 단순합계임

2. 바이오 및 폐기물은 각 연도별 기준 가동설비 보일러 용량임

3. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

4. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

5. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

자료: 한국에너지공단

7. Facility of New & Renewable Energy(Except generation-Accumulate)

2015	2016	2017	2018	2019	2020	2021	
614,343	626,048	623,484	624,676	642,227	638,455	652,234	Solar Thermal(m ²) ¹
851,907	979,221	1,100,493	1,223,985	1,319,309	1,408,558	1,486,778	Geothermal(kW) ¹
48,509	87,513	146,292	205,386	242,156	320,267	366,669	Hydro thermal(kW) ¹
							Bio ²
920	862	691	640	625	625	644	Bio gas(steam ton/h)
43	44	44	44	44	152	147	LFG(steam ton/h)
425	425	367	409	392	438	436	Wood chip(steam ton/h) ⁴
947	1,568	1,715	1,742	1,706	2,134	2,068	Wood pellet(steam ton/h) ⁴
347	362	391	399	399	399	360	Waste wood(steam ton/h)
310	310	310	311	311	311	311	Black liquor(steam ton/h)
55	14	18	18	18	18	18	Sewage solid fuel(steam ton/h)
142	202	501	521	521	869	825	Bio-SRF(steam ton/h) ⁴
							Waste
5,449	4,465	4,503	4,748	4,783	-	-	Waste gas(steam ton/h)
2,880	2,930	3,444	3,418	3,513	3,796	3,728	Industrial wastes(steam ton/h)
1,573	2,704	2,687	2,689	2,747	2,961	3,100	Living wastes(steam ton/h) ⁵
456	1,488	1,835	1,961	1,871	2,188	2,199	SRF(steam ton/h) ³

1. Total is the simple sum of facility each year

2. is operated facilities on each year

3. SRF has substituted for RDF/RPF/TDF since 2014

4. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014

5. Municipal solid wastes has been included in Living wastes since 2015

Source: Korea Energy Agency



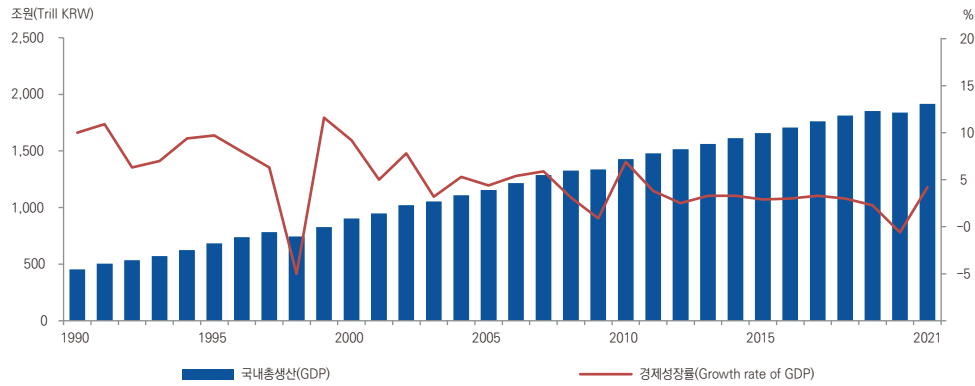
7. 주요 경제통계

Major Economic Statistics

1. 주요 통계 지표
Indicators of Major Statistics
2. 경제활동별 국내 총생산(2015년 기준 연쇄가격)
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Producer Price Indices of Major Energy Products
11. 가계동향
Average Income and Expenditure per Household
12. 냉난방도일
Heating and Cooling Degree-Days

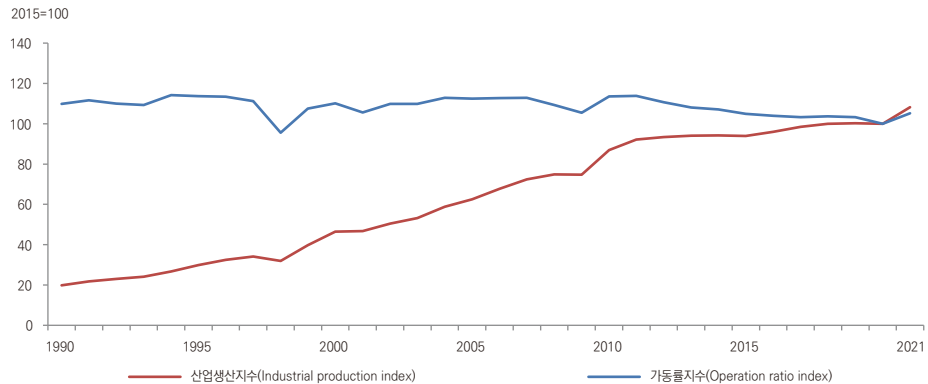
● 국내총생산, 경제성장률 GDP and Growth Rate of GDP

〈1990~2021〉



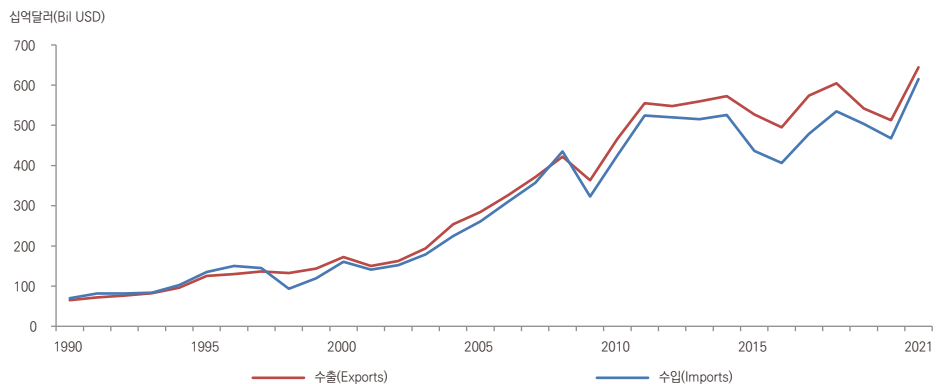
● 산업생산지수, 가동률지수 Industrial Production Index

〈1990~2021〉



● 수출입 Imports and Export

〈1990~2021〉



1. 주요 통계 지표

	인구		가구	국내총생산 GDP		GDP 디플레이터
	Population			Household	당해년가격 At Current Prices	
	1,000 Persons	증가율(%) Growth Rate(%)	1,000 Household		Bil. KRW	
1981	38,723	1.57	-	49,670	187,576	26.5
1982	39,326	1.56	-	57,287	203,216	28.2
1983	39,910	1.49	-	68,080	230,398	29.5
1984	40,406	1.24	-	78,591	254,709	30.9
1985	40,806	0.99	-	88,130	274,675	32.1
1986	41,214	1.00	-	102,986	305,789	33.7
1987	41,622	0.99	-	121,698	344,696	35.3
1988	42,031	0.98	-	145,995	386,017	37.8
1989	42,449	0.99	-	165,802	413,320	40.1
1990	42,869	0.99	-	200,556	454,146	44.2
1991	43,296	0.99	-	242,481	503,094	48.2
1992	43,748	1.04	-	277,541	534,279	51.9
1993	44,195	1.02	-	315,181	571,024	55.2
1994	44,642	1.01	-	372,493	623,950	59.7
1995	45,093	1.01	-	436,989	683,940	63.9
1996	45,525	0.96	-	490,851	737,908	66.5
1997	45,954	0.94	-	542,002	783,441	69.2
1998	46,287	0.72	-	537,215	743,255	72.3
1999	46,617	0.71	-	591,453	828,483	71.4
2000	47,008	0.84	14,507	651,634	903,551	72.1
2001	47,370	0.77	14,775	707,021	947,395	74.6
2002	47,645	0.58	15,110	784,741	1,020,582	76.9
2003	47,892	0.52	15,434	837,365	1,052,703	79.5
2004	48,083	0.40	15,732	908,439	1,107,416	82.0
2005	48,185	0.21	16,039	957,448	1,155,130	82.9
2006	48,438	0.53	16,322	1,005,602	1,215,940	82.7
2007	48,684	0.51	16,602	1,089,660	1,286,459	84.7
2008	49,055	0.76	16,883	1,154,217	1,325,219	87.1
2009	49,308	0.52	17,168	1,205,348	1,335,724	90.2
2010	49,554	0.50	17,495	1,322,611	1,426,618	92.7
2011	49,937	0.77	17,879	1,388,937	1,479,198	93.9
2012	50,200	0.53	18,119	1,440,111	1,514,737	95.1
2013	50,429	0.46	18,388	1,500,819	1,562,674	96.0
2014	50,747	0.63	18,705	1,562,929	1,612,718	96.9
2015	51,015	0.53	19,013	1,658,020	1,658,020	100.0
2016	51,218	0.40	19,281	1,740,780	1,706,880	102.0
2017	51,362	0.28	19,571	1,835,698	1,760,812	104.3
2018	51,585	0.43	19,876	1,898,193	1,812,005	104.8
2019	51,765	0.35	20,220	1,924,498	1,852,666	103.9
2020	51,836	0.14	20,731	1,940,726	1,839,523	105.5
2021	51,745	-0.18	21,278	2,071,658	1,915,778	108.1

자료: 통계청, 한국은행

1. Indicators of Major Statistics

국민총소득 GNI				1인당 명목 GNI Per Capita GNI	대미달러환율 Exchange rates to USD		
당해년가격 At Current Prices	당해년가격 At Current Prices	2015년 연쇄가격 At Chained 2015 Prices	성장율 Growth Rate		종가환율 Closing rate		
Bil. USD	Bil. KRW		%	USD	연평균 Average	연말 End of	
72	48,993	195,631	5.5	1,857	-	-	1981
78	56,757	214,778	9.8	1,973	-	-	1982
87	67,370	244,858	14.0	2,175	-	-	1983
96	77,480	270,633	10.5	2,379	-	-	1984
99	86,197	289,085	6.8	2,427	-	-	1985
114	100,772	329,433	14.0	2,774	-	-	1986
146	120,224	378,644	14.9	3,512	-	-	1987
198	144,864	429,338	13.4	4,718	-	-	1988
246	165,314	466,945	8.8	5,801	-	-	1989
283	200,355	511,161	9.5	6,602	712.1	716.7	1990
330	242,235	566,971	10.9	7,627	733.8	759.5	1991
355	277,173	601,723	6.1	8,114	781.1	786.9	1992
392	314,760	645,137	7.2	8,872	802.8	807.2	1993
462	371,555	705,677	9.4	10,357	803.5	788.5	1994
565	435,385	767,530	8.8	12,522	770.9	775.7	1995
608	489,129	818,588	6.7	13,351	805.1	844.9	1996
567	539,091	851,730	4.0	12,334	953.6	1,695.0	1997
379	530,262	786,371	-7.7	8,190	1,395.0	1,204.0	1998
492	584,929	870,616	10.7	10,549	1,188.7	1,138.0	1999
573	647,274	926,961	6.5	12,179	1,131.1	1,264.5	2000
544	702,236	963,701	4.0	11,484	1,291.0	1,313.5	2001
625	781,829	1,046,880	8.6	13,115	1,250.7	1,186.2	2002
700	834,443	1,074,837	2.7	14,618	1,191.9	1,192.6	2003
792	906,865	1,121,037	4.3	16,477	1,143.7	1,035.1	2004
928	950,685	1,148,216	2.4	19,262	1,024.1	1,011.6	2005
1,049	1,002,665	1,193,968	4.0	21,664	955.1	929.8	2006
1,170	1,086,897	1,261,872	5.7	24,027	929.2	936.1	2007
1,047	1,154,510	1,266,674	0.4	21,345	1,103.4	1,259.5	2008
943	1,203,480	1,298,061	2.5	19,122	1,276.4	1,164.5	2009
1,146	1,324,587	1,391,621	7.2	23,118	1,156.0	1,134.8	2010
1,261	1,397,535	1,414,273	1.6	25,256	1,108.0	1,151.8	2011
1,291	1,455,170	1,455,657	2.9	25,724	1,126.8	1,070.6	2012
1,379	1,510,385	1,511,626	3.8	27,351	1,095.0	1,055.4	2013
1,491	1,570,493	1,564,407	3.5	29,384	1,053.1	1,099.3	2014
1,470	1,663,207	1,663,207	6.3	28,814	1,131.5	1,172.5	2015
1,506	1,747,144	1,736,627	4.4	29,394	1,160.4	1,207.7	2016
1,630	1,843,181	1,793,818	3.3	31,734	1,130.5	1,070.5	2017
1,732	1,905,838	1,822,153	1.6	33,564	1,100.6	1,115.7	2018
1,665	1,941,108	1,828,547	0.4	32,204	1,166.1	1,156.4	2019
1,659	1,957,670	1,829,580	0.1	32,004	1,180.0	1,086.3	2020
1,830	2,094,721	1,891,893	3.4	35,373	1,144.6	1,188.8	2021

Source: Statistics Korea, Bank of Korea

1. 주요 통계 지표(계속)

	수출	수입	경상수지	상품수지	외환보유액	총저축
	Export	Import	Current Account Balance	Goods	International Reserves	Gross Saving
	Mil. USD					Bil. KRW
1981	21,254	26,131	-6,487	-6,265	6,891	12,180
1982	21,853	24,251	-5,631	-6,448	6,984	15,137
1983	24,445	26,192	-3,594	-4,464	6,910	20,484
1984	29,245	30,631	-1,847	-2,372	7,650	25,228
1985	30,283	31,136	-2,178	-2,351	7,749	28,246
1986	34,714	31,584	2,607	1,976	7,955	36,490
1987	47,281	41,020	8,631	5,779	9,193	47,679
1988	60,696	51,811	12,758	9,415	12,378	60,495
1989	62,377	61,465	3,766	2,410	15,245	64,216
1990	65,016	69,844	-2,804	-3,689	14,822	78,294
1991	71,870	81,525	-8,034	-7,153	13,733	94,691
1992	76,632	81,775	-2,901	-1,440	17,154	105,874
1993	82,236	83,800	1,688	2,683	20,262	120,431
1994	96,013	102,348	-4,794	-3,861	25,673	141,205
1995	125,058	135,119	-10,230	-7,004	32,712	164,724
1996	129,715	150,339	-24,461	-17,347	33,237	176,601
1997	136,164	144,616	-10,812	-6,745	20,405	195,210
1998	132,313	93,282	40,113	39,614	52,041	203,048
1999	143,685	119,752	21,785	25,446	74,055	209,393
2000	172,268	160,481	10,181	15,393	96,198	221,026
2001	150,439	141,098	2,165	9,407	102,821	226,197
2002	162,471	152,126	4,066	14,414	121,413	247,544
2003	193,817	178,827	11,308	22,138	155,352	276,799
2004	253,845	224,463	29,290	39,173	199,066	322,993
2005	284,419	261,238	12,209	32,493	210,391	324,214
2006	325,465	309,383	2,095	24,515	238,956	331,623
2007	371,489	356,846	10,473	32,436	262,224	366,107
2008	422,007	435,275	1,753	11,746	201,223	386,166
2009	363,534	323,085	33,088	48,056	269,995	402,902
2010	466,384	425,212	27,951	47,932	291,571	464,451
2011	555,214	524,413	16,638	28,014	306,402	482,737
2012	547,870	519,584	48,791	48,589	326,968	500,807
2013	559,632	515,586	77,259	80,259	346,460	524,949
2014	572,665	525,515	83,030	86,145	363,593	548,691
2015	526,757	436,499	105,119	120,275	367,962	604,062
2016	495,426	406,193	97,924	116,462	371,102	641,904
2017	573,694	478,478	75,231	113,593	389,267	680,905
2018	604,860	535,202	77,467	110,087	403,694	682,357
2019	542,233	503,343	59,676	79,812	408,816	670,615
2020	512,498	467,633	75,902	80,605	443,098	704,098
2021	644,400	615,093	85,228	75,731	463,118	758,760

자료: 통계청

1. Indicators of Major Statistics(Continued)

총투자 Gross Investment	총통화(연말) Money Supply (End or Years(M2))	광공업생산지수 Industrial Production Indexes		물가지수 Price Indexes		
		총지수 All Items	광업 및 제조업 Mining and manufacturing	생산자 Producer	소비자 Consumer	
Bil. KRW		2020=100		2015 = 100	2020=100	
12,059	17,814	7.5	7.5	48.7	25.4	1981
15,045	24,414	7.8	7.8	51.0	27.3	1982
20,422	30,007	9.0	9.0	51.1	28.2	1983
25,105	35,704	10.4	10.4	51.5	28.8	1984
28,175	42,162	10.8	10.9	51.9	29.6	1985
36,443	54,620	13.1	13.2	51.2	30.4	1986
47,634	71,161	15.6	15.8	51.4	31.3	1987
60,328	92,387	17.7	17.9	52.8	33.5	1988
64,012	116,204	18.2	18.4	53.6	35.4	1989
78,282	145,604	19.8	19.9	55.8	38.5	1990
94,804	174,030	21.7	21.8	58.5	42.1	1991
106,185	211,469	23.0	23.0	59.7	44.7	1992
120,256	248,271	24.1	24.0	60.6	46.8	1993
141,262	300,658	26.7	26.6	62.3	49.8	1994
164,443	370,600	29.9	29.8	65.2	52.0	1995
176,665	432,316	32.5	32.3	67.3	54.6	1996
195,026	517,307	34.1	33.7	69.9	57.0	1997
203,437	639,664	31.9	31.5	78.4	61.3	1998
210,105	672,544	39.7	39.5	76.8	61.8	1999
221,527	707,699	46.4	46.3	78.4	63.2	2000
226,974	764,979	46.7	46.3	78.0	65.7	2001
248,507	872,076	50.4	50.1	77.8	67.5	2002
277,800	898,069	53.2	52.8	79.5	69.9	2003
323,210	954,723	58.8	58.5	84.3	72.4	2004
323,535	1,021,449	62.5	62.2	86.1	74.4	2005
331,579	1,149,262	67.7	67.6	86.9	76.1	2006
365,302	1,273,612	72.4	72.3	88.1	78.0	2007
386,359	1,425,888	74.8	74.7	95.6	81.7	2008
402,518	1,566,850	74.8	74.5	95.4	83.9	2009
464,451	1,660,530	86.9	87.0	99.1	86.4	2010
482,737	1,751,458	92.1	92.2	105.7	89.9	2011
500,807	1,835,642	93.4	93.4	106.4	91.8	2012
524,949	1,920,795	94.0	94.1	104.7	93.0	2013
548,691	2,077,234	94.2	94.3	104.2	94.2	2014
604,062	2,247,375	94.0	94.1	100.0	94.9	2015
641,904	2,407,459	96.0	96.2	98.2	95.8	2016
680,905	2,530,354	98.5	98.4	101.6	97.6	2017
682,357	2,700,362	99.9	99.8	103.5	99.1	2018
670,615	2,913,610	100.3	100.2	103.5	99.5	2019
704,098	3,199,836	100.0	100.0	103.0	100.0	2020
758,033	3,613,688	108.2	108.4	109.6	102.5	2021

Source: Statistics Korea

2. 경제활동별 국내 총생산(2015년 기준 연쇄가격)

단위: 십억 원

	농림어업	광업	제조업	음식료품 제조업	섬유 및 가죽제품 제조업	목재, 종이, 인쇄 및 복제업	코크스 및 석유정제품 제조업	화학물질 및 화학제품 제조업
	Agriculture, Forestry and Fisheries	Mining & quarrying	Manufacturing	Food, beverages products	Textile and leather products	Wood and paper products, printing and reproduction of recorded media	Coke and refined petroleum products	Chemicals and chemical products
1981	17,632	4,381	29,067	6,558	10,354	2,731	1,214	5,889
1982	19,010	3,874	30,549	7,148	9,976	2,910	1,227	6,095
1983	20,781	4,145	35,713	7,797	10,631	3,456	1,292	6,758
1984	20,239	4,321	42,762	8,894	12,282	4,059	1,526	7,804
1985	21,442	4,554	45,725	9,381	12,898	4,249	1,602	8,582
1986	22,562	4,779	53,170	9,966	14,663	4,653	2,364	8,960
1987	21,582	4,748	63,957	10,540	16,906	5,426	1,894	10,928
1988	23,611	4,713	72,530	11,207	16,925	6,450	2,603	12,728
1989	23,578	4,521	75,732	11,465	15,955	7,377	2,409	13,519
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	32,634	1,880	517,025	23,503	12,469	13,966	12,154	78,879

자료: 한국은행

2. Gross Domestic Product by Economic Activity(At chained 2015 year prices)

Unit: Billion Won

비금속광물제품 제조업	1차금속 제조업	금속가공제품 제조업	컴퓨터, 전자 및 광학기기 제조업	전기장비 제조업	기계 및 장비 제조업	운송장비 제조업	기타 제조업 및 산업용 장비 수리업	
Non-metallic mineral products	Basic metals	Fabricated metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment	Transport equipment	Other manufacturing, repair and installation of machinery and equipment	
1,558	4,058	1,989	759	563	1,282	2,231	1,628	1981
1,621	4,600	2,070	800	592	1,430	2,660	1,741	1982
2,106	5,234	2,807	1,036	796	1,892	3,296	2,104	1983
2,581	6,215	3,448	1,375	1,037	2,186	4,283	2,425	1984
2,765	6,757	4,199	1,404	1,047	2,356	4,750	2,511	1985
2,821	7,888	4,538	1,963	1,507	2,880	5,110	3,341	1986
3,251	9,449	4,518	2,826	2,175	3,838	6,250	4,210	1987
3,868	10,499	4,851	3,418	2,689	4,302	7,493	4,660	1988
4,313	11,473	5,934	3,455	2,726	4,801	7,881	4,740	1989
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
13,844	27,207	31,717	165,611	32,212	48,605	47,850	9,753	2021

Source: Bank of Korea

2. 경제활동별 국내 총생산(2015년 기준 연쇄가격)(계속)

단위: 십억 원

	전기, 가스 및 수도사업 Electricity, gas & Water supply	건설업 Construction	서비스업 Services					
				도소매 및 음식숙박업 Wholesale & retail trade, Restaurants & hotels	운수업 Transport and storage	금융 및 보험업 Finance and insurance	부동산업 Information and communication	정보통신업 Information & communication
1981	2,152	21,805	102,126	27,867	8,622	3,915	15,823	1,413
1982	2,284	25,221	111,846	30,385	9,494	4,299	17,917	1,535
1983	2,964	30,567	122,853	33,173	10,076	4,761	19,867	1,810
1984	3,753	32,277	134,148	35,474	10,926	5,573	20,607	2,177
1985	4,509	33,973	145,948	37,447	11,351	6,805	22,433	2,393
1986	5,717	35,146	161,156	42,263	12,051	7,846	24,148	2,657
1987	6,434	38,610	180,528	47,368	13,279	9,963	26,134	3,130
1988	7,098	41,767	203,128	52,666	14,684	12,926	28,942	3,657
1989	7,953	46,896	222,009	56,498	15,585	14,947	31,442	4,344
1990	9,300	57,923	242,657	61,148	16,934	16,433	34,226	5,171
1991	10,338	64,872	268,159	66,475	18,295	19,098	37,968	6,130
1992	11,728	63,879	289,481	69,793	19,477	21,577	41,631	6,999
1993	13,271	69,525	313,257	74,213	19,959	25,363	45,592	7,961
1994	15,089	72,628	342,838	79,895	21,499	28,271	49,996	9,650
1995	16,201	76,384	374,083	85,454	23,501	32,153	54,638	11,327
1996	17,966	81,607	403,358	90,756	25,309	33,980	59,722	13,714
1997	19,674	82,721	432,244	93,833	27,747	35,096	66,132	15,858
1998	19,858	73,498	421,758	85,450	26,110	33,460	70,967	16,662
1999	22,005	68,330	460,854	99,466	30,228	36,162	73,232	20,894
2000	24,473	64,922	495,989	107,128	33,787	35,656	78,273	27,308
2001	25,710	67,899	526,377	111,774	35,283	38,609	82,820	32,528
2002	27,936	70,743	570,718	118,617	36,567	47,821	83,671	38,046
2003	28,924	76,829	584,947	115,138	36,873	47,551	86,792	40,472
2004	30,886	78,338	603,821	115,004	38,919	47,418	89,451	44,167
2005	33,077	78,384	630,414	116,897	40,200	50,502	93,606	48,405
2006	33,982	78,981	661,440	120,869	41,923	52,811	98,056	50,789
2007	35,333	80,858	699,783	126,962	44,433	59,364	100,634	52,461
2008	36,616	78,208	726,755	129,015	46,547	63,003	105,026	54,343
2009	38,327	79,283	741,372	128,394	44,473	66,637	107,141	56,340
2010	39,918	76,144	779,212	137,208	50,295	68,643	109,866	58,443
2011	39,823	72,505	809,610	143,211	52,571	70,356	113,402	61,601
2012	40,543	72,170	836,807	148,401	55,626	73,997	113,859	64,106
2013	39,510	75,294	866,808	153,620	56,446	77,293	115,168	67,895
2014	40,511	76,415	894,041	155,151	57,135	82,077	120,196	69,064
2015	41,760	81,174	921,470	160,346	58,500	88,258	122,198	69,789
2016	41,263	89,140	948,419	164,705	58,714	89,948	126,461	73,517
2017	43,814	94,369	973,106	167,747	60,289	93,709	129,307	75,814
2018	43,083	91,741	1,010,423	172,543	62,522	99,000	133,423	79,246
2019	44,928	89,366	1,044,554	178,610	63,574	102,360	135,309	82,894
2020	46,762	88,193	1,036,169	168,669	52,547	112,145	138,375	86,522
2021	48,610	85,902	1,075,382	174,342	55,310	119,644	139,494	91,317

자료: 한국은행

2. Gross Domestic Product by Economic Activity(At chained 2015 year prices)(Continued)

Unit: Billion Won

사업서비스업 Business activities	공공행정, 국방 및 사회보장 Public administration, defence and social security	교육서비스업 Education	보건 및 사회복지 Health & social work	문화 및 기타 서비스 Cultural & other	총부가가치 (기초가격) Gross value added at basic prices	국내총생산 Gross domestic product at market prices(GDP)	
5,819	20,268	22,500	4,054	4,685	172,059	187,576	1981
6,564	21,366	24,242	5,207	5,049	186,111	203,216	1982
7,945	22,601	25,537	6,718	5,676	209,871	230,398	1983
9,646	23,325	26,942	8,414	6,503	231,729	254,709	1984
11,632	24,495	28,341	10,474	7,406	250,200	274,675	1985
13,930	25,915	29,904	11,405	8,290	278,502	305,789	1986
17,017	27,470	31,331	12,172	9,170	312,488	344,696	1987
20,311	29,429	32,949	13,499	10,128	349,965	386,017	1988
23,020	31,582	34,743	14,570	11,360	374,453	413,320	1989
26,271	33,863	36,671	15,823	12,485	410,297	454,146	1990
30,426	36,334	38,535	17,505	13,895	455,316	503,094	1991
33,612	38,871	40,380	18,882	15,106	484,856	534,279	1992
36,518	41,489	42,076	20,270	16,461	519,602	571,024	1993
41,246	43,689	44,006	22,365	18,719	566,543	623,950	1994
46,651	45,500	45,849	24,167	20,835	620,865	683,940	1995
50,841	48,521	47,625	25,200	22,885	669,503	737,908	1996
56,194	51,409	49,200	27,151	24,768	711,354	783,441	1997
51,255	53,372	48,949	26,120	23,139	677,790	743,255	1998
52,225	56,319	50,476	27,559	25,824	752,357	828,483	1999
57,563	57,424	52,166	27,477	28,077	819,508	903,551	2000
61,013	59,113	55,081	26,271	30,348	858,697	947,395	2001
67,298	61,358	58,504	28,080	33,734	927,265	1,020,582	2002
73,286	63,818	61,515	29,849	33,356	957,728	1,052,703	2003
77,562	66,406	63,728	31,704	33,130	1,008,287	1,107,416	2004
81,344	69,115	65,247	33,838	34,185	1,051,713	1,155,130	2005
87,767	72,070	68,376	36,010	36,135	1,107,876	1,215,940	2006
95,356	74,602	70,852	39,110	38,411	1,176,059	1,286,459	2007
100,934	76,677	73,303	40,577	39,369	1,215,778	1,325,219	2008
102,580	80,058	74,116	43,731	39,624	1,226,048	1,335,724	2009
110,450	82,556	75,424	46,645	41,370	1,308,667	1,426,618	2010
116,793	84,904	77,321	49,825	41,212	1,356,276	1,479,198	2011
120,689	87,761	78,852	53,265	41,259	1,389,384	1,514,737	2012
128,150	90,221	80,729	56,505	41,320	1,436,068	1,562,674	2013
135,199	92,972	81,146	60,491	40,890	1,480,547	1,612,718	2014
141,919	95,491	82,134	63,337	39,499	1,520,908	1,658,020	2015
145,077	98,023	83,161	67,975	40,839	1,563,765	1,706,880	2016
147,950	100,723	84,806	72,330	40,496	1,613,713	1,760,812	2017
153,605	104,101	86,223	78,268	41,604	1,663,057	1,812,005	2018
157,572	108,117	87,582	85,932	42,683	1,702,671	1,852,666	2019
157,729	111,464	85,879	86,885	35,388	1,687,359	1,839,523	2020
162,133	115,623	89,488	91,406	36,416	1,759,054	1,915,778	2021

Source: Bank of Korea

3. 수송시설 및 설비

	도로연장 Length of Roads	자동차 Motor Vehicles	승용차 Passenger car	승합차 Bus	화물차 Truck	특수 Special
	km	대(Each)				
1981	50,336	571,754	267,605	50,595	243,828	9,726
1982	53,936	646,996	305,811	66,326	263,939	10,920
1983	54,600	785,316	380,993	87,282	304,158	12,883
1984	51,004	948,319	465,149	108,018	360,364	14,788
1985	52,264	1,113,430	556,659	128,309	412,739	15,723
1986	53,654	1,309,434	664,226	154,627	472,601	17,980
1987	54,689	1,611,375	844,350	200,456	546,450	20,119
1988	55,778	2,035,448	1,117,999	259,600	635,445	22,404
1989	56,481	2,660,212	1,558,660	323,402	768,943	9,207
1990	56,715	3,394,803	2,074,922	383,738	924,647	11,496
1991	58,088	4,248,000	2,727,852	427,650	1,077,467	15,031
1992	58,847	5,231,000	3,461,057	483,575	1,261,522	24,846
1993	61,296	6,274,000	4,271,253	527,958	1,448,634	26,155
1994	73,833	7,404,347	5,148,713	582,069	1,644,646	28,919
1995	74,237	8,468,901	6,006,290	612,584	1,816,582	33,445
1996	82,342	9,553,092	6,893,633	663,011	1,962,564	33,884
1997	84,968	10,413,427	7,586,474	719,127	2,072,256	35,570
1998	86,990	10,469,599	7,580,926	749,320	2,104,683	34,670
1999	87,534	11,163,728	7,837,206	993,169	2,298,116	35,237
2000	88,775	12,059,276	8,083,926	1,427,221	2,510,992	37,137
2001	91,396	12,914,115	8,889,327	1,257,008	2,728,405	39,375
2002	96,037	13,949,440	9,737,428	1,275,319	2,894,412	42,281
2003	97,253	14,586,795	10,278,923	1,246,629	3,016,407	44,836
2004	100,278	14,934,092	10,620,557	1,204,313	3,062,314	46,908
2005	102,293	15,396,715	11,122,199	1,124,645	3,102,171	47,700
2006	102,061	15,895,234	11,606,971	1,105,636	3,133,201	49,426
2007	103,340	16,428,177	12,099,779	1,104,949	3,171,351	52,098
2008	104,236	16,794,219	12,483,809	1,096,698	3,160,338	53,374
2009	104,983	17,325,210	13,023,819	1,080,687	3,166,512	54,192
2010	105,565	17,941,356	13,631,769	1,049,725	3,203,808	56,054
2011	105,931	18,437,373	14,136,478	1,015,391	3,226,421	59,083
2012	105,703	18,870,533	14,577,193	986,833	3,243,924	62,583
2013	106,414	19,400,864	15,078,354	970,805	3,285,707	65,998
2014	105,673	20,117,955	15,747,171	947,012	3,353,683	70,089
2015	107,527	20,989,885	16,561,665	920,320	3,432,937	74,963
2016	108,780	21,803,351	17,338,160	892,539	3,492,173	80,479
2017	110,091	22,528,295	18,034,540	867,522	3,540,323	85,910
2018	110,714	23,202,555	18,676,924	843,794	3,590,939	90,898
2019	111,314	23,677,366	19,177,517	811,799	3,592,586	95,464
2020	112,977	24,365,979	19,860,955	783,842	3,615,245	105,937
2021	113,405	24,911,101	20,410,648	749,968	3,631,975	118,510

주: 자동차 대수는 이륜차 제외

자료: 국토교통부, 코레일

3. Transport Facilities and Equipments

철도키로 Railway	차량보유					항공기 Aircraft	선박 Vessels		
	고속차량		기관차 Locomotive	동차 Diesel Rail Car	전동차 Electric Rail Car				
	KTX	SRT							
km	대(Each)						천톤(Thousand tons)		
-	-	-	-	-	-	-	89	4,959	1981
-	-	-	-	-	-	-	97	5,650	1982
-	-	-	-	-	-	-	94	6,139	1983
-	-	-	-	-	-	-	99	6,501	1984
-	-	-	-	-	-	-	103	6,662	1985
3,113	-	-	571	138	453	107	6,655	1986	
3,130	-	-	575	130	490	121	6,514	1987	
3,149	-	-	576	181	520	136	7,239	1988	
3,120	-	-	579	194	560	166	7,306	1989	
3,091	-	-	585	200	560	178	7,115	1990	
3,091	-	-	595	197	626	186	7,274	1991	
3,092	-	-	598	339	668	185	6,911	1992	
3,098	-	-	589	477	785	189	6,379	1993	
3,101	-	-	582	503	915	216	6,497	1994	
3,101	-	-	580	495	1,120	242	6,332	1995	
3,120	-	-	583	511	1,268	254	6,993	1996	
3,118	-	-	586	595	1,408	266	6,756	1997	
3,125	-	-	586	603	1,707	255	5,243	1998	
3,119	-	-	582	616	1,717	257	6,052	1999	
3,123	-	-	563	615	1,684	267	6,153	2000	
3,125	-	-	563	615	1,672	280	6,593	2001	
3,129	-	-	579	610	1,662	291	7,638	2002	
3,140	340	-	575	606	1,858	287	7,448	2003	
3,374	920	-	587	602	1,824	290	8,513	2004	
3,392	920	-	587	592	1,850	294	10,068	2005	
3,392	920	-	590	576	2,086	324	11,128	2006	
3,399	920	-	574	566	2,086	418	13,927	2007	
3,391	920	-	567	524	2,088	447	14,707	2008	
3,378	920	-	514	500	2,184	478	13,916	2009	
3,557	1,110	-	509	471	2,287	514	14,266	2010	
3,559	1,110	-	498	444	2,344	550	13,671	2011	
3,572	1,160	-	522	405	2,381	590	13,060	2012	
3,590	1,160	-	589	405	2,449	623	13,585	2013	
3,590	1,160	-	509	204	2,458	655	13,918	2014	
3,874	1,380	-	492	201	2,410	724	13,392	2015	
3,979	1,420	100	483	178	2,546	761	13,067	2016	
4,078	1,530	100	456	150	2,558	793	12,705	2017	
4,074	1,530	100	440	150	2,569	835	11,697	2018	
4,087	1,530	100	429	121	2,562	853	12,700	2019	
4,093	1,560	100	418	121	2,627	826	-	2020	
4,129	1,530	100	401	121	2,566	807	-	2021	

Note: Excluding the two-wheeled vehicles

Source: Minister of Land, Infrastructure and Transport, KORAIL

4. 수송 실적

	여객 Passengers								
	공로 ¹ Highway ¹	철도 ² Railways ²	지하철 Subway	해운 Shipping			항공 Aircraft	국내선 Domestic Lines	국제선 International Lines
					내항 Coastal	외항 Oversea			
					1,000명(1,000 persons)				
1981	8,683,130	441,129	58,326	9,281	9,230	51	4,784	1,555	3,229
1982	9,259,252	443,570	89,298	9,658	9,602	56	5,345	1,844	3,501
1983	9,901,324	469,423	115,623	9,035	8,979	56	6,066	2,363	3,703
1984	10,200,619	489,061	292,347	9,438	9,371	67	6,811	2,869	3,942
1985	10,601,047	503,123	420,168	8,599	8,534	65	7,849	3,467	4,382
1986	10,932,607	518,956	685,120	8,800	8,727	73	9,031	4,092	4,939
1987	11,455,784	525,056	754,815	8,127	8,028	99	10,559	5,101	5,458
1988	11,905,341	564,240	916,951	8,974	8,838	136	12,649	6,297	6,352
1989	11,949,830	584,659	1,007,148	9,045	8,850	195	17,235	8,952	8,283
1990	12,721,877	644,814	1,186,633	8,496	8,260	236	20,690	11,064	9,626
1991	12,854,212	679,281	1,422,615	8,819	8,485	335	22,524	12,253	10,271
1992	12,848,750	716,364	1,546,279	9,071	8,733	338	25,812	14,555	11,257
1993	12,117,439	723,057	1,576,040	8,286	7,990	296	27,201	15,550	11,651
1994	11,603,575	729,003	1,603,945	8,280	7,869	411	31,482	18,406	13,076
1995	11,289,507	790,381	1,693,003	9,097	8,702	395	35,612	21,009	14,603
1996	11,480,422	819,542	1,728,171	9,936	9,413	523	39,559	23,567	15,992
1997	10,887,456	832,999	1,855,166	10,463	9,899	564	43,237	25,639	16,598
1998	10,783,922	829,050	1,838,870	8,815	8,277	538	33,608	19,504	14,104
1999	10,455,862	823,563	2,015,999	9,857	9,052	805	37,895	21,145	16,750
2000	10,410,577	814,472	2,235,221	10,701	9,702	999	41,967	22,515	19,452
2001	9,936,126	850,971	2,527,099	10,415	9,340	1,075	42,162	21,811	20,351
2002	9,783,595	851,716	2,012,386	10,713	9,460	1,253	43,965	21,248	22,717
2003	9,404,764	894,621	1,982,192	11,716	10,336	1,380	42,839	21,380	21,459
2004	9,169,560	921,223	2,033,411	12,470	10,648	1,822	45,824	18,893	26,931
2005	8,801,840	950,995	2,020,360	13,205	11,100	2,105	46,842	17,158	29,684
2006	9,108,648	969,145	2,079,961	13,959	11,574	2,385	49,889	17,181	32,708
2007	9,301,810	989,294	2,090,290	15,184	12,634	2,550	53,715	16,848	36,867
2008	9,708,410	1,018,977	2,142,872	16,696	14,162	2,534	52,331	16,990	35,341
2009	9,724,316	1,020,319	2,181,346	16,957	14,868	2,089	51,575	18,061	33,514
2010	9,498,586	1,060,941	2,273,087	17,069	14,308	2,761	60,277	20,216	40,061
2011	25,943,079	1,118,621	2,358,758	16,926	14,266	2,660	63,630	20,981	42,649
2012	25,982,998	1,149,340	2,410,931	17,419	14,538	2,881	69,305	21,602	47,703
2013	26,327,678	1,224,820	2,476,394	18,800	16,063	2,737	73,340	22,353	50,987
2014	26,678,513	1,263,472	2,526,167	16,917	14,271	2,646	81,427	24,648	56,779
2015	27,193,794	1,269,417	2,522,900	17,998	15,381	2,617	89,414	27,980	61,434
2016	28,090,714	1,449,534	3,572,127	18,200	15,423	2,777	103,914	30,913	73,001
2017	28,192,366	1,490,319	3,604,712	19,638	16,910	2,728	109,362	32,406	76,956
2018	28,409,618	1,521,590	3,618,352	17,606	14,626	2,980	117,526	31,601	85,925
2019	28,649,339	1,570,415	3,705,150	17,554	14,585	2,969	123,367	32,981	90,386
2020	25,361,541	1,122,872	2,677,582	10,772	10,603	169	39,404	25,164	14,240

1. 2011년부터 승용차 통계 포함

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

3. 비영업용 화물차 포함

4. 원 자료 제강기관의 자료 공표시차 발생에 따른 최근 통계 미수록

자료: 국토교통부, 코레일

4. Transport Performance

화물 Freight								
공로 ³ Highway ³	철도 Railways	해운 Shipping			항공 Aircraft			
			내항 Coastal	외항 Oversea		국내선 Domestic Lines	국제선 International Lines	
1,000 M/T								
104,256	48,761	127,527	22,206	105,321	227	18	209	1981
108,576	47,437	134,961	26,454	108,507	265	30	235	1982
126,403	50,478	147,271	29,086	118,185	309	43	266	1983
143,629	53,661	188,779	63,043	125,736	360	58	302	1984
148,699	55,346	167,189	34,179	133,010	401	67	333	1985
168,779	58,238	191,448	37,625	153,823	470	78	392	1986
175,283	59,281	218,755	40,747	178,008	565	93	472	1987
184,559	60,737	246,530	48,041	198,489	619	111	508	1988
199,945	58,670	258,774	54,874	203,900	866	154	711	1989
215,125	57,922	283,695	63,914	219,781	960	183	777	1990
245,126	61,215	339,096	76,124	262,972	987	200	787	1991
266,009	58,768	371,262	85,589	285,573	1,079	242	837	1992
289,450	60,167	413,068	96,196	316,872	1,224	273	951	1993
345,831	57,866	471,112	117,694	353,428	1,419	306	1,112	1994
408,368	57,469	533,536	129,112	404,424	1,613	323	1,291	1995
426,414	53,527	582,068	140,948	441,120	1,782	351	1,431	1996
499,083	53,828	632,076	147,046	485,030	2,018	387	1,631	1997
408,136	43,345	589,931	115,179	474,752	1,834	364	1,471	1998
401,177	42,081	655,876	123,693	532,183	2,113	393	1,719	1999
496,174	45,240	701,586	131,987	569,599	2,383	434	1,949	2000
535,725	45,122	751,454	140,544	610,910	2,295	431	1,864	2001
584,573	45,733	777,251	141,706	635,545	2,510	433	2,077	2002
565,456	47,110	812,935	145,327	667,608	2,632	423	2,209	2003
518,856	44,512	849,013	115,636	733,377	2,978	409	2,569	2004
526,000	41,669	874,346	119,410	754,936	2,989	372	2,617	2005
529,278	43,341	927,635	117,805	809,830	3,209	355	2,854	2006
550,264	44,531	982,603	120,079	862,524	3,454	316	3,138	2007
555,801	46,806	1,021,657	126,964	894,693	3,251	254	2,997	2008
607,480	38,898	968,331	120,032	848,299	3,142	269	2,873	2009
619,530	39,217	1,090,418	124,225	966,193	3,589	262	3,327	2010
1,439,625	40,012	1,195,154	125,588	1,069,566	3,519	281	3,238	2011
1,554,510	40,309	1,227,595	119,057	1,108,538	3,474	265	3,209	2012
1,546,407	39,822	1,241,065	117,860	1,123,205	3,499	253	3,246	2013
1,512,700	37,379	1,302,561	117,920	1,184,641	3,694	283	3,411	2014
1,761,291	37,094	1,345,393	128,611	1,216,782	3,807	288	3,519	2015
1,799,565	32,555	1,385,824	143,227	1,242,597	4,074	293	3,781	2016
1,854,011	31,670	1,455,076	142,587	1,312,489	4,322	290	4,032	2017
1,854,011	30,915	1,526,252	120,327	1,405,925	4,442	273	4,169	2018
1,847,241	28,664	1,536,558	107,408	1,429,150	4,275	259	4,016	2019
1,788,917	26,277	1,387,741	111,513	1,276,228	3,253	182	3,071	2020

1. Including car from 2011

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

3. Recent statistics are not included due to a discrepancy in release timing with the source data providers

3. Including non-business trucks

4. Due to discrepancies in data disclosure of original data providers, recent statistics not included

Source: Minister of Land, Infrastructure and Transport, KORAIL

5. 업종별 보일러 보유 현황

단위: 대

	합계 Total	산업용 Industrial					
		소계 Subtotal	음식료품 Food Beverage	섬유 및 피혁 Textile & Leather	나무 및 종이제품 Wood & paper Products	화학 Chemicals Petroleum Products	비금속광물제품 Non-metallic Mineral Products
1994	39,566	15,134	2,948	3,397	1,019	3,078	781
1995	40,322	15,156	2,839	3,315	1,002	3,099	771
1996	43,571	16,489	3,032	3,538	1,073	3,372	846
1997	41,223	16,203	2,852	4,226	1,283	3,104	647
1998	40,343	16,093	2,787	4,023	1,221	3,085	678
1999	40,541	15,636	2,752	4,094	1,224	3,133	686
2000	40,073	15,430	2,516	4,050	1,152	3,157	661
2001	39,678	15,893	2,295	3,585	1,016	3,042	494
2002	39,805	15,941	2,295	3,590	1,019	3,066	496
2003	38,627	15,337	2,190	3,323	946	3,033	468
2004	36,812	14,949	2,107	3,123	976	2,992	486
2005	36,768	14,437	2,092	2,756	861	3,012	420
2006	35,862	14,208	2,129	2,511	819	3,094	434
2007	35,495	14,066	2,162	2,349	779	3,121	426
2008	39,816	16,330	2,868	2,442	810	3,485	489
2009	41,217	17,111	3,097	2,501	835	3,620	507
2010	40,771	17,207	3,163	2,453	817	3,663	497
2011	41,213	17,749	3,290	2,447	841	3,902	537
2012	41,008	17,987	3,382	2,415	819	3,965	536
2013	40,882	18,076	3,437	2,380	820	4,017	514
2014	41,009	18,348	3,538	2,319	824	4,047	514
2015	39,654	18,161	3,575	2,118	793	3,964	508
2016	38,342	17,662	3,536	1,898	751	3,850	491
2017	36,982	17,107	3,580	1,628	696	3,759	465
2018	36,940	17,252	3,676	1,570	696	3,811	465
2019	37,209	17,655	3,846	1,588	681	3,847	467
2020	36,988	17,766	3,930	1,588	670	3,813	467

1. 검사대상기준

2. 원 자료 제공 기관의 통계 생산 중단으로 인해 최근 통계 미수록

자료: 한국에너지공단

5. Number of Boilers by Sector

Unit: Each

1차금속 Metals & Metal Products	기타 Others	난방용 Heating					
		소계 Subtotal	아파트 Apartment	공공건물 Public Building	목욕탕 Bathhouse	건물 및 기타 Building & Others	
2,465	1,446	24,432	4,596	6,063	2,627	11,146	1994
2,505	1,625	25,166	4,811	2,454	2,355	15,546	1995
2,750	1,878	17,082	5,045	2,645	2,475	16,917	1996
2,367	1,724	25,020	5,152	2,389	2,098	15,381	1997
2,341	1,958	24,250	4,736	2,373	1,995	15,146	1998
2,370	1,377	24,905	4,725	2,488	1,958	15,734	1999
2,416	1,478	24,643	4,558	5,989	1,821	12,275	2000
2,587	2,874	23,785	4,224	6,159	1,747	11,655	2001
2,582	2,893	23,864	4,194	6,206	1,752	11,712	2002
2,528	2,849	23,290	3,926	6,238	1,737	11,389	2003
2,487	2,778	21,863	3,903	6,140	1,666	10,154	2004
2,448	2,848	22,331	3,457	6,158	1,579	11,137	2005
2,542	2,679	21,654	3,123	6,093	1,463	10,975	2006
2,501	2,728	21,429	2,910	6,016	1,382	11,121	2007
2,574	3,662	23,486	2,687	6,558	1,420	12,821	2008
2,640	3,911	24,106	2,573	6,774	1,420	13,339	2009
2,646	3,968	23,564	2,414	6,655	1,355	13,140	2010
2,838	3,894	23,464	2,327	6,666	1,297	13,174	2011
2,849	4,012	23,030	2,206	6,531	1,231	13,062	2012
2,812	4,096	22,806	2,091	6,389	1,166	13,160	2013
2,792	4,314	22,661	1,988	6,294	1,103	13,276	2014
2,799	4,404	21,493	1,805	6,052	925	12,711	2015
2,760	4,376	20,680	1,711	5,793	766	12,410	2016
2,705	4,274	19,875	1,585	5,557	674	12,059	2017
2,654	4,380	19,688	1,549	5,392	628	12,119	2018
2,650	4,576	19,554	1,501	5,250	601	12,202	2019
2,649	4,649	19,222	1,441	5,113	570	12,098	2020

1. Inspection Facility Basis

2. Due to the discontinuation of statistical production by the original data provider, recent statistics are not included

Source: Korea Energy Agency

6. 용량별 보일러 보유 현황

단위: 대

	합계 Total	0.5T/H 미만	0.5~1T/H	1~1.5T/H	1.5~2T/H	2~2.5T/H	2.5~3T/H	3~3.5T/H	3.5~4T/H	4~4.5T/H
1994	39,566	3,642	7,255	5,985	6,518	2,887	1,498	2,829	371	1,300
1995	40,322	3,164	7,351	6,052	6,685	2,970	1,620	2,963	406	1,336
1996	43,571	3,365	7,935	6,552	7,242	3,210	1,781	3,198	454	1,436
1997	41,223	4,118	6,366	4,741	4,913	3,848	2,076	3,768	521	1,616
1998	40,343	3,867	6,256	4,619	4,825	3,782	2,053	3,712	528	1,565
1999	40,541	3,679	6,437	4,694	4,988	3,823	2,066	3,724	515	1,542
2000	40,073	3,237	6,372	4,709	5,011	3,795	2,081	3,717	519	1,518
2001	39,678	2,864	6,356	4,832	5,140	3,765	2,094	3,671	518	1,471
2002	38,805	2,852	6,379	4,846	5,164	3,795	2,111	3,677	521	1,473
2003	38,627	2,505	6,173	4,758	5,120	4,025	1,729	3,570	510	1,431
2004	36,812	2,303	6,017	4,422	4,835	3,974	1,646	3,315	504	1,366
2005	36,768	5,674	1,859	5,252	4,687	1,294	433	1,762	4,001	418
2006	35,862	1,645	5,368	4,587	5,306	3,797	1,958	3,309	479	1,305
2007	35,495	1,562	5,184	4,577	5,479	4,177	1,684	3,223	460	1,264
2008	39,816	1,449	6,635	6,034	7,265	4,253	1,641	3,183	447	1,200
2009	41,217	1,479	6,752	6,405	7,693	4,553	1,681	3,253	444	1,203
2010	40,771	1,414	6,439	6,331	7,699	4,627	1,658	3,272	442	1,196
2011	41,213	1,493	6,172	6,399	7,861	4,809	1,708	3,415	439	1,179
2012	41,008	1,381	6,008	6,305	7,840	4,994	1,694	3,462	438	1,155
2013	40,882	1,391	5,817	6,299	7,835	4,834	1,938	3,589	426	1,155
2014	41,009	1,384	5,747	6,291	7,956	5,211	1,714	3,596	421	1,146
2015	39,654	1,221	5,267	6,031	7,774	5,204	1,654	3,573	403	1,131
2016	38,342	1,102	4,958	5,728	7,504	5,125	1,634	3,532	386	1,142
2017	36,982	1,069	4,728	5,480	7,253	5,005	1,592	3,435	368	1,135
2018	36,940	1,074	4,671	5,393	7,263	5,077	1,565	3,480	357	1,155
2019	37,209	1,078	4,746	5,353	7,298	5,167	1,545	3,556	365	1,175
2020	36,988	1,081	4,713	5,183	7,230	5,219	1,490	3,625	346	1,195

주석: 원 자료 제공 기관의 통계 생산 중단으로 인해 최근 통계 미수록
 자료: 한국에너지공단

6. Number of Boilers by Capacity

Unit: Each

4.5~5T/H	5~6T/H	6~7T/H	7~8T/H	8~10T/H	10~15T/H	15~20T/H	20~30T/H	30T/H이상	
170	2,144	1,001	784	956	1,115	368	318	276	1994
182	2,300	1,048	837	991	1,201	384	352	480	1995
191	2,483	1,117	902	1,049	1,306	410	391	549	1996
220	2,734	1,217	986	1,156	1,420	430	457	636	1997
241	2,655	1,212	941	1,133	1,400	426	470	658	1998
216	2,639	1,195	942	1,121	1,421	431	453	655	1999
218	2,625	1,212	951	1,128	1,444	427	444	665	2000
232	2,605	1,130	932	1,094	1,408	435	427	704	2001
236	2,614	1,131	928	1,091	1,415	437	426	709	2002
228	2,542	1,121	892	1,058	1,371	446	430	718	2003
241	2,529	1,180	890	1,089	1,010	441	440	710	2004
497	3,312	747	220	1,341	2,379	1,066	825	1,001	2005
222	2,302	999	778	935	1,278	418	416	760	2006
217	2,202	963	743	909	1,248	421	410	772	2007
213	2,172	917	698	863	1,211	434	412	789	2008
206	2,188	912	693	849	1,221	451	414	820	2009
206	2,145	897	681	832	1,209	462	420	841	2010
213	2,144	913	672	818	1,206	473	423	881	2011
214	2,138	900	661	809	1,199	466	441	903	2012
208	2,085	878	640	797	1,190	454	443	903	2013
211	2,046	858	652	800	1,177	452	439	908	2014
207	1,996	842	629	786	1,140	446	423	927	2015
198	1,947	822	609	753	1,102	439	414	947	2016
187	1,818	796	576	706	1,044	427	403	960	2017
190	1,800	791	571	719	1,039	421	408	966	2018
189	1,861	785	554	736	1,022	411	407	961	2019
186	1,878	756	545	742	1,017	411	405	966	2020

Note: Due to the discontinuation of statistical production by the original data provider, recent statistics are not included
Source: Korea Energy Agency

7. 전도시 소비자물가지수

2020=100.0

	총지수 Total item	식료품 비주류음료 Food & nonalcoholic beverages	주류 및 담배 Alcoholic beverages & cigarettes	의류 및 신발 Clothing & footwear	주택·수도· 전기 및 연료 Housing water & fuels	전기·가스 및 기타연료 Electricity, gas & other fuels	가정용품 및 가사 서비스 Furnishings & household equipment	보건 Health
1981	25.4	-	-	-	-	-	-	-
1982	27.3	-	-	-	-	-	-	-
1983	28.2	-	-	-	-	-	-	-
1984	28.8	-	-	-	-	-	-	-
1985	29.6	20.8	22.3	32.9	31.2	35.8	44.3	36.3
1986	30.4	21.2	22.9	33.7	32.1	35.5	45.4	37.7
1987	31.3	21.9	23.2	34.9	32.8	35.9	46.9	39.0
1988	33.5	24.2	23.6	37.7	34.0	35.5	49.6	41.7
1989	35.4	25.7	24.8	42.6	35.4	35.1	53.0	42.9
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

자료: 통계청

7. All Cities Consumer Price Indices

2020=100.0

교통 Transport	운송 서비스 Transport services	통신 Communication	오락 및 문화 Culture & recreation	교육 Education	음식 및 숙박 Food & accomodation	기타상품 및 서비스 Miscellaneous goods & services	
-	-	-	-	-	-	-	1981
-	-	-	-	-	-	-	1982
-	-	-	-	-	-	-	1983
-	-	-	-	-	-	-	1984
27.7	14.3	157.0	64.9	17.4	21.4	33.7	1985
28.2	14.6	166.2	66.2	18.2	22.4	35.2	1986
28.7	14.8	169.1	67.6	19.3	23.4	36.2	1987
30.2	15.7	169.1	70.1	21.1	25.6	36.9	1988
31.2	16.3	150.9	71.9	23.0	29.5	37.0	1989
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

Source: Statistics Korea

8. 생산자 물가지수

2015 = 100.0

	총지수 All Items	상품 Goods	서비스 Services				운송서비스 Transport	
			농림수산물 Agricultural, Forest & Marine Products	광산물 Mining Products	공산물 Manufacturing Products	전력, 가스 수도 및 폐기물 Electric Power, Gas & Water Supply		
1981	48.7	49.7	28.0	25.3	55.4	52.5	-	-
1982	51.0	52.0	28.2	28.0	58.3	56.9	-	-
1983	51.1	52.1	29.0	28.8	58.1	55.6	-	-
1984	51.5	52.5	29.1	30.5	58.5	55.2	-	-
1985	51.9	53.0	30.8	32.1	58.4	55.2	-	-
1986	51.2	52.2	30.4	33.8	57.4	53.6	-	-
1987	51.4	52.4	30.2	35.9	57.9	51.8	-	-
1988	52.8	53.9	35.1	37.1	58.3	47.4	-	-
1989	53.6	54.7	36.3	38.0	59.1	44.4	-	-
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
1996	67.3	67.8	57.7	44.9	70.5	50.0	67.2	56.1
1997	69.9	70.0	58.8	45.6	72.8	52.5	71.0	58.6
1998	78.4	79.5	61.0	49.3	83.6	58.2	76.7	68.0
1999	76.8	77.7	67.2	49.9	80.7	57.8	75.4	67.8
2000	78.4	79.5	65.4	51.0	82.6	62.8	76.6	70.1
2001	78.0	78.5	67.8	51.6	80.8	67.2	77.5	71.8
2002	77.8	77.5	69.6	55.8	79.5	65.5	79.2	74.2
2003	79.5	79.1	73.6	56.6	80.8	67.3	81.1	77.1
2004	84.3	85.0	82.5	61.0	87.0	68.0	83.4	81.6
2005	86.1	87.1	79.5	65.2	89.7	68.5	84.5	82.7
2006	86.9	87.4	77.5	63.7	89.8	72.9	86.5	84.8
2007	88.1	88.4	79.6	68.1	90.5	75.3	88.5	87.0
2008	95.6	98.0	80.5	74.2	101.5	78.1	90.8	92.3
2009	95.4	97.3	87.5	81.4	99.7	82.2	91.7	93.9
2010	99.1	101.8	95.3	90.2	104.0	85.2	93.3	94.8
2011	105.7	110.6	102.4	92.1	113.4	90.0	95.6	95.9
2012	106.4	110.9	103.3	95.3	112.9	96.5	97.1	98.3
2013	104.7	108.2	97.1	97.6	109.6	101.6	97.4	99.0
2014	104.2	106.7	97.7	99.7	107.2	107.0	98.8	100.6
2015	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
2017	101.6	101.1	112.6	109.1	101.1	95.7	102.5	101.4
2018	103.5	103.3	116.7	114.5	103.3	96.2	103.9	102.9
2019	103.5	102.5	114.0	115.3	102.3	98.4	105.2	104.9
2020	103.0	100.9	124.9	112.7	99.7	98.1	106.6	106.1
2021	109.6	110.2	135.1	120.0	110.0	98.7	109.1	109.5

자료: 통계청

8. Producer Price Indices

2015 = 100.0

음식점 및 숙박서비스 Food & Accommodation	정보통신 및 방송서비스 Telecommunication & Broadcasting	금융 및 보험서비스 Financial & Insurance Activities	부동산서비스 Real Estate Activities	전문, 과학 및 기술서비스 Professional, scientific and technical activities	사업지원 서비스 Business Services	교육서비스 Education	예술, 스포츠 및 여가관련 서비스 Cultural Activities & Amusement Activities	기타서비스 Other Services	
-	-	-	-	-	-	-	-	-	1981
-	-	-	-	-	-	-	-	-	1982
-	-	-	-	-	-	-	-	-	1983
-	-	-	-	-	-	-	-	-	1984
-	-	-	-	-	-	-	-	-	1985
-	-	-	-	-	-	-	-	-	1986
-	-	-	-	-	-	-	-	-	1987
-	-	-	-	-	-	-	-	-	1988
-	-	-	-	-	-	-	-	-	1989
-	-	-	-	-	-	-	-	-	1990
-	-	-	-	-	-	-	-	-	1991
-	-	-	-	-	-	-	-	-	1992
-	-	-	-	-	-	-	-	-	1993
-	-	-	-	-	-	-	-	-	1994
59.8	85.0	87.0	69.3	38.5	84.5	-	-	-	1995
66.4	88.8	88.0	72.6	46.0	84.5	-	-	-	1996
70.2	91.3	87.5	75.9	51.9	90.0	-	-	-	1997
71.8	93.9	84.9	76.7	55.6	105.9	-	-	-	1998
72.6	95.0	91.4	74.6	54.5	92.6	-	-	-	1999
75.8	96.1	91.3	74.5	56.3	89.5	-	-	-	2000
80.9	96.9	87.4	75.7	58.8	86.3	-	-	-	2001
85.7	97.2	90.1	77.4	62.1	84.1	-	-	-	2002
85.7	96.7	90.3	80.0	65.7	82.4	-	-	-	2003
82.5	96.0	95.3	81.8	69.8	82.3	-	-	-	2004
82.1	96.0	100.2	82.5	72.4	81.3	-	-	-	2005
82.5	96.9	107.3	83.4	74.7	83.2	-	-	-	2006
82.7	97.4	114.7	85.2	76.7	84.8	-	-	-	2007
83.8	97.8	106.2	87.7	84.6	87.6	-	-	-	2008
84.8	98.7	101.3	89.9	87.2	88.5	-	-	-	2009
86.5	99.0	104.8	91.2	92.2	90.0	85.5	92.4	88.3	2010
92.2	99.0	107.5	93.1	95.2	92.4	88.4	94.3	91.6	2011
94.6	98.6	104.4	95.3	97.4	94.9	92.3	95.2	94.4	2012
96.2	97.8	98.3	97.1	97.4	96.0	95.8	96.7	96.1	2013
97.9	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	100.0	2015
102.2	100.5	97.7	101.6	102.8	101.7	102.1	101.7	101.7	2016
104.6	100.5	98.4	103.1	106.1	103.6	103.5	103.5	104.1	2017
107.9	99.6	97.0	104.1	108.1	108.0	106.1	106.4	107.5	2018
110.6	99.2	93.3	104.9	112.1	111.3	108.3	107.6	109.4	2019
111.8	100.6	93.6	106.0	114.6	114.6	110.2	107.5	110.8	2020
114.7	101.9	99.6	107.1	118.2	116.4	111.9	108.7	112.9	2021

Source: Statistics Korea

9. 특수 분류별 생산자 물가지수

2015 = 100.0

	총지수 All Items	식료품 Foods	식료품 이외 Excluding Foods	신선식품 Fresh Foods	신선식품 이외 Excluding Fresh Foods
1981	48.7	31.1	53.2	17.2	50.7
1982	51.0	31.3	56.5	15.9	53.4
1983	51.1	31.7	56.4	16.6	53.4
1984	51.5	31.8	56.8	16.6	53.8
1985	51.9	33.0	56.8	18.1	54.1
1986	51.2	33.0	55.7	18.1	53.2
1987	51.4	32.6	56.3	17.9	53.5
1988	52.8	35.6	56.6	23.8	54.4
1989	53.6	36.9	57.1	25.9	55.0
1990	55.8	41.0	58.1	29.5	56.9
1991	58.5	44.3	60.5	36.3	59.2
1992	59.7	46.3	61.4	37.8	60.4
1993	60.6	47.0	62.4	37.6	61.4
1994	62.3	51.0	63.2	47.4	62.5
1995	65.2	52.9	66.4	47.2	65.6
1996	67.3	54.5	68.6	45.0	67.8
1997	69.9	55.9	71.3	49.9	70.3
1998	78.4	62.3	80.0	50.8	79.1
1999	76.8	65.0	77.7	54.3	77.3
2000	78.4	63.4	79.8	50.3	79.1
2001	78.0	65.0	79.2	52.7	78.6
2002	77.8	66.3	78.8	56.2	78.3
2003	79.5	69.2	80.3	62.4	79.8
2004	84.3	75.2	85.0	72.8	84.5
2005	86.1	74.6	87.1	69.9	86.4
2006	86.9	73.8	88.0	69.9	87.2
2007	88.1	75.7	89.1	75.2	88.4
2008	95.6	79.3	97.1	67.5	96.2
2009	95.4	86.1	96.1	80.1	95.7
2010	99.1	91.2	99.6	102.3	99.0
2011	105.7	97.5	106.3	101.9	105.8
2012	106.4	100.0	106.9	113.2	106.3
2013	104.7	97.8	105.2	100.0	104.8
2014	104.2	98.6	104.6	95.6	104.3
2015	100.0	100.0	100.0	100.0	100.0
2016	98.2	103.4	97.8	120.6	97.9
2017	101.6	107.9	101.1	125.7	101.3
2018	103.5	110.0	103.0	128.6	103.2
2019	103.5	108.8	103.1	121.1	103.3
2020	103.0	114.6	102.2	138.9	102.6
2021	109.6	121.3	108.8	141.5	109.2

자료: 통계청

9. Producer Price Indices by Special Classification

2015 = 100.0

에너지 Energy	에너지 이외 Excluding Energy	IT Information Technology	IT 이외 Excluding IT	식료품·에너지 이외 Less Foods and Energy	산선식품·에너지 이외 Less Fresh Foods and Energy	
31.1	50.4	-	-	-	-	1981
34.2	52.1	-	-	-	-	1982
32.9	52.8	-	-	-	-	1983
32.4	53.5	-	-	-	-	1984
32.6	54.0	-	-	-	-	1985
29.5	53.9	-	-	-	-	1986
28.4	54.5	-	-	-	-	1987
25.0	57.1	-	-	-	-	1988
23.5	58.5	-	-	-	-	1989
23.1	61.3	-	-	-	-	1990
		-	-	-	-	
24.0	64.3	-	-	-	-	1991
25.5	65.4	-	-	-	-	1992
26.7	66.2	-	-	-	-	1993
26.7	68.2	-	-	-	-	1994
28.1	71.4	264.3	54.1	-	-	1995
31.6	73.2	244.5	56.6	-	-	1996
37.3	75.1	223.2	59.5	-	-	1997
48.4	83.0	227.2	67.4	-	-	1998
46.7	81.4	210.9	66.3	-	-	1999
53.7	81.9	199.2	68.1	83.9	82.8	2000
57.4	80.9	173.2	69.4	82.6	81.7	2001
57.2	80.7	156.8	70.3	82.2	81.3	2002
61.4	82.0	144.0	72.9	83.2	82.4	2003
66.2	86.8	139.8	78.1	87.8	87.0	2004
71.7	88.0	131.9	80.5	89.3	88.4	2005
78.3	88.0	123.3	82.5	89.4	88.4	2006
81.3	89.0	115.3	84.9	90.3	89.4	2007
97.1	95.5	114.2	93.6	97.1	96.2	2008
90.8	96.1	112.6	93.6	96.9	96.5	2009
98.9	99.1	110.3	98.0	99.8	99.1	2010
113.2	105.1	108.2	105.5	105.7	105.1	2011
120.4	105.2	106.1	106.5	105.6	105.0	2012
121.1	103.3	103.5	104.9	103.7	103.3	2013
120.3	102.7	101.4	104.5	103.1	102.8	2014
100.0	100.0	100.0	100.0	100.0	100.0	2015
89.7	98.9	96.3	98.4	98.6	98.7	2016
95.9	102.1	97.4	102.1	101.6	101.8	2017
100.8	103.8	94.3	104.7	103.3	103.4	2018
101.1	103.8	92.1	105.0	103.4	103.5	2019
90.7	104.1	92.6	104.4	103.3	103.6	2020
101.0	110.3	95.7	111.4	109.5	109.9	2021

Source: Statistics Korea

10. 주요 에너지 제품별 생산자 물가지수

2015 = 100.0

	무연탄	코크스	연탄	나프타	휘발유	제트유	등유	경유	중유	벙커C유	프로판	부탄가스	윤활유
	Anthracite	Coke	Briquets	Naphtha	Gasoline	Jet oil	Kerosene	Diesel oil	Bunker B	Bunker C	Propane	Butane	Lubricants
1981	19.0	14.6	31.5	35.1	51.6	50.7	31.9	21.9	19.4	30.7	72.2	63.8	22.3
1982	21.8	16.3	35.9	31.8	55.5	53.2	36.6	25.1	21.3	33.2	72.6	64.1	22.3
1983	22.6	16.3	36.4	31.0	49.0	53.2	36.6	25.1	20.6	31.0	62.2	55.1	22.3
1984	23.3	16.3	36.4	33.4	48.2	53.2	36.4	25.0	20.1	29.6	62.4	55.2	22.3
1985	24.7	16.3	37.9	32.9	48.2	53.2	36.4	25.0	20.1	29.5	62.4	55.2	22.4
1986	26.3	16.9	40.2	19.7	42.6	44.7	30.6	21.1	16.6	23.2	46.2	40.9	21.7
1987	27.8	17.1	42.2	21.1	40.4	41.3	28.6	19.8	15.4	21.4	40.7	36.1	21.1
1988	29.4	17.1	44.1	17.0	31.4	32.0	23.1	16.1	12.2	16.1	29.5	26.1	21.1
1989	30.1	17.1	44.8	17.9	26.1	27.5	21.9	15.3	11.1	13.4	24.8	21.9	20.4
1990	30.1	17.1	44.8	24.4	26.2	30.7	22.5	15.3	11.0	13.4	24.9	22.0	21.1
1991	30.0	17.1	44.8	25.9	33.9	29.6	27.5	15.3	10.9	12.9	24.1	21.3	24.3
1992	30.0	17.4	44.8	24.1	39.6	26.0	28.4	16.7	11.5	13.2	24.6	21.8	24.3
1993	30.0	17.8	44.8	22.1	43.6	26.6	30.6	18.0	12.3	13.8	25.3	22.4	24.3
1994	30.0	17.7	44.8	19.5	41.9	23.0	29.8	19.0	13.4	13.7	24.8	21.9	24.3
1995	30.0	17.7	44.8	21.1	42.4	22.7	31.1	20.1	15.3	17.2	25.8	22.9	25.8
1996	30.0	18.1	44.8	23.9	48.4	30.2	37.9	25.6	19.2	21.1	27.4	24.3	26.5
1997	30.5	18.1	44.8	30.5	61.3	32.3	45.7	32.6	25.4	28.4	36.2	32.1	27.1
1998	33.7	18.2	44.8	34.6	82.3	35.2	60.8	47.8	36.7	37.5	57.7	51.1	39.3
1999	38.9	18.8	44.8	33.3	87.7	33.4	54.3	45.4	30.7	32.3	43.5	38.6	36.1
2000	44.7	19.8	44.8	48.3	92.3	51.5	66.3	54.7	40.4	41.1	57.6	51.0	38.3
2001	44.7	22.0	44.8	49.9	95.8	50.7	69.5	58.9	42.6	43.1	66.1	64.4	42.3
2002	44.7	22.1	44.8	47.8	95.1	46.8	68.3	63.8	43.7	45.9	54.8	65.8	41.8
2003	46.9	23.5	48.5	58.7	97.2	52.5	79.8	74.1	48.8	49.2	60.9	82.7	42.1
2004	49.3	28.4	49.3	76.4	102.1	70.7	95.5	84.0	56.6	53.0	66.2	93.1	46.8
2005	53.8	37.6	49.3	85.1	107.1	88.5	108.5	96.7	67.3	60.8	74.3	96.3	50.2
2006	58.2	38.3	49.3	96.1	110.9	100.4	115.7	109.7	77.0	71.1	83.5	100.1	58.7
2007	64.0	48.5	56.7	111.1	115.0	102.1	118.1	115.4	79.6	73.9	89.1	103.0	59.6
2008	72.2	45.2	72.5	152.7	129.5	169.2	155.2	146.2	120.3	113.2	136.0	137.0	78.0
2009	81.9	108.4	80.8	127.1	124.4	114.6	118.5	126.2	96.3	95.9	98.1	105.7	78.4
2010	86.8	98.3	100.0	151.7	134.9	133.9	137.0	139.1	111.0	112.1	122.5	122.0	79.6
2011	92.2	125.7	100.0	188.0	169.6	177.7	180.8	178.5	143.2	147.1	148.0	151.6	96.6
2012	99.8	121.4	100.0	191.2	179.8	185.2	188.4	187.4	154.6	163.1	154.0	155.8	101.0
2013	99.9	124.0	100.0	181.7	170.3	173.6	178.8	175.1	146.5	145.0	149.0	149.5	98.6
2014	100.6	116.8	100.0	163.0	151.2	156.0	155.9	154.6	137.5	139.0	147.6	146.0	102.6
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	102.0	88.2	104.9	83.4	83.9	80.4	84.5	83.7	90.7	91.0	87.1	87.2	86.6
2017	109.5	115.9	123.5	101.2	99.0	96.6	99.2	100.1	107.4	110.7	109.0	104.0	85.0
2018	118.3	124.7	147.7	122.2	114.7	122.3	123.5	122.0	126.4	130.7	122.0	111.6	91.1
2019	126.1	120.9	171.1	110.6	109.1	117.9	121.5	119.1	127.3	136.2	109.0	98.1	90.0
2020	126.1	120.9	171.1	81.0	79.8	74.8	87.3	85.3	104.0	114.1	103.6	93.3	89.9
2021	126.1	115.4	171.1	134.3	123.6	110.6	121.1	125.2	130.9	138.4	136.6	124.8	116.0

자료: 통계청

10. Producer Price Indices of Major Energy Products

2015=100.0

그리스 Grease	아스팔트 Asphalt	재생유 WDF	액화 천연가스 LNG	주택용 전력 Residential Electricity	일반용 전력 General Electricity	산업용 전력 Industrial Electricity	주택용 도시가스 Residential city gas	일반용 도시가스 General city gas	산업용 도시가스 Industrial city gas	증기 Steam	지역난방 District Heating	
21.8	18.4	-	-	-	90.7	45.7	-	-	-	-	-	1981
21.8	20.5	-	-	-	97.0	49.8	-	-	-	-	-	1982
21.8	19.6	-	-	-	89.8	49.8	-	-	-	-	-	1983
21.8	19.3	-	-	-	87.8	49.8	-	-	-	-	-	1984
22.1	19.4	-	-	-	87.8	49.8	33.7	33.7	33.7	-	-	1985
21.7	16.2	-	-	-	79.6	49.5	33.7	33.7	33.7	-	-	1986
21.7	15.1	-	-	-	77.0	47.7	32.7	32.7	32.7	-	-	1987
21.4	11.4	-	-	-	70.0	43.7	21.3	21.3	21.3	-	-	1988
20.9	9.5	-	-	-	62.1	41.7	19.0	19.0	19.0	-	-	1989
21.6	9.5	-	-	-	57.7	39.1	20.7	20.7	20.7	-	-	1990
25.0	9.6	-	-	-	58.1	38.9	21.8	21.8	21.8	-	-	1991
25.0	10.6	-	-	-	62.1	41.4	23.9	23.9	23.9	-	-	1992
25.0	10.9	-	-	-	62.4	41.6	25.0	25.0	25.0	-	-	1993
25.0	11.0	-	-	-	62.4	41.6	25.5	25.5	25.5	-	-	1994
28.0	17.6	-	-	75.9	64.4	42.9	26.1	26.1	26.1	-	-	1995
30.1	20.0	-	-	76.6	65.4	43.6	26.9	26.9	26.9	-	-	1996
31.3	21.6	-	-	78.8	67.3	44.9	30.9	30.9	30.9	-	-	1997
46.4	29.8	-	-	86.3	73.8	49.2	44.2	44.2	44.2	-	-	1998
45.4	33.4	-	-	86.3	74.5	49.8	39.9	39.9	39.9	-	-	1999
45.9	47.7	-	-	86.7	78.6	53.6	48.5	48.5	48.5	48.8	-	2000
48.6	50.2	-	-	89.1	80.6	55.8	59.8	59.8	59.8	52.9	-	2001
48.0	48.9	-	-	88.4	80.6	55.8	51.6	51.6	51.6	54.8	-	2002
48.0	49.1	-	-	86.0	79.0	57.1	56.7	56.7	56.7	56.6	-	2003
53.8	48.0	-	-	83.8	76.6	57.2	59.9	59.9	59.9	55.6	-	2004
56.8	50.4	-	89.9	83.4	76.2	57.2	61.8	61.8	61.8	60.2	65.6	2005
61.5	67.8	-	96.7	84.8	76.9	59.0	74.0	74.0	74.0	69.0	71.2	2006
61.0	75.5	-	95.3	85.9	78.7	62.0	77.3	77.3	77.3	67.7	72.3	2007
81.5	103.5	-	83.2	85.9	76.2	63.2	84.0	84.0	84.0	102.1	78.9	2008
85.8	113.8	-	107.7	88.6	77.3	69.6	92.7	92.7	92.7	95.3	85.2	2009
87.8	132.2	89.8	112.4	91.9	78.0	73.6	94.4	100.6	98.8	102.6	85.1	2010
104.3	152.7	111.3	126.8	93.3	79.7	77.9	103.6	109.0	107.8	119.6	83.6	2011
108.6	174.8	126.6	134.6	95.5	86.7	87.5	109.6	115.0	114.5	119.6	93.3	2012
100.3	170.3	121.0	130.5	99.1	94.9	95.0	114.1	119.5	119.6	101.0	97.7	2013
100.8	155.6	116.9	125.6	101.6	100.0	100.5	121.5	127.0	127.9	104.2	100.0	2014
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2015
87.6	72.3	91.3	86.9	95.9	100.0	99.8	80.2	76.5	75.4	95.8	81.6	2016
86.3	103.6	95.0	94.5	89.9	100.0	100.5	83.3	80.1	79.6	96.6	79.4	2017
95.6	133.7	116.9	97.7	87.4	100.0	100.5	79.2	76.1	77.5	101.6	77.3	2018
93.0	140.8	104.9	101.4	87.5	100.0	100.5	82.6	80.1	82.4	104.8	78.7	2019
93.8	112.1	94.0	79.2	87.5	100.0	100.5	79.2	76.0	74.9	92.3	79.3	2020
121.9	152.4	122.3	90.8	86.0	97.8	98.5	74.1	69.8	86.1	103.6	78.1	2021

Source: Statistics Korea

11. 가계동향

단위: 원

	소득 Income	소비지출 Consumption expenditures		
			전기료 Electricity	연료비 Fuel
1981	-	215,278	4,602	12,474
1982	-	248,977	5,191	13,491
1983	-	271,015	5,578	13,701
1984	-	294,396	6,082	14,120
1985	-	317,025	6,368	15,221
1986	-	348,193	6,453	15,859
1987	-	400,031	6,868	16,081
1988	-	467,636	7,518	15,780
1989	-	594,287	8,450	15,601
1990	-	685,662	9,216	16,785
1991	-	818,340	10,412	18,205
1992	-	941,949	12,636	20,195
1993	-	1,020,953	14,098	23,416
1994	-	1,140,432	16,123	22,580
1995	-	1,265,890	17,790	25,959
1996	-	1,426,853	19,688	30,610
1997	-	1,489,541	21,500	35,758
1998	-	1,316,222	24,148	36,360
1999	-	1,478,876	25,558	36,082
2000	-	1,632,298	29,378	40,582
2001	-	1,762,124	30,864	43,370
2002	-	1,834,812	32,977	41,892
2003	3,762,900	2,431,789	-	98,725
2004	3,850,508	2,481,834	-	96,865
2005	3,894,862	2,515,537	-	96,927
2006	3,993,516	2,556,508	-	93,666
2007	4,102,045	2,584,168	-	92,496
2008	4,152,466	2,589,175	-	91,754
2009	4,090,316	2,561,419	-	95,288
2010	4,204,685	2,647,673	-	103,270
2011	4,275,555	2,662,956	-	99,540
2012	4,440,315	2,676,513	-	99,243
2013	4,474,608	2,667,160	-	96,264
2014	4,567,447	2,708,244	-	86,909
2015	4,610,025	2,701,945	-	90,680
2016	4,592,872	2,661,987	-	92,978
2017	4,565,159	2,618,489	-	82,806
2018	4,754,424	2,561,049	-	85,476
2019	4,856,297	2,957,928	-	89,948
2020	4,936,582	2,910,251	-	94,461
2021	5,103,963	2,945,181	-	97,278

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

11. Average Income and Expenditure per Household

Unit: KRW

공동주택난방비 APT Heating	운송기구연료비 Fuel of vehicles	공공교통 Public transport	개인교통 Private transport	
-	-	-	-	1981
-	-	12,132	447	1982
-	-	12,079	579	1983
-	-	12,773	1,133	1984
-	-	13,131	1,422	1985
-	-	-	-	-
-	-	14,007	1,357	1986
-	-	15,899	2,662	1987
-	-	17,166	6,251	1988
-	-	19,843	19,074	1989
784	-	20,880	24,619	1990
840	-	24,359	32,113	1991
1,059	-	27,149	40,766	1992
1,219	-	30,952	53,605	1993
1,063	-	34,173	74,137	1994
1,969	-	36,987	79,257	1995
2,806	-	41,233	94,436	1996
3,057	-	45,084	104,872	1997
4,792	-	41,359	97,754	1998
4,541	-	46,557	120,434	1999
5,591	-	49,940	134,457	2000
5,941	-	53,769	136,209	2001
5,340	-	51,868	146,609	2002
-	109,286	-	-	2003
-	107,444	-	-	2004
-	106,280	-	-	2005
-	105,318	-	-	2006
-	103,868	-	-	2007
-	99,241	-	-	2008
-	97,155	-	-	2009
-	94,951	-	-	2010
-	92,035	-	-	2011
-	92,300	-	-	2012
-	97,750	-	-	2013
-	101,769	-	-	2014
-	110,930	-	-	2015
-	111,884	-	-	2016
-	96,128	-	-	2017
-	93,364	-	-	2018
-	110,384	-	-	2019
-	111,025	-	-	2020
-	106,582	-	-	2021

1. At chained 2015 year prices

2. 1990~2002: Old classification. Includes households of more than 2 persons in city only

3. 2003~2018: New classification. Includes households of more than 2 persons

4. 2019~ :Excludes agricultural/forestry households and one person households

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

Source: Household Income and Expenditure Survey, Statistics Korea

12. 냉난방도일

Heating and Cooling Degree-Days

단위: 원

	평균기온 Average temperature	난방도일(18℃) Heating degree day	냉방도일(24℃) Cooling degree day	냉방도일(18℃ 기준) Cooling degree day	평균기온 증가율(%)	난방도일 증가율(%)	냉방도일 증가율(%)
	℃	도일(Degree day)		도일			
1981	11.2	3,103.0	92.5	630.7	0.4	-0.4	29.0
1982	12.5	2,707.3	94.4	721.2	1.3	-12.8	14.3
1983	14.9	2,751.8	99.5	727.6	2.4	1.6	0.9
1984	11.6	3,066.0	134.0	722.5	-3.3	11.4	-0.7
1985	11.6	3,054.7	137.3	725.2	-	-0.4	0.4
1986	11.2	3,017.7	53.1	574.4	-0.3	-1.2	-20.8
1987	11.9	2,807.6	42.9	612.5	0.7	-7.0	6.6
1988	12.1	2,881.2	117.2	729.6	0.2	2.6	19.1
1989	13.0	2,473.1	91.1	652.2	0.9	-14.2	-10.6
1990	12.8	2,557.6	125.9	673.8	-0.2	3.4	3.3
1991	12.3	2,748.9	88.0	704.0	-0.5	7.5	4.5
1992	12.5	2,636.2	84.4	623.6	0.1	-4.1	-11.4
1993	12.0	2,723.7	18.2	564.6	-0.4	3.3	-9.5
1994	13.5	2,510.8	276.4	909.3	1.5	-7.8	61.1
1995	12.2	2,738.9	109.1	646.3	-1.4	9.1	-28.9
1996	12.2	2,843.9	117.8	742.3	0.0	3.8	14.9
1997	12.9	2,625.4	204.1	784.6	0.7	-7.7	5.7
1998	13.8	2,322.9	103.8	803.0	0.9	-11.5	2.3
1999	13.2	2,560.3	170.0	829.1	-0.6	10.2	3.3
2000	12.7	2,758.5	186.0	823.7	-0.5	7.7	-0.7
2001	12.8	2,721.0	159.7	844.8	0.1	-1.4	2.6
2002	12.9	2,545.8	92.5	689.5	0.1	-6.4	-18.4
2003	12.8	2,509.4	47.3	636.8	-0.0	-1.4	-7.6
2004	13.3	2,467.4	141.2	766.1	0.5	-1.7	20.3
2005	12.1	2,889.5	121.2	750.4	-1.2	17.1	-2.0
2006	13.0	2,524.1	116.3	721.7	0.9	-12.6	-3.8
2007	13.3	2,483.2	125.2	761.4	0.3	-1.6	5.5
2008	12.9	2,589.0	110.2	745.9	-0.3	4.3	-2.0
2009	12.9	2,585.4	100.2	743.4	-0.0	-0.1	-0.3
2010	12.1	2,953.4	167.2	814.8	-0.8	14.2	9.6
2011	12.0	2,882.6	113.1	722.6	-0.1	-2.4	-11.3
2012	12.2	2,967.7	187.9	870.0	0.2	3.0	20.4
2013	12.5	2,908.0	194.8	908.9	0.3	-2.0	4.5
2014	13.4	2,501.6	125.4	822.7	0.9	-14.0	-9.5
2015	13.6	2,459.1	151.8	861.1	0.2	-1.7	4.7
2016	13.6	2,589.7	238.1	976.7	-	5.3	13.4
2017	13.0	2,687.6	188.1	889.4	-0.6	3.8	-8.9
2018	12.9	2,763.4	286.2	939.3	-0.1	2.8	5.6
2019	13.5	2,525.5	178.4	887.9	0.6	-8.6	-5.5
2020	13.2	2,499.1	129.3	770.8	-0.3	-1.0	-13.2
2021	13.7	2,456.8	205.9	906.3	0.5	-1.7	17.6

주. 서울시 기준
자료: 기상청

Note: Based on heating and cooling degree days in Seoul
Source: Korea Meteorological Administration



8. 해외 에너지통계 World Energy Statistics

1. 주요 에너지 지표 Energy Indicators

- 1-1. **OECD 국가별 경제활동별 부가가치(USD, 2020년)**
Gross Value Added by Economic Activity by OECD Countries(USD, 2020)
- 1-2. **세계 에너지·경제통계(2020년)**
Energy Indicators by Country(2020)
- 1-3. **1-3. 국가별 에너지 수입(2021년)**
Energy Imports by Country(2021)
- 1-4. **국가별 에너지 수출(2021년)**
Energy Exports by Country(2021)
- 1-5. **OECD 국가별 최종에너지 소비(부문별, 2020년)**
Final Energy Consumption by OECD Countries(by Sector, 2020)
- 1-6. **OECD 국가별 최종에너지 소비(원별, 2020년)**
Final Energy Consumption by OECD Countries(by Source, 2020)
- 1-7. **OECD 국가별 신재생에너지 공급현황(2021년)**
Renewable Energies and Waste Supply by OECD Countries(2021)

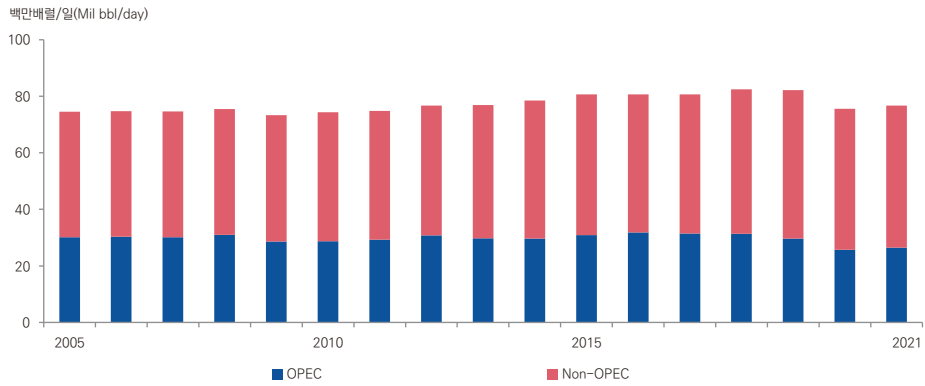
2. 에너지 통계 Energy Statistics

- 2-1. **세계 일차에너지 공급**
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- 2-14. **국별 석탄 소비**
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- 2-15. **국별 원자력 소비**
Nuclear Energy Consumption by Country
- 2-16. **국별 수력 소비**
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- 2-17. **국별 발전 전력량**
Power Generation by Country



● 세계 원유 생산 World Crude Oil Production

〈2005~2021〉



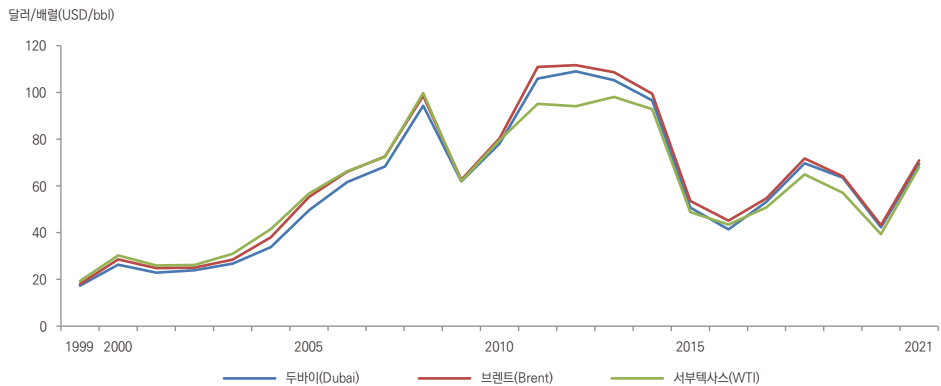
● 세계 석유 수요 World Oil Demand

〈1999~2021〉



● 국제 석유 가격 International Oil Prices

〈1999~2021〉



1. 주요 에너지 지표

1-1. OECD 국가별 경제활동별 부가가치(USD, 2020년)

단위: 백만 달러

	산업부문 Industry					유통, 보수, 운수, 숙박, 음식점 등	정보·통신업
	농림어업 Agriculture, Forestry and Fisheries	제조업 Manufacturing	건설업 Construction	기타 Others	소계 Subtotal	Distributive trade, repairs; transport; accommod., food serv.	Information and communication
호 주	31,695	76,626	95,174	191,003	394,498	201,896	39,973
오스트리아	4,549	68,221	21,408	80,466	174,644	71,459	14,330
벨기에	3,100	58,487	22,122	69,380	153,089	71,593	21,144
캐나다	32,862	147,054	116,267	259,471	555,654	251,357	80,652
칠레	9,761	25,515	14,624	53,055	102,955	41,312	9,834
콜롬비아	20,270	34,166	14,925	57,198	126,559	47,498	8,817
코스타리카	2,959	7,784	2,537	9,820	23,100	9,045	2,942
체코	5,095	48,310	8,248	56,105	117,757	32,801	13,013
덴마크	2,999	45,890	13,773	53,632	116,294	58,107	15,606
에스토니아	645	3,441	1,703	4,541	10,329	5,120	1,894
핀란드	6,212	37,517	13,566	45,044	102,339	32,321	13,535
프랑스	35,343	237,774	108,054	292,833	674,004	358,658	131,237
독일	24,143	673,702	141,524	774,658	1,614,027	482,385	169,009
그리스	7,845	18,815	3,328	27,253	57,241	35,294	5,093
헝가리	4,727	25,233	5,428	29,039	64,426	22,806	7,767
아이슬랜드	1,069	1,768	1,317	2,738	6,892	2,607	966
아일랜드	3,422	143,885	6,598	149,729	303,635	32,482	63,933
이스라엘	4,249	44,943	16,934	50,930	117,056	44,040	34,178
이탈리아	34,887	247,046	71,344	300,311	653,589	303,651	64,929
일본	38,735	893,012	249,117	1,031,626	2,212,491	778,819	232,353
한국	27,801	427,685	77,981	470,366	1,003,833	196,031	76,503
라트비아	1,124	3,544	1,591	4,423	10,681	6,709	1,441
리투아니아	1,583	8,479	3,194	9,816	23,072	13,994	1,878
룩셈부르크	129	3,270	3,119	4,220	10,738	8,527	2,990
멕시코	41,256	195,404	67,626	246,596	550,882	290,946	30,227
네덜란드	13,729	91,433	37,390	114,238	256,790	143,511	41,862
뉴질랜드	8,280	20,988	13,343	27,716	70,327	31,485	5,178
노르웨이	5,895	25,730	23,981	101,586	157,192	50,563	16,719
폴란드	12,401	97,099	34,062	126,247	269,810	120,159	26,011
포르투갈	4,174	25,307	8,278	32,426	70,185	38,690	7,842
슬로바키아	1,952	17,851	5,220	21,323	46,346	15,632	4,662
슬로베니아	1,017	10,585	2,379	12,048	26,029	8,815	1,845
스페인	34,900	122,717	61,469	169,399	388,485	212,089	47,098
스웨덴	6,996	67,968	31,438	85,674	192,076	80,801	45,119
스위스	4,341	135,211	36,474	149,501	325,526	132,904	33,903
터키	67,679	167,402	68,273	201,808	505,160	218,614	31,657
영국	17,143	287,543	142,237	395,368	842,291	355,902	227,360
미국	227,217	2,209,200	743,233	2,831,084	6,010,734	2,865,817	1,612,757

주: 1. 4차 국제표준산업분류 기준

2. 2015년 불변가격, 불변환율 기준

자료: OECD iLibrary

1. Energy indicators

1-1. Gross Value Added by Economic Activity by OECD Countries(USD, 2020)

Unit: Million USD

금융·보험업 등	부동산업 등	교육, 과학, 기술, 행정, 지원업 등	공공, 의무 사회 서비스, 교육, 보건업 등	기타 서비스업	총부가가치	국내총생산	
Financial and insurance activities	Real estate activities	Prof., scientific, techn.; admin., support serv. activities	Public admin.; compulsory s.s.; education; human healths	Other service activities	Gross value added	GDP	
112,092	166,196	147,952	258,827	32,805	1,276,294	1,368,084	Australia
16,688	34,443	34,773	59,889	8,191	346,094	387,489	Austria
27,542	40,868	67,139	90,574	7,397	420,442	468,610	Belgium
122,809	200,241	110,252	307,493	24,089	1,503,674	1,607,402	Canada
12,812	18,946	22,964	38,395	..	221,328	246,413	Chile
15,479	29,596	21,063	48,330	7,646	270,871	298,742	Colombia
3,898	5,025	7,861	11,295	1,887	57,242	61,631	Costa Rica
9,804	15,078	13,223	26,805	3,855	184,244	203,774	Czech Republic
17,104	29,840	25,997	56,873	7,190	281,069	325,968	Denmark
1,150	2,358	2,190	3,300	523	23,450	26,747	Estonia
6,503	28,566	19,552	43,318	6,487	215,228	249,127	Finland
101,891	287,775	308,514	480,665	50,472	2,153,835	2,413,104	France
131,422	339,201	357,924	573,427	109,421	3,105,888	3,463,685	Germany
8,584	28,315	8,736	33,938	4,890	163,023	185,552	Greece
4,986	9,919	12,751	17,462	3,369	118,169	140,673	Hungary
1,306	2,019	1,286	3,643	500	17,501	19,417	Iceland
14,577	16,805	41,338	35,816	3,799	366,217	394,217	Ireland
18,801	43,965	32,910	60,410	7,346	313,356	351,803	Israel
93,091	226,872	163,953	262,467	58,325	1,578,963	1,744,757	Italy
201,004	544,087	347,113	742,605	161,203	4,324,205	4,363,131	Japan
99,160	122,353	139,466	251,262	31,291	1,491,980	1,626,526	South Korea
804	2,915	1,974	4,592	667	26,297	30,077	Latvia
896	2,816	3,148	5,375	756	43,390	48,188	Lithuania
16,372	5,047	8,735	9,798	959	59,949	65,644	Luxembourg
48,899	132,415	80,294	124,798	18,183	1,085,320	1,152,516	Mexico
56,504	48,362	103,499	150,983	13,751	724,066	807,598	Netherlands
11,166	29,355	20,541	29,356	6,181	182,808	199,618	New Zealand
18,923	28,758	26,651	81,294	5,114	359,082	403,553	Norway
20,995	27,821	45,699	72,197	8,939	494,656	559,958	Poland
9,392	22,219	14,762	34,772	4,623	177,223	203,905	Portugal
2,733	9,436	8,592	13,739	2,410	85,815	96,140	Slovak Republic
1,651	3,061	3,859	6,729	894	42,319	48,206	Slovenia
45,959	138,404	97,795	212,281	45,994	1,065,573	1,173,979	Spain
25,526	40,615	55,319	93,091	12,474	476,035	537,889	Sweden
78,036	47,896	76,561	135,282	14,515	708,803	729,362	Switzerland
37,813	75,790	48,263	121,588	22,017	893,961	1,015,716	Turkey
233,501	374,703	311,013	418,238	74,889	2,537,087	2,824,026	United Kingdom
1,424,452	2,248,202	2,340,477	4,087,453	378,015	18,721,000	19,377,381	United States

Note: 1. Based on ISIC rev4(International Standard Industrial Classification of All Economic Activities, Fourth Revision)

2. Based on 2015 constant prices, constant exchange rates

Source: OECD iLibrary

1-2. 세계 에너지·경제통계(2020년)

		인 구	국내총생산		에너지 생산	에너지 순수입	일차에너지 공급	최종에너지 소비	전력소비		가정에너지 소비	수송에너지 소비
		Population	GDP		Energy prod.	Net imports	TPES ¹	TFEC ²	Electricity consumption		Residen. energy con.	Transport. energy con.
				(PPP)								
		Millions	Bil. USD(2015)		Mil.toe				TWh	Mil.toe	Mtoe	
세 계		7,752.74	81,765.02	123,574.62	14,154.61	-91.14	13,963.30	9,573.41	24,901.43	1,958.44	2,114.26	2,506.72
O E C D		1,368.05	49,076.23	55,967.26	4,427.87	701.79	5,021.39	3,535.57	10,307.30	813.57	702.18	1,108.86
중 동		243.11	2,219.14	4,805.88	1,978.83	-1,201.11	743.92	510.29	1,059.60	81.61	87.96	140.76
비OECD 유럽 및 유라시아		340.81	2,545.17	6,647.49	2,026.68	-816.32	1,167.26	771.63	1,603.92	109.05	217.97	155.27
중 국 (홍콩 포함)		1,405.22	14,651.24	23,478.94	2,719.35	784.35	3,403.39	2,101.22	7,201.84	564.72	352.11	326.27
비OECD 아시아(중국제외)		2,562.63	7,173.89	20,958.34	1,562.91	490.52	1,965.05	1,356.30	2,927.36	241.72	322.56	286.55
비OECD 아메리카		449.50	3,716.72	6,483.32	620.32	-39.98	560.01	422.95	953.48	78.25	71.07	155.88
아 프 리 카		1,338.82	2,576.79	6,332.31	1,087.00	-245.89	830.26	598.26	715.68	57.40	344.33	112.15
알 바 니 아		2.84	12.52	36.93	1.49	0.79	2.16	1.87	6.68	0.54	0.54	0.60
알 제 리		43.85	168.50	484.60	136.39	-76.08	59.78	40.74	70.11	5.19	12.95	13.70
앙 골 라		32.87	103.88	182.91	76.45	-63.10	13.02	9.75	14.54	1.22	6.23	1.85
아 르 헨 티 나		45.38	558.18	750.52	72.99	0.91	73.82	51.36	127.67	10.71	13.59	13.86
아 르 메 니 아		2.96	11.92	32.95	0.96	2.71	3.59	2.61	6.26	0.51	0.86	0.85
호 주		25.69	1,327.26	1,198.39	452.61	-312.43	131.00	80.65	254.01	18.63	10.87	31.56
오 스 트 리 아		8.92	386.45	436.00	11.99	18.80	31.52	26.51	71.57	5.26	6.51	7.82
아 제 르 바 이 잔		10.09	51.29	139.39	58.70	-42.55	15.54	10.71	22.78	1.64	3.94	2.31
바 레 인		1.70	33.26	66.87	24.20	-8.24	15.98	6.59	31.98	2.74	0.81	1.11
방 글 라 데 시		164.69	269.85	770.91	30.10	15.39	44.97	29.85	82.01	6.87	14.24	3.59
벨 라 루 스		9.38	58.64	177.87	4.45	21.03	25.08	18.67	35.31	2.65	4.99	3.68
벨 기 에		11.54	466.76	525.95	13.75	44.74	50.32	38.01	85.60	6.80	7.79	7.67
베 닝		12.12	14.73	39.48	2.97	2.60	5.56	4.57	1.29	0.11	1.83	2.07
불 리 비 아		11.67	34.86	81.90	17.11	-9.31	7.78	6.20	9.09	0.72	1.06	3.05
보스니아헤르체고비나		3.28	17.83	45.30	5.24	1.80	7.10	4.13	11.59	0.85	1.80	1.20
보 츠 와 나		2.35	14.80	33.83	1.56	0.82	2.37	1.68	3.60	0.28	0.55	0.71
브 라 질		212.56	1,749.10	2,925.64	321.78	-31.72	286.23	223.03	540.19	43.79	28.41	80.54
브 루 나 이		0.44	13.43	26.95	14.44	-10.23	3.93	1.51	5.30	0.41	0.16	0.41

1. TPES: Total Primary Energy Supply. 세계 일차에너지는 국제병커링과 전력열 교역량을 포함

2. TFEC: Total Final Energy Consumption

3. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제병커링 배출 포함

자료: OECD iLibrary

1-2. Energy Indicators by Country(2020)

CO ₂ 배출량 ³ CO ₂ Emiss. ³	1인당 에너지 소비 Energy Consumption per Capita		전력소비/ 최종에너지소비 Elec.Cons./TFEC	TPES/GDP	TPES/GDP (PPP)	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP (PPP)	
	일차에너지 TPES	전력소비 Electricity								
Mt of CO ₂	toe/capita	kWh/capita	%	toe/2015 USD		tCO ₂ /toe	tCO ₂ /capita	kgCO ₂ /2015 USD		
31,665.44	1.80	3,211.95	20.46	0.17	0.11	2.27	4.08	0.39	0.26	World
10,292.73	3.67	7,534.33	23.01	0.10	0.09	2.05	7.52	0.21	0.18	OECD
1,754.28	3.06	4,358.50	15.99	0.34	0.15	2.36	7.22	0.79	0.37	Middle East
2,547.80	3.42	4,706.20	14.13	0.46	0.18	2.18	7.48	1.00	0.38	Non-OECD Europe and Eurasia
9,919.13	2.42	5,125.10	26.88	0.23	0.14	2.91	7.06	0.68	0.42	China (P.R. of China and Hong Kong)
4,575.22	0.77	1,142.30	17.82	0.27	0.09	2.33	1.79	0.64	0.22	Non-OECD Asia(excluding China)
941.95	1.25	2,121.20	18.50	0.15	0.09	1.68	2.10	0.25	0.15	Non-OECD Americas
1,144.29	0.62	535.00	9.60	0.32	0.13	1.38	0.85	0.44	0.18	Africa
3.39	0.76	2,354.40	29.01	0.17	0.06	1.57	1.20	0.27	0.09	Albania
134.52	1.36	1,598.92	12.75	0.35	0.12	2.25	3.07	0.80	0.28	Algeria
15.14	0.40	442.32	12.46	0.13	0.07	1.16	0.46	0.15	0.08	Angola
149.02	1.63	2,813.53	20.85	0.13	0.10	2.02	3.28	0.27	0.20	Argentina
6.33	1.21	2,113.01	19.39	0.30	0.11	1.76	2.14	0.53	0.19	Armenia
374.23	5.10	9,886.14	23.10	0.10	0.11	2.86	14.57	0.28	0.31	Australia
57.32	3.53	8,026.28	19.86	0.08	0.07	1.82	6.43	0.15	0.13	Austria
32.93	1.54	2,257.28	15.27	0.30	0.11	2.12	3.26	0.64	0.24	Azerbaijan
32.12	9.39	18,787.65	41.50	0.48	0.24	2.01	18.87	0.97	0.48	Bahrain
84.09	0.27	497.94	23.02	0.17	0.06	1.87	0.51	0.31	0.11	Bangladesh
52.50	2.67	3,764.61	14.21	0.43	0.14	2.09	5.60	0.90	0.30	Belarus
82.73	4.36	7,415.21	17.89	0.11	0.10	1.64	7.17	0.18	0.16	Belgium
7.61	0.46	106.14	2.39	0.38	0.14	1.37	0.63	0.52	0.19	Benin
17.06	0.67	779.10	11.60	0.22	0.09	2.19	1.46	0.49	0.21	Bolivia
20.52	2.17	3,533.37	20.70	0.40	0.16	2.89	6.25	1.15	0.45	Bosnia and Herzegovina
5.76	1.01	1,531.58	16.83	0.16	0.07	2.43	2.45	0.39	0.17	Botswana
388.79	1.35	2,541.36	19.64	0.16	0.10	1.36	1.83	0.22	0.13	Brazil
9.20	9.00	12,119.95	27.05	0.29	0.15	2.34	21.05	0.69	0.34	Brunei Darussalam

1. TPES: Total Primary Energy Supply. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade

2. TFEC: Total Final Energy Consumption

 3. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines
CO₂ emissions for world include emissions from international aviation and international marine bunkers

Source: OECD iLibrary

1-2. 세계 에너지·경제통계(2020년)(계속)

	인 구	국내총생산		에너지 생산	에너지 순수입	일차에너지 공급	최종소비 ²	전력소비		가정에너지 소비	수송에너지 소비
	Population	GDP		Energy prod.	Net imports	TPES ¹	TFC ²	Electricity consumption		Residen. energy con.	Transport. energy con.
	Millions	Bil. USD(2015)		Mil.toe				TWh	Mil.toe	Mtoe	
불 가 리 아	6.93	54.92	142.72	10.77	6.79	17.46	9.87	34.76	2.46	2.38	3.22
캄 보 디 아	16.72	23.00	67.03	3.85	4.72	8.53	7.13	11.49	0.95	2.56	2.22
카 메 룬	26.55	37.69	92.57	13.29	-3.17	10.11	8.12	7.09	0.59	5.12	1.14
캐 나 다	38.04	1,608.06	1,647.06	517.86	-228.71	283.67	190.04	561.39	44.97	33.26	56.48
칠 레	19.44	246.15	411.54	12.78	25.15	37.95	26.98	80.71	6.41	4.81	8.53
중 국	1,410.93	14,686.18	23,626.46	2,795.95	804.08	3,499.48	2,181.91	7,424.99	587.12	365.36	322.85
콜 롬 비 아	49.43	298.74	641.70	96.10	-78.38	40.07	28.54	74.44	5.65	6.08	9.80
콩 고	5.52	8.84	16.74	18.78	-15.28	3.27	1.93	2.12	0.13	1.18	0.38
코 스 타 리 카	5.11	61.78	90.68	2.59	2.24	4.78	3.50	10.19	0.85	0.50	1.67
코 트 디 부 아 르	26.38	61.03	143.97	10.52	0.80	11.19	7.72	8.34	0.70	4.77	1.39
크 로 아 티 아	4.05	52.56	102.67	3.72	4.46	8.24	6.94	16.30	1.31	2.26	1.96
쿠 바	11.33	81.05	276.19	4.69	5.55	9.84	5.98	17.03	1.29	1.28	0.53
퀴 라 소	0.16	2.37	2.97	0.02	2.30	0.72	0.67	0.75	0.06	0.08	0.34
키 프 로 스	0.88	23.64	32.14	0.17	2.38	2.13	1.51	4.61	0.38	0.35	0.62
체 코	10.70	203.14	386.23	23.68	15.63	40.18	25.85	67.25	4.90	6.96	6.32
북 한	25.78	28.57	103.23	13.89	1.07	14.96	13.70	12.81	0.98	1.50	1.32
콩고 민주공화국	89.56	45.26	82.40	31.42	-0.20	31.10	20.14	9.90	0.77	18.29	0.77
덴 마 크	5.83	327.86	301.93	9.21	7.36	15.24	13.03	34.56	2.69	4.10	3.92
도미니카공화국	10.85	83.29	177.38	1.15	7.42	8.38	6.28	14.47	1.34	1.48	2.40
에 과 도 르	17.64	93.78	169.28	28.28	-14.79	13.57	11.11	25.77	2.19	1.85	5.27
이 집 트	102.33	397.31	1,330.93	86.59	1.99	87.68	56.58	157.97	13.16	13.38	17.25
엘 살 바 도 르	6.49	23.78	48.73	2.10	2.15	4.18	2.45	6.17	0.52	0.57	1.07
에 리 트 레 아	3.55	2.27	5.99	0.74	0.22	0.94	0.64	0.33	0.03	0.51	0.07
에 스 토 니 아	1.33	26.28	44.11	4.38	0.51	4.47	2.91	9.23	0.62	0.94	0.80
에 티 오 피 아	114.96	93.51	247.74	41.02	4.89	45.44	42.70	10.48	0.97	37.30	2.44
핀 란 드	5.53	248.84	247.04	18.40	13.59	31.73	24.18	80.90	6.61	4.79	3.88
프 랑 스	68.00	2,408.60	2,687.17	119.89	99.91	218.28	138.00	450.83	35.37	36.35	38.24
가 봉	2.23	15.17	30.20	14.71	-9.96	4.89	4.13	2.43	0.20	1.26	0.06
조 지 아	3.71	16.56	49.83	1.04	3.98	4.94	4.49	11.73	0.99	1.41	1.34

1. TPES: Total Primary Energy Supply. 세계 일차에너지는 국제빙커링과 전력열 교역량을 포함

2. TFEC: Total Final Energy Consumption

3. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제빙커링 배출 포함

자료: OECD iLibrary

1-2. Energy Indicators by Country(2020)(Continued)

CO ₂ 배출량 ³ CO ₂ Emiss. ³	1인당 에너지 소비 Energy Consumption per Capita		전력소비/ 최종에너지소비 Elec.Cons./TFEC	TPES/GDP	TPES/GDP (PPP)	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP (PPP)	
	일차에너지 TPES	전력소비 Electricity								
Mt of CO ₂	toe/capita	kWh/capita	%	toe/2015 USD		tCO ₂ /toe	tCO ₂ /capita	kgCO ₂ /2015 USD		
33.07	2.52	5,013.43	24.92	0.32	0.12	1.89	4.77	0.60	0.23	Bulgaria
13.31	0.51	687.43	13.38	0.37	0.13	1.56	0.80	0.58	0.20	Cambodia
6.84	0.38	266.93	7.30	0.27	0.11	0.68	0.26	0.18	0.07	Cameroon
508.08	7.46	14,758.92	23.66	0.18	0.17	1.79	13.36	0.32	0.31	Canada
83.86	1.95	4,151.44	23.75	0.15	0.09	2.21	4.31	0.34	0.20	Chile
10,081.34	2.48	5,262.48	26.91	0.24	0.15	2.88	7.15	0.69	0.43	People's Rep. of China
73.18	0.81	1,506.06	19.79	0.13	0.06	1.83	1.48	0.24	0.11	Colombia
3.54	0.59	384.59	6.66	0.37	0.20	1.08	0.64	0.40	0.21	Congo
6.59	0.94	1,995.32	24.34	0.08	0.05	1.38	1.29	0.11	0.07	Costa Rica
10.81	0.42	316.10	9.08	0.18	0.08	0.97	0.41	0.18	0.08	Côte d'Ivoire
14.41	2.04	4,027.58	18.84	0.16	0.08	1.75	3.56	0.27	0.14	Croatia
23.85	0.87	1,503.47	21.65	0.12	0.04	2.42	2.11	0.29	0.09	Cuba
2.01	4.63	4,820.10	9.32	0.30	0.24	2.81	13.00	0.85	0.68	Curacao
5.89	2.44	5,261.91	24.89	0.09	0.07	2.76	6.72	0.25	0.18	Cyprus
86.94	3.76	6,284.79	18.97	0.20	0.10	2.16	8.13	0.43	0.23	Czech Republic
50.27	0.58	496.79	7.14	0.52	0.14	3.36	1.95	1.76	0.49	DPR of Korea
2.33	0.35	110.58	3.81	0.69	0.38	0.07	0.03	0.05	0.03	Dem. Rep. of the Congo
25.92	2.61	5,927.10	20.61	0.05	0.05	1.70	4.45	0.08	0.09	Denmark
20.90	0.77	1,334.05	21.32	0.10	0.05	2.50	1.93	0.25	0.12	Dominican Republic
30.59	0.77	1,460.89	19.67	0.14	0.08	2.25	1.73	0.33	0.18	Ecuador
188.37	0.86	1,543.70	23.26	0.22	0.07	2.15	1.84	0.47	0.14	Egypt
5.99	0.64	951.12	21.00	0.18	0.09	1.43	0.92	0.25	0.12	El Salvador
0.60	0.26	92.41	4.16	0.41	0.16	0.64	0.17	0.26	0.10	Eritrea
7.08	3.36	6,941.21	21.22	0.17	0.10	1.58	5.33	0.27	0.16	Estonia
14.34	0.40	91.13	2.26	0.49	0.18	0.32	0.12	0.15	0.06	Ethiopia
35.76	5.74	14,627.37	27.35	0.13	0.13	1.13	6.47	0.14	0.14	Finland
260.94	3.21	6,629.46	25.63	0.09	0.08	1.20	3.84	0.11	0.10	France
2.52	2.20	1,091.05	4.74	0.32	0.16	0.52	1.13	0.17	0.08	Gabon
9.31	1.33	3,157.89	22.00	0.30	0.10	1.88	2.51	0.56	0.19	Georgia

1. TPES: Total Primary Energy Supply. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade

2. TFEC: Total Final Energy Consumption

 3. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines
 CO₂ emissions for world include emissions from international aviation and international marine bunkers

Source: OECD iLibrary

1-2. 세계 에너지·경제통계(2020년)(계속)

		인 구	국내총생산		에너지 생산 Energy prod.	에너지 순수입 Net imports	일차에너지 공급 TPES ¹	최종소비 ² TFC ²	전력소비		가정에너지 소비 Residen. energy con.	수송에너지 소비 Transport. energy con.
		Population	GDP						Electricity consumption			
			(PPP)									
		Millions	Bil. USD(2015)		Mil.toe				TWh	Mil.toe	Mtoe	
독 일		83.09	3,586.24	4,153.93	104.39	207.48	294.33	221.68	548.92	42.95	56.56	56.81
가 나		30.42	61.47	180.40	16.76	-5.27	11.19	8.29	13.50	1.20	3.34	2.84
지 브 롤 터		0.03	1.52	1.31	-	4.43	0.27	0.23	0.21	0.02	-	0.19
그 리 스		10.72	203.71	301.45	6.02	19.31	22.07	15.98	54.88	4.32	4.04	6.05
과 테 말 라		16.60	70.51	144.64	9.57	6.23	14.55	12.09	11.16	0.92	7.49	3.12
아 이 티		11.26	9.00	18.82	3.52	1.04	4.53	3.46	0.42	0.04	2.60	0.49
온 두 라 스		9.75	24.33	50.97	2.73	3.14	5.74	4.19	7.62	0.62	1.67	1.41
홍 콩		7.51	333.46	443.30	0.14	30.79	14.09	8.14	47.58	3.86	1.35	2.72
형 가 리		9.77	146.98	309.74	11.01	18.61	26.66	20.14	43.45	3.47	5.67	5.05
아 이 슬 란 드		0.36	20.84	19.36	5.33	1.02	6.01	3.06	18.96	1.57	0.45	0.36
인 도		1,366.42	2,716.81	9,246.96	580.16	365.50	937.94	629.81	1,349.29	112.74	160.08	105.03
인 도 네 시 아		270.63	1,049.34	3,227.42	470.41	-230.44	241.04	160.54	271.73	22.32	31.80	54.31
이 란		82.91	408.99	1,133.20	351.52	-76.42	272.87	200.98	284.83	22.47	54.36	47.81
이 라 크		39.31	207.00	431.10	249.06	-193.27	55.24	23.25	51.49	3.82	5.57	11.56
아 일 랜 드		4.93	371.86	413.93	4.08	10.25	13.64	11.39	29.31	2.44	2.82	4.06
이 스 라 엘		9.05	345.52	342.25	8.04	15.57	21.69	15.82	63.57	5.17	2.25	6.06
이 탈 리 아		60.34	1,914.72	2,336.20	34.41	122.49	148.97	117.72	314.18	25.10	31.04	35.86
자 메 이 카		2.95	14.91	26.72	0.21	3.38	3.06	2.14	3.28	0.28	0.26	0.87
일 본		126.14	4,592.15	5,372.14	49.83	377.09	415.31	279.11	1,000.88	79.76	41.87	69.33
요 르 단		10.10	41.20	93.65	0.63	9.05	9.23	6.47	18.39	1.61	1.49	3.07
카 자 흐 스 탄		18.51	211.11	466.45	166.94	-93.33	73.08	41.62	96.71	6.19	15.17	5.90
케냐		52.57	79.57	200.10	22.58	7.09	28.88	18.72	8.27	0.79	12.52	3.18
한 국		51.71	1,634.87	2,156.26	48.36	246.79	280.19	181.93	562.49	45.04	20.59	36.65
코 소 보		1.79	7.56	20.09	1.85	0.81	2.67	1.57	5.23	0.41	0.59	0.43
쿠 웨 이 트		4.21	114.23	180.63	162.08	-124.81	37.09	18.40	68.38	5.19	2.65	5.40
키 르 기 스 스 탄		6.46	7.91	29.75	2.39	1.56	4.02	3.50	12.60	1.06	2.30	0.39
라 트 비 아		1.91	30.57	55.38	2.83	2.17	4.49	4.02	7.13	0.57	1.19	1.11
레 바논		6.86	47.32	93.28	0.27	8.65	8.63	5.27	19.44	1.67	1.03	2.86
리 비 아		6.78	40.47	114.02	77.03	-54.82	21.87	10.94	27.38	1.54	1.45	5.75
리 투 아 니 아		2.79	48.04	97.11	1.98	6.02	7.61	6.62	12.43	0.91	1.42	2.14
룩셈부르크		0.62	64.87	66.34	0.23	4.33	3.95	3.84	7.63	0.55	0.46	2.17

1. TPES: Total Primary Energy Supply. 세계 일차에너지는 국제에너지기구 전력열 교역량을 포함

2. TFC: Total Final Energy Consumption

3. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제에너지기구 배출 포함

자료: OECD iLibrary

1-2. Energy Indicators by Country(2020)(Continued)

CO ₂ 배출량 ³ CO ₂ Emiss. ³	1인당 에너지 소비 Energy Consumption per Capita		전력소비/ 최종에너지소비 Elec.Cons./TFEC	TPES/GDP	TPES/GDP (PPP)	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP (PPP)	
	일차에너지 TPES	전력소비 Electricity								
Mt of CO ₂	toe/capita	kWh/capita	%	toe/2015 USD		tCO ₂ /toe	tCO ₂ /capita	kgCO ₂ /2015 USD		
644.11	3.54	6,606.10	19.37	0.08	0.07	2.19	7.75	0.18	0.16	Germany
18.15	0.37	443.90	14.46	0.18	0.06	1.62	0.60	0.30	0.10	Ghana
0.72	8.84	6,266.40	7.80	0.17	0.20	2.70	23.89	0.47	0.55	Gibraltar
56.64	2.06	5,118.20	27.01	0.11	0.07	2.57	5.28	0.28	0.19	Greece
17.84	0.88	672.40	7.58	0.21	0.10	1.23	1.07	0.25	0.12	Guatemala
3.24	0.40	37.40	1.08	0.50	0.24	0.71	0.29	0.36	0.17	Haiti
9.45	0.59	782.00	14.88	0.24	0.11	1.65	0.97	0.39	0.19	Honduras
42.63	1.88	6,337.70	47.36	0.04	0.03	3.03	5.68	0.13	0.10	Hong Kong(China)
45.36	2.73	4,446.40	17.21	0.18	0.09	1.70	4.64	0.31	0.15	Hungary
1.64	16.70	52,514.00	51.22	0.29	0.31	0.27	4.55	0.08	0.08	Iceland
2,309.98	0.69	987.50	17.90	0.35	0.10	2.46	1.69	0.85	0.25	India
583.41	0.89	1,004.10	13.90	0.23	0.07	2.42	2.16	0.56	0.18	Indonesia
583.52	3.29	3,435.20	11.18	0.67	0.24	2.14	7.04	1.43	0.51	Islamic Rep. of Iran
138.18	1.41	1,310.00	16.43	0.27	0.13	2.50	3.52	0.67	0.32	Iraq
33.86	2.77	5,949.20	21.46	0.04	0.03	2.48	6.87	0.09	0.08	Ireland
60.87	2.40	7,024.30	32.65	0.06	0.06	2.81	6.73	0.18	0.18	Israel
309.32	2.47	5,206.90	21.32	0.08	0.06	2.08	5.13	0.16	0.13	Italy
8.06	1.04	1,114.30	13.01	0.21	0.11	2.63	2.73	0.54	0.30	Jamaica
1,056.19	3.29	7,934.70	28.58	0.09	0.08	2.54	8.37	0.23	0.20	Japan
22.84	0.91	1,820.00	24.92	0.22	0.10	2.47	2.26	0.55	0.24	Jordan
205.04	3.95	5,223.40	14.87	0.35	0.16	2.81	11.08	0.97	0.44	Kazakhstan
20.10	0.55	157.20	4.20	0.36	0.14	0.70	0.38	0.25	0.10	Kenya
585.71	5.42	10,878.00	24.76	0.17	0.13	2.09	11.33	0.36	0.27	South Korea
8.61	1.49	2,914.60	25.81	0.35	0.13	3.23	4.81	1.14	0.43	Kosovo
89.44	8.81	16,254.00	28.18	0.32	0.21	2.41	21.25	0.78	0.50	Kuwait
9.29	0.62	1,951.30	30.36	0.51	0.14	2.31	1.44	1.17	0.31	Kyrgyzstan
7.01	2.35	3,726.60	14.23	0.15	0.08	1.56	3.67	0.23	0.13	Latvia
25.51	1.26	2,835.30	31.72	0.18	0.09	2.95	3.72	0.54	0.27	Lebanon
45.89	3.23	4,040.60	14.04	0.54	0.19	2.10	6.77	1.13	0.40	Libya
11.15	2.73	4,448.50	13.69	0.16	0.08	1.47	4.00	0.23	0.11	Lithuania
9.09	6.37	12,268.60	14.32	0.06	0.06	2.30	14.67	0.14	0.14	Luxembourg

1. TPES: Total Primary Energy Supply. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade

2. TFEC: Total Final Energy Consumption

 3. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines

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

Source: OECD iLibrary

1-2. 세계 에너지·경제통계(2020년)(계속)

	인 구	국내총생산		에너지 생산 Energy prod.	에너지 순수입 Net imports	일차에너지 공급 TPES ¹	최종소비 ² TFC ²	전력소비 Electricity consumption		가정에너지 소비 Residen. energy con.	수송에너지 소비 Transport. energy con.
	Population	GDP									
		(PPP)									
	Millions	Bil. USD(2015)		Mil.toe				TWh	Mil.toe	Mtoe	
말 레 이 시 아	32.37	344.10	857.06	91.77	1.47	92.21	60.55	168.32	13.06	3.38	20.76
몰 타	0.53	13.10	19.68	0.03	2.88	0.69	0.49	2.43	0.20	0.10	0.20
모 리 셔 스	1.27	11.47	23.81	0.18	1.67	1.30	0.77	2.74	0.23	0.14	0.34
멕시코	126.95	1,148.54	2,189.79	148.06	32.78	176.91	96.38	281.57	22.26	16.29	36.24
몰 도 바	2.62	8.40	28.44	0.70	3.24	3.90	2.92	5.79	0.44	1.29	0.67
몽 골	3.28	13.53	37.17	24.16	-13.26	6.09	4.21	7.27	0.59	1.00	0.93
몬 테 네 그 로	0.62	4.05	10.14	0.73	0.28	1.02	0.73	2.97	0.24	0.24	0.22
모 로 코	36.91	105.72	258.33	2.13	19.11	21.04	15.62	33.52	2.83	4.29	5.43
모 잠 비 크	31.26	17.96	39.32	17.81	-6.75	10.83	8.18	12.24	1.06	5.40	1.08
미 안 마	54.41	78.26	285.26	27.53	-4.80	22.67	20.06	15.07	1.74	11.18	2.06
나 미 비 아	2.54	10.29	22.34	0.68	1.22	1.89	1.67	3.84	0.32	0.17	0.62
네 팔	29.14	29.11	99.57	10.83	4.24	15.01	14.77	7.48	0.64	10.76	1.74
네 델 란 드	17.44	807.97	899.19	27.24	56.84	69.33	55.13	116.15	9.38	9.17	9.30
뉴 질 랜드	5.10	196.75	191.31	14.73	5.82	19.67	13.45	41.59	3.33	1.58	4.62
니 카 라 과	6.63	12.74	32.89	2.25	1.61	3.86	2.60	3.82	0.31	1.16	0.72
니 제 르	24.21	12.65	29.92	3.65	-0.12	3.51	3.34	1.41	0.12	2.77	0.38
나 이 지 리 아	206.14	501.81	997.28	237.79	-76.94	158.75	136.39	27.57	2.39	106.61	17.33
노 르 웨 이	5.38	403.55	327.73	208.48	-179.66	27.46	20.53	124.87	9.74	3.91	4.48
오 만	5.11	70.55	137.00	80.22	-52.75	25.78	22.06	34.43	2.84	1.58	3.40
파 키 스 탄	220.89	356.07	1,162.86	72.66	34.85	107.84	88.44	110.36	9.26	45.26	15.20
파 나 마	4.32	52.52	97.62	1.02	7.46	3.98	2.94	9.28	0.77	0.62	1.23
파 라 과 이	7.13	40.34	85.60	7.00	0.06	6.99	6.29	14.14	1.18	1.76	2.43
페 루	32.97	192.67	357.96	22.61	-0.59	21.90	17.74	46.40	3.92	4.20	7.04
필 리 핀	109.58	358.29	858.02	31.22	27.48	58.04	32.36	92.01	7.16	10.03	9.87
폴 란 드	38.35	555.48	1,186.56	57.86	43.79	101.75	75.79	161.32	11.81	20.82	21.75
포 르 투 갈	10.30	203.56	313.67	6.08	14.40	20.14	15.58	50.03	3.98	2.76	4.98
카 타 르	2.88	161.42	238.07	221.10	-174.92	42.10	21.75	46.49	3.71	1.89	3.91
루 마 니 아	19.29	209.24	504.29	22.39	9.07	32.15	24.52	52.53	3.79	7.98	6.47
러 시 아	144.10	1,422.08	3,677.73	1,429.92	-666.66	757.83	506.05	985.43	64.46	137.57	90.42
사우디아라비아	34.81	651.03	1,534.48	608.51	-376.36	229.87	152.20	358.97	26.03	13.36	40.89
세 네 갈	16.74	22.86	55.71	2.05	2.92	4.66	2.98	5.40	0.39	1.31	0.94

1. TPES: Total Primary Energy Supply. 세계 일차에너지는 국제병커링과 전력열 교역량을 포함

2. TFEC: Total Final Energy Consumption

3. 연소에 의한 CO₂ 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제병커링 배출 포함

자료: OECD iLibrary

1-2. Energy Indicators by Country(2020)(Continued)

CO ₂ 배출량 ³ CO ₂ Emiss. ³	1인당 에너지 소비 Energy Consumption per Capita		전력소비/ 최종에너지소비 Elec.Cons./TFEC	TPES/GDP	TPES/GDP (PPP)	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP (PPP)	
	일차에너지 TPES	전력소비 Electricity								
Mt of CO ₂	toe/capita	kWh/capita	%	toe/2015 USD		tCO ₂ /toe	tCO ₂ /capita	kgCO ₂ /2015 USD		
229.11	2.85	5,200.41	21.58	0.27	0.11	2.48	7.08	0.67	0.27	Malaysia
1.61	1.31	4,629.27	41.07	0.05	0.04	2.34	3.07	0.12	0.08	Malta
3.72	1.03	2,164.28	29.93	0.11	0.05	2.86	2.94	0.32	0.16	Mauritius
350.87	1.39	2,218.01	23.09	0.15	0.08	1.98	2.76	0.31	0.16	Mexico
8.03	1.49	2,211.07	15.14	0.46	0.14	2.06	3.07	0.96	0.28	Republic of Moldova
20.66	1.86	2,217.38	13.91	0.45	0.16	3.39	6.30	1.53	0.56	Mongolia
2.53	1.64	4,787.60	33.45	0.25	0.10	2.48	4.07	0.62	0.25	Montenegro
62.23	0.57	908.09	18.12	0.20	0.08	2.96	1.69	0.59	0.24	Morocco
5.85	0.35	391.76	12.98	0.60	0.28	0.54	0.19	0.33	0.15	Mozambique
30.69	0.42	277.01	8.70	0.29	0.08	1.35	0.56	0.39	0.11	Myanmar
3.48	0.75	1,511.69	19.39	0.18	0.08	1.84	1.37	0.34	0.16	Namibia
12.09	0.52	256.69	4.33	0.52	0.15	0.81	0.41	0.42	0.12	Nepal
130.31	3.98	6,659.26	17.01	0.09	0.08	1.88	7.47	0.16	0.14	Netherlands
30.79	3.86	8,159.11	24.79	0.10	0.10	1.57	6.04	0.16	0.16	New Zealand
4.38	0.58	575.93	12.06	0.30	0.12	1.14	0.66	0.34	0.13	Nicaragua
2.11	0.15	58.36	3.48	0.28	0.12	0.60	0.09	0.17	0.07	Niger
88.12	0.77	133.72	1.75	0.32	0.16	0.56	0.43	0.18	0.09	Nigeria
35.10	5.11	23,215.07	47.46	0.07	0.08	1.28	6.52	0.09	0.11	Norway
64.13	5.05	6,741.80	12.86	0.37	0.19	2.49	12.56	0.91	0.47	Oman
166.03	0.49	499.60	10.47	0.30	0.09	1.54	0.75	0.47	0.14	Pakistan
9.29	0.92	2,149.50	26.11	0.08	0.04	2.34	2.15	0.18	0.10	Panama
7.31	0.98	1,982.43	18.75	0.17	0.08	1.05	1.02	0.18	0.09	Paraguay
42.44	0.66	1,407.39	22.11	0.11	0.06	1.94	1.29	0.22	0.12	Peru
124.46	0.53	839.69	22.12	0.16	0.07	2.14	1.14	0.35	0.15	Philippines
271.47	2.65	4,205.94	15.58	0.18	0.09	2.67	7.08	0.49	0.23	Poland
36.66	1.96	4,859.02	25.53	0.10	0.06	1.82	3.56	0.18	0.12	Portugal
84.13	14.61	16,134.91	17.03	0.26	0.18	2.00	29.20	0.52	0.35	Qatar
64.73	1.67	2,723.49	15.44	0.15	0.06	2.01	3.36	0.31	0.13	Romania
1,551.65	5.26	6,838.33	12.74	0.53	0.21	2.05	10.77	1.09	0.42	Russia
483.63	6.60	10,311.12	17.11	0.35	0.15	2.10	13.89	0.74	0.32	Saudi Arabia
7.97	0.28	322.34	13.25	0.20	0.08	1.71	0.48	0.35	0.14	Senegal

1. TPES: Total Primary Energy Supply. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade

2. TFEC: Total Final Energy Consumption

 3. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines

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

Source: OECD iLibrary

1-2. 세계 에너지·경제통계(2020년)(계속)

	인 구	국내총생산		에너지 생산	에너지 순수입	일차에너지 공급	최종소비 ²	전력소비		가정에너지 소비	수송에너지 소비
	Population	GDP		Energy prod.	Net imports	TPES ¹	TFC ²	Electricity consumption		Residen. energy con.	Transport. energy con.
	Millions	Bil. USD(2015)		Mil.toe				TWh	Mil.toe	Mtoe	
세 르 비 아	6.91	45.19	120.72	10.97	4.75	15.81	9.38	32.97	2.40	3.49	2.19
싱 가 포 르	5.69	335.36	523.93	0.60	82.91	32.11	17.68	52.90	4.36	0.80	2.29
슬 로 바 키 아	5.46	94.75	173.96	6.89	9.26	16.55	10.86	27.57	2.05	2.71	2.51
슬 로 베 니 아	2.10	48.14	72.93	3.62	2.96	6.43	4.53	14.34	1.11	1.03	1.58
남 아 프 리 카	59.31	335.42	734.70	150.84	-23.38	124.65	59.65	209.81	16.26	10.26	15.15
남 수 단	11.19	11.05	12.19	8.62	-7.79	0.77	0.57	0.54	0.04	0.21	0.29
스 페 인	47.35	1,181.00	1,600.92	34.48	80.16	109.10	77.00	241.02	18.89	14.34	25.93
스 리 랑 카	21.92	88.83	267.10	4.58	6.92	11.33	9.16	14.08	1.24	2.78	2.95
수 단	43.85	81.40	165.25	17.54	2.18	19.58	12.96	13.34	1.18	6.01	3.43
수 리 남	0.59	4.42	8.29	0.94	0.13	1.05	0.68	1.80	0.15	0.10	0.27
스 웨 덴	10.35	533.98	508.49	34.62	16.18	44.84	31.77	130.20	10.58	7.20	6.63
스 위 스	8.64	739.64	576.34	12.47	11.62	23.21	17.20	61.81	4.79	4.92	5.22
시 리 아	17.50	18.71	23.07	4.55	4.47	8.74	5.21	12.62	1.01	1.13	1.73
대 만	23.82	617.74	1,273.61	11.32	100.63	107.26	70.51	270.64	21.67	6.23	12.16
타 지 키 스 탄	9.54	10.85	34.93	2.52	1.17	3.66	3.09	16.06	1.32	0.94	0.56
탄 자 니 아	59.73	64.83	160.60	21.04	2.95	23.91	20.81	6.96	0.58	14.54	2.20
태 국	69.80	431.86	1,170.02	66.03	69.93	133.11	96.67	193.35	16.10	8.87	26.69
토 고	8.28	7.00	17.14	3.01	0.65	3.62	2.27	1.42	0.12	1.55	0.37
트리니다드토바고	1.40	21.09	31.72	29.26	-14.43	14.66	10.74	8.80	0.73	0.38	0.77
튀 니 지	11.82	44.66	118.08	4.98	5.94	10.74	7.79	17.31	1.41	2.24	2.37
터 키	83.39	1,014.22	2,376.66	44.26	104.81	146.93	107.57	276.74	22.25	23.03	26.38
투르크메니스탄	6.03	43.21	91.93	77.65	-52.18	25.30	16.04	16.44	1.07	0.39	4.43
우 크 라 이 나	44.14	98.05	469.08	57.02	29.41	86.36	47.77	130.54	9.76	13.60	8.01
아랍에미레이트	9.89	371.14	622.95	224.39	-121.52	82.28	57.70	130.25	10.65	3.77	10.38
영 국	67.08	2,895.83	2,738.90	117.03	43.32	153.92	114.05	302.85	24.12	36.22	33.07
미 국	330.15	19,247.21	19,247.21	2,160.05	-81.02	2,037.92	1,461.22	4,109.39	324.83	263.91	548.86
우 루 과 이	3.47	56.62	73.31	3.09	2.33	5.21	4.71	11.83	0.98	0.84	1.24
우즈베키스탄	34.23	108.16	262.37	45.25	0.33	45.26	33.07	59.05	4.47	12.85	6.03
베 네 수 엘 라	28.44	183.57	185.02	51.30	-26.69	24.48	16.91	50.51	4.30	2.28	7.97
베 트 남	97.34	322.78	944.72	55.81	45.14	97.23	66.58	225.95	18.75	10.28	12.27
예 멘	29.83	34.08	55.16	3.97	-0.99	2.89	2.41	2.35	0.19	0.91	0.92
잠 비 아	18.38	23.41	60.04	9.59	1.27	10.93	8.37	11.85	0.99	5.35	0.82
짐 바 브 웨	14.86	19.61	36.38	9.01	1.00	10.39	9.53	7.25	0.63	7.35	0.73

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자료: OECD iLibrary

1-2. Energy Indicators by Country(2020)(Continued)

CO ₂ 배출량 ³ CO ₂ Emiss. ³	1인당 에너지 소비 Energy Consumption per Capita		전력소비/ 최종에너지소비 Elec.Cons./TFEC	TPES/GDP	TPES/GDP (PPP)	CO ₂ /TPES	CO ₂ /Pop.	CO ₂ /GDP	CO ₂ /GDP (PPP)	
	일차에너지 TPES	전력소비 Electricity								
Mt of CO ₂	toe/capita	kWh/capita	%	toe/2015 USD		tCO ₂ /toe	tCO ₂ /capita	kgCO ₂ /2015 USD		
45.34	2.29	4,772.22	25.55	0.35	0.13	2.87	6.56	1.00	0.38	Serbia
43.71	5.65	9,302.92	24.69	0.10	0.06	1.36	7.69	0.13	0.08	Singapore
27.59	3.03	5,048.16	18.85	0.17	0.10	1.67	5.05	0.29	0.16	Slovak Republic
12.00	3.06	6,818.28	24.56	0.13	0.09	1.87	5.71	0.25	0.16	Slovenia
388.11	2.10	3,537.58	27.27	0.37	0.17	3.11	6.54	1.16	0.53	South Africa
1.74	0.07	47.87	7.64	0.07	0.06	2.28	0.16	0.16	0.14	South Sudan
194.51	2.30	5,089.78	24.53	0.09	0.07	1.78	4.11	0.16	0.12	Spain
20.84	0.52	642.49	13.56	0.13	0.04	1.84	0.95	0.23	0.08	Sri Lanka
18.68	0.45	304.24	9.14	0.24	0.12	0.95	0.43	0.23	0.11	Sudan
2.58	1.78	3,057.34	22.89	0.24	0.13	2.47	4.40	0.58	0.31	Suriname
32.30	4.33	12,576.26	33.32	0.08	0.09	0.72	3.12	0.06	0.06	Sweden
33.24	2.69	7,155.12	27.86	0.03	0.04	1.43	3.85	0.04	0.06	Switzerland
22.36	0.50	720.86	19.35	0.47	0.38	2.56	1.28	1.20	0.97	Syrian Arab Republic
255.00	4.50	11,363.45	30.73	0.17	0.08	2.38	10.71	0.41	0.20	Chinese Taipei
7.25	0.38	1,683.74	42.75	0.34	0.10	1.98	0.76	0.67	0.21	Tajikistan
11.92	0.40	116.48	2.78	0.37	0.15	0.50	0.20	0.18	0.07	United Rep. of Tanzania
242.97	1.91	2,770.00	16.66	0.31	0.11	1.83	3.48	0.56	0.21	Thailand
1.55	0.44	171.36	5.22	0.52	0.21	0.43	0.19	0.22	0.09	Togo
14.84	10.48	6,291.81	6.78	0.70	0.46	1.01	10.61	0.70	0.47	Trinidad and Tobago
25.18	0.91	1,464.47	18.16	0.24	0.09	2.34	2.13	0.56	0.21	Tunisia
366.60	1.76	3,318.84	20.68	0.14	0.06	2.50	4.40	0.36	0.15	Turkey
60.18	4.20	2,726.08	6.69	0.59	0.28	2.38	9.98	1.39	0.65	Turkmenistan
161.39	1.96	2,957.80	20.43	0.88	0.18	1.87	3.66	1.65	0.34	Ukraine
180.80	8.32	13,170.07	18.46	0.22	0.13	2.20	18.28	0.49	0.29	U.A.E
302.61	2.30	4,514.63	21.15	0.05	0.06	1.97	4.51	0.10	0.11	United Kingdom
4,257.74	6.17	12,446.96	22.23	0.11	0.11	2.09	12.90	0.22	0.22	United States
6.19	1.50	3,405.59	20.70	0.09	0.07	1.19	1.78	0.11	0.08	Uruguay
109.60	1.32	1,724.88	13.51	0.42	0.17	2.42	3.20	1.01	0.42	Uzbekistan
54.38	0.86	1,776.34	25.40	0.13	0.13	2.22	1.91	0.30	0.29	Venezuela
293.92	1.00	2,321.23	28.16	0.30	0.10	3.02	3.02	0.91	0.31	Viet Nam
8.58	0.10	78.77	7.86	0.08	0.05	2.97	0.29	0.25	0.16	Yemen
6.68	0.60	644.59	11.82	0.47	0.18	0.61	0.36	0.29	0.11	Zambia
7.82	0.70	487.74	6.62	0.53	0.29	0.75	0.53	0.40	0.21	Zimbabwe

1. TPES: Total Primary Energy Supply. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade

2. TFEC: Total Final Energy Consumption

 3. CO₂ emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines
 CO₂ emissions for world include emissions from international aviation and international marine bunkers

Source: OECD iLibrary

1-3. 국가별 에너지 수입(2021년)

Energy Imports by Country(2021)

	석탄 Coal	석유제품 Petroleum	천연가스 Natural gas	전력 Electricity	합계 Total	
	Mtoe					
O E C D 계	303.72	627.35	709.17	45.10	2943.84	OECD Total
호 주	0.30	30.49	4.46	-	46.68	Australia
오 스 트 리 아	2.55	5.70	3.94	2.27	23.13	Austria
벨 기 에	2.61	26.49	17.71	1.31	81.18	Belgium
캐 나 다	4.72	9.83	20.34	1.12	72.63	Canada
칠 레	6.89	8.68	3.79	-	27.90	Chile
콜 럼 비 아	0.0	5.75	0.22	0.02	6.30	Colombia
코 스 타 리 카	0.01	2.78	-	0.0	2.80	Costa Rica
체 코	3.51	4.40	7.18	1.30	23.82	Czech Republic
덴 마 크	0.45	4.66	2.07	1.73	16.94	Denmark
에 스 토 니 아	0.0	2.01	0.40	0.63	3.15	Estonia
핀 란 드	1.63	5.16	2.11	2.11	20.24	Finland
프 랑 스	5.75	46.52	39.35	2.09	130.58	France
독 일	27.52	37.47	69.99	4.45	225.19	Germany
그 리 스	0.16	4.63	5.43	0.65	38.38	Greece
헝 가 리	0.87	3.69	6.25	1.72	18.98	Hungary
아 이 슬 랜 드	0.10	0.67	-	-	0.79	Iceland
아 일 랜 드	0.94	5.11	3.11	0.21	12.57	Ireland
이 스 라 엘	3.88	1.38	0.11	-	19.13	Israel
이 탈 리 아	5.56	12.29	59.78	4.0	143.93	Italy
일 본	105.24	44.42	86.92	-	368.20	Japan
한 국	73.97	46.18	54.58	-	307.25	South Korea
라 트 비 아	0.02	1.94	0.96	0.40	3.90	Latvia
리 투 아 니 아	0.15	1.02	2.0	1.07	12.81	Lithuania
룩 섴 부 르 크	0.04	2.47	0.67	0.58	3.92	Luxembourg
멕 시 코	3.53	47.51	55.83	0.73	108.11	Mexico
네 델 란 드	5.64	82.94	41.20	1.80	193.07	Netherlands
뉴 질 랜 드	1.02	3.09	-	-	7.64	New Zealand
노 르 웨 이	0.81	6.18	0.14	0.71	10.76	Norway
폴 란 드	7.78	9.74	15.33	1.30	59.82	Poland
포 르 투 갈	0.01	3.58	4.96	0.82	20.63	Portugal
슬 로 바 키 아	2.51	1.80	4.27	1.19	15.37	Slovak Republic
슬 로 베 니 아	0.11	3.78	0.77	0.72	5.48	Slovenia
스 페 인	3.70	15.33	32.16	1.50	115.78	Spain
스 웨 덴	1.58	5.91	1.20	0.72	30.57	Sweden
스 위 스	0.0887408	6.1948075	3.0990393	2.711264	14.6935318	Switzerland
터 키	23.40	18.49	48.33	0.20	122.94	Republic of Turkiye
영 국	3.82	25.03	43.16	2.47	122.63	United Kingdom
미 국	2.83	84.03	67.32	4.57	505.93	United States

자료: OECD iLibrary

1-4. 국가별 에너지 수출(2021년)

Energy Exports by Country(2021)

	석탄 Coal	석유제품 Petroleum	천연가스 Natural gas	전력 Electricity	합계 Total	
	Mtoe					
O E C D 계	357.0	665.74	468.40	44.79	2168.40	OECD Total
호 주	234.92	3.56	91.16	-	343.10	Australia
오 스 트 리 아	0.04	2.92	-	1.62	5.41	Austria
벨 기 에	0.20	26.62	2.53	1.98	35.49	Belgium
캐 나 다	19.07	23.09	66.90	5.19	320.89	Canada
칠 레	0.06	0.76	-	-	0.83	Chile
콜 럼 비 아	33.91	5.28	-	0.03	71.34	Colombia
코 스 타 리 카	-	-	-	0.09	0.10	Costa Rica
체 코	1.63	2.19	-	2.26	6.63	Czech Republic
덴 마 크	0.30	6.98	1.41	1.31	11.02	Denmark
에 스 토 니 아	0.01	0.65	-	0.40	2.60	Estonia
핀 란 드	0.08	6.56	-	0.58	7.32	Finland
프 랑 스	0.0	13.16	3.77	5.96	23.77	France
독 일	1.69	25.29	-	6.05	36.12	Germany
그 리 스	-	21.11	0.01	0.34	21.60	Greece
헝 가 리	0.34	2.56	-	0.62	4.09	Hungary
아 이 슬 랜 드	-	-	-	-	-	Iceland
아 일 랜 드	-	1.58	-	0.07	1.67	Ireland
이 스 라 엘	-	5.50	4.92	0.56	10.98	Israel
이 탈 리 아	0.18	25.77	1.26	0.32	29.46	Italy
일 본	1.58	13.04	-	-	14.62	Japan
한 국	-	58.63	-	-	58.89	South Korea
라 트 비 아	0.01	0.35	-	0.25	2.10	Latvia
리 투 아 니 아	-	6.14	0.11	0.30	6.89	Lithuania
룩셈부르크	-	0.0	-	0.09	0.11	Luxembourg
멕시코	0.0	9.16	-	0.52	65.85	Mexico
네덜란드	0.03	107.95	31.02	1.77	143.49	Netherlands
뉴질랜드	0.85	0.02	-	-	1.48	New Zealand
노르웨이	0.05	16.97	95.75	2.22	195.51	Norway
폴란드	9.42	3.94	0.09	1.22	15.42	Poland
포르투갈	0.0	5.0	-	0.41	5.91	Portugal
슬로바키아	0.04	3.55	1.13	1.13	6.0	Slovak Republic
슬로베니아	-	1.62	-	0.74	2.37	Slovenia
스페인	0.43	19.20	2.63	1.42	29.14	Spain
스웨덴	0.02	15.14	0.05	2.92	20.21	Sweden
스위스	0.0000061	0.357094	0	2.5037833	2.8630445	Switzerland
터키	0.18	6.91	0.32	0.36	8.35	Republic of Turkiye
영국	0.71	18.55	5.86	0.36	60.90	United Kingdom
미국	51.23	205.65	159.48	1.19	595.89	United States

자료: OECD iLibrary

1-5. OECD 국가별 최종에너지 소비(부문별, 2020년)

단위: 백만 toe

	산업부문 Industry							
	농림어업 Agriculture, Forestry and Fisheries	제조업 Manufacturing	건설업 Construction	광업 Mining and quarrying	기타 Other	소계 Subtotal	국내항공 Domestic Aircraft	육상 Land
O E C D 계	76.95	662.82	33.85	30.35	67.72	871.69	50.91	985.41
호 주	1.98	16.78	0.91	4.99	0.22	24.88	2.37	26.19
오 스 트 리 아	0.51	6.55	0.29	0.30	0.17	7.83	0.03	7.26
벨 기 에	0.80	9.68	0.19	0.05	0.34	11.06	0.00	7.32
캐 나 다	6.60	32.95	2.31	4.23	5.41	51.49	3.41	45.87
칠 레	0.65	2.83	0.21	4.96	2.30	10.95	0.34	7.77
콜 럼 비 아	0.42	6.26	0.08	1.06	0.16	7.98	0.01	9.59
코 스타 리 카	0.07	0.65	0.03	0.00	0.14	0.89	0.01	1.66
체 코	0.64	5.97	0.15	0.08	0.34	7.17	0.04	6.03
덴 마 크	0.68	1.90	0.18	0.06	0.11	2.92	0.02	3.68
에 스토 니 아	0.11	0.33	0.05	0.00	0.02	0.52	0.00	0.77
핀 란 드	0.69	9.54	0.41	0.16	0.23	11.03	0.03	3.65
프 랑 스	4.50	22.86	1.43	0.41	1.11	30.30	1.03	35.99
독 일	3.65	48.92	2.48	0.34	2.46	57.84	0.30	49.17
그 리 스	0.29	2.17	0.11	0.07	0.17	2.81	0.09	4.52
형 가 리	0.70	3.81	0.30	0.04	0.30	5.15	0.00	4.25
아 이 슬 랜 드	0.26	1.27	0.01	0.00	0.01	1.55	0.00	0.29
아 일 랜 드	0.24	1.89	0.09	0.05	0.14	2.40	0.00	3.27
이 스 라 엘	0.32	0.51	0.00	0.19	2.03	3.04	0.01	5.37
이 탈 리 아	2.96	21.54	0.38	0.10	1.93	26.91	0.34	26.98
일 본	4.67	70.38	1.83	0.28	2.66	79.82	1.76	56.02
한 국	2.84	41.86	0.72	0.22	2.81	48.45	0.97	32.60
라 트 비 아	0.21	0.81	0.03	0.01	0.02	1.08	0.00	1.01
리 투 아 니 아	0.11	0.89	0.04	0.01	0.08	1.14	0.00	2.03
룩셈부르크	0.02	0.53	0.02	0.00	0.04	0.61	0.00	1.66
멕시코	2.93	15.39	0.30	1.42	13.64	33.68	0.01	35.33
네덜란드	3.98	12.29	0.66	0.10	0.34	17.36	0.01	8.93
뉴질랜드	0.78	2.78	0.18	0.10	0.78	4.63	0.24	4.26
노르웨이	0.60	5.72	0.41	0.10	0.05	6.88	0.23	3.20
폴란드	3.85	14.53	0.23	0.42	0.81	19.85	0.02	21.05
포르투갈	0.50	4.20	0.15	0.08	0.07	5.00	0.09	4.77
슬로바키아	0.13	2.95	0.03	0.05	0.18	3.34	0.00	2.35
슬로베니아	0.07	1.12	0.04	0.02	0.08	1.33	0.00	1.56
스페인	2.98	16.74	1.01	0.48	0.57	21.77	0.94	23.77
스웨덴	0.60	10.33	0.32	0.55	0.43	12.23	0.06	6.25
스위스	0.10	2.72	0.17	0.00	0.44	3.43	0.05	4.90
터키	4.96	27.89	0.67	0.43	3.90	37.85	0.70	24.91
영국	1.39	14.72	0.70	0.02	4.64	21.47	0.36	31.34
미국	20.15	220.56	16.73	8.99	18.60	285.03	37.44	469.84

자료: OECD iLibrary

1-5. Final Energy Consumption by OECD Countries(by Sector, 2020)

Unit: Million toe

수송부문 Transport				가정부문	상업·공공부문	기타	합계	
철도 Rail	국내수상 Domestic Shipping	기타 Other	소계 Subtotal	Residential	Commercial and public services	Other	Total	
23.34	18.07	31.13	1,108.86	702.18	461.95	390.90	3,535.57	OECD Total
1.40	0.71	0.88	31.56	10.87	7.95	5.39	80.65	Australia
0.19	0.03	0.31	7.82	6.51	2.36	1.99	26.50	Austria
0.15	0.18	0.03	7.67	7.79	4.44	7.05	38.01	Belgium
2.09	1.19	3.92	56.48	33.26	27.45	21.36	190.04	Canada
0.08	0.33	0.00	8.53	4.81	1.62	1.08	26.98	Chile
0.01	0.02	0.18	9.80	6.08	1.67	3.00	28.54	Colombia
0.00	0.00	0.00	1.67	0.50	0.35	0.09	3.50	Costa Rica
0.20	0.00	0.04	6.32	6.96	2.96	2.44	25.85	Czech Republic
0.10	0.12	0.01	3.92	4.10	1.82	0.26	13.03	Denmark
0.01	0.01	0.00	0.80	0.94	0.47	0.18	2.91	Estonia
0.08	0.11	0.00	3.88	4.79	2.76	1.73	24.18	Finland
0.70	0.43	0.08	38.24	36.35	19.96	13.15	138.00	France
1.17	0.27	0.45	51.36	56.71	26.66	21.32	213.89	Germany
0.02	0.51	0.00	5.14	4.21	1.60	1.15	14.92	Greece
0.13	0.00	0.05	4.44	5.96	2.00	2.35	19.89	Hungary
0.00	0.01	0.00	0.30	0.48	0.49	0.17	3.00	Iceland
0.04	0.10	0.02	3.43	3.05	1.81	0.24	10.92	Ireland
0.06	0.00	0.00	5.44	2.44	1.53	2.63	15.08	Israel
0.44	0.56	0.65	28.98	30.56	14.18	6.82	107.44	Italy
1.65	3.03	0.00	62.46	44.04	46.50	30.11	262.94	Japan
0.33	0.32	0.00	34.22	20.87	20.51	50.61	174.66	South Korea
0.03	0.00	0.00	1.05	1.12	0.55	0.10	3.90	Latvia
0.06	0.00	0.03	2.12	1.41	0.57	1.15	6.38	Lithuania
0.01	0.00	0.00	1.68	0.49	0.49	0.03	3.30	Luxembourg
0.48	0.42	0.00	36.24	16.29	4.06	6.11	96.38	Mexico
0.15	0.21	0.00	9.30	9.17	6.30	12.99	55.13	Netherlands
0.04	0.09	0.00	4.62	1.58	1.27	1.36	13.45	New Zealand
0.06	0.99	0.00	4.48	3.91	2.76	2.50	20.53	Norway
0.33	0.00	0.35	21.75	20.82	7.47	5.90	75.79	Poland
0.04	0.07	0.00	4.98	2.76	1.69	1.15	15.58	Portugal
0.04	0.00	0.12	2.51	2.71	1.10	1.21	10.86	Slovak Republic
0.02	0.00	0.00	1.58	1.03	0.42	0.18	4.53	Slovenia
0.31	0.80	0.11	25.93	14.34	8.89	6.06	77.00	Spain
0.21	0.11	0.00	6.63	7.20	4.01	1.70	31.77	Sweden
0.25	0.02	0.01	5.22	4.92	3.02	0.60	17.20	Switzerland
0.19	0.40	0.17	26.38	23.03	13.87	6.44	107.57	Republic of Turkiye
0.93	0.44	0.00	33.07	36.22	15.61	7.67	114.05	United Kingdom
11.33	6.57	23.69	548.86	263.91	200.79	162.64	1,461.22	United States

Source: OECD iLibrary

1-6. OECD 국가별 최종에너지 소비(원별, 2020년) Final Energy Consumption by OECD Countries(by Source, 2020)

단위: 백만 toe

Unit: Million toe

	석탄 Coal & peat	석유 Oil products	가스 Gas	신재생 Renewables	전력 Electricity	열 Heat	합계 ¹ Total ¹	
O E C D 계	89.46	1,579.99	755.33	216.30	813.57	58.59	3,535.57	OECD Total
호주	2.85	41.74	13.33	4.01	18.63	0.00	80.65	Australia
오스트리아	0.45	10.18	4.98	3.66	5.26	1.72	26.50	Austria
벨기에	1.03	17.39	10.20	1.96	6.80	0.47	38.01	Belgium
캐나다	2.57	82.13	49.81	9.98	44.97	0.43	190.04	Canada
칠레	0.15	14.50	2.11	3.82	6.41	0.00	26.98	Chile
콜롬비아	2.59	11.98	3.40	4.91	5.65	0.00	28.54	Colombia
코스타리카	0.00	2.25	0.00	0.39	0.85	0.00	3.50	Costa Rica
체코	1.94	8.32	5.25	3.15	4.90	1.98	25.85	Czech Republic
덴마크	0.11	4.94	1.51	1.30	2.69	2.44	13.03	Denmark
에스토니아	0.01	1.02	0.25	0.48	0.62	0.46	2.91	Estonia
핀란드	0.33	6.94	0.71	5.74	6.61	3.64	24.18	Finland
프랑스	1.08	58.84	27.50	11.23	35.37	3.58	138.00	France
독일	5.73	86.32	54.34	15.93	41.26	8.99	213.89	Germany
그리스	0.17	7.80	1.47	1.34	4.09	0.05	14.92	Greece
헝가리	0.20	7.01	6.24	1.90	3.43	0.99	19.89	Hungary
아이슬란드	0.10	0.51	0.00	0.07	1.54	0.79	3.00	Iceland
아일랜드	0.25	5.59	1.95	0.42	2.46	0.00	10.92	Ireland
이스라엘	0.00	8.11	1.27	0.43	5.16	0.00	15.08	Israel
이탈리아	0.72	38.21	32.46	8.18	23.66	3.88	107.44	Italy
일본	18.72	132.51	26.81	4.43	78.02	0.54	262.94	Japan
한국	7.34	92.73	21.11	1.74	44.08	5.38	174.66	South Korea
라트비아	0.02	1.38	0.32	1.00	0.56	0.55	3.90	Latvia
리투아니아	0.13	2.37	1.49	0.75	0.89	0.74	6.38	Lithuania
룩셈부르크	0.04	1.85	0.56	0.17	0.53	0.12	3.30	Luxembourg
멕시코	2.38	53.66	11.22	6.86	22.26	0.00	96.38	Mexico
네덜란드	0.44	21.67	18.38	1.67	9.38	1.92	55.13	Netherlands
뉴질랜드	0.58	6.14	2.60	0.79	3.33	0.00	13.45	New Zealand
노르웨이	0.62	7.41	0.89	1.29	9.74	0.47	20.53	Norway
폴란드	9.45	28.07	11.29	8.74	11.81	5.60	75.79	Poland
포르투갈	0.01	7.35	1.73	2.19	3.98	0.23	15.58	Portugal
슬로바키아	0.70	3.43	2.82	1.10	2.05	0.55	10.86	Slovak Republic
슬로베니아	0.04	2.00	0.59	0.58	1.11	0.17	4.53	Slovenia
스페인	0.64	37.51	14.26	5.52	18.89	0.00	77.00	Spain
스웨덴	0.55	7.83	0.85	7.78	10.58	4.08	31.77	Sweden
스위스	0.09	7.62	2.70	1.20	4.79	0.51	17.20	Switzerland
터키	12.26	39.92	26.66	4.49	22.25	1.09	107.57	Republic of Turkey
영국	1.89	44.85	37.78	3.94	24.12	1.26	114.05	United Kingdom
미국	13.27	667.89	356.48	83.12	324.83	5.97	1,461.22	United States

1. 합계에는 산업쓰레기와 도시폐기물 포함
자료: IEA, World Energy Balance 2021

1. Including industrial waste and municipal waste
Source: IEA, World Energy Balance 2021

1-7. OECD 국가별 신재생에너지 공급현황(2021년) Renewable Energies and Waste Supply by OECD Countries(2021)

단위: 백만 toe

Unit: Million toe

	수력 Hydro	지열 Geothermal	태양광/열 Solar photovoltaic/ Thermal	풍력 Wind	바이오/해양 등 Bio/Tidal etc.	폐기물 Waste	합계 Total	
O E C D 계	125.08	42.74	53.94	83.65	283.64	15.40	604.44	OECD Total
호 주	1.27	0.00	2.85	2.11	4.61	0.00	10.85	Australia
오 스 트 리 아	3.33	0.02	0.42	0.58	5.67	0.20	10.23	Austria
벨 기 에	0.03	0.00	0.51	1.03	2.96	0.39	4.92	Belgium
캐 나 다	32.74	0.00	0.49	3.06	10.30	0.14	46.73	Canada
칠 레	1.42	0.30	0.98	0.62	5.92	0.00	9.25	Chile
콜 럼 비 아	5.20	0.00	0.03	0.01	6.28	0.02	11.53	Colombia
코 스타 리 카	0.80	1.22	0.01	0.14	0.44	0.00	2.60	Costa Rica
체 코	0.21	0.00	0.20	0.05	4.53	0.10	5.09	Czech Republic
덴 마 크	0.00	0.00	0.18	1.38	4.77	0.49	6.82	Denmark
에 스토 니 아	0.00	0.00	0.03	0.06	1.41	0.03	1.54	Estonia
핀 란 드	1.36	0.00	0.03	0.70	10.45	0.34	12.88	Finland
프 랑 스	5.06	0.48	1.50	3.18	15.92	1.26	27.40	France
독 일	1.66	0.40	5.02	9.79	24.97	3.18	45.02	Germany
그 리 스	0.51	0.01	0.74	0.90	1.18	0.00	3.34	Greece
헝 가 리	0.02	0.15	0.35	0.06	2.45	0.08	3.10	Hungary
아 이 슬 랜드	1.19	4.06	0.00	0.00	0.02	0.00	5.28	Iceland
아 일 랜드	0.06	0.00	0.02	0.83	0.51	0.14	1.57	Ireland
이 스 라 엘	0.00	0.00	1.02	0.02	0.05	0.01	1.10	Israel
이 탈 리 아	3.85	5.23	2.40	1.79	13.02	0.84	27.13	Italy
일 본	6.80	2.62	7.80	0.85	9.99	0.39	28.46	Japan
한 국	0.26	0.26	2.07	0.27	2.96	0.35	6.17	South Korea
라 트 비 아	0.23	0.00	0.00	0.01	1.62	0.04	1.90	Latvia
리 투 아 니 아	0.03	0.00	0.02	0.12	1.59	0.05	1.81	Lithuania
룩셈부르크	0.01	0.00	0.02	0.03	0.34	0.01	0.41	Luxembourg
멕시코	2.97	2.39	1.46	1.80	8.74	0.00	17.35	Mexico
네덜란드	0.01	0.15	1.00	1.55	3.91	0.92	7.54	Netherlands
뉴질랜드	2.08	4.78	0.03	0.23	1.00	0.00	8.12	New Zealand
노르웨이	12.38	0.00	0.02	1.01	1.65	0.20	15.25	Norway
폴란드	0.20	0.03	0.42	1.40	10.51	0.14	12.70	Poland
포르투갈	1.02	0.16	0.29	1.14	3.10	0.12	5.84	Portugal
슬로바키아	0.36	0.01	0.07	0.00	1.62	0.03	2.08	Slovak Republic
슬로베니아	0.41	0.01	0.05	0.00	0.66	0.00	1.13	Slovenia
스페인	2.55	0.00	4.23	5.35	6.79	0.26	19.18	Spain
스웨덴	6.11	0.00	0.14	2.33	11.90	0.98	21.46	Sweden
스위스	3.18	0.00	0.31	0.01	1.56	0.44	5.50	Switzerland
터키	4.79	11.22	2.00	2.68	3.42	0.01	24.11	Republic of Turkiye
영국	0.43	0.00	1.12	5.54	12.38	1.25	20.72	United Kingdom
미국	22.55	9.23	16.12	33.04	84.43	2.96	168.33	United States

자료: IEA, Extended World Energy Balance 2021

Source: IEA, Extended World Energy Balance 2021

2. 에너지통계

2-1. 세계 일차에너지 공급

Energy Statistics

Primary Energy Supply of World

단위: 백만toe

Unit: Million toe

	합계 Total	증감율 Growth Rate(%)	석유 Oil	천연가스 Natural Gas	석탄 Coal	원자력 Nuclear	수력 Hydro	신재생 Renewables
1981	6,582.9	-0.7%	2,870.2	1,308.5	1,818.6	189.2	392.0	4.4
1985	7,169.8	2.9%	2,816.2	1,488.9	2,070.9	335.3	448.3	10.3
1986	7,329.8	2.2%	2,902.3	1,502.4	2,101.8	361.3	454.0	7.9
1987	7,581.5	3.4%	2,957.1	1,578.1	2,180.3	392.9	462.1	11.0
1988	7,866.8	3.8%	3,049.8	1,653.7	2,244.7	428.4	474.0	16.1
1989	8,031.4	2.1%	3,104.6	1,727.9	2,260.6	440.5	472.9	24.9
1990	8,118.1	1.1%	3,159.3	1,768.2	2,211.2	453.1	489.9	36.5
1991	8,166.9	0.6%	3,157.6	1,807.2	2,181.1	474.5	500.6	45.9
1992	8,229.9	0.8%	3,208.0	1,817.9	2,158.7	478.3	500.9	66.0
1993	8,282.5	0.6%	3,175.6	1,853.6	2,162.8	494.8	531.3	64.3
1994	8,393.2	1.3%	3,240.4	1,865.2	2,177.5	504.0	534.4	71.7
1995	8,565.2	2.0%	3,287.6	1,926.3	2,234.5	525.9	562.9	28.1
1996	8,816.4	2.9%	3,360.9	2,016.2	2,282.4	544.8	571.2	40.9
1997	8,915.4	1.1%	3,445.9	2,015.2	2,285.1	541.1	581.1	46.9
1998	8,969.0	0.6%	3,470.8	2,048.3	2,254.7	550.1	589.9	55.2
1999	9,126.6	1.8%	3,538.9	2,094.2	2,258.0	571.1	594.9	69.5
2000	9,356.4	2.5%	3,581.4	2,177.4	2,342.1	584.3	602.4	68.7
2001	9,461.5	1.1%	3,609.4	2,216.6	2,351.4	600.8	586.6	96.7
2002	9,677.7	2.3%	3,640.2	2,276.7	2,411.0	610.5	598.5	140.8
2003	10,031.2	3.7%	3,719.0	2,343.1	2,610.0	598.3	597.1	163.7
2004	10,525.1	4.9%	3,865.2	2,413.8	2,795.2	624.9	635.2	190.7
2005	10,893.6	3.5%	3,911.6	2,499.5	2,923.2	626.7	662.2	270.4
2006	11,220.3	3.0%	3,950.1	2,562.1	3,075.1	635.2	688.1	309.7
2007	11,588.4	3.3%	4,009.7	2,647.3	3,199.8	621.8	700.7	409.0
2008	11,738.5	1.3%	3,994.8	2,717.7	3,256.3	619.0	727.6	423.0
2009	11,549.9	-1.6%	3,921.6	2,655.7	3,238.7	614.1	737.7	382.1
2010	12,119.4	4.9%	4,038.2	2,864.1	3,464.0	626.4	782.1	344.7
2011	12,414.4	2.4%	4,081.4	2,914.2	3,628.8	600.4	794.7	395.0
2012	12,589.0	1.4%	4,138.9	2,986.3	3,723.7	559.9	833.6	346.6
2013	12,829.3	1.9%	4,179.1	3,052.8	3,867.0	563.7	861.6	283.0
2014	12,953.9	1.0%	4,251.6	3,081.5	3,911.2	575.5	884.3	316.6
2015	13,060.2	0.8%	4,341.0	3,146.7	3,784.7	582.7	883.2	366.7
2016	13,258.5	1.5%	4,557.3	3,073.2	3,706.0	591.2	913.3	417.4
2017	13,474.6	1.6%	4,662.1	3,309.4	3,772.1	611.3	948.8	561.3
2018	13,763.0	2.1%	4,572.7	3,311.8	3,792.7	577.1	891.8	616.8
2019	13,889.1	0.9%	4,583.2	3,356.8	3,765.1	595.4	900.2	688.4
2020	13,295.0	-4.3%	4,149.6	3,287.0	3,616.7	572.8	911.5	757.4
2021	14,214.9	5.8%	4,399.9	3,471.6	3,824.0	604.6	961.6	953.3

주: 일차에너지는 발전에 사용된 신재생에너지를 포함한 상업적 거래연료로 구성됨

자료: BP Statistical Review of World Energy 2021

2-2. 국별 일차에너지 공급(2021년)

Primary Energy Supply by Country(2021)

단위: 엑사줄

Unit: EJ(Exajoules)

	합계 Total	석유 Oil	천연가스 Natural Gas	석탄 Coal	원자력 Nuclear	수력 Hydro	신재생 Renewables	
전세계	595.15	184.21	145.35	160.10	25.31	40.26	39.91	Total World
Non-OECD	365.26	100.59	80.73	130.41	8.04	26.69	18.80	Non-OECD
OECD	229.89	83.62	64.62	29.69	17.27	13.57	21.11	OECD
중국	157.65	30.60	13.63	86.17	3.68	12.25	11.32	China
미국	92.97	35.33	29.76	10.57	7.40	2.43	7.48	US
유럽연합	60.11	21.32	14.28	6.74	6.62	3.24	7.92	European Union
인도	35.43	9.41	2.24	20.09	0.40	1.51	1.79	India
러시아연합	31.30	6.71	17.09	3.41	2.01	2.02	0.06	Russian Federation
일본	17.74	6.61	3.73	4.80	0.55	0.73	1.32	Japan
캐나다	13.94	4.17	4.29	0.48	0.83	3.59	0.58	Canada
독일	12.64	4.18	3.26	2.12	0.62	0.18	2.28	Germany
한국	12.58	5.39	2.25	3.04	1.43	0.03	0.44	South Korea
브라질	12.57	4.46	1.46	0.71	0.13	3.42	2.39	Brazil
이란	12.19	3.25	8.68	0.07	0.03	0.14	0.02	Iran
사우디아라비아	10.82	6.59	4.22	0.00	-	-	0.01	Saudi Arabia
프랑스	9.41	2.91	1.55	0.23	3.43	0.55	0.74	France
인도네시아	8.31	2.83	1.33	3.28	-	0.23	0.63	Indonesia
영국	7.18	2.50	2.77	0.21	0.41	0.05	1.24	United Kingdom
터키	6.83	1.89	2.06	1.74	-	0.52	0.61	Turkey
멕시코	6.79	2.56	3.18	0.23	0.11	0.33	0.39	Mexico
이탈리아	6.36	2.35	2.61	0.23	-	0.41	0.76	Italy
호주	5.72	1.93	1.42	1.63	-	0.15	0.59	Australia
스페인	5.59	2.45	1.22	0.16	0.51	0.28	0.97	Spain
태국	5.11	2.25	1.69	0.81	-	0.04	0.32	Thailand
남아프리카공화국	4.98	1.04	0.14	3.53	0.09	0.01	0.16	South Africa
대만	4.98	1.92	0.98	1.67	0.25	0.03	0.12	Taiwan
아랍에미리트	4.53	1.81	2.50	0.07	0.10	-	0.05	United Arab Emirates
폴란드	4.44	1.38	0.84	1.88	-	0.02	0.32	Poland
베트남	4.32	0.94	0.26	2.15	-	0.71	0.27	Vietnam
말레이시아	4.19	1.46	1.48	0.89	-	0.30	0.06	Malaysia
파키스탄	3.86	1.02	1.61	0.67	0.14	0.36	0.05	Pakistan
이집트	3.79	1.28	2.23	0.05	-	0.14	0.10	Egypt
네덜란드	3.47	1.51	1.26	0.23	0.03	0.00	0.43	Netherlands
싱가포르	3.46	2.93	0.48	0.03	-	-	0.01	Singapore
아르헨티나	3.43	1.23	1.65	0.07	0.10	0.18	0.20	Argentina
우크라이나	3.33	0.46	0.94	0.95	0.78	0.10	0.11	Ukraine
카자흐스탄	2.85	0.63	0.55	1.56	-	0.09	0.03	Kazakhstan

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

Source: BP Statistical Review of World Energy 2022

2-3. 지역별 일차에너지 공급

단위: 엑사줄

	1970	1980	1990	2000	2010	2012	2013	2014
전세계	205.08	280.56	343.90	396.88	508.68	528.18	537.56	543.52
Non-OECD	61.08	104.09	145.36	164.94	272.36	296.36	303.48	311.39
OECD	144.00	176.47	198.54	231.94	236.32	231.81	234.08	232.13
유럽연합	45.18	58.55	62.96	64.79	65.81	63.17	62.69	60.48
북미	73.72	87.73	96.80	114.58	114.28	111.98	114.80	115.77
미국	65.54	74.71	81.38	95.56	93.43	90.17	92.62	93.59
캐나다	6.73	9.76	10.83	13.13	13.52	14.07	14.42	14.45
멕시코	1.45	3.26	4.58	5.89	7.34	7.73	7.76	7.73
중남미	6.34	11.23	14.27	20.71	26.64	28.46	29.14	29.37
브라질	1.61	4.01	5.50	8.26	11.28	12.02	12.44	12.73
아르헨티나	1.27	1.70	1.85	2.52	3.19	3.40	3.54	3.53
유럽	57.74	72.44	90.58	88.09	89.53	87.26	86.46	83.19
독일	13.00	15.26	15.09	14.36	13.85	13.54	13.93	13.35
프랑스	6.49	8.31	9.57	11.19	10.79	10.38	10.49	10.05
영국	9.18	8.57	9.03	9.59	8.96	8.59	8.56	8.08
이탈리아	5.05	6.21	6.68	7.56	7.33	7.00	6.69	6.34
독립국가연합	31.72	48.43	45.89	31.87	35.41	37.31	36.71	36.96
러시아	-	-	36.27	25.97	28.13	29.16	28.79	28.86
카자흐스탄	-	-	3.09	1.33	2.21	2.64	2.65	2.71
우즈베키스탄	-	-	1.88	2.16	1.91	1.96	1.96	2.03
중동	2.54	5.27	10.77	17.17	29.27	31.75	32.68	33.85
이란	0.60	1.46	2.92	5.03	8.72	9.22	9.56	9.99
사우디아라비아	0.95	1.51	3.34	4.81	8.74	9.74	9.78	10.53
이라크	0.14	0.36	0.86	1.16	1.37	1.54	1.71	1.62
아프리카	3.21	6.09	9.41	11.55	16.07	16.82	17.30	17.77
남아공	1.52	2.33	3.71	4.27	5.27	5.12	5.14	5.20
이집트	0.33	0.76	1.41	2.05	3.22	3.51	3.49	3.44
아시아 태평양	29.82	49.37	76.19	112.91	197.47	214.59	220.48	226.61
중국	8.50	17.38	28.58	42.48	104.60	117.43	121.85	125.41
인도	2.75	4.39	8.28	13.42	22.57	25.37	26.26	28.08
일본	11.78	15.35	18.79	22.47	21.27	19.99	19.84	19.34
한국	0.60	1.63	3.84	8.09	10.96	11.64	11.68	11.79
인도네시아	0.39	1.10	2.16	4.19	6.37	7.03	6.78	6.86

주: 일차에너지는 발전에 사용된 신재생에너지를 포함한 상업적 거래 연료로 구성됨

자료: BP Statistical Review of World Energy 2022

2-3. Primary Energy Supply by Region

Unit: EJ(Exajoules)

2015	2016	2017	2018	2019	2020	2021	'21년 점유율 Share of total 2021	
548.14	555.91	566.66	582.38	587.43	564.01	595.15	100.0%	Total World
315.29	322.05	330.81	342.69	350.01	343.82	365.26	61.4%	Non-OECD
232.85	233.85	235.86	239.69	237.41	220.20	229.89	38.6%	OECD
61.26	61.95	62.55	62.77	61.77	57.07	60.11	10.1%	European Union
114.96	114.77	115.46	118.95	117.87	108.79	113.70	19.1%	Total North America
92.69	92.60	92.95	96.34	95.66	88.54	92.97	15.6%	United States
14.55	14.35	14.58	14.70	14.63	13.82	13.94	2.3%	Canada
7.72	7.82	7.93	7.90	7.58	6.43	6.79	1.1%	Mexico
29.29	28.90	29.17	28.86	28.68	26.66	28.46	4.8%	Total S. & Cent. America
12.40	12.12	12.25	12.30	12.56	12.00	12.57	2.1%	Brazil
3.59	3.57	3.57	3.54	3.35	3.17	3.43	0.6%	Argentina
83.96	85.09	85.74	86.06	84.79	78.93	82.38	13.8%	Total Europe
13.60	13.83	14.01	13.65	13.30	12.36	12.64	2.1%	Germany
10.11	9.94	9.87	10.05	9.84	8.86	9.41	1.6%	France
8.20	8.11	8.09	8.06	7.87	7.06	7.18	1.2%	United Kingdom
6.52	6.54	6.62	6.67	6.56	5.92	6.36	1.1%	Italy
36.39	37.00	37.39	39.11	38.99	37.46	40.32	6.8%	Total CIS
28.37	28.99	29.17	30.24	30.02	28.88	31.30	5.3%	Russia
2.57	2.62	2.76	3.07	3.04	2.89	2.85	0.5%	Kazakhstan
1.94	1.85	1.91	1.92	1.92	1.88	1.97	0.3%	Uzbekistan
34.76	35.87	36.49	37.09	37.59	36.60	37.84	6.4%	Total Middle East
9.94	10.40	10.83	11.19	11.74	12.02	12.19	2.0%	Iran
10.87	11.16	11.08	10.94	10.79	10.62	10.82	1.8%	Saudi Arabia
1.57	1.80	1.90	2.29	2.23	1.99	2.12	0.4%	Iraq
18.19	18.67	19.13	19.58	19.99	18.89	19.99	3.4%	Total Africa
5.10	5.33	5.32	5.13	5.36	4.95	4.98	0.8%	South Africa
3.50	3.69	3.84	3.84	3.77	3.54	3.79	0.6%	Egypt
230.59	235.62	243.28	252.74	259.51	256.69	272.45	45.8%	Total Asia Pacific
127.02	129.15	133.60	138.88	143.92	147.58	157.65	26.5%	China
28.91	30.16	31.32	33.34	34.15	32.19	35.43	6.0%	India
19.07	18.82	19.05	18.95	18.51	17.13	17.74	3.0%	Japan
12.00	12.35	12.48	12.68	12.51	11.99	12.58	2.1%	South Korea
7.00	7.07	7.39	8.19	8.75	8.10	8.31	1.4%	Indonesia

Note: Primary energy comprises commercially traded fuels including modern renewables used to generate electricity
 Source: BP Statistical Review of World Energy 2022

2-4. 원유 매장량

단위: 십억 배럴

	2000 at end 2000	2010 at end 2010	2019 at end 2019	2020 at end 2020	'20년 점유율 Share of total	가채년수 ¹ R/P ratio ¹	
전세계	1300.9	1636.9	1734.8	1732.4	100.0%	53.5	Total World
Non-OECD	1038.2	1398.3	1473.3	1472.4	85.0%	66.9	Non-OECD
OPEC	833.0	1137.7	1214.7	1214.7	70.1%	108.3	OPEC
Non-OPEC	468.0	499.1	520.1	517.7	29.9%	24.5	Non-OPEC
OECD	262.7	238.5	261.5	260.0	15.0%	25.2	OECD
유럽연합	3.9	3.2	2.4	2.4	0.1%	16.8	European Union
북미	236.5	220.3	243.9	242.9	14.0%	28.2	Total North America
캐나다	181.5	174.8	169.1	168.1	9.7%	89.4	Canada
미국	30.4	35.0	68.8	68.8	4.0%	11.4	United States
멕시코	24.6	10.4	6.1	6.1	0.4%	8.7	Mexico
중남미	96.0	320.1	324.0	323.4	18.7%	151.3	Total S. & Cent. America
브라질	8.5	14.2	12.7	11.9	0.7%	10.8	Brazil
아르헨티나	3.0	2.5	2.5	2.5	0.1%	11.3	Argentina
콜롬비아	2.0	1.9	2.0	2.0	0.1%	7.1	Colombia
에콰도르	2.7	2.1	1.3	1.3	0.1%	7.4	Ecuador
페루	0.9	1.2	0.8	0.7	◆	15.5	Peru
트리니다드 토바고	0.9	0.8	0.2	0.2	◆	8.7	Trinidad & Tobago
베네수엘라	76.8	296.5	303.8	303.8	17.5%	*	Venezuela
유럽	21.0	13.6	14.2	13.6	0.8%	10.4	Total Europe
덴마크	1.1	0.9	0.4	0.4	◆	16.2	Denmark
이탈리아	0.6	0.6	0.6	0.6	◆	14.7	Italy
노르웨이	11.4	6.8	8.5	7.9	0.5%	10.8	Norway
루마니아	1.2	0.6	0.6	0.6	◆	22.7	Romania
영국	4.7	2.8	2.5	2.5	0.1%	6.6	United Kingdom
독립국가연합	120.1	144.2	146.2	146.2	8.4%	29.6	Total CIS
아제르바이잔	1.2	7.0	7.0	7.0	0.4%	26.7	Azerbaijan
카자흐스탄	5.4	30.0	30.0	30.0	1.7%	45.3	Kazakhstan
러시아	112.1	105.8	107.8	107.8	6.2%	27.6	Russia
투르크메니스탄	0.5	0.6	0.6	0.6	◆	7.6	Turkmenistan
우즈베키스탄	0.6	0.6	0.6	0.6	◆	34.7	Uzbekistan

1. 가채년수 : 계속 같은 비율로 생산된다는 가정하에 기말기준 매장량을 그 해 생산으로 나눔

주 : *는 500년 이상, ^는 0.05 이하, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2022

2-4. Proven Reserves of Crude Oil

Unit: Billion barrels

	2000 at end 2000	2010 at end 2010	2019 at end 2019	2020 at end 2020	'20년 점유율 Share of total	가채년수 ¹ R/P ratio ¹	
중동	696.7	765.9	836.0	835.9	48.3%	82.6	Total Middle East
이란	99.5	151.2	157.8	157.8	9.1%	139.8	Iran
이라크	112.5	115.0	145.0	145.0	8.4%	96.3	Iraq
쿠웨이트	96.5	101.5	101.5	101.5	5.9%	103.2	Kuwait
오만	5.8	5.5	5.4	5.4	0.3%	15.4	Oman
카타르	16.9	24.7	25.2	25.2	1.5%	38.1	Qatar
사우디아라비아	262.8	264.5	297.6	297.5	17.2%	73.6	Saudi Arabia
시리아	2.3	2.5	2.5	2.5	0.1%	158.8	Syria
아랍에미레이트	97.8	97.8	97.8	97.8	5.6%	73.1	U.A.E
예멘	2.4	3.0	3.0	3.0	0.2%	86.7	Yemen
아프리카	92.9	124.9	125.0	125.1	7.2%	49.8	Total Africa
알제리아	11.3	12.2	12.2	12.2	0.7%	25.0	Algeria
앙골라	6.0	9.1	7.8	7.8	0.4%	16.1	Angola
차드	0.9	1.5	1.5	1.5	0.1%	32.5	Chad
콩고	1.5	2.0	2.9	2.9	0.2%	25.7	Republic of Congo
이집트	3.6	4.5	3.1	3.1	0.2%	14.0	Egypt
기니아	0.8	1.7	1.1	1.1	0.1%	18.7	Equatorial Guinea
가봉	2.4	2.0	2.0	2.0	0.1%	26.4	Gabon
리비아	36.0	47.1	48.4	48.4	2.8%	339.2	Libya
나이지리아	29.0	37.2	36.9	36.9	2.1%	56.1	Nigeria
남수단	n/a	n/a	3.5	3.5	0.2%	56.4	South Sudan
수단	0.3	5.0	1.5	1.5	0.1%	47.9	Sudan
튀니지아	0.4	0.4	0.4	0.4	◆	32.7	Tunisia
아시아-태평양	37.7	47.8	45.3	45.2	2.6%	16.6	Total Asia Pacific
호주	4.9	3.8	2.4	2.4	0.1%	13.9	Australia
브루나이	1.2	1.1	1.1	1.1	0.1%	27.3	Brunei
중국	15.2	23.3	26.0	26.0	1.5%	18.2	China
인도	5.3	5.8	4.7	4.5	0.3%	16.1	India
인도네시아	5.1	4.2	2.5	2.4	0.1%	9.0	Indonesia
말레이시아	2.1	3.6	2.7	2.7	0.2%	12.5	Malaysia
태국	0.5	0.4	0.3	0.3	◆	1.7	Thailand
베트남	2.0	4.4	4.4	4.4	0.3%	58.1	Vietnam

1. Reserves-to-production(R/P) ratio : If the reserves remaining at the end of any year are divided by the production in that year the result is the length of time that those remaining reserves would last if production were to continue at that rate

Note : * More than 500 years, ^ Less than 0.05, ◆ Less than 0.05%

Source: BP Statistical Review of World Energy 2022

2-5. 국별 원유 생산

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2019	2020	2021	'21년 점유율 Share of total 2021	
전세계	57,344.7	67,841.0	81,805.9	91,737.4	94,915.7	88,494.2	89,876.9	100.0%	Total World
Non-OECD	37,041.8	46,489.2	61,378.9	67,125.7	65,859.9	60,296.1	61,471.5	68.4%	Non-OECD
Non-OPEC	41,899.7	41,188.1	47,617.2	55,373.3	59,958.8	57,655.3	58,131.4	64.7%	Non-OPEC
OPEC	15,444.9	26,652.9	34,188.8	36,364.0	34,956.9	30,838.9	31,745.5	35.3%	OPEC
OECD	20,302.9	21,351.8	20,427.1	24,611.7	29,055.8	28,198.1	28,405.4	31.6%	OECD
유럽연합	749.4	780.7	867.2	535.4	414.5	393.4	366.0	0.4%	European Union
북미	15,305.2	13,778.5	13,707.3	19,764.5	24,406.7	23,499.6	23,941.7	26.6%	Total North America
미국	10,580.4	8,321.6	6,900.8	12,783.3	17,113.8	16,457.7	16,585.2	18.5%	United States
캐나다	1,812.8	2,402.1	3,040.9	4,388.1	5,372.4	5,130.3	5,428.8	6.0%	Canada
멕시코	2,912.0	3,054.8	3,765.6	2,593.0	1,920.5	1,911.6	1,927.6	2.1%	Mexico
중남미	3,721.4	5,779.0	7,337.4	7,991.1	6,296.6	5,925.3	5,908.5	6.6%	Total S. & Cent. America
브라질	561.0	714.9	1,705.6	2,525.0	2,889.7	3,030.3	2,987.2	3.3%	Brazil
베네수엘라	1,744.0	2,959.0	3,302.1	2,863.9	1,021.5	640.5	654.0	0.7%	Venezuela
유럽	4,564.9	6,643.2	5,829.4	3,595.7	3,448.8	3,597.4	3,419.9	3.8%	Total Europe
노르웨이	823.0	2,903.0	2,962.1	1,946.0	1,762.0	2,002.8	2,024.8	2.3%	Norway
영국	2,695.4	2,769.2	1,837.8	963.5	1,118.1	1,048.7	874.2	1.0%	United Kingdom
독립국가연합	11,870.2	7,168.5	11,686.9	13,998.3	14,732.6	13,506.1	13,829.2	15.4%	Total CIS
러시아	10,862.6	6,235.8	9,597.7	11,086.8	11,679.0	10,666.6	10,943.8	12.2%	Russian Federation
카자흐스탄	484.8	450.4	1,294.6	1,694.8	1,918.6	1,805.9	1,811.0	2.0%	Kazakhstan
중동	10,596.5	20,150.4	25,479.8	29,893.4	30,026.3	27,609.3	28,155.9	31.3%	Total Middle East
사우디아라비아	3,601.0	8,973.5	10,838.6	11,997.9	11,832.3	11,039.0	10,953.8	12.2%	Saudi Arabia
이라크	1,425.3	530.3	1,833.0	3,986.0	4,779.5	4,113.7	4,102.4	4.6%	Iraq
아랍에미레이트	1,211.1	2,444.0	2,945.5	3,898.0	3,998.6	3,693.4	3,667.9	4.1%	U.A.E
이란	2,205.2	3,743.8	4,217.5	3,852.8	3,399.0	3,084.0	3,620.0	4.0%	Iran
쿠웨이트	1,127.0	2,130.0	2,669.2	3,069.4	2,976.2	2,694.9	2,740.7	3.0%	Kuwait
카타르	315.2	460.9	1,147.9	1,805.2	1,727.1	1,714.2	1,746.1	1.9%	Qatar
아프리카	5,368.8	7,050.2	9,770.7	8,122.9	8,362.2	6,928.2	7,286.1	8.1%	Total Africa
나이지리아	1,498.9	1,948.6	2,482.0	2,198.7	2,101.4	1,827.9	1,625.5	1.8%	Nigeria
알제리아	1,087.0	1,309.5	1,989.9	1,557.7	1,486.6	1,330.1	1,352.7	1.5%	Algeria
앙골라	232.5	632.9	1,269.0	1,795.6	1,419.7	1,317.6	1,164.3	1.3%	Angola
아시아-태평양	5,917.7	7,271.1	7,994.4	8,371.5	7,642.4	7,428.4	7,335.4	8.2%	Total Asia Pacific
중국	2,508.3	2,992.6	3,642.0	4,308.8	3,848.3	3,900.7	3,994.0	4.4%	China
인도네시아	1,342.0	1,578.0	1,095.7	837.6	780.7	742.0	691.6	0.8%	Indonesia

주: 원유, 셰일유, 오일샌드, NGL 포함. 바이오매스와 석탄 파생물 등의 다른 에너지원의 액체연료는 제외
 자료: BP Statistical Review of World Energy 2022

2-5. Crude Oil Production by Country

단위: 백만 톤

Unit: Million tonnes

	1985	1995	2005	2015	2019	2020	2021	'21년 점유율 Share of total 2021	
전세계	2,791.5	3,279.1	3,931.6	4,364.9	4,477.6	4,170.9	4,221.4	100.0%	Total World
OECD	968.2	1,007.1	954.5	1,140.7	1,326.8	1,280.4	1,285.6	30.5%	OECD
Non-OECD	1,823.3	2,271.9	2,977.1	3,224.2	3,150.8	2,890.6	2,935.7	69.5%	Non-OECD
OPEC	750.5	1,294.7	1,646.3	1,732.0	1,652.9	1,458.2	1,494.2	35.4%	OPEC
Non-OPEC	2,041.0	1,984.4	2,285.3	2,632.9	2,824.7	2,712.8	2,727.1	64.6%	Non-OPEC
유럽연합	36.1	37.7	42.1	26.1	20.2	19.3	17.8	0.4%	European Union
북미	730.2	645.7	638.2	910.9	1,108.4	1,058.7	1,074.7	25.5%	Total North America
미국	498.7	383.6	309.0	567.1	749.9	711.6	711.1	16.8%	United States
캐나다	85.7	111.9	142.7	216.1	263.5	252.0	267.1	6.3%	Canada
멕시코	145.9	150.2	186.5	127.7	95.0	95.1	96.5	2.3%	Mexico
중남미	192.6	300.1	374.7	410.6	323.1	305.0	303.5	7.2%	Total S. & Cent. America
브라질	29.5	37.5	89.0	132.2	151.2	159.3	156.8	3.7%	Brazil
베네수엘라	91.5	155.3	169.4	147.6	52.1	32.7	33.4	0.8%	Venezuela
유럽	217.3	315.2	273.3	166.6	159.5	167.8	160.2	3.8%	Total Europe
노르웨이	39.2	138.4	138.4	87.6	79.8	92.0	93.8	2.2%	Norway
영국	127.6	129.9	84.7	45.3	51.8	49.0	40.9	1.0%	United Kingdom
독립국가연합	589.9	354.3	575.6	684.5	719.6	660.5	674.3	16.0%	Total CIS
러시아	542.3	310.7	474.8	544.6	573.4	524.4	536.4	12.7%	Russia
카자흐스탄	22.7	20.6	61.5	80.2	91.0	86.0	86.0	2.0%	Kazakhstan
중동	514.1	975.4	1,222.5	1,406.2	1,408.3	1,294.9	1,315.8	31.2%	Total Middle East
사우디아라비아	172.1	431.3	516.6	568.0	556.6	519.6	515.0	12.2%	Saudi Arabia
이라크	69.8	26.0	89.9	195.6	234.2	202.0	200.8	4.8%	Iraq
아랍에미레이트	56.0	114.4	136.6	176.1	180.5	166.6	164.4	3.9%	U.A.E
이란	110.4	185.5	207.9	180.2	158.3	143.2	167.7	4.0%	Iran
쿠웨이트	55.5	104.9	130.4	148.2	143.4	130.3	131.1	3.1%	Kuwait
카타르	15.3	21.8	52.6	75.7	71.9	72.0	73.3	1.7%	Qatar
아프리카	258.0	336.3	464.5	386.4	397.3	330.7	344.7	8.2%	Total Africa
나이지리아	73.8	95.1	121.1	105.7	101.1	88.4	77.9	1.8%	Nigeria
알제리아	47.1	55.8	86.4	67.2	64.3	57.5	58.2	1.4%	Algeria
앙골라	11.5	31.2	62.4	88.2	69.1	64.2	56.6	1.3%	Angola
아시아-태평양	289.4	352.3	382.9	399.6	361.5	353.3	348.2	8.2%	Total Asia Pacific
중국	124.9	149.0	181.4	214.6	191.6	194.8	198.9	4.7%	China
인도네시아	66.3	76.5	53.7	40.6	38.2	36.4	33.8	0.8%	Indonesia

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

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

Source: BP Statistical Review of World Energy 2022

2-6. 국별 석유제품 소비

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2019	2020	2021	'21년 점유율 Share of total 2021	
전세계	59,275.9	70,131.4	83,646.6	92,464.3	97,747.0	88,745.5	94,088.0	100.0%	Total World
Non-OECD	21,030.8	24,537.3	33,663.1	47,438.6	51,677.3	48,385.5	51,147.4	54.4%	Non-OECD
OECD	38,245.1	45,594.0	49,983.5	45,025.7	46,069.7	40,360.0	42,940.6	45.6%	OECD
유럽연합	11,444.1	12,482.4	13,180.2	10,913.0	11,307.4	9,853.1	10,421.4	11.1%	European Union
북미	18,782.3	21,255.7	24,891.5	22,881.3	23,613.1	20,687.4	22,263.6	23.7%	Total North America
미국	15,726.4	17,634.4	20,531.5	18,499.2	19,423.6	17,183.3	18,684.5	19.9%	United States
캐나다	1,699.0	1,898.9	2,342.6	2,442.8	2,491.2	2,191.1	2,228.7	2.4%	Canada
멕시코	1,356.9	1,722.4	2,017.4	1,939.3	1,698.2	1,313.0	1,350.4	1.4%	Mexico
중남미	3,138.8	4,207.4	5,067.8	6,301.7	5,791.4	5,100.1	5,621.6	6.0%	Total S. & Cent. America
브라질	1,052.3	1,552.6	1,895.5	2,487.9	2,303.5	2,133.8	2,251.8	2.4%	Brazil
아르헨티나	412.4	459.0	481.6	693.6	572.0	518.0	597.8	0.6%	Argentina
베네수엘라	418.1	484.0	659.3	696.9	339.1	277.0	288.9	0.3%	Venezuela
유럽	15,593.8	15,998.1	16,742.2	14,321.3	14,831.1	12,845.7	13,527.1	14.4%	Total Europe
독일	2,643.5	2,859.6	2,549.9	2,269.1	2,269.9	2,049.3	2,045.2	2.2%	Germany
프랑스	1,769.1	1,875.5	1,931.8	1,544.4	1,527.9	1,306.8	1,424.1	1.5%	France
영국	1,616.0	1,765.8	1,828.9	1,538.0	1,522.0	1,171.9	1,236.3	1.3%	United Kingdom
독립국가연합	6,589.7	3,863.4	3,358.0	4,028.8	4,330.5	4,068.5	4,307.3	4.6%	Total CIS
러시아	4,943.7	3,058.0	2,645.9	3,196.8	3,376.2	3,209.6	3,406.5	3.6%	Russia
카자흐스탄	421.1	242.4	193.2	289.5	344.5	302.1	327.1	0.3%	Kazakhstan
중동	2,967.7	4,438.4	6,280.8	8,829.2	9,004.3	8,318.1	8,640.4	9.2%	Total Middle East
사우디아라비아	993.2	1,354.3	2,112.5	3,901.4	3,691.4	3,552.2	3,595.4	3.8%	Saudi Arabia
이란	888.0	1,210.6	1,594.9	1,579.7	1,784.1	1,672.8	1,690.0	1.8%	Iran
아랍에미리트	169.1	395.8	496.0	926.7	972.4	854.6	952.4	1.0%	U.A.E
아프리카	1,724.6	2,195.5	2,903.1	3,891.3	4,045.9	3,608.5	3,922.1	4.2%	Total Africa
이집트	406.2	462.6	606.4	810.1	686.3	598.2	647.9	0.7%	Egypt
남아공	295.5	417.6	516.8	600.7	569.2	465.4	502.2	0.5%	South Africa
아시아 태평양	10,479.2	18,172.8	24,403.2	32,210.7	36,130.6	34,117.1	35,805.9	38.1%	Total Asia Pacific
중국	1,734.5	3,220.4	6,815.7	11,889.8	14,320.9	14,407.9	15,442.1	16.4%	China
인도	896.0	1,585.1	2,603.4	4,147.4	5,149.8	4,701.4	4,878.2	5.2%	India
일본	4,488.3	5,903.6	5,385.9	4,116.3	3,692.1	3,268.6	3,341.3	3.6%	Japan
한국	537.3	2,016.9	2,290.6	2,585.7	2,788.9	2,630.2	2,812.6	3.0%	South Korea
인도네시아	464.9	852.0	1,262.0	1,505.1	1,578.2	1,398.5	1,471.5	1.6%	Indonesia
싱가폴	230.0	605.8	796.0	1,328.6	1,403.0	1,343.1	1,330.0	1.4%	Singapore

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

2. 연료용 에탄올과 바이오디젤 소비량 포함

3. 세계 소비와 생산간의 차이는 재고 변화, 비석유 첨가물 및 대체 연료의 소비, 공급과 수요의 전환이나 측정의 정의 차이 등으로 발생함

자료: BP Statistical Review of World Energy 2022

2-6. Petroleum Products Consumption by Country

단위: 백만 톤

Unit: Million tonnes

	1985	1995	2005	2015	2019	2020	2021	'21년 점유율 Share of total 2021	
전세계	2,812.7	3,287.7	3,887.2	4,219.5	4,428.8	4,018.6	4,245.7	100.0%	Total World
OECD	1,774.2	2,104.0	2,302.9	2,032.1	2,065.5	1,803.2	1,914.1	45.1%	OECD
Non-OECD	1,038.5	1,183.8	1,584.3	2,187.4	2,363.3	2,215.4	2,331.6	54.9%	Non-OECD
유럽연합	555.9	600.6	635.4	517.8	535.9	467.7	492.3	11.6%	European Union
북미	841.9	952.2	1,121.7	1,003.2	1,024.6	890.4	958.0	22.6%	Total North America
미국	706.3	791.7	926.8	811.5	842.4	739.3	803.6	18.9%	United States
캐나다	74.6	84.7	104.4	106.8	108.4	94.9	96.0	2.3%	Canada
멕시코	60.9	75.8	90.5	84.9	73.7	56.2	58.4	1.4%	Mexico
중남미	151.7	199.7	240.6	295.9	270.0	237.6	260.9	6.1%	Total S. & Cent. America
브라질	49.6	72.0	88.5	115.1	105.2	97.4	102.2	2.4%	Brazil
아르헨티나	20.1	21.9	22.5	32.7	27.4	25.2	28.6	0.7%	Argentina
베네수엘라	20.4	22.6	31.4	33.0	16.2	13.3	13.8	0.3%	Venezuela
유럽	759.6	766.7	800.8	677.2	700.1	607.6	637.5	15.0%	Total Europe
독일	126.3	135.1	120.4	106.7	106.6	96.5	95.5	2.2%	Germany
영국	77.5	82.2	83.8	70.7	70.2	54.0	57.3	1.4%	United Kingdom
프랑스	84.3	88.9	92.4	73.3	72.3	61.5	66.7	1.6%	France
독립국가연합	330.6	191.3	159.3	183.3	196.6	184.1	193.9	4.6%	Total CIS
러시아	247.4	150.6	125.0	145.4	153.3	145.0	153.4	3.6%	Russian Federation
카자흐스탄	20.7	12.0	9.3	13.2	15.4	13.6	14.5	0.4%	Kazakhstan
중동	143.2	211.4	287.1	388.2	391.8	361.5	374.9	8.8%	Total Middle East
사우디아라비아	46.8	60.2	89.3	168.5	156.8	151.5	152.4	3.6%	Saudi Arabia
이란	43.4	58.7	75.6	70.4	77.6	73.3	73.9	1.7%	Iran
아랍에미레이트	8.7	20.6	24.6	41.0	43.1	37.1	41.6	1.0%	U.A.E
아프리카	84.2	105.6	137.9	182.4	186.8	165.9	180.1	4.2%	Total Africa
이집트	20.8	23.3	29.2	38.3	31.4	26.9	29.3	0.7%	Egypt
남아공	14.1	20.0	24.8	28.6	27.1	22.1	23.9	0.6%	South Africa
아시아 태평양	501.5	860.9	1,139.8	1,489.1	1,658.9	1,571.5	1,640.3	38.6%	Total Asia Pacific
중국	85.7	153.5	323.6	557.0	666.9	675.7	718.5	16.9%	China
인도	43.3	75.2	120.9	193.9	236.6	214.2	220.5	5.2%	India
일본	210.2	274.8	248.5	188.0	168.3	148.8	151.7	3.6%	Japan
한국	26.1	94.8	103.5	113.8	121.1	114.6	122.0	2.9%	South Korea
인도네시아	22.4	40.9	59.3	67.2	69.5	61.3	64.3	1.5%	Indonesia
싱가폴	12.1	32.0	41.4	69.0	72.1	70.1	69.5	1.6%	Singapore

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

2. Consumption of fuel ethanol and biodiesel is also included

3. Differences between these world consumption figures and world production statistics are accounted for by stock changes, consumption of non-petroleum additives and substitute fuels, and unavoidable disparities in the definition, measurement or conversion of oil supply and demand data

Source: BP Statistical Review of World Energy 2022

2-7. 원유가격

International Oil Market Prices

단위: 달러/배럴

Unit: Dollar/Barrel

	OPEC	Dubai ¹	Brent ²	WTI ³	Oman
1972	2.48	1.90	-	-	-
1973	5.04	2.83	-	-	-
1974	11.25	10.41	-	-	-
1975	12.38	10.70	-	-	-
1976	12.38	11.63	12.80	12.23	-
1977	12.70	12.38	13.92	14.22	-
1978	12.70	13.03	14.02	14.55	-
1979	24.00	29.75	31.61	25.08	-
1980	32.00	35.69	36.83	37.96	-
1981	34.00	34.32	35.93	36.08	-
1982	31.05	31.80	32.97	33.65	-
1983	28.16	28.78	29.55	30.30	-
1984	27.56	28.06	28.78	29.39	-
1985	26.61	27.53	27.56	27.98	27.03
1986	13.83	13.10	14.43	15.05	13.38
1987	17.28	16.95	18.44	19.19	17.27
1988	13.69	13.18	14.92	15.98	13.63
1989	16.65	15.59	18.23	19.67	16.01
1990	21.26	20.21	23.73	24.46	20.77
1991	17.70	16.70	20.00	21.53	17.09
1992	17.82	17.18	19.32	20.57	17.70
1993	15.64	14.99	16.97	18.45	15.79
1994	15.53	14.69	15.82	17.21	15.25
1995	16.86	16.08	17.02	18.42	16.40
1996	20.29	19.26	20.67	22.16	19.32
1997	18.76	18.31	19.09	20.61	18.63
1998	12.33	12.30	12.72	14.39	12.05
1999	17.45	16.90	17.97	19.31	17.41
2000	27.55	26.27	28.50	30.37	26.81
2001	23.19	22.78	24.44	25.93	22.93
2002	24.50	23.60	25.02	26.16	24.14
2003	28.17	26.75	28.83	31.06	27.41
2004	35.97	33.51	38.27	41.49	34.42
2005	50.65	46.78	54.52	56.59	50.59
2006	61.01	61.48	65.14	66.04	62.69
2007	69.46	67.92	72.39	72.20	68.83
2008	94.10	94.28	97.26	100.06	95.03
2009	60.86	61.14	61.67	61.92	62.24
2010	77.38	77.78	79.50	79.45	78.40
2011	107.44	105.93	111.26	95.04	106.73
2012	109.52	109.06	111.67	94.13	109.33
2013	105.94	105.47	108.66	97.99	105.51
2014	96.19	97.02	98.95	93.28	96.80
2015	49.52	51.22	52.39	48.71	51.08
2016	40.68	41.02	43.73	43.34	42.14
2017	52.84	53.02	54.19	50.79	53.48
2018	69.52	70.15	71.31	65.20	69.98
2019	64.05	63.71	64.21	57.03	63.91
2020	41.37	42.41	41.84	39.25	42.51
2021	69.72	68.91	70.91	68.10	69.50

1. 1972~1985년은 Arabian Light 가격, 1986~2020년은 Dubai 가격

2. 1976~1983년 Forties 가격, 1984~2021년은 Brent 가격

3. 1976~1983년은 공시가격, 1984~2021년은 현물가격

자료: 한국석유공사, BP Statistical Review of World Energy 2022

2-8. 국별 석유 정제 능력

Refinery Capacities

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2019	2020	2021	'21년 점유율 Share of total 2021	
전세계	73,387	76,800	88,040	98,167	101,971	102,331	101,912	100%	Total World
Non-OECD	31,917	34,570	42,317	53,396	56,468	57,551	58,182	57.1%	Non-OECD
OECD	41,470	42,230	45,723	44,771	45,503	44,781	43,730	42.9%	OECD
미국	15,459	15,333	17,339	18,317	18,974	18,143	17,941	17.6%	United States
중국	2,348	4,386	8,463	15,024	16,199	16,691	16,990	16.7%	China
유럽연합	14,241	13,476	14,387	12,871	12,748	12,656	12,310	12.1%	European Union
러시아	7,072	6,612	5,313	6,472	6,676	6,736	6,861	6.7%	Russia
인도	867	1,133	2,558	4,307	4,994	5,018	5,018	4.9%	India
한국	751	1,727	2,598	3,128	3,393	3,572	3,572	3.5%	South Korea
일본	4,724	5,006	4,531	3,721	3,343	3,285	3,285	3.2%	Japan
사우디아라비아	1,510	1,692	2,102	2,899	2,905	2,905	2,905	2.9%	Saudi Arabia
이란	1,085	1,405	1,692	2,075	2,495	2,475	2,508	2.5%	Iran
브라질	1,435	1,481	1,942	2,281	2,290	2,290	2,303	2.3%	Brazil
독일	2,198	2,104	2,322	2,049	2,062	2,062	2,121	2.1%	Germany
캐나다	1,880	1,792	1,896	1,931	2,054	2,065	1,954	1.9%	Canada
이탈리아	2,585	2,359	2,515	1,900	1,900	1,900	1,900	1.9%	Italy
스페인	1,312	1,308	1,377	1,562	1,586	1,586	1,586	1.6%	Spain
멕시코	1,263	1,444	1,463	1,522	1,558	1,558	1,558	1.5%	Mexico
싱가포르	1,043	1,175	1,420	1,514	1,514	1,514	1,461	1.4%	Singapore
아랍에미레이트	180	220	711	1,149	1,307	1,331	1,246	1.2%	U.A.E
베네수엘라	1,243	1,217	1,291	1,303	1,303	1,303	1,303	1.3%	Venezuela
영국	1,864	1,844	1,819	1,337	1,227	1,251	1,197	1.2%	United Kingdom
프랑스	2,184	1,728	1,978	1,375	1,245	1,245	1,140	1.1%	France
태국	166	477	1,078	1,252	1,235	1,245	1,245	1.2%	Thailand
네덜란드	1,478	1,257	1,274	1,298	1,291	1,244	1,238	1.2%	Netherlands
대만	570	732	1,159	988	1,083	1,131	1,131	1.1%	Taiwan
인도네시아	824	941	1,004	1,111	1,111	1,094	1,094	1.1%	Indonesia
말레이시아	209	365	522	612	625	955	955	0.9%	Malaysia
이라크	660	648	728	763	919	919	919	0.9%	Iraq
터키	466	713	613	596	822	822	822	0.8%	Turkey
쿠웨이트	584	824	936	936	736	800	1,430	1.4%	Kuwait
이집트	433	633	810	810	795	795	795	0.8%	Egypt
벨기에	569	669	756	776	776	776	645	0.6%	Belgium
알제리	440	434	443	651	657	657	657	0.6%	Algeria
폴란드	361	341	507	581	581	581	581	0.6%	Poland
아르헨티나	677	639	615	657	580	580	580	0.6%	Argentina

자료: BP Statistical Review of World Energy 2022

Sorece: BP Statistical Review of World Energy 2022

2-9. 천연가스 매장량

단위: 조 m³

	2000 at end 2000	2010 at end 2010	2019 at end 2019	2020 at end 2020	'20년 점유율 Share of total 2020	가채년수 ¹ R/P ratio ¹	
전세계	138.0	179.9	190.3	188.1	100.0%	48.80	Total World
Non-OECD	124.4	162.4	170.3	167.8	89.2%	70.64	Non-OECD
OECD	13.6	17.6	20.0	20.3	10.8%	13.72	OECD
유럽연합	2.5	1.6	0.4	0.4	0.2%	9.24	European Union
북미	7.3	10.5	14.8	15.2	8.1%	13.65	Total North America
미국	4.8	8.3	12.6	12.6	6.7%	13.80	United States
캐나다	1.6	1.9	2.0	2.4	1.3%	14.25	Canada
멕시코	0.8	0.4	0.2	0.2	0.1%	5.92	Mexico
중남미	6.8	8.1	7.9	7.9	4.2%	51.66	Total S. & Cent. America
베네수엘라	4.6	6.1	6.3	6.3	3.3%	333.85	Venezuela
브라질	0.2	0.4	0.4	0.3	0.2%	14.57	Brazil
아르헨티나	0.8	0.3	0.4	0.4	0.2%	10.07	Argentina
트리니다드 토바고	0.5	0.4	0.3	0.3	0.2%	9.84	Trinidad & Tobago
페루	0.2	0.3	0.3	0.3	0.1%	21.63	Peru
볼리비아	0.2	0.3	0.2	0.2	0.1%	14.77	Bolivia
콜롬비아	0.1	0.1	0.1	0.1	◆	6.50	Colombia
유럽	5.4	4.7	3.3	3.2	1.7%	14.50	Total Europe
노르웨이	1.2	2.0	1.5	1.4	0.8%	12.82	Norway
우크라이나	0.8	0.7	1.1	1.1	0.6%	57.51	Ukraine
영국	0.7	0.3	0.2	0.2	0.1%	4.74	United Kingdom
네덜란드	1.6	1.2	0.1	0.1	0.1%	6.51	Netherlands
루마니아	0.2	0.1	0.1	0.1	◆	9.06	Romania
폴란드	0.1	0.1	0.1	0.1	◆	18.40	Poland
이탈리아	0.2	0.1	^	^	◆	10.94	Italy
독일	0.2	0.1	^	^	◆	4.37	Germany
덴마크	0.1	0.1	^	^	◆	20.31	Denmark
독립국가연합	38.6	51.3	56.8	56.6	30.1%	70.54	Total CIS
러시아	33.2	34.1	37.6	37.4	19.9%	58.56	Russia
투르크메니스탄	1.8	13.6	13.6	13.6	7.2%	230.68	Turkmenistan
아제르바이잔	1.0	1.0	2.5	2.5	1.3%	96.88	Azerbaijan
카자흐스탄	1.7	1.7	2.3	2.3	1.2%	71.22	Kazakhstan
우즈베키스탄	0.9	0.9	0.8	0.8	0.4%	17.96	Uzbekistan

1. 가채년수: 계속 같은 비율로 생산된다는 가정하에 기말기준 매장량을 그 해 생산으로 나눈

주: *는 500년 이상, ^는 0.05 이하, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2022

2-9. Proven Reserves of Natural Gas

 Unit: Trillion m³

	2000 at end 2000	2010 at end 2010	2019 at end 2019	2020 at end 2020	'20년 점유율 Share of total	가채년수 ¹ R/P ratio ¹	
중동	58.3	77.8	75.8	75.8	40.3%	110.41	Total Middle East
이란	25.4	32.3	32.1	32.1	17.1%	128.00	Iran
카타르	14.9	25.9	24.7	24.7	13.1%	143.97	Qatar
사우디아라비아	6.0	7.5	6.0	6.0	3.2%	53.69	Saudi Arabia
아랍에미레이트	5.8	5.9	5.9	5.9	3.2%	107.14	U.A.E
이라크	3.0	3.0	3.5	3.5	1.9%	336.29	Iraq
쿠웨이트	1.5	1.7	1.7	1.7	0.9%	113.21	Kuwait
오만	0.8	0.5	0.7	0.7	0.4%	18.04	Oman
이스라엘	^	0.2	0.6	0.6	0.3%	39.71	Israel
시리아	0.2	0.3	0.3	0.3	0.1%	89.57	Syria
예멘	0.3	0.3	0.3	0.3	0.1%	2,618.81	Yemen
바레인	0.3	0.2	0.1	0.1	◆	3.94	Bahrain
아프리카	11.9	14.0	14.9	12.9	6.9%	55.72	Total Africa
나이지리아	3.9	4.9	5.5	5.5	2.9%	110.72	Nigeria
알제리	4.4	4.3	4.3	2.3	1.2%	27.98	Algeria
이집트	1.4	2.1	2.1	2.1	1.1%	36.56	Egypt
리비아	1.2	1.4	1.4	1.4	0.8%	107.44	Libya
아시아-태평양	9.8	13.5	16.8	16.6	8.8%	25.40	Total Asia Pacific
중국	1.4	2.7	8.4	8.4	4.5%	43.29	China
호주	1.7	2.9	2.4	2.4	1.3%	16.77	Australia
인도네시아	2.7	3.0	1.4	1.3	0.7%	19.83	Indonesia
인도	0.7	1.1	1.3	1.3	0.7%	55.57	India
미얀마	0.3	0.2	0.4	0.4	0.2%	24.45	Myanmar
말레이시아	1.1	1.0	0.9	0.9	0.5%	12.41	Malaysia
베트남	0.2	0.6	0.6	0.6	0.3%	74.14	Vietnam
파키스탄	0.5	0.6	0.4	0.4	0.2%	12.57	Pakistan
브루나이	0.4	0.3	0.2	0.2	0.1%	17.59	Brunei
태국	0.4	0.3	0.1	0.1	0.1%	4.37	Thailand
파푸아뉴기니	^	0.1	0.2	0.2	0.1%	13.69	Papua New Guinea
방글라데시	0.3	0.3	0.1	0.1	0.1%	4.46	Bangladesh

1. Reserves-to-production(R/P) ratio: If the reserves remaining at the end of any year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate

Note: * More than 500 years, ^ Less than 0.05, ◆ Less than 0.05%

Source: BP Statistical Review of World Energy 2022

2-10. 국별 천연가스 생산

단위: 엑사줄

	1970	1980	1990	2000	2010	2011	2012	2013	2014
전세계	35.14	51.42	70.91	86.43	113.41	117.26	119.74	121.15	123.60
Non-OECD	9.05	21.43	40.90	48.44	72.70	75.83	77.01	78.08	78.88
OECD	26.09	29.99	30.01	37.99	40.71	41.44	42.73	43.07	44.72
유럽연합	3.35	5.94	5.13	4.67	4.52	4.23	4.10	4.10	3.60
북미	22.91	22.37	22.08	26.22	27.93	29.54	30.61	30.96	32.94
미국	20.57	18.90	17.40	18.67	20.71	22.22	23.37	23.60	25.37
캐나다	1.94	2.56	3.72	6.35	5.39	5.44	5.41	5.47	5.72
멕시코	0.40	0.90	0.95	1.20	1.84	1.88	1.83	1.89	1.85
중남미	0.67	1.27	2.17	3.66	5.78	5.91	6.14	6.26	6.34
아르헨티나	0.21	0.29	0.62	1.31	1.40	1.36	1.32	1.24	1.24
트리니다드 토바고	0.06	0.10	0.20	0.50	1.45	1.39	1.39	1.39	1.37
베네수엘라	0.31	0.59	0.88	1.12	1.10	1.09	1.15	1.10	1.14
유럽	3.78	8.23	8.76	11.16	11.16	10.25	10.35	10.08	9.58
노르웨이	-	0.90	0.91	1.78	3.82	3.62	4.10	3.89	3.87
영국	0.39	1.31	1.71	4.08	2.08	1.66	1.41	1.33	1.35
네덜란드	1.01	2.88	2.28	2.21	2.71	2.50	2.46	2.61	2.17
독립국가연합	6.75	14.84	26.31	23.19	26.62	27.89	27.49	27.99	27.39
러시아	-	-	21.59	19.33	21.54	22.21	21.67	22.12	21.28
투르크메니스탄	-	-	2.85	1.53	1.44	2.03	2.12	2.12	2.29
우즈베키스탄	-	-	1.33	1.83	2.06	2.04	2.03	2.01	2.03
중동	0.37	1.23	3.63	7.35	17.09	18.72	19.64	20.25	20.97
이란	0.13	0.16	0.89	2.03	5.18	5.44	5.65	5.67	6.32
카타르	0.04	0.18	0.23	0.93	4.43	5.41	5.85	6.04	6.10
사우디아라비아	0.06	0.33	1.15	1.70	3.00	3.16	3.40	3.42	3.50
아랍에미리트	0.03	0.26	0.71	1.35	1.80	1.84	1.91	1.92	1.90
아프리카	0.11	0.89	2.60	4.86	7.25	7.22	7.44	7.17	7.19
알제리	0.09	0.55	1.86	3.31	2.79	2.87	2.82	2.86	2.89
이집트	^	0.08	0.28	0.73	2.12	2.13	2.11	1.94	1.69
나이지리아	^	0.06	0.14	0.40	1.11	1.31	1.41	1.19	1.44
아시아-태평양	0.54	2.58	5.37	9.99	17.57	17.73	18.08	18.44	19.20
중국	0.10	0.52	0.56	0.99	3.48	3.82	4.01	4.39	4.72
말레이시아	-	0.09	0.65	1.79	2.34	2.41	2.49	2.61	2.60
인도네시아	0.05	0.68	1.60	2.54	3.13	2.98	2.82	2.79	2.75

주 : ^는 0.005 이하, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2022

2-10. Natural Gas Production by Country

Unit: EJ(Exajoules)

2015	2016	2017	2018	2019	2020	2021	'21년 점유율 Share of total 2021	
126.40	127.61	132.25	138.66	142.84	139.01	145.33	100.0%	Total World
80.28	81.18	84.44	87.12	88.42	85.61	91.22	62.8%	Non-OECD
46.12	46.43	47.81	51.54	54.42	53.41	54.11	37.2%	OECD
3.03	2.96	2.76	2.48	2.20	1.72	1.59	1.1%	European Union
34.16	33.70	34.41	37.91	40.65	40.04	40.89	28.1%	Total North America
26.65	26.18	26.86	30.27	33.41	32.97	33.63	23.1%	United States
5.79	5.94	6.17	6.36	6.11	5.97	6.20	4.3%	Canada
1.73	1.57	1.38	1.27	1.13	1.10	1.05	0.7%	Mexico
6.41	6.40	6.51	6.32	6.19	5.59	5.52	3.8%	Total S. & Cent. America
1.28	1.34	1.34	1.42	1.50	1.38	1.39	1.0%	Argentina
1.29	1.13	1.15	1.22	1.24	1.06	0.89	0.6%	Trinidad & Tobago
1.30	1.34	1.39	1.14	0.92	0.78	0.86	0.6%	Venezuela
9.39	9.36	9.46	9.05	8.45	7.87	7.58	5.2%	Total Europe
4.18	4.17	4.45	4.37	4.11	4.01	4.12	2.8%	Norway
1.46	1.50	1.51	1.46	1.41	1.42	1.18	0.8%	United Kingdom
1.65	1.59	1.37	1.16	1.00	0.72	0.65	0.4%	Netherlands
27.15	27.21	28.78	30.28	30.85	29.16	32.26	22.2%	Total CIS
21.04	21.21	22.88	24.09	24.45	22.94	25.26	17.4%	Russia
2.37	2.28	2.11	2.21	2.27	2.38	2.85	2.0%	Turkmenistan
1.93	1.91	1.93	2.10	2.07	1.70	1.83	1.3%	Uzbekistan
21.63	22.47	23.03	23.85	24.28	24.76	25.73	17.7%	Total Middle East
6.61	7.18	7.70	8.10	8.38	8.98	9.24	6.4%	Iran
6.33	6.29	6.14	6.31	6.38	6.30	6.37	4.4%	Qatar
3.57	3.79	3.93	4.04	4.00	4.07	4.22	2.9%	Saudi Arabia
2.11	2.14	2.14	2.09	2.07	2.00	2.05	1.4%	U.A.E
7.49	7.63	8.26	8.70	8.75	8.32	9.27	6.4%	Total Africa
2.93	3.29	3.35	3.38	3.13	2.93	3.63	2.5%	Algeria
1.53	1.45	1.76	2.11	2.34	2.10	2.44	1.7%	Egypt
1.71	1.53	1.70	1.74	1.77	1.78	1.65	1.1%	Nigeria
20.16	20.85	21.81	22.57	23.67	23.27	24.08	16.6%	Total Asia Pacific
4.88	4.97	5.37	5.81	6.36	6.98	7.53	5.2%	China
2.77	2.76	2.86	2.74	2.75	2.47	2.67	1.8%	Malaysia
2.74	2.70	2.62	2.62	2.43	2.14	2.13	1.5%	Indonesia

 Note : ^ Less than 0.005, ◆ Less than 0.05%
 Source: BP Statistical Review of World Energy 2022

2-11. 국별 천연가스 소비

단위: 액사출

	1970	1980	1990	2000	2010	2012	2013	2014
전세계	34.61	51.25	70.13	86.38	113.72	119.50	121.43	122.20
Non-OECD	8.96	19.31	34.18	37.87	57.82	62.50	63.25	64.94
OECD	25.66	31.94	35.95	48.51	55.90	56.99	58.18	57.26
유럽연합	3.44	8.24	10.49	12.92	15.22	13.76	13.48	11.93
북미	22.30	21.81	21.87	27.13	29.01	31.00	32.05	32.79
미국	20.70	19.21	18.61	22.62	23.33	24.77	25.45	26.00
캐나다	1.25	1.79	2.30	3.21	3.30	3.58	3.80	3.95
멕시코	0.36	0.80	0.97	1.29	2.38	2.65	2.80	2.84
중남미	0.68	1.30	2.14	3.54	5.30	5.82	6.02	6.21
아르헨티나	0.21	0.40	0.71	1.16	1.52	1.64	1.66	1.66
브라질	^	0.04	0.11	0.35	0.99	1.17	1.38	1.46
유럽	3.91	10.11	17.38	20.11	22.43	20.37	19.96	18.00
독일	0.58	2.20	2.29	2.99	3.17	2.92	3.06	2.66
영국	0.43	1.69	1.98	3.65	3.55	2.77	2.75	2.52
이탈리아	0.44	0.94	1.64	2.44	2.85	2.57	2.40	2.12
터키	-	-	0.12	0.50	1.29	1.56	1.58	1.68
프랑스	0.34	0.91	1.09	1.50	1.78	1.60	1.63	1.36
네덜란드	0.64	1.27	1.33	1.48	1.68	1.41	1.41	1.24
독립국가연합	6.82	13.57	18.40	16.26	19.05	19.55	19.26	19.36
러시아	-	-	14.91	13.18	15.26	15.43	15.30	15.20
우즈베키스탄	-	-	1.26	1.75	1.59	1.66	1.66	1.75
중동	0.34	1.14	3.44	6.60	13.70	14.80	15.24	16.11
이란	0.09	0.16	0.82	2.14	5.20	5.49	5.54	6.24
사우디아라비아	0.06	0.33	1.15	1.70	3.00	3.40	3.42	3.50
아랍에미레이트	0.03	0.17	0.59	1.10	2.13	2.30	2.33	2.28
아프리카	0.06	0.67	1.44	2.00	3.53	4.13	4.21	4.33
이집트	^	0.08	0.28	0.69	1.56	1.82	1.78	1.66
알제리아	0.04	0.39	0.70	0.69	0.91	1.08	1.16	1.30
아시아 태평양	0.51	2.64	5.46	10.74	20.71	23.83	24.69	25.40
중국	0.10	0.52	0.56	0.89	3.92	5.43	6.19	6.78
일본	0.13	0.91	1.81	2.72	3.60	4.44	4.45	4.49
인도	0.02	0.04	0.42	0.91	2.12	2.01	1.76	1.75
한국	-	-	0.11	0.71	1.62	1.89	1.98	1.80

주 : ^는 0.005 이하, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2022

2-11. Natural Gas Consumption by Country

Unit: EJ(Exajoules)

2015	2016	2017	2018	2019	2020	2021	'21년 점유율 Share of total 2021	
125.17	128.02	131.51	138.08	140.63	138.44	145.35	100.0%	Total World
66.72	68.40	71.11	74.63	75.72	75.13	80.73	55.5%	Non-OECD
58.45	59.62	60.40	63.45	64.91	63.31	64.62	44.5%	OECD
12.48	13.25	13.87	13.61	14.11	13.69	14.28	9.8%	European Union
33.65	33.74	33.69	36.90	38.01	37.04	37.23	25.6%	Total North America
26.77	26.97	26.64	29.58	30.62	29.95	29.76	20.5%	United States
3.97	3.78	3.96	4.16	4.22	4.08	4.29	3.0%	Canada
2.91	2.99	3.10	3.15	3.17	3.01	3.18	2.2%	Mexico
6.40	6.27	6.33	6.07	5.86	5.30	5.88	4.0%	Total S. & Cent. America
1.68	1.74	1.74	1.75	1.68	1.58	1.65	1.1%	Argentina
1.55	1.34	1.35	1.29	1.29	1.13	1.46	1.0%	Brazil
18.33	19.35	20.12	19.71	19.96	19.51	20.56	14.1%	Total Europe
2.77	3.06	3.16	3.09	3.21	3.14	3.26	2.2%	Germany
2.59	2.90	2.83	2.83	2.80	2.63	2.77	1.9%	United Kingdom
2.32	2.43	2.58	2.49	2.55	2.43	2.61	1.8%	Italy
1.65	1.60	1.86	1.70	1.56	1.66	2.06	1.4%	Turkey
1.47	1.60	1.61	1.54	1.57	1.46	1.55	1.1%	France
1.23	1.27	1.30	1.28	1.33	1.30	1.26	0.9%	Netherlands
18.99	19.31	19.75	20.87	20.65	19.80	21.99	15.1%	Total CIS
14.71	15.14	15.52	16.36	16.00	15.25	17.09	11.8%	Russia
1.67	1.56	1.61	1.60	1.61	1.57	1.67	1.1%	Uzbekistan
17.26	18.04	18.61	19.08	19.59	20.05	20.72	14.3%	Total Middle East
6.62	7.07	7.38	7.66	7.86	8.43	8.68	6.0%	Iran
3.57	3.79	3.93	4.04	4.00	4.07	4.22	2.9%	Saudi Arabia
2.57	2.59	2.61	2.56	2.56	2.51	2.50	1.7%	U.A.E
4.77	4.93	5.22	5.56	5.58	5.53	5.92	4.1%	Total Africa
1.66	1.78	2.01	2.15	2.13	2.10	2.23	1.5%	Egypt
1.37	1.39	1.42	1.56	1.62	1.57	1.65	1.1%	Algeria
25.77	26.38	27.79	29.90	30.97	31.21	33.06	22.7%	Total Asia Pacific
7.01	7.54	8.69	10.22	11.10	12.12	13.63	9.4%	China
4.27	4.19	4.21	4.17	3.89	3.75	3.73	2.6%	Japan
1.72	1.83	1.93	2.09	2.13	2.18	2.24	1.5%	India
1.64	1.72	1.79	2.08	2.02	2.07	2.25	1.5%	South Korea

Note : ^ Less than 0.005, ◆ Less than 0.05%
 Source: BP Statistical Review of World Energy 2022

2-12. 석탄 매장량

단위: 백만 톤

	무연탄/역청탄 Anthracite & bituminous	아역청탄 Sub-bituminous & lignite	합계 Total	'20년 점유율 Share of total 2020	가채년수 ¹ R/P ratio ¹	
전세계	753,639	320,469	1,074,108	100.0%	139	Total World
Non-OECD	422,336	143,339	565,675	52.7%	90	Non-OECD
OECD	331,303	177,130	508,433	47.3%	363	OECD
유럽연합	25,539	53,051	78,590	7.3%	266	European Union
북미	224,444	32,290	256,734	23.9%	484	Total North America
미국	218,938	30,003	248,941	23.2%	*	United States
캐나다	4,346	2,236	6,582	0.6%	166	Canada
멕시코	1,160	51	1,211	0.1%	185	Mexico
중남미	8,616	5,073	13,689	1.3%	240	Total S. & Cent. America
브라질	1,547	5,049	6,596	0.6%	*	Brazil
콜롬비아	4,554	-	4,554	0.4%	90	Colombia
베네수엘라	731	-	731	0.1%	*	Venezuela
유럽	59,084	78,156	137,240	12.8%	299	Total Europe
독일	-	35,900	35,900	3.3%	334	Germany
우크라이나	32,039	2,336	34,375	3.2%	*	Ukraine
폴란드	22,530	5,865	28,395	2.6%	282	Poland
터키	550	10,975	11,525	1.1%	168	Turkey
세르비아	402	7,112	7,514	0.7%	189	Serbia
체코	1,081	2,514	3,595	0.3%	113	Czech Republic
헝가리	276	2,633	2,909	0.3%	475	Hungary
그리스	-	2,876	2,876	0.3%	205	Greece
불가리아	192	2,174	2,366	0.2%	192	Bulgaria
스페인	868	319	1,187	0.1%	282	Spain
루마니아	11	280	291	◆	19	Romania
영국	26	-	26	◆	16	United Kingdom

1. 가채년수 : 계속 같은 비율로 생산된다는 가정하에 기말기준 매장량을 그 해 생산으로 나눔

주: *는 500년 이상, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2022

2-12. Proven Reserves of Coal

Unit: Million tonnes

	무연탄/역청탄 Anthracite & bituminous	아역청탄 Sub-bituminous & lignite	합계 Total	'20년 점유율 Share of total 2020	가채년수 ¹ R/P ratio ¹	
독립국가연합	100,208	90,447	190,655	17.8%	367	CIS
러시아	71,719	90,447	162,166	15.1%	407	Russia
카자흐스탄	25,605	—	25,605	2.4%	226	Kazakhstan
우즈베키스탄	1,375	—	1,375	0.1%	333	Uzbekistan
중동·아프리카	15,974	66	16,040	1.5%	60	Total Middle East & Africa
남아공	9,893	—	9,893	0.9%	40	South Africa
중동	1,203	—	1,203	0.1%	*	Middle East
짐바브웨	502	—	502	◆	153	Zimbabwe
아시아·태평양	345,313	114,437	459,750	42.8%	78	Total Asia Pacific
호주	73,719	76,508	150,227	14.0%	315	Australia
중국	135,069	8,128	143,197	13.3%	37	China
인도	105,979	5,073	111,052	10.3%	147	India
인도네시아	23,141	11,728	34,869	3.2%	62	Indonesia
뉴질랜드	825	6,750	7,575	0.7%	*	New Zealand
베트남	3,116	244	3,360	0.3%	69	Vietnam
파키스탄	207	2,857	3,064	0.3%	396	Pakistan
몽골	1,170	1,350	2,520	0.2%	58	Mongolia
태국	—	1,063	1,063	0.1%	80	Thailand
한국	326	—	326	◆	320	South Korea
일본	340	10	350	◆	453	Japan

1. Reserves-to-production(R/P) ratio : If the reserves remaining at the end of any year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that rate

Note: * More than 500 years, ◆ Less than 0.05%

Source: BP Statistical Review of World Energy 2022

2-13. 국별 석탄 생산

단위: 엑사줄

	1981	1990	2000	2010	2012	2013	2014	2015
전세계	77.20	94.84	96.49	150.85	163.72	166.66	166.09	161.85
Non-OECD	36.15	48.72	54.07	106.85	120.01	123.23	121.65	120.54
OECD	41.05	46.12	42.41	43.99	43.71	43.43	44.44	41.31
유럽연합	14.80	13.41	8.27	6.46	6.57	6.23	5.98	5.80
북미	19.46	24.35	24.65	23.88	22.53	21.87	22.15	19.64
미국	18.42	22.54	22.79	22.09	20.72	20.05	20.33	17.99
캐나다	0.97	1.67	1.64	1.48	1.49	1.53	1.51	1.36
멕시코	0.07	0.14	0.23	0.31	0.31	0.30	0.30	0.29
중남미	0.28	0.81	1.48	2.35	2.78	2.73	2.87	2.73
콜롬비아	0.12	0.59	1.10	2.14	2.58	2.47	2.57	2.49
브라질	0.12	0.07	0.11	0.11	0.12	0.15	0.15	0.12
유럽	18.86	20.59	11.63	9.60	9.95	9.42	8.59	7.87
폴란드	4.31	4.19	3.01	2.32	2.42	2.39	2.26	2.22
독일	6.23	5.24	2.54	1.92	2.00	1.89	1.85	1.79
터키	0.29	0.49	0.52	0.73	0.71	0.65	0.68	0.54
우크라이나	-	3.63	1.52	1.35	1.64	1.60	1.09	0.72
체코	1.79	1.52	1.05	0.87	0.85	0.74	0.71	0.71
세르비아	-	-	-	0.30	0.31	0.32	0.24	0.30
독립국가연합	14.50	10.34	6.50	8.39	9.31	9.51	9.56	9.84
러시아	-	7.77	5.09	6.32	7.05	7.25	7.39	7.80
카자흐스탄	-	2.39	1.36	1.99	2.16	2.15	2.05	1.93
중동	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03
아프리카	3.28	4.40	5.47	6.15	6.36	6.38	6.59	6.33
남아공	3.13	4.19	5.30	6.03	6.14	6.08	6.20	5.96
아시아-태평양	20.80	34.32	46.73	100.45	112.76	116.71	116.30	115.40
중국	13.01	22.61	29.61	69.72	78.44	79.32	78.05	76.59
인도네시아	0.01	0.26	1.90	6.79	9.52	11.70	11.30	11.39
인도	2.67	4.45	6.38	10.57	10.68	10.71	11.28	11.77
호주	2.84	4.80	7.19	10.49	11.13	11.97	12.81	12.80
베트남	0.14	0.12	0.27	1.05	0.99	0.96	0.96	0.98
몽골	0.08	0.14	0.10	0.48	0.59	0.64	0.47	0.46
태국	0.02	0.15	0.22	0.21	0.20	0.20	0.19	0.16

주: 상업용 연료이며, *는 500년 이상, ◆는 0.05% 이하
 자료: BP Statistical Review of World Energy 2022

2-13. Coal Production by Country

Unit: EJ(Exajoules)

2016	2017	2018	2019	2020	2021	*21년 점유율 Share of total 2021	
153.44	157.24	165.19	167.14	158.65	167.58	100.0%	Total World
115.44	118.74	126.79	130.81	128.77	135.97	81.1%	Non-OECD
38.00	38.50	38.40	36.33	29.88	31.61	18.9%	OECD
5.61	5.59	5.37	4.41	3.67	3.93	2.3%	European Union
16.33	17.30	16.90	15.72	11.96	12.97	7.7%	Total North America
14.70	15.66	15.40	14.29	10.73	11.65	7.0%	United States
1.37	1.33	1.22	1.20	1.04	1.14	0.7%	Canada
0.25	0.31	0.28	0.23	0.19	0.18	0.1%	Mexico
2.84	2.79	2.65	2.58	1.63	1.85	1.1%	Total S. & Cent. America
2.62	2.63	2.48	2.45	1.50	1.71	1.0%	Colombia
0.11	0.09	0.10	0.09	0.10	0.12	0.1%	Brazil
7.73	7.45	7.47	6.35	5.47	5.78	3.5%	Total Europe
2.18	2.08	1.98	1.87	1.68	1.76	1.1%	Poland
1.66	1.65	1.58	1.19	0.98	1.15	0.7%	Germany
0.65	0.63	0.69	0.73	0.66	0.75	0.4%	Turkey
0.76	0.57	0.61	0.60	0.53	0.54	0.3%	Ukraine
0.67	0.64	0.62	0.56	0.43	0.43	0.3%	Czech Republic
0.30	0.30	0.28	0.29	0.30	0.28	0.2%	Serbia
10.10	10.78	11.52	11.47	10.62	11.41	6.8%	Total CIS
8.12	8.62	9.23	9.23	8.42	9.14	5.5%	Russia
1.85	2.02	2.13	2.07	2.05	2.09	1.2%	Kazakhstan
0.04	0.04	0.05	0.04	0.04	0.04	◆	Total Middle East
6.32	6.47	6.62	6.47	6.21	6.04	3.6%	Total Africa
6.01	5.97	6.01	6.02	5.82	5.55	3.3%	South Africa
110.09	112.41	119.99	124.51	122.72	129.49	77.3%	Total Asia Pacific
70.82	73.17	76.87	79.76	80.51	85.15	50.8%	China
11.25	11.38	13.76	15.20	13.91	15.15	9.0%	Indonesia
11.89	11.99	12.80	12.60	12.63	13.47	8.0%	India
12.83	12.50	13.09	13.18	12.18	12.43	7.4%	Australia
0.91	0.90	0.99	1.09	1.13	1.12	0.7%	Vietnam
0.67	0.94	1.04	1.09	0.82	0.62	0.4%	Mongolia
0.18	0.17	0.16	0.15	0.14	0.15	0.1%	Thailand

Note: Commercial solid fuels only, * More than 500 years, ◆ Less than 0.05%
Source: BP Statistical Review of World Energy 2022

2-14. 국별 석탄 소비

단위: 엑사줄

	1970	1980	1990	2000	2010	2012	2013	2014	2015
전세계	61.41	75.09	93.26	98.74	151.19	159.06	161.43	162.58	158.60
Non-OECD	24.93	34.49	47.66	52.28	105.19	115.79	117.80	119.65	118.37
OECD	36.48	40.59	45.59	46.46	45.99	43.27	43.63	42.93	40.22
유럽연합	15.98	17.33	16.37	11.86	10.45	10.70	10.50	10.00	9.98
북미	13.05	16.48	20.49	24.18	22.45	18.84	19.48	19.39	16.94
미국	12.29	15.46	19.22	22.63	20.88	17.42	18.08	18.04	15.58
캐나다	0.71	0.93	1.14	1.28	1.03	0.88	0.86	0.82	0.82
멕시코	0.05	0.10	0.14	0.27	0.53	0.54	0.53	0.53	0.53
중남미	0.30	0.45	0.66	0.88	1.17	1.31	1.44	1.51	1.48
브라질	0.10	0.25	0.40	0.54	0.61	0.64	0.69	0.73	0.74
칠레	0.05	0.05	0.11	0.13	0.19	0.28	0.32	0.32	0.31
유럽	20.61	21.19	24.00	16.56	15.34	16.34	15.80	14.84	14.20
독일	6.24	5.92	5.51	3.57	3.23	3.37	3.47	3.33	3.29
폴란드	2.94	4.26	3.28	2.35	2.31	2.14	2.23	2.07	2.04
터키	0.19	0.29	0.67	0.94	1.32	1.53	1.32	1.51	1.45
우크라이나	-	-	3.48	1.61	1.60	1.79	1.73	1.49	1.14
체코	1.55	1.61	1.25	0.89	0.79	0.74	0.71	0.69	0.68
이탈리아	0.41	0.53	0.61	0.52	0.57	0.66	0.57	0.55	0.52
영국	4.02	2.98	2.72	1.54	1.29	1.63	1.55	1.25	0.97
독립국가연합	13.07	14.13	9.62	5.28	5.29	5.84	5.52	5.39	5.45
러시아	-	-	7.63	4.43	3.79	4.12	3.79	3.67	3.86
카자흐스탄	-	-	1.62	0.75	1.40	1.58	1.57	1.55	1.43
중동	0.01	0.05	0.13	0.32	0.42	0.50	0.47	0.47	0.44
아프리카	1.30	1.96	3.16	3.47	4.19	4.03	4.07	4.26	4.03
남아공	1.15	1.79	2.82	3.12	3.89	3.70	3.70	3.75	3.52
아시아-태평양	13.07	20.82	35.19	48.04	102.32	112.20	114.66	116.72	116.05
중국	6.95	12.74	22.08	29.56	73.22	80.71	82.43	82.48	80.92
인도	1.57	2.37	4.59	6.88	12.14	14.02	14.87	16.36	16.55
일본	2.53	2.44	3.27	4.00	4.87	4.88	5.07	4.99	5.03
인도네시아	^	0.01	0.14	0.55	1.66	2.03	1.78	1.88	2.14
한국	0.24	0.55	1.01	1.80	3.23	3.38	3.41	3.53	3.58
베트남	0.05	0.10	0.09	0.20	0.61	0.67	0.72	0.87	1.10
호주	0.83	1.17	1.60	2.13	2.19	2.00	1.89	1.88	1.95

주: 상업용 연료이며, ^는 0.005 이하, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2022

2-14. Coal Consumption by Country

Unit: EJ(Exajoules)

2016	2017	2018	2019	2020	2021	'21년 점유율 Share of total 2021	
156.61	157.51	159.54	157.32	151.07	160.10	100.0%	Total World
118.66	120.03	123.20	125.07	123.57	130.41	81.5%	Non-OECD
37.95	37.47	36.34	32.25	27.50	29.69	18.5%	OECD
9.58	9.25	9.04	7.30	5.97	6.74	4.2%	European Union
15.55	15.30	14.50	12.50	9.97	11.28	7.0%	Total North America
14.26	13.87	13.28	11.34	9.20	10.57	6.6%	United States
0.77	0.80	0.65	0.61	0.53	0.48	0.3%	Canada
0.52	0.64	0.57	0.54	0.24	0.23	0.1%	Mexico
1.44	1.41	1.39	1.42	1.31	1.46	0.9%	Total S. & Cent. America
0.67	0.70	0.69	0.65	0.59	0.71	0.4%	Brazil
0.31	0.32	0.31	0.31	0.26	0.26	0.2%	Chile
13.69	13.04	12.91	11.02	9.48	10.01	6.3%	Total Europe
3.20	3.01	2.90	2.25	1.81	2.12	1.3%	Germany
2.07	2.08	2.09	1.86	1.72	1.88	1.2%	Poland
1.61	1.65	1.71	1.76	1.70	1.74	1.1%	Turkey
1.36	1.08	1.17	1.09	0.96	0.95	0.6%	Ukraine
0.69	0.66	0.65	0.60	0.52	0.54	0.3%	Czech Republic
0.46	0.40	0.37	0.28	0.21	0.23	0.1%	Italy
0.46	0.38	0.32	0.22	0.20	0.21	0.1%	United Kingdom
5.33	5.22	5.56	5.45	5.08	5.17	3.2%	Total CIS
3.74	3.51	3.63	3.57	3.29	3.41	2.1%	Russia
1.42	1.52	1.70	1.66	1.56	1.56	1.0%	Kazakhstan
0.41	0.40	0.39	0.40	0.36	0.34	0.2%	Total Middle East
4.27	4.27	4.19	4.43	4.17	4.21	2.6%	Total Africa
3.78	3.72	3.53	3.76	3.56	3.53	2.2%	South Africa
115.94	117.87	120.59	122.11	120.70	127.63	79.7%	Total Asia Pacific
80.19	80.56	81.05	81.70	82.38	86.17	53.8%	China
16.88	17.44	18.58	18.59	17.40	20.09	12.5%	India
5.02	5.10	4.99	4.91	4.57	4.80	3.0%	Japan
2.23	2.39	2.84	3.41	3.25	3.28	2.0%	Indonesia
3.41	3.61	3.63	3.44	3.02	3.04	1.9%	South Korea
1.19	1.19	1.58	2.09	2.10	2.15	1.3%	Vietnam
1.94	1.88	1.83	1.75	1.69	1.63	1.0%	Australia

Note: Commercial solid fuels only, ^ Less than 0.005, ◆ Less than 0.05%
 Source: BP Statistical Review of World Energy 2022

2-15. 국별 원자력 소비

단위: 역사출

	1970	1980	1990	2000	2010	2012	2013	2014
전세계	0.81	7.27	20.43	26.36	26.55	23.40	23.45	23.78
OECD	0.75	6.32	17.71	22.98	22.08	18.59	18.60	18.61
Non-OECD	0.06	0.95	2.73	3.38	4.47	4.82	4.84	5.17
유럽연합	0.17	1.89	7.45	8.79	8.19	7.69	7.59	7.61
북미	0.25	3.09	6.97	8.93	9.06	8.65	8.90	8.94
미국	0.23	2.70	6.20	8.11	8.14	7.67	7.82	7.85
캐나다	0.01	0.39	0.74	0.74	0.86	0.89	0.97	1.00
멕시코	-	-	0.03	0.08	0.06	0.08	0.11	0.09
중남미	^	0.02	0.10	0.12	0.21	0.21	0.20	0.20
브라질	-	-	0.02	0.06	0.14	0.15	0.15	0.14
아르헨티나	-	0.02	0.07	0.06	0.07	0.06	0.06	0.05
유럽	0.46	2.42	9.14	10.71	9.90	9.46	9.29	9.29
프랑스	0.06	0.63	3.21	4.24	4.11	4.03	3.99	4.08
우크라이나	-	-	0.78	0.79	0.85	0.85	0.78	0.83
독일	0.07	0.57	1.56	1.73	1.35	0.94	0.92	0.91
스페인	0.01	0.05	0.55	0.64	0.59	0.58	0.53	0.54
스웨덴	^	0.27	0.70	0.59	0.55	0.61	0.63	0.61
영국	0.27	0.38	0.67	0.87	0.60	0.67	0.66	0.60
벨기에	^	0.13	0.44	0.49	0.46	0.38	0.40	0.32
체코	-	-	0.13	0.14	0.27	0.29	0.29	0.28
스위스	0.02	0.15	0.24	0.27	0.25	0.24	0.25	0.26
핀란드	-	0.07	0.19	0.23	0.22	0.22	0.22	0.22
독립국가연합	0.04	0.76	1.21	1.36	1.66	1.70	1.65	1.71
러시아	-	-	1.21	1.34	1.63	1.68	1.62	1.69
중동	-	-	-	-	-	0.01	0.04	0.04
이란	-	-	-	-	-	0.01	0.04	0.04
아프리카	-	-	0.09	0.13	0.13	0.12	0.13	0.13
남아공	-	-	0.09	0.13	0.13	0.12	0.13	0.13
아시아-태평양	0.06	0.99	2.93	5.11	5.59	3.25	3.24	3.48
중국	-	-	-	0.17	0.72	0.93	1.05	1.25
한국	-	0.04	0.54	1.11	1.42	1.42	1.31	1.46
인도	0.01	0.03	0.07	0.16	0.22	0.31	0.31	0.32
일본	0.05	0.84	1.99	3.26	2.80	0.17	0.14	-

주: ^은 0.05 이하

자료: BP Statistical Review of World Energy 2021

2-15. Nuclear Energy Consumption by Country

Unit: EJ(Exajoules)

2015	2016	2017	2018	2019	2020	2021	'21년 점유율 Share of total 2021	
23.96	24.17	24.25	24.68	25.46	24.44	25.31	100.0%	Total World
18.37	18.25	18.02	18.00	18.16	16.99	17.27	68.2%	OECD
5.59	5.93	6.23	6.68	7.30	7.46	8.04	31.8%	Non-OECD
7.32	7.10	6.98	6.97	6.97	6.20	6.62	26.1%	European Union
8.85	8.87	8.81	8.80	8.78	8.53	8.34	33.0%	Total North America
7.81	7.84	7.79	7.76	7.76	7.54	7.40	29.3%	United States
0.94	0.93	0.92	0.91	0.92	0.88	0.83	3.3%	Canada
0.11	0.10	0.10	0.12	0.10	0.10	0.11	0.4%	Mexico
0.20	0.22	0.20	0.21	0.22	0.22	0.23	0.9%	Total S. & Cent. America
0.14	0.15	0.14	0.14	0.15	0.13	0.13	0.5%	Brazil
0.07	0.08	0.06	0.06	0.08	0.10	0.10	0.4%	Argentina
9.01	8.71	8.61	8.56	8.47	7.56	7.98	31.5%	Total Europe
4.07	3.73	3.66	3.77	3.63	3.21	3.43	13.5%	France
0.82	0.75	0.79	0.77	0.76	0.69	0.78	3.1%	Ukraine
0.85	0.78	0.70	0.69	0.68	0.58	0.62	2.5%	Germany
0.53	0.54	0.53	0.51	0.53	0.53	0.51	2.0%	Spain
0.52	0.58	0.60	0.63	0.60	0.45	0.48	1.9%	Sweden
0.65	0.66	0.65	0.59	0.51	0.46	0.41	1.6%	United Kingdom
0.24	0.40	0.39	0.26	0.40	0.31	0.46	1.8%	Belgium
0.25	0.22	0.26	0.27	0.28	0.27	0.28	1.1%	Czech Republic
0.22	0.20	0.19	0.22	0.23	0.21	0.17	0.7%	Switzerland
0.22	0.22	0.21	0.21	0.22	0.21	0.22	0.9%	Finland
1.84	1.84	1.89	1.89	1.92	1.99	2.08	8.2%	Total CIS
1.82	1.82	1.87	1.87	1.90	1.96	2.01	7.9%	Russia
0.03	0.06	0.06	0.06	0.06	0.07	0.13	0.5%	Total Middle East
0.03	0.06	0.06	0.06	0.06	0.06	0.03	0.1%	Iran
0.11	0.14	0.13	0.11	0.12	0.13	0.09	0.4%	Total Africa
0.11	0.14	0.13	0.11	0.12	0.13	0.09	0.4%	South Africa
3.90	4.33	4.54	5.06	5.89	5.94	6.46	25.5%	Total Asia Pacific
1.59	1.97	2.28	2.70	3.18	3.32	3.68	14.6%	China
1.53	1.50	1.36	1.22	1.33	1.45	1.43	5.6%	South Korea
0.36	0.35	0.34	0.36	0.41	0.40	0.40	1.6%	India
0.04	0.16	0.27	0.45	0.60	0.39	0.55	2.2%	Japan

Note: ^ less than 0.05

Source: BP Statistical Review of World Energy 2021

2-16. 국별 수력 소비

단위: 역사출

	1970	1980	1990	2000	2010	2012	2013	2014
전세계	12.50	18.43	22.98	28.17	34.26	35.95	37.17	37.93
Non-OECD	3.33	6.59	9.89	13.32	20.29	21.72	22.85	23.91
OECD	9.18	11.84	13.09	14.85	13.97	14.23	14.32	14.02
유럽연합	2.50	3.17	3.03	3.79	3.73	3.26	3.60	3.60
북미	4.54	5.86	6.52	7.05	6.45	6.77	6.73	6.60
캐나다	1.68	2.67	3.15	3.80	3.51	3.75	3.84	3.73
미국	2.70	3.00	3.11	2.90	2.57	2.70	2.62	2.49
멕시코	0.16	0.18	0.26	0.35	0.37	0.31	0.27	0.38
중남미	0.70	2.14	3.84	5.86	6.93	7.13	6.87	6.62
브라질	0.42	1.37	2.20	3.24	4.03	4.10	3.84	3.64
콜롬비아	0.06	0.15	0.29	0.33	0.41	0.47	0.44	0.44
베네수엘라	0.04	0.16	0.39	0.67	0.77	0.81	0.80	0.78
아르헨티나	0.02	0.16	0.19	0.30	0.33	0.29	0.32	0.32
페루	0.04	0.07	0.11	0.17	0.20	0.22	0.22	0.22
유럽	3.68	4.95	5.35	6.58	6.49	6.18	6.49	6.28
노르웨이	0.62	0.89	1.29	1.51	1.17	1.40	1.26	1.32
스웨덴	0.44	0.63	0.77	0.84	0.66	0.78	0.60	0.62
프랑스	0.60	0.74	0.57	0.71	0.63	0.58	0.70	0.61
이탈리아	0.43	0.48	0.34	0.47	0.51	0.41	0.52	0.57
스위스	0.31	0.36	0.32	0.39	0.36	0.38	0.38	0.37
독립국가연합	1.32	1.96	2.25	2.22	2.17	2.10	2.25	2.16
러시아	-	-	0.08	0.08	0.08	0.08	0.08	0.08
카자흐스탄	n/a	n/a	0.07	0.08	0.08	0.07	0.07	0.08
중동	0.04	0.10	0.16	0.11	0.17	0.21	0.23	0.19
이란	0.03	0.06	0.08	0.04	0.10	0.12	0.14	0.14
아프리카	0.29	0.51	0.61	0.80	1.08	1.10	1.15	1.21
동아프리카	0.12	0.19	0.23	0.33	0.54	0.57	0.61	0.64
아시아-태평양	1.92	2.91	4.25	5.55	10.97	12.46	13.44	14.86
중국	0.26	0.62	1.35	2.37	7.11	8.52	8.92	10.33
인도	0.32	0.59	0.71	0.82	1.09	1.14	1.29	1.36
일본	0.80	0.94	0.93	0.90	0.88	0.76	0.78	0.80
베트남	0.01	0.02	0.06	0.15	0.29	0.53	0.57	0.61
한국	0.01	0.02	0.05	0.04	0.04	0.04	0.04	0.03

자료: BP Statistical Review of World Energy 2021

2-16. Hydro Energy Consumption by Country

Unit: EJ(Exajoules)

2015	2016	2017	2018	2019	2020	2021	'21년 점유율 Share of total 2021	
37.60	38.67	38.99	39.84	40.15	41.09	40.26	100.0%	Total World
23.81	24.70	25.14	25.74	26.42	27.07	26.69	66.3%	Non-OECD
13.79	13.97	13.85	14.10	13.73	14.02	13.57	33.7%	OECD
3.24	3.30	2.79	3.26	3.02	3.25	3.24	8.1%	European Union
6.39	6.55	6.93	6.74	6.56	6.58	6.34	15.8%	Total North America
3.71	3.71	3.78	3.68	3.62	3.65	3.59	8.9%	Canada
2.39	2.54	2.84	2.76	2.71	2.67	2.43	6.0%	United States
0.30	0.30	0.31	0.31	0.22	0.25	0.33	0.8%	Mexico
6.43	6.55	6.72	6.76	6.57	6.54	6.22	15.4%	Total S. & Cent. America
3.49	3.67	3.55	3.70	3.78	3.75	3.42	8.5%	Brazil
0.43	0.45	0.55	0.54	0.52	0.47	0.56	1.4%	Colombia
0.72	0.60	0.67	0.55	0.47	0.58	0.58	1.4%	Venezuela
0.31	0.29	0.30	0.31	0.26	0.22	0.18	0.5%	Argentina
0.23	0.23	0.28	0.29	0.30	0.29	0.30	0.7%	Peru
6.17	6.28	5.60	6.16	5.97	6.22	6.12	15.2%	Total Europe
1.33	1.37	1.36	1.32	1.19	1.33	1.35	3.3%	Norway
0.73	0.60	0.62	0.59	0.62	0.68	0.67	1.7%	Sweden
0.53	0.58	0.47	0.61	0.53	0.58	0.55	1.4%	France
0.43	0.39	0.33	0.47	0.45	0.43	0.41	1.0%	Italy
0.37	0.33	0.33	0.33	0.36	0.35	0.34	0.9%	Switzerland
2.09	2.27	2.30	2.33	2.36	2.49	2.51	6.2%	Total CIS
0.09	0.11	0.11	0.10	0.09	0.09	0.09	0.2%	Russia
0.08	0.11	0.10	0.09	0.09	0.09		0.2%	Kazakhstan
0.16	0.19	0.20	0.12	0.38	0.27	0.18	0.5%	Total Middle East
0.13	0.15	0.17	0.09	0.32	0.22	0.14	0.3%	Iran
1.17	1.13	1.21	1.28	1.32	1.38	1.45	3.6%	Total Africa
0.63	0.60	0.62	0.66	0.65	0.69	0.73	1.8%	Eastern Africa
15.19	15.70	16.04	16.45	17.00	17.61	17.44	43.3%	Total Asia Pacific
10.80	11.11	11.16	11.42	12.08	12.50	12.25	30.4%	China
1.29	1.24	1.30	1.33	1.54	1.55	1.51	3.8%	India
0.83	0.77	0.76	0.77	0.70	0.73	0.73	1.8%	Japan
0.55	0.62	0.84	0.80	0.63	0.69	0.71	1.8%	Vietnam
0.02	0.03	0.03	0.03	0.03	0.04	0.03	0.1%	South Korea

Source: BP Statistical Review of World Energy 2021

2-17. 국별 발전 전력량

단위: TWh

	1985	1990	1995	2000	2005	2010	2015	2016
전세계	9,883.2	11,961.1	13,382.5	15,564.2	18,465.4	21,581.3	24,292.0	24,924.2
Non-OECD	3,322.8	4,149.0	4,665.3	5,656.7	7,728.4	10,518.7	13,287.9	13,842.0
OECD	6,560.3	7,812.1	8,717.2	9,907.5	10,737.1	11,062.5	11,004.1	11,082.2
유럽연합	2,022.1	2,274.1	2,409.4	2,659.9	2,928.9	2,982.3	2,897.9	2,919.1
북미	3,212.4	3,831.0	4,275.6	4,859.7	5,191.2	5,276.8	5,318.4	5,331.1
미국	2,657.2	3,232.8	3,567.3	4,052.3	4,322.8	4,394.3	4,348.7	4,347.9
캐나다	459.0	480.6	557.9	603.8	620.5	607.0	659.3	663.7
멕시코	96.2	117.6	150.4	203.6	248.0	275.6	310.3	319.4
중남미	407.8	508.6	646.4	808.8	943.3	1,140.5	1,298.2	1,305.2
브라질	193.7	222.8	275.6	348.9	403.0	515.8	581.2	578.9
아르헨티나	45.3	51.0	67.2	89.0	105.8	126.0	145.4	147.2
유럽	2,882.9	3,211.7	3,279.4	3,619.6	3,959.9	4,065.4	3,981.4	4,020.4
독일	522.5	549.9	536.8	576.5	622.5	632.7	646.1	648.2
프랑스	343.5	420.8	494.3	540.0	576.1	569.3	571.7	556.2
영국	298.1	319.7	337.4	377.1	398.4	382.1	338.9	339.2
터키	34.2	57.5	86.2	124.9	162.0	211.2	261.8	274.4
이탈리아	185.7	216.9	241.5	276.6	303.7	302.1	283.0	289.8
독립국가연합	1,213.7	1,363.7	1,068.3	1,071.7	1,180.6	1,284.0	1,340.9	1,369.3
러시아	962.0	1,082.2	860.0	877.8	954.1	1,038.0	1,067.5	1,091.0
카자흐스탄	81.3	87.4	66.7	51.6	67.9	82.6	91.6	94.6
중동	183.5	258.2	354.4	478.3	658.5	883.9	1,121.7	1,147.0
사우디아라비아	51.7	79.9	109.9	138.7	191.1	240.1	338.8	337.4
이란	38.9	57.7	84.4	119.3	177.1	235.7	280.2	286.1
아프리카	259.0	318.8	362.8	440.2	560.4	672.7	790.5	800.1
남아공	143.5	167.2	186.7	210.7	244.9	259.6	250.4	253.1
이집트	30.3	42.0	50.7	73.3	104.9	144.4	181.8	188.2
아시아-태평양	1,723.9	2,469.2	3,395.6	4,286.0	5,971.5	8,258.0	10,440.9	10,951.1
중국	410.7	621.2	1,007.0	1,355.6	2,500.3	4,207.2	5,814.6	6,133.2
인도	186.4	287.8	427.1	571.4	704.5	937.5	1,322.1	1,401.7
일본	672.0	881.5	1,010.9	1,099.7	1,153.1	1,156.0	1,030.1	1,035.1
한국	62.7	118.5	203.5	290.4	389.5	495.0	547.8	561.0
인도네시아	16.4	33.1	54.1	93.3	127.6	169.8	234.0	247.9
대만	55.6	90.2	133.1	184.8	227.5	247.1	258.1	264.1

주: 출력기준

자료: BP Statistical Review of World Energy 2021

2-17. Power Generation by Country

Unit: TWh

2017	2018	2019	2020	2021	'21년 점유율 Share of total 2021	
25,647.7	26,677.3	27,036.6	26,889.2	28,466.3	100.0%	Total World
14,523.4	15,366.4	15,845.3	15,988.5	17,256.1	60.6%	Non-OECD
11,124.4	11,310.9	11,191.3	10,900.7	11,210.2	39.4%	OECD
2,951.4	2,935.3	2,894.0	2,779.0	2,895.3	10.2%	European Union
5,292.2	5,452.5	5,406.5	5,259.7	5,383.5	18.9%	Total North America
4,302.5	4,461.6	4,411.2	4,284.8	4,406.4	15.5%	United States
664.5	655.8	650.8	649.1	641.0	2.3%	Canada
325.1	335.1	344.6	325.7	336.0	1.2%	Mexico
1,305.7	1,319.0	1,327.3	1,302.5	1,364.8	4.8%	Total S. & Cent. America
589.3	601.4	626.3	621.3	654.4	2.3%	Brazil
145.6	146.8	139.5	144.6	152.5	0.5%	Argentina
4,060.2	4,063.1	3,993.4	3,879.0	4,032.5	14.2%	Total Europe
651.4	640.2	607.0	573.6	584.5	2.1%	Germany
554.0	574.0	562.8	523.7	547.2	1.9%	France
338.2	332.7	323.8	312.0	309.9	1.1%	United Kingdom
297.3	304.8	303.9	306.7	333.3	1.2%	Turkey
295.8	289.7	293.9	280.5	287.2	1.0%	Italy
1,383.0	1,416.4	1,428.8	1,400.7	1,488.0	5.2%	Total CIS
1,091.2	1,109.2	1,118.1	1,085.4	1,157.1	4.1%	Russia
103.1	107.3	106.5	108.6	114.4	0.4%	Kazakhstan
1,204.3	1,204.2	1,229.3	1,243.0	1,305.6	4.6%	Total Middle East
354.4	334.9	335.4	338.0	356.6	1.3%	Saudi Arabia
305.2	312.4	318.9	337.2	357.8	1.3%	Iran
826.6	849.7	867.6	855.1	897.5	3.2%	Total Africa
255.4	256.3	252.6	239.5	244.3	0.9%	South Africa
193.2	199.4	200.6	198.6	209.7	0.7%	Egypt
11,575.6	12,372.4	12,783.7	12,949.3	13,994.4	49.2%	Total Asia Pacific
6,604.4	7,166.1	7,503.4	7,779.1	8,534.3	30.0%	China
1,471.3	1,579.2	1,622.1	1,563.3	1,714.8	6.0%	India
1,042.1	1,053.2	1,025.8	997.0	1,019.7	3.6%	Japan
576.4	592.9	586.8	575.3	600.4	2.1%	South Korea
254.7	283.8	295.4	291.8	309.4	1.1%	Indonesia
270.3	275.5	274.2	280.0	290.9	1.0%	Taiwan

Note: Based on gross output
Source: BP Statistical Review of World Energy 2021



9. 에너지밸런스

Energy Balances



에너지밸런스 별도 첨부



10. 개정전 에너지밸런스

Pre-revision Energy Balance



1. 주요 에너지 지표

	에너지수급 Energy Supply & Demand		일차에너지원별 구성비 Shares of Primary Energy					
	일차에너지 Primary Energy	최종에너지 Final Energy	석탄 Coal	석유 Petroleum	액화천연가스 LNG	수력 Hydro	원자력 Nuclear	신재생 및 기타 ³ Renewables & Others ³
	1,000 toe		%					
1981	45,718	38,952	33.3	58.1	-	1.5	1.6	5.5
1982	45,625	38,711	33.9	57.7	-	1.1	2.1	5.3
1983	49,420	41,337	33.4	55.9	-	1.4	4.5	4.8
1984	53,535	44,998	37.1	51.6	-	1.1	5.5	4.7
1985	56,296	46,998	39.1	48.2	-	1.6	7.4	3.6
1986	61,462	50,524	38.0	46.4	0.1	1.6	11.5	2.4
1987	67,878	55,197	34.8	43.7	3.1	2.0	14.5	1.9
1988	75,351	61,033	33.4	47.0	3.6	1.2	13.3	1.5
1989	81,660	65,875	30.0	49.6	3.2	1.4	14.5	1.3
1990	92,931	74,701	26.0	54.0	3.3	1.7	14.2	0.9
1991	103,294	83,336	23.4	57.7	3.4	1.2	13.6	0.6
1992	115,962	94,403	20.3	61.9	4.0	1.0	12.2	0.6
1993	126,836	103,850	20.4	61.9	4.5	1.2	11.5	0.6
1994	137,108	111,787	19.4	63.0	5.6	0.7	10.7	0.7
1995	149,927	121,400	18.3	62.7	6.1	0.9	11.2	0.7
1996	165,136	131,573	19.4	60.5	7.4	0.8	11.2	0.7
1997	181,058	144,541	19.3	60.4	8.2	0.7	10.6	0.7
1998	166,265	132,177	21.7	54.7	8.3	0.9	13.5	0.9
1999	181,651	143,027	21.0	53.7	9.3	0.8	14.2	1.0
2000	193,240	149,958	22.2	52.1	9.8	0.7	14.1	1.1
2001	198,865	153,103	23.0	50.7	10.5	0.5	14.1	1.2
2002	209,290	160,876	23.5	49.2	11.0	0.6	14.2	1.4
2003	215,772	164,550	23.7	47.8	11.2	0.8	15.0	1.5
2004	220,756	166,452	24.1	45.8	12.8	0.7	14.8	1.8
2005	229,667	171,543	23.9	44.5	13.4	0.6	16.0	1.7
2006	234,062	174,873	24.2	43.8	13.7	0.6	15.9	1.9
2007	236,486	182,015	25.2	44.7	14.6	0.5	13.0	2.0
2008	240,994	183,054	27.4	41.6	14.8	0.5	13.5	2.2
2009	243,500	182,080	28.2	42.1	13.9	0.5	13.0	2.3
2010	264,053	195,401	29.2	39.6	16.3	0.5	12.1	2.3
2011	276,998	205,241	30.2	38.1	16.7	0.6	12.0	2.4
2012	278,330	206,974	29.0	38.1	18.0	0.6	11.4	2.9
2013	279,637	208,376	29.2	37.7	18.8	0.6	10.5	3.2
2014	282,453	210,477	29.9	37.0	16.9	0.6	11.7	3.9
2015	286,979	215,447	29.8	38.0	15.2	0.4	12.1	4.5
2016	293,869	222,027	27.7	40.0	15.5	0.5	11.6	4.7
2017	302,646	231,179	28.5	39.6	15.7	0.5	10.4	5.3
2018	307,774	233,585	28.2	38.5	17.9	0.5	9.2	5.6
2019	303,359	231,621	27.1	38.7	17.6	0.4	10.2	5.9
2020	292,076	222,563	24.7	37.7	18.8	0.5	11.7	6.5
2021	307,312	237,360	23.6	38.4	19.5	0.5	11.0	7.1

1. GDP는 연쇄가격기준

2. ()는 원자력 발전을 국내생산으로 간주하여 수입에너지에서 제외시 수입의존도

3. 기타: 폐기물을 이용하여 제조한 것

1. Major Energy Indicators

1인당 에너지소비량	GDP단위당 일차에너지(2015년 기준) ¹			수입의존도 ²	
Per Capita Energy	TPES/GDP ¹		지수 Index	Overseas Dependence ²	
toe	toe/Mil.KRW	toe/1,000 USD	2015=100	%	
1.18	0.244	0.276	140.8	75.0 (73.4)	1981
1.16	0.225	0.254	129.7	74.3 (72.2)	1982
1.24	0.214	0.243	123.9	74.6 (70.1)	1983
1.32	0.210	0.238	121.4	75.2 (69.7)	1984
1.38	0.205	0.232	118.4	76.2 (68.8)	1985
1.49	0.201	0.227	116.1	78.2 (66.7)	1986
1.63	0.197	0.223	113.8	80.0 (65.6)	1987
1.79	0.195	0.221	112.8	83.2 (69.9)	1988
1.92	0.198	0.224	114.1	85.5 (71.0)	1989
2.17	0.205	0.232	118.2	87.8 (73.6)	1990
2.39	0.205	0.232	118.6	91.2 (77.6)	1991
2.65	0.217	0.246	125.4	93.6 (81.4)	1992
2.87	0.222	0.251	128.3	94.7 (83.3)	1993
3.07	0.220	0.249	127.0	96.4 (85.7)	1994
3.32	0.219	0.248	126.6	96.8 (85.6)	1995
3.63	0.224	0.253	129.3	97.3 (86.1)	1996
3.94	0.231	0.262	133.5	97.6 (87.0)	1997
3.59	0.224	0.253	129.2	97.1 (83.6)	1998
3.90	0.219	0.248	126.7	97.2 (83.0)	1999
4.11	0.214	0.242	123.6	97.2 (83.1)	2000
4.20	0.210	0.238	121.3	97.3 (83.2)	2001
4.39	0.205	0.232	118.5	97.1 (82.9)	2002
4.51	0.205	0.232	118.4	96.9 (81.9)	2003
4.59	0.199	0.226	115.2	96.6 (81.8)	2004
4.77	0.199	0.225	114.9	96.6 (80.7)	2005
4.83	0.192	0.218	111.2	96.5 (80.6)	2006
4.86	0.184	0.208	106.2	96.6 (83.6)	2007
4.91	0.182	0.206	105.1	96.5 (83.0)	2008
4.94	0.182	0.206	105.3	96.5 (83.4)	2009
5.33	0.185	0.209	106.9	96.5 (84.4)	2010
5.55	0.187	0.212	108.2	96.5 (84.5)	2011
5.54	0.184	0.208	106.2	96.0 (84.6)	2012
5.55	0.179	0.202	103.4	95.7 (85.2)	2013
5.57	0.175	0.198	101.2	95.2 (83.5)	2014
5.63	0.173	0.196	100.0	94.8 (82.7)	2015
5.74	0.172	0.195	99.5	94.6 (83.0)	2016
5.89	0.172	0.194	99.3	93.9 (83.5)	2017
5.97	0.170	0.192	98.1	93.6 (84.4)	2018
5.86	0.164	0.185	94.6	93.4 (83.2)	2019
5.63	0.159	0.180	91.9	92.8 (81.1)	2020
5.94	0.161	0.182	92.9	92.3 (81.3)	2021

1. GDP is based on chained prices

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

3. Others: The energy source is manufactured from the waste

2. 에너지 수출입

	수입 Imports				
	석탄 Coal				소계 Subtotal
	소계 Subtotal	무연탄 Anthracite	유연탄 Bituminous	기타석탄 Others	
	1,000 ton				1,000 bbl
1981	11,538	4,293	7,245	-	195,977
1982	11,331	2,292	9,039	-	198,159
1983	10,989	838	10,151	-	214,585
1984	13,103	909	12,194	-	224,075
1985	19,961	2,830	17,131	-	222,408
1986	21,012	4,575	16,437	-	261,606
1987	21,325	3,491	17,834	-	264,499
1988	24,830	2,707	21,913	210	302,126
1989	25,461	1,527	23,500	434	341,854
1990	24,117	1,072	22,844	200	409,616
1991	29,602	1,410	28,017	175	497,197
1992	30,649	809	29,207	634	645,997
1993	36,590	783	34,853	953	728,322
1994	40,144	699	38,550	895	764,504
1995	44,317	723	42,601	993	830,373
1996	46,507	875	45,136	496	937,051
1997	50,933	722	49,312	899	1,059,226
1998	52,437	789	50,566	1,082	994,989
1999	53,722	1,139	51,101	1,482	1,058,580
2000	64,169	2,038	59,600	2,531	1,098,244
2001	67,035	3,110	61,856	2,069	1,064,148
2002	70,473	3,879	64,640	1,954	1,019,549
2003	72,153	4,640	65,318	2,195	1,024,706
2004	79,697	4,251	72,103	3,342	1,020,900
2005	77,153	4,567	69,330	3,256	1,022,557
2006	80,067	5,113	70,888	4,066	1,080,354
2007	88,899	5,444	79,355	4,100	1,081,671
2008	100,398	5,955	90,470	3,973	1,089,486
2009	103,309	6,468	92,952	3,890	1,103,299
2010	119,304	7,406	106,096	5,802	1,149,264
2011	129,711	8,816	116,118	4,777	1,206,304
2012	126,036	8,055	114,645	3,336	1,256,891
2013	126,994	8,482	116,220	2,292	1,244,280
2014	131,563	8,294	117,873	5,396	1,254,147
2015	135,680	8,938	119,392	7,350	1,333,982
2016	134,930	9,424	118,468	7,038	1,412,727
2017	148,677	7,003	131,464	10,210	1,432,654
2018	149,171	8,201	131,520	9,450	1,457,909
2019	141,792	6,858	132,667	2,266	1,424,070
2020	123,999	6,286	115,486	2,227	1,327,635
2021	117,038	6,475	108,044	2,519	1,352,464

자료: 한국무역협회, 한국석유공사

2. Energy Exports and Imports

수입 Imports				수출 Exports	
석유 Petroleum		액화천연가스	우라늄	석유제품	
원 유 Crude Oil	석유제품 Petroleum Products	LNG	Uranium	Petroleum Products	
1,000 bbl		1,000 ton	ton U	1,000 bbl	
182,816	13,161	-	90	3,084	1981
178,369	19,790	-	89	6,904	1982
192,888	21,697	-	111	16,421	1983
199,682	24,393	-	174	24,053	1984
198,313	24,095	-	207	26,440	1985
230,063	31,543	117	229	27,261	1986
216,163	48,336	1,682	342	32,510	1987
260,179	41,947	2,063	300	31,247	1988
292,584	49,270	2,014	270	34,802	1989
308,368	101,248	2,291	170	27,184	1990
387,156	110,041	2,758	205	69,744	1991
508,986	137,011	3,425	138	91,653	1992
560,563	167,759	4,454	354	103,493	1993
573,714	190,790	5,928	313	93,132	1994
624,945	205,428	7,060	310	122,630	1995
721,927	215,124	9,595	378	158,329	1996
873,415	185,811	11,629	449	231,050	1997
819,094	175,895	10,600	844	296,682	1998
874,090	184,490	12,973	612	297,899	1999
893,943	204,301	14,578	576	306,293	2000
859,367	204,781	16,164	723	295,010	2001
790,992	228,557	17,470	778	239,127	2002
804,809	219,897	19,434	750	209,079	2003
825,790	195,110	22,153	808	235,506	2004
843,203	179,354	22,341	714	262,647	2005
888,794	191,560	25,222	737	289,070	2006
872,541	209,130	25,568	823	292,072	2007
864,872	224,614	27,259	883	333,764	2008
835,085	268,214	25,822	913	330,912	2009
872,415	276,849	32,603	824	341,784	2010
927,044	279,260	36,685	907	408,338	2011
947,292	309,599	36,184	748	440,897	2012
915,075	329,205	39,876	795	429,291	2013
927,524	326,623	37,107	721	448,822	2014
1,026,107	307,875	33,366	801	477,425	2015
1,078,119	334,608	33,453	752	487,716	2016
1,118,167	314,487	37,537	1,012	509,113	2017
1,116,281	341,628	44,015	723	531,563	2018
1,071,923	352,147	40,748	747	522,099	2019
980,259	347,376	39,982	690	468,529	2020
960,147	392,317	45,932	512	446,559	2021

Source: Korea International Trade Association, Korea National Oil Corporation

3. 에너지 수입액

단위: 백만 달러(CIF)

	국가총수입 Total Imports (A)	에너지 수입 Energy Imports (B)	석탄 Coal				
			B/A(%)	소계 Subtotal	무연탄 Anthracite	유연탄 Bituminous	기타석탄 ¹ Others ¹
1981	26,131	7,763	29.7	818	302	484	31
1982	24,251	7,580	31.3	785	165	601	19
1983	26,192	6,936	26.5	654	49	588	17
1984	30,631	7,263	23.7	726	46	663	17
1985	31,136	7,322	23.5	1,043	138	890	15
1986	31,584	4,995	15.8	1,028	214	798	16
1987	41,020	5,926	14.4	991	149	828	15
1988	51,811	5,920	11.4	1,166	129	1,021	16
1989	61,465	7,516	12.2	1,307	75	1,212	19
1990	69,844	10,908	15.6	1,288	52	1,217	19
1991	81,525	12,754	15.6	1,600	66	1,514	20
1992	81,775	14,654	17.9	1,616	42	1,535	39
1993	83,800	15,088	18.0	1,733	40	1,643	50
1994	102,348	15,471	15.1	1,777	33	1,695	48
1995	135,119	19,053	14.1	2,081	35	1,992	54
1996	150,339	24,243	16.1	2,337	46	2,251	40
1997	144,616	27,308	18.9	2,399	38	2,301	60
1998	93,282	18,276	19.6	2,229	36	2,147	46
1999	119,752	22,745	19.0	1,966	46	1,866	53
2000	160,481	37,888	23.6	2,186	72	2,033	80
2001	141,098	33,894	24.0	2,347	118	2,157	72
2002	152,126	32,290	21.2	2,475	148	2,254	72
2003	178,827	38,306	21.4	2,552	177	2,266	109
2004	224,463	49,600	22.1	4,438	233	3,891	314
2005	261,238	66,697	25.5	5,443	429	4,803	211
2006	309,383	85,566	27.7	5,318	407	4,700	211
2007	356,846	94,978	26.6	6,445	447	5,675	323
2008	435,275	141,475	32.5	12,810	991	11,156	663
2009	323,085	91,160	28.2	9,995	672	8,997	326
2010	425,212	121,654	28.6	13,131	1,016	11,425	690
2011	524,413	172,490	32.9	18,477	1,774	16,052	651
2012	519,584	184,800	35.6	16,069	1,361	14,221	488
2013	515,586	178,698	34.7	13,074	1,143	11,624	307
2014	525,515	174,137	33.1	12,114	921	10,723	471
2015	436,499	102,715	23.5	9,961	813	8,675	474
2016	406,193	80,942	19.9	9,310	759	8,168	383
2017	478,478	109,466	22.9	15,179	933	13,481	765
2018	535,202	145,970	27.3	16,703	1,199	14,668	835
2019	503,343	126,701	25.2	14,209	927	13,062	219
2020	467,633	86,554	18.5	9,596	611	8,805	181
2021	615,093	137,200	22.3	14,699	889	13,485	325

1. 기타석탄에 갈탄, 토탄 포함

자료: 한국무역협회

3. Import Amount of Energy

Unit : Million USD(CIF)

석 유 Petroleum					액화천연가스 LNG	우라늄 Uranium	
소계 Subtotal	원 유 Crude Oil	나프타 Naphtha	액화석유가스 LPG	기타제품 Others			
6,922	6,371	58	29	464	0	23	1981
6,781	6,097	50	68	567	0	14	1982
6,274	5,572	174	109	418	0	8	1983
6,518	5,771	143	134	470	0	19	1984
6,257	5,572	152	130	404	0	22	1985
3,931	3,346	135	114	337	13	24	1986
4,651	3,702	179	121	648	284	0	1987
4,431	3,688	120	178	446	323	0	1988
5,861	4,933	117	203	608	347	1	1989
9,160	6,386	338	389	2,046	460	1	1990
10,585	8,134	622	449	1,381	485	84	1991
12,378	9,548	1,057	596	1,177	562	98	1992
12,439	9,151	1,180	601	1,506	781	135	1993
12,542	8,878	1,227	600	1,837	961	191	1994
15,482	10,809	1,367	896	2,409	1,275	215	1995
19,826	14,432	1,674	1,019	2,702	1,878	201	1996
22,378	17,772	1,874	1,252	1,480	2,296	236	1997
14,284	11,241	1,780	694	568	1,549	214	1998
18,585	14,783	1,970	1,029	804	1,973	222	1999
31,594	25,216	3,396	1,467	1,516	3,882	225	2000
27,323	21,368	3,255	1,219	1,481	3,990	233	2001
25,414	19,200	3,084	1,248	1,883	4,120	280	2002
30,407	23,082	4,122	1,338	1,865	5,082	265	2003
38,274	29,917	5,552	1,509	1,295	6,552	336	2004
52,321	42,606	6,543	1,933	1,240	8,646	286	2005
67,984	55,865	8,143	2,560	1,416	11,925	339	2006
75,390	60,324	10,683	3,097	1,286	12,653	489	2007
108,130	85,855	15,395	4,741	2,139	19,806	729	2008
66,568	50,757	10,687	3,046	2,078	13,875	722	2009
90,903	68,662	14,953	4,313	2,975	17,006	615	2010
129,346	100,806	18,861	5,657	4,023	23,859	807	2011
140,671	108,298	20,498	5,576	6,299	27,364	695	2012
133,961	99,333	21,650	5,089	7,889	30,645	1,018	2013
129,890	94,907	21,845	4,850	8,288	31,403	731	2014
73,106	55,120	11,662	2,638	3,686	18,779	869	2015
58,873	44,295	8,933	2,576	3,069	12,170	589	2016
77,680	59,603	10,899	2,959	4,219	15,616	991	2017
105,502	80,393	15,671	3,665	5,773	23,189	576	2018
91,190	70,252	13,542	3,399	3,997	20,567	736	2019
60,493	44,456	9,985	3,086	2,967	15,716	748	2020
96,304	67,013	18,705	5,206	5,381	25,453	744	2021

1. Includes brown coal and peat in others
Source: Korea International Trade Association

4. 일차에너지 공급구조

	일차에너지 공급 TPES	생산 Production				
		소계 Subtotal	무연탄 Anthracite	액화천연가스 LNG	수력 Hydro	신재생 및 기타 ¹ Renewables & Others ¹
		1,000 toe	1,000 ton	1,000 ton	GWh	1,000 toe
1981	45,718	11,418 (12,142)	17,932	-	2,709	2,492
1982	45,625	11,726 (12,670)	19,148	-	2,004	2,417
1983	49,420	12,533 (14,774)	20,596	-	2,723	2,378
1984	53,535	13,277 (16,225)	22,143	-	2,399	2,492
1985	56,296	13,393 (17,579)	22,711	-	3,659	2,031
1986	61,462	13,375 (20,453)	23,674	-	4,019	1,480
1987	67,878	13,553 (23,381)	23,692	-	5,344	1,319
1988	75,351	12,669 (22,694)	23,586	-	3,566	1,164
1989	81,660	11,827 (23,668)	21,455	-	4,558	1,033
1990	92,931	11,298 (24,520)	19,802	-	6,361	797
1991	103,294	9,048 (23,126)	15,928	-	5,051	618
1992	115,962	7,467 (21,600)	12,287	-	4,863	722
1993	126,836	6,672 (21,206)	9,840	-	6,006	742
1994	137,108	4,998 (19,661)	6,817	-	4,098	906
1995	149,927	4,835 (21,592)	5,367	-	5,478	1,050
1996	165,136	4,444 (22,925)	4,406	-	5,201	1,161
1997	181,058	4,342 (23,613)	3,659	-	5,404	1,344
1998	166,265	4,766 (27,188)	3,812	-	6,099	1,526
1999	181,651	5,034 (30,800)	3,803	-	6,066	1,806
2000	193,240	5,404 (32,645)	4,159	-	5,610	2,130
2001	198,865	5,305 (33,339)	4,027	-	4,151	2,456
2002	209,290	5,966 (35,742)	3,808	-	5,309	2,925
2003	215,772	6,728 (39,146)	3,924	-	6,887	3,241
2004	220,756	7,397 (40,075)	3,871	163	5,861	3,977
2005	229,667	7,732 (44,427)	4,347	398	5,189	3,961
2006	234,062	8,192 (45,380)	4,596	355	5,219	4,358
2007	236,486	8,141 (38,873)	4,035	271	5,042	4,828
2008	240,994	8,553 (41,008)	4,134	181	5,563	5,198
2009	243,500	8,639 (40,410)	3,114	383	5,641	5,480
2010	264,053	9,161 (41,109)	2,508	415	6,472	6,064
2011	276,998	9,795 (43,061)	2,239	347	7,831	6,619
2012	278,330	11,122 (42,841)	2,288	334	7,652	8,041
2013	279,637	12,160 (41,443)	2,054	355	8,394	9,001
2014	282,453	13,696 (46,698)	1,642	247	7,820	10,985
2015	286,979	15,001 (49,766)	1,541	144	5,796	12,897
2016	293,869	15,837 (50,018)	1,373	118	6,634	13,666
2017	302,646	18,423 (50,038)	1,244	261	6,995	16,004
2018	307,774	19,709 (48,146)	1,099	234	7,270	17,336
2019	303,359	20,021 (51,100)	1,008	198	6,247	17,955
2020	292,076	21,110 (55,229)	886	142	7,148	18,983
2021	307,312	23,661 (57,318)	849	42	6,737	21,769

1. 기타: 폐기물을 이용하여 제조한 것

주: () 안 수치는 원자력발전용 국내생산에 포함된 수치임

4. Primary Energy Supply Structure

수입 Import						
소계 Subtotal	석탄 Coal	석유 Petroleum	원자력 Nuclear	액화천연가스 LNG		
1,000 toe	1,000 ton	1,000 bbl	GWh	1,000 ton		
34,300 (33,576)	10,916	180,053	2,897	-	1981	
33,898 (32,954)	10,221	178,894	3,776	-	1982	
36,887 (34,646)	10,732	189,308	8,965	-	1983	
40,258 (37,310)	14,861	191,049	11,792	-	1984	
42,903 (38,717)	17,822	189,190	16,745	-	1985	
48,087 (41,009)	19,204	200,591	28,311	54	1986	
54,325 (44,497)	19,612	210,512	39,314	1,621	1987	
62,682 (52,657)	22,320	250,558	40,101	2,094	1988	
69,833 (57,992)	22,683	287,150	47,365	2,027	1989	
81,633 (68,411)	23,168	356,339	52,887	2,329	1990	
94,246 (80,168)	25,907	424,667	56,311	2,694	1991	
108,494 (94,362)	27,444	514,223	56,530	3,524	1992	
120,165 (105,630)	32,531	564,575	58,138	4,402	1993	
132,110 (117,447)	35,602	621,471	58,651	5,860	1994	
145,092 (128,335)	38,058	677,187	67,029	7,087	1995	
160,693 (142,211)	45,715	721,038	73,924	9,363	1996	
176,717 (157,445)	50,497	793,877	77,086	11,379	1997	
161,499 (139,077)	52,099	670,232	89,689	10,645	1998	
176,617 (150,851)	55,329	719,656	103,064	12,961	1999	
187,836 (160,595)	62,387	742,556	108,964	14,557	2000	
193,560 (165,527)	66,817	743,666	112,133	15,990	2001	
203,323 (173,548)	72,201	762,867	119,102	17,766	2002	
209,043 (176,625)	75,209	762,940	129,672	18,610	2003	
213,359 (180,680)	78,362	750,303	130,715	21,645	2004	
221,935 (185,240)	80,486	761,065	146,779	23,234	2005	
225,870 (188,683)	83,174	765,483	148,749	24,264	2006	
228,345 (197,613)	90,092	794,879	142,937	26,245	2007	
232,442 (199,986)	100,126	760,390	150,958	27,258	2008	
234,862 (203,091)	105,261	778,222	147,771	25,699	2009	
254,892 (222,944)	118,610	794,030	148,596	32,669	2010	
267,203 (233,938)	128,703	801,409	154,723	35,256	2011	
267,208 (235,489)	125,899	825,167	150,327	38,151	2012	
267,478 (238,194)	127,530	821,374	138,784	39,923	2013	
268,757 (235,755)	131,682	818,290	156,407	36,389	2014	
271,977 (237,212)	133,544	853,096	164,762	33,293	2015	
278,031 (243,850)	127,936	921,082	161,995	34,788	2016	
284,223 (252,608)	138,506	939,785	148,427	36,138	2017	
288,064 (259,627)	139,951	931,787	133,505	42,051	2018	
283,338 (252,259)	131,999	927,062	145,910	40,792	2019	
270,966 (236,847)	115,685	872,362	160,184	41,949	2020	
283,652 (249,994)	115,940	934,002	158,015	45,802	2021	

1. Others: The energy source is manufactured from the waste

Note: Figures in parentheses () are including nuclear generation in domestic production

5. 일차에너지 공급(고유단위)

	석탄 Coal			석유 Petroleum			
	소계 Subtotal	무연탄 Anthracite	유연탄 Bituminous	소계 Subtotal	에너지유 Energy Use	액화석유가스 LPG	비에너지유 Non-Energy Use
	1,000 ton			1,000 bbl			
1981	28,848	21,414	7,434	180,053	152,306	4,962	22,785
1982	29,369	20,866	8,503	178,894	149,276	7,225	22,393
1983	31,328	21,695	9,633	189,308	153,582	9,930	25,796
1984	37,004	24,259	12,745	191,049	150,388	12,201	28,460
1985	40,533	25,836	14,697	189,190	145,488	14,247	29,456
1986	42,878	27,588	15,290	200,591	150,000	17,585	33,007
1987	43,304	27,086	16,218	210,512	154,368	21,216	34,927
1988	45,906	26,632	19,274	250,558	187,057	25,904	37,596
1989	44,138	23,670	20,468	287,150	218,770	30,329	38,051
1990	42,970	21,091	21,878	356,339	267,514	35,712	53,114
1991	41,835	17,424	24,411	424,667	308,488	43,131	73,048
1992	39,731	13,490	26,242	514,223	352,827	53,917	107,479
1993	42,371	10,819	31,552	564,575	386,698	59,437	118,440
1994	42,419	7,360	35,059	621,471	424,648	63,452	133,371
1995	43,425	5,999	37,426	677,187	468,988	66,468	141,731
1996	50,121	5,312	44,809	721,038	499,935	68,441	152,662
1997	54,156	4,444	49,712	793,877	507,196	71,623	215,059
1998	55,911	4,650	51,261	670,232	370,807	67,992	231,433
1999	59,132	4,995	54,137	719,656	405,863	77,007	236,786
2000	66,546	6,200	60,346	742,556	409,671	84,688	248,196
2001	70,843	7,141	63,703	743,666	404,726	84,377	254,563
2002	76,009	7,735	68,274	762,867	402,143	91,415	269,310
2003	79,133	8,584	70,549	762,940	395,123	88,606	279,211
2004	82,233	8,249	73,984	750,303	369,285	88,375	292,643
2005	84,833	9,037	75,796	761,065	367,039	91,668	302,359
2006	87,770	9,769	78,001	765,483	355,843	93,451	316,189
2007	94,127	9,690	84,438	794,879	352,888	97,143	344,848
2008	104,260	10,247	94,013	760,390	319,902	101,881	338,607
2009	108,375	9,585	98,789	778,222	319,607	106,320	352,295
2010	121,118	9,956	111,162	794,030	326,168	105,175	362,688
2011	130,942	11,072	119,870	801,409	312,369	99,201	389,839
2012	128,187	10,315	117,872	825,167	312,704	95,473	416,990
2013	129,584	10,506	119,078	821,374	308,117	93,057	420,201
2014	133,324	9,925	123,399	818,290	295,804	89,577	432,908
2015	135,085	10,539	124,547	853,096	318,724	89,866	444,506
2016	129,309	10,801	118,509	921,082	345,909	108,961	466,212
2017	139,750	8,260	131,490	939,785	341,213	105,145	493,427
2018	141,050	9,272	131,779	931,787	336,162	109,370	486,255
2019	133,007	7,923	125,084	927,062	329,616	122,138	475,308
2020	116,572	7,189	109,382	872,362	302,344	121,294	448,724
2021	116,789	7,324	109,465	934,002	307,052	123,227	503,723

1. 기타: 폐기물을 이용하여 제조한 것

5. Primary Energy Supply(Original Unit)

액화천연가스 LNG	수력 Hydro			원자력 Nuclear	신재생 및 기타 ¹ Renewables & Others ¹	
	소계 Subtotal	일반·소수력 General· Micro hydro	양수 Pumping			
1,000 ton	GWh				1,000 toe	
-	2,709	2,598	111	2,897	2,492	1981
-	2,004	1,715	290	3,776	2,417	1982
-	2,723	2,294	428	8,965	2,378	1983
-	2,399	1,998	401	11,792	2,492	1984
-	3,659	3,185	474	16,745	2,031	1985
54	4,019	3,110	910	28,311	1,480	1986
1,621	5,344	3,965	1,379	39,314	1,319	1987
2,094	3,566	1,987	1,579	40,101	1,164	1988
2,027	4,558	2,964	1,594	47,365	1,033	1989
2,329	6,361	4,684	1,677	52,887	797	1990
2,694	5,051	3,486	1,565	56,311	618	1991
3,524	4,863	3,097	1,766	56,530	722	1992
4,402	6,006	4,228	1,779	58,138	742	1993
5,860	4,098	2,346	1,752	58,651	906	1994
7,087	5,478	2,760	2,718	67,029	1,050	1995
9,363	5,201	2,424	2,777	73,924	1,161	1996
11,379	5,404	2,814	2,590	77,086	1,344	1997
10,645	6,099	4,279	1,820	89,689	1,526	1998
12,961	6,066	4,159	1,907	103,064	1,806	1999
14,557	5,610	4,010	1,600	108,964	2,130	2000
15,990	4,151	2,330	1,821	112,133	2,456	2001
17,766	5,309	3,233	2,078	119,102	2,925	2002
18,610	6,887	4,886	2,001	129,672	3,241	2003
21,809	5,861	4,311	1,550	130,715	3,977	2004
23,632	5,189	3,673	1,516	146,779	3,961	2005
24,619	5,219	3,468	1,751	148,749	4,358	2006
26,516	5,042	3,632	1,411	142,937	4,828	2007
27,439	5,563	3,070	2,493	150,958	5,198	2008
26,083	5,641	2,813	2,828	147,771	5,480	2009
33,083	6,472	3,682	2,790	148,596	6,064	2010
35,603	7,831	4,598	3,233	154,723	6,619	2011
38,485	7,652	3,969	3,683	150,327	8,041	2012
40,278	8,394	4,289	4,105	138,784	9,001	2013
36,636	7,820	2,751	5,068	156,407	10,985	2014
33,438	5,796	2,146	3,650	164,762	12,897	2015
34,906	6,634	2,846	3,787	161,995	13,666	2016
36,398	6,995	2,809	4,186	148,427	16,004	2017
42,285	7,270	3,359	3,911	133,505	17,336	2018
40,991	6,247	2,789	3,458	145,910	17,955	2019
42,091	7,148	3,877	3,271	160,184	18,983	2020
45,844	6,737	3,055	3,683	158,015	21,769	2021

1. Others: The energy source is manufactured from the waste

6. 일차에너지 공급(열량)

단위: 천 toe

	합계		석탄 Coal						석유 Petroleum			
	TFEC	증가율 Growth Rate (%)	소계		무연탄		유연탄		소계		에너지유	
			Subtotal	%	Anthracite	%	Bituminous	%	Subtotal	%	Energy Use	%
1981	45,718	4.1	15,244	33.3	10,338	22.6	4,906	10.7	26,580	58.1	23,110	50.5
1982	45,625	-0.2	15,451	33.9	9,839	21.6	5,612	12.3	26,312	57.7	22,649	49.6
1983	49,420	8.3	16,491	33.4	10,133	20.5	6,358	12.9	27,629	55.9	23,250	47.0
1984	53,535	8.3	19,867	37.1	11,455	21.4	8,412	15.7	27,629	51.6	22,663	42.3
1985	56,296	5.2	22,022	39.1	12,322	21.9	9,700	17.2	27,142	48.2	21,836	38.8
1986	61,462	9.2	23,330	38.0	13,239	21.5	10,091	16.4	28,499	46.4	22,408	36.5
1987	67,878	10.4	23,639	34.8	12,935	19.1	10,704	15.8	29,653	43.7	22,958	33.8
1988	75,351	11.0	25,162	33.4	12,441	16.5	12,721	16.9	35,390	47.0	27,869	37.0
1989	81,660	8.4	24,493	30.0	10,984	13.5	13,509	16.5	40,524	49.6	32,506	39.8
1990	92,931	13.8	24,124	26.0	9,685	10.4	14,440	15.5	50,175	54.0	39,653	42.7
1991	103,294	11.2	24,206	23.4	8,065	7.8	16,141	15.6	59,627	57.7	45,773	44.3
1992	115,962	12.3	23,570	20.3	6,251	5.4	17,319	14.9	71,740	61.9	52,311	45.1
1993	126,836	9.4	25,840	20.4	5,016	4.0	20,824	16.4	78,495	61.9	57,139	45.0
1994	137,108	8.1	26,532	19.4	3,394	2.5	23,139	16.9	86,364	63.0	62,677	45.7
1995	149,927	9.3	27,495	18.3	2,794	1.9	24,701	16.5	94,042	62.7	68,946	46.0
1996	165,136	10.1	32,100	19.4	2,526	1.5	29,574	17.9	99,923	60.5	73,261	44.4
1997	181,058	9.6	34,927	19.3	2,118	1.2	32,810	18.1	109,372	60.4	74,141	40.9
1998	166,265	-8.2	36,051	21.7	2,218	1.3	33,832	20.3	90,904	54.7	53,946	32.4
1999	181,651	9.3	38,157	21.0	2,426	1.3	35,731	19.7	97,556	53.7	59,007	32.5
2000	193,240	6.4	42,925	22.2	3,096	1.6	39,829	20.6	100,618	52.1	59,743	30.9
2001	198,865	2.9	45,724	23.0	3,680	1.9	42,044	21.1	100,827	50.7	59,049	29.7
2002	209,290	5.2	49,131	23.5	4,070	1.9	45,061	21.5	103,034	49.2	58,602	28.0
2003	215,772	3.1	51,124	23.7	4,562	2.1	46,563	21.6	103,073	47.8	57,605	26.7
2004	220,756	2.3	53,198	24.1	4,369	2.0	48,829	22.1	101,085	45.8	53,794	24.4
2005	229,667	4.0	54,795	23.9	4,770	2.1	50,025	21.8	102,197	44.5	53,415	23.3
2006	234,062	1.9	56,652	24.2	5,172	2.2	51,480	22.0	102,555	43.8	51,795	22.1
2007	236,486	1.0	59,653	25.2	5,580	2.4	54,073	22.9	105,718	44.7	50,728	21.5
2008	240,994	1.9	66,100	27.4	5,927	2.5	60,173	25.0	100,373	41.6	45,668	18.9
2009	243,500	1.0	68,595	28.2	5,687	2.3	62,908	25.8	102,534	42.1	45,569	18.7
2010	264,053	8.4	77,142	29.2	6,044	2.3	71,097	26.9	104,499	39.6	46,385	17.6
2011	276,998	4.9	83,687	30.2	6,827	2.5	76,860	27.7	105,459	38.1	44,263	16.0
2012	278,330	0.5	80,636	29.0	5,382	1.9	75,254	27.0	106,134	38.1	43,968	15.8
2013	279,637	0.5	81,544	29.2	5,500	2.0	76,044	27.2	105,515	37.7	43,171	15.4
2014	282,453	1.0	84,399	29.9	5,226	1.9	79,173	28.0	104,643	37.0	41,218	14.6
2015	286,979	1.6	85,401	29.8	5,593	1.9	79,808	27.8	109,090	38.0	44,501	15.5
2016	293,869	2.4	81,499	27.7	5,687	1.9	75,812	25.8	117,605	40.0	48,463	16.5
2017	302,646	3.0	86,177	28.5	4,524	1.5	81,653	27.0	119,824	39.6	47,684	15.8
2018	307,774	1.7	86,707	28.2	5,059	1.6	81,648	26.5	118,521	38.5	46,920	15.2
2019	303,359	-1.4	82,147	27.1	4,426	1.5	77,720	25.6	117,314	38.7	45,789	15.1
2020	292,076	-3.7	72,241	24.7	3,938	1.3	68,303	23.4	110,240	37.7	41,993	14.4
2021	307,312	5.2	72,531	23.6	4,019	1.3	68,512	22.3	118,047	38.4	42,577	13.9

1. 기타: 폐기물을 이용하여 제조한 것

주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

6. Primary Energy Supply(Calorific Unit)

Unit: Thousand toe

석유 Petroleum				액화천연가스 LNG		수력 Hydro						원자력 Nuclear		신재생 및 기타¹ Renewables & Others¹		
액화석유가스		비에너지유				소계		일반·소수력		양수						
LPG	%	Non-Energy Use	%		%	Subtotal	%	General-Microhydro	%	Pumping	%		%		%	
511	1.1	2,959	6.5	-	-	677	1.5	649	1.4	28	0.1	724	1.6	2,492	5.5	1981
750	1.6	2,913	6.4	-	-	501	1.1	429	0.9	72	0.2	944	2.1	2,417	5.3	1982
1,031	2.1	3,347	6.8	-	-	681	1.4	574	1.2	107	0.2	2,241	4.5	2,378	4.8	1983
1,262	2.4	3,703	6.9	-	-	600	1.1	500	0.9	100	0.2	2,948	5.5	2,492	4.7	1984
1,467	2.6	3,839	6.8	-	-	915	1.6	796	1.4	119	0.2	4,186	7.4	2,031	3.6	1985
1,799	2.9	4,292	7.0	71	0.1	1,005	1.6	777	1.3	227	0.4	7,078	11.5	1,480	2.4	1986
2,161	3.2	4,533	6.7	2,104	3.1	1,336	2.0	991	1.5	345	0.5	9,829	14.5	1,319	1.9	1987
2,629	3.5	4,892	6.5	2,718	3.6	892	1.2	497	0.7	395	0.5	10,025	13.3	1,164	1.5	1988
3,066	3.8	4,951	6.1	2,630	3.2	1,140	1.4	741	0.9	398	0.5	11,841	14.5	1,033	1.3	1989
3,601	3.9	6,921	7.4	3,023	3.3	1,590	1.7	1,171	1.3	419	0.5	13,222	14.2	797	0.9	1990
4,339	4.2	9,515	9.2	3,503	3.4	1,263	1.2	872	0.8	391	0.4	14,078	13.6	618	0.6	1991
5,441	4.7	13,988	12.1	4,581	4.0	1,216	1.0	774	0.7	441	0.4	14,133	12.2	722	0.6	1992
5,990	4.7	15,366	12.1	5,723	4.5	1,502	1.2	1,057	0.8	445	0.4	14,535	11.5	742	0.6	1993
6,398	4.7	17,289	12.6	7,618	5.6	1,025	0.7	587	0.4	438	0.3	14,663	10.7	906	0.7	1994
6,740	4.5	18,356	12.2	9,213	6.1	1,369	0.9	690	0.5	679	0.5	16,757	11.2	1,050	0.7	1995
6,874	4.2	19,787	12.0	12,172	7.4	1,300	0.8	606	0.4	694	0.4	18,481	11.2	1,161	0.7	1996
7,201	4.0	28,030	15.5	14,792	8.2	1,351	0.7	703	0.4	647	0.4	19,271	10.6	1,344	0.7	1997
6,877	4.1	30,081	18.1	13,838	8.3	1,525	0.9	1,070	0.6	455	0.3	22,422	13.5	1,526	0.9	1998
7,808	4.3	30,741	16.9	16,849	9.3	1,517	0.8	1,040	0.6	477	0.3	25,766	14.2	1,806	1.0	1999
8,644	4.5	32,231	16.7	18,924	9.8	1,402	0.7	1,002	0.5	400	0.2	27,241	14.1	2,130	1.1	2000
8,676	4.4	33,102	16.6	20,787	10.5	1,038	0.5	582	0.3	455	0.2	28,033	14.1	2,456	1.2	2001
9,398	4.5	35,035	16.7	23,096	11.0	1,327	0.6	808	0.4	520	0.2	29,776	14.2	2,925	1.4	2002
9,140	4.2	36,327	16.8	24,194	11.2	1,722	0.8	1,221	0.6	500	0.2	32,418	15.0	3,241	1.5	2003
9,186	4.2	38,105	17.3	28,351	12.8	1,465	0.7	1,078	0.5	388	0.2	32,679	14.8	3,977	1.8	2004
9,484	4.1	39,299	17.1	30,722	13.4	1,297	0.6	918	0.4	379	0.2	36,695	16.0	3,961	1.7	2005
9,689	4.1	41,071	17.5	32,004	13.7	1,305	0.6	867	0.4	438	0.2	37,187	15.9	4,358	1.9	2006
10,127	4.3	44,863	19.0	34,471	14.6	1,084	0.5	781	0.3	303	0.1	30,731	13.0	4,828	2.0	2007
10,647	4.4	44,059	18.3	35,671	14.8	1,196	0.5	660	0.3	536	0.2	32,456	13.5	5,198	2.2	2008
11,079	4.5	45,886	18.8	33,908	13.9	1,213	0.5	605	0.2	608	0.2	31,771	13.0	5,480	2.3	2009
10,924	4.1	47,190	17.9	43,008	16.3	1,391	0.5	792	0.3	600	0.2	31,948	12.1	6,064	2.3	2010
10,303	3.7	50,893	18.4	46,284	16.7	1,684	0.6	988	0.4	695	0.3	33,265	12.0	6,619	2.4	2011
9,912	3.6	52,254	18.8	50,185	18.0	1,615	0.6	837	0.3	777	0.3	31,719	11.4	8,041	2.9	2012
9,701	3.5	52,643	18.8	52,523	18.8	1,771	0.6	905	0.3	866	0.3	29,283	10.5	9,001	3.2	2013
9,343	3.3	54,083	19.1	47,773	16.9	1,650	0.6	581	0.2	1,069	0.4	33,002	11.7	10,985	3.9	2014
9,303	3.2	55,287	19.3	43,603	15.2	1,223	0.4	453	0.2	770	0.3	34,765	12.1	12,897	4.5	2015
11,166	3.8	57,977	19.7	45,518	15.5	1,400	0.5	601	0.2	799	0.3	34,181	11.6	13,666	4.7	2016
10,729	3.5	61,411	20.3	47,536	15.7	1,490	0.5	598	0.2	892	0.3	31,615	10.4	16,004	5.3	2017
11,160	3.6	60,442	19.6	55,224	17.9	1,549	0.5	716	0.2	833	0.3	28,437	9.2	17,336	5.6	2018
12,386	4.1	59,140	19.5	53,534	17.6	1,331	0.4	594	0.2	737	0.2	31,079	10.2	17,955	5.9	2019
12,251	4.2	55,997	19.2	54,970	18.8	1,523	0.5	826	0.3	697	0.2	34,119	11.7	18,983	6.5	2020
12,420	4.0	63,051	20.5	59,873	19.5	1,435	0.5	651	0.2	784	0.3	33,657	11.0	21,769	7.1	2021

1. Others: The energy source is manufactured from the waste
Note: From 2007, based on the revised Calorific Value every 5 years

7. 최종에너지 소비(고유단위)

	석탄 Coal			석유 Petroleum		
	소계 Subtotal	무연탄 Anthracite	유연탄 Bituminous	소계 Subtotal	에너지유 Energy Use	액화석유가스 LPG
	1,000 ton			1,000 bbl		
1981	26,970	19,536	7,434	131,230	103,732	4,852
1982	27,042	18,539	8,503	128,898	99,607	7,080
1983	28,708	19,621	9,087	140,176	104,859	9,718
1984	31,411	22,008	9,403	152,559	112,363	11,996
1985	33,615	24,058	9,557	159,929	117,008	13,804
1986	35,230	25,303	9,927	179,142	129,645	16,938
1987	36,418	24,642	11,776	202,088	146,764	20,697
1988	37,920	24,225	13,695	231,911	169,312	25,208
1989	36,473	21,232	15,241	263,974	197,112	29,101
1990	35,263	19,108	16,154	323,972	237,771	33,307
1991	33,988	15,354	18,634	378,588	267,001	38,540
1992	31,401	11,545	19,857	455,528	300,617	47,432
1993	31,088	8,544	22,544	506,290	337,176	50,674
1994	27,928	5,168	22,760	553,673	367,005	53,298
1995	27,273	3,599	23,674	600,231	404,717	53,783
1996	28,595	2,805	25,790	643,626	434,299	56,664
1997	29,140	2,142	26,998	718,228	439,378	63,791
1998	27,778	2,199	25,579	641,854	346,603	63,818
1999	28,283	2,443	25,840	688,307	379,026	72,495
2000	30,391	3,350	27,042	698,107	368,424	81,488
2001	31,553	4,451	27,101	697,052	359,991	82,499
2002	33,308	5,177	28,131	721,390	362,342	89,739
2003	34,792	5,874	28,918	721,519	354,633	87,679
2004	34,365	5,893	28,472	717,176	337,055	87,482
2005	34,627	6,683	27,944	727,886	335,259	90,272
2006	35,215	7,413	27,802	733,947	325,173	92,617
2007	36,191	7,240	28,951	762,720	321,577	96,376
2008	38,930	7,708	31,222	740,032	301,801	99,679
2009	34,594	6,895	27,698	751,654	295,644	103,868
2010	42,040	7,552	34,488	766,756	304,012	100,279
2011	48,891	9,414	39,477	778,666	296,414	92,692
2012	47,255	8,518	38,736	793,982	289,244	88,100
2013	48,163	8,778	39,386	795,247	284,330	91,359
2014	53,052	7,880	45,172	805,329	284,434	88,844
2015	52,606	8,413	44,193	838,448	305,990	88,972
2016	49,019	8,272	40,747	899,308	326,294	107,873
2017	50,363	7,182	43,181	929,313	332,766	103,616
2018	49,295	8,280	41,014	920,044	327,027	107,169
2019	48,205	6,758	41,447	918,480	323,446	120,116
2020	45,829	6,218	39,611	865,768	298,053	119,431
2021	47,849	6,424	41,425	925,219	302,695	119,275

1. 기타: 폐기물을 이용하여 제조한 것

7. Final Energy Consumption(Original Unit)

	액화천연가스	도시가스	전 력	열에너지	신재생 및 기타 ¹	
비에너지유 Non-Energy Use	LNG	City Gas	Electricity	Heat	Renewables & Others ¹	
1,000 bbl	1,000 ton	mil.m ³	GWh	1,000 toe		
22,646	-	21	35,424	-	2,492	1981
22,210	-	25	37,880	-	2,417	1982
25,599	-	34	42,620	-	2,378	1983
28,199	-	47	47,051	-	2,492	1984
29,117	-	77	50,733	-	2,031	1985
32,559	-	120	56,310	-	1,480	1986
34,627	-	181	64,169	10	1,319	1987
37,392	-	308	74,317	63	1,164	1988
37,761	-	590	82,192	71	1,033	1989
52,894	-	963	94,313	75	797	1990
73,048	-	1,467	104,374	80	618	1991
107,479	-	2,114	115,244	143	722	1992
118,440	-	2,883	127,734	360	742	1993
133,371	-	3,864	146,540	460	906	1994
141,731	-	5,327	163,270	641	1,050	1995
152,662	-	6,607	182,470	811	1,161	1996
215,059	-	7,708	200,784	909	1,344	1997
231,433	-	8,024	193,470	882	1,526	1998
236,786	-	10,012	214,215	1,033	1,806	1999
248,196	0	11,963	239,535	1,167	2,130	2000
254,563	-	12,657	257,731	1,218	2,456	2001
269,309	-	13,873	278,451	1,316	2,925	2002
279,207	-	14,734	293,599	1,523	3,210	2003
292,639	-	15,422	312,096	1,449	3,928	2004
302,355	282	16,963	332,413	1,652	3,896	2005
316,157	567	17,504	348,719	1,549	4,092	2006
344,767	398	17,967	368,605	1,576	4,491	2007
338,552	434	18,734	385,070	1,668	4,747	2008
352,142	453	18,445	394,475	1,709	4,867	2009
362,465	761	19,982	434,163	1,939	5,346	2010
389,560	963	21,679	455,070	1,976	4,851	2011
416,638	886	23,776	466,593	2,102	6,162	2012
419,558	623	23,890	474,849	2,070	6,654	2013
432,050	590	22,091	477,592	1,528	6,204	2014
443,487	653	20,785	483,655	1,967	7,653	2015
465,140	801	21,271	497,039	2,183	7,263	2016
492,931	1,049	22,603	507,746	2,441	8,794	2017
485,848	1,560	24,275	526,149	2,682	9,327	2018
474,919	2,227	23,268	520,499	2,647	9,177	2019
448,285	2,758	22,449	509,270	2,770	9,493	2020
503,249	2,718	23,602	533,431	2,900	12,002	2021

1. Others: The energy source is manufactured from the waste

8. 최종에너지 소비(열량)

단위: 천 toe

	합계		석탄 Coal						석유 Petroleum			
	TFEC	증가율 Growth Rate (%)	소계		무연탄		유연탄		소계		에너지지유	
			Subtotal	%	Anthracite	%	Bituminous	%	Subtotal	%	Energy Use	%
1981	38,952	3.6	14,478	37.2	9,571	24.6	4,906	12.6	18,912	48.6	15,471	39.7
1982	38,711	-0.6	14,548	37.6	8,937	23.1	5,612	14.5	18,460	47.7	14,835	38.3
1983	41,337	6.8	15,336	37.1	9,338	22.6	5,997	14.5	19,921	48.2	15,589	37.7
1984	44,998	8.9	16,806	37.3	10,600	23.6	6,206	13.8	21,602	48.0	16,690	37.1
1985	46,998	4.4	17,940	38.2	11,632	24.8	6,308	13.4	22,580	48.0	17,360	36.9
1986	50,524	7.5	18,887	37.4	12,336	24.4	6,552	13.0	25,181	49.8	19,211	38.0
1987	55,197	9.2	19,778	35.8	12,006	21.8	7,772	14.1	28,372	51.4	21,767	39.4
1988	61,033	10.6	20,565	33.7	11,527	18.9	9,039	14.8	32,511	53.3	25,083	41.1
1989	65,875	7.9	20,116	30.5	10,057	15.3	10,059	15.3	36,967	56.1	29,106	44.2
1990	74,701	13.4	19,454	26.0	8,792	11.8	10,662	14.3	45,252	60.6	34,991	46.8
1991	83,336	11.6	19,447	23.3	7,119	8.5	12,328	14.8	52,675	63.2	39,266	47.1
1992	94,403	13.3	18,469	19.6	5,363	5.7	13,105	13.9	62,939	66.7	44,139	46.8
1993	103,850	10.0	18,860	18.2	3,981	3.8	14,879	14.3	69,876	67.3	49,369	47.5
1994	111,787	7.6	17,423	15.6	2,401	2.1	15,022	13.4	76,339	68.3	53,637	48.0
1995	121,400	8.6	17,327	14.3	1,702	1.4	15,625	12.9	82,747	68.2	58,898	48.5
1996	131,573	8.4	18,406	14.0	1,385	1.1	17,021	12.9	88,566	67.3	63,046	47.9
1997	144,541	9.9	18,891	13.1	1,072	0.7	17,819	12.3	98,036	67.8	63,564	44.0
1998	132,177	-8.6	17,993	13.6	1,111	0.8	16,882	12.8	86,712	65.6	50,159	37.9
1999	143,027	8.2	18,325	12.8	1,271	0.9	17,055	11.9	92,928	65.0	54,817	38.3
2000	149,958	4.8	19,661	13.1	1,813	1.2	17,848	11.9	93,839	62.6	53,275	35.5
2001	153,103	2.1	20,357	13.3	2,470	1.6	17,887	11.7	93,617	61.1	52,021	34.0
2002	160,876	5.1	21,485	13.4	2,919	1.8	18,566	11.5	96,635	60.1	52,366	32.6
2003	164,550	2.3	22,428	13.6	3,342	2.0	19,086	11.6	96,669	58.7	51,292	31.2
2004	166,452	1.2	22,100	13.3	3,309	2.0	18,791	11.3	95,942	57.6	48,739	29.3
2005	171,543	3.1	22,154	12.9	3,711	2.2	18,443	10.8	97,076	56.6	48,430	28.2
2006	174,873	1.9	22,461	12.8	4,112	2.4	18,349	10.5	97,665	55.8	46,990	26.9
2007	182,015	4.1	24,056	13.2	4,385	2.4	19,671	10.8	100,720	55.3	45,816	25.2
2008	183,054	0.6	25,879	14.1	4,636	2.5	21,243	11.6	97,316	53.2	42,833	23.4
2009	182,080	-0.5	23,015	12.6	4,183	2.3	18,832	10.3	98,516	54.1	41,812	23.0
2010	195,401	7.3	28,189	14.4	4,629	2.4	23,560	12.1	100,519	51.4	42,913	22.0
2011	205,241	5.0	32,860	16.0	5,844	2.8	27,017	13.2	102,294	49.8	41,766	20.3
2012	206,974	0.8	31,017	15.0	4,511	2.2	26,507	12.8	101,683	49.1	40,279	19.5
2013	208,376	0.7	31,603	15.2	4,649	2.2	26,954	12.9	101,522	48.7	39,424	18.9
2014	210,477	1.0	35,198	16.7	4,212	2.0	30,985	14.7	102,664	48.8	39,423	18.7
2015	215,447	2.4	34,849	16.2	4,539	2.1	30,310	14.1	106,854	49.6	42,488	19.7
2016	222,027	3.1	32,342	14.6	4,431	2.0	27,911	12.6	114,264	51.5	45,372	20.4
2017	231,179	4.1	33,360	14.4	3,986	1.7	29,374	12.7	118,289	51.2	46,364	20.1
2018	233,585	1.0	32,480	13.9	4,565	2.0	27,915	12.0	116,831	50.0	45,496	19.5
2019	231,621	-0.8	32,057	13.8	3,850	1.7	28,207	12.2	116,125	50.1	44,847	19.4
2020	222,563	-3.9	30,457	13.7	3,459	1.6	26,998	12.1	109,344	49.1	41,334	18.6
2021	237,360	6.6	31,810	13.4	3,577	1.5	28,233	11.9	116,936	49.3	41,912	17.7

1. 기타: 폐기물을 이용하여 제조한 것

주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

8. Final Energy Consumption(Calorific Unit)

Unit: Thousand toe

석유 Petroleum				액화천연가스 LNG		도시가스 City Gas		전 력 Electricity		열에너지 Heat		신재생 및 기타¹ Renewables & Others¹		
액화석유가스		비에너지유												
LPG	%	Non-Energy Use	%											
500	1.3	2,942	7.6	-	-	23	0.1	3,046	7.8	-	-	2,492	6.4	1981
735	1.9	2,890	7.5	-	-	28	0.1	3,258	8.4	-	-	2,417	6.2	1982
1,010	2.4	3,322	8.0	-	-	37	0.1	3,665	8.9	-	-	2,378	5.8	1983
1,242	2.8	3,670	8.2	-	-	52	0.1	4,046	9.0	-	-	2,492	5.5	1984
1,424	3.0	3,795	8.1	-	-	84	0.2	4,363	9.3	-	-	2,031	4.3	1985
1,736	3.4	4,235	8.4	-	-	132	0.3	4,843	9.6	-	-	1,480	2.9	1986
2,110	3.8	4,495	8.1	-	-	199	0.4	5,519	10.0	10	0.0	1,319	2.4	1987
2,561	4.2	4,866	8.0	-	-	339	0.6	6,391	10.5	63	0.1	1,164	1.9	1988
2,947	4.5	4,914	7.5	-	-	619	0.9	7,069	10.7	71	0.1	1,033	1.6	1989
3,368	4.5	6,893	9.2	-	-	1,011	1.4	8,111	10.9	75	0.1	797	1.1	1990
3,894	4.7	9,515	11.4	-	-	1,540	1.8	8,976	10.8	80	0.1	618	0.7	1991
4,812	5.1	13,988	14.8	-	-	2,219	2.4	9,911	10.5	143	0.2	722	0.8	1992
5,141	5.0	15,366	14.8	-	-	3,027	2.9	10,985	10.6	360	0.3	742	0.7	1993
5,414	4.8	17,289	15.5	-	-	4,057	3.6	12,602	11.3	460	0.4	906	0.8	1994
5,493	4.5	18,356	15.1	-	-	5,593	4.6	14,041	11.6	641	0.5	1,050	0.9	1995
5,733	4.4	19,787	15.0	-	-	6,937	5.3	15,692	11.9	811	0.6	1,161	0.9	1996
6,442	4.5	28,030	19.4	-	-	8,093	5.6	17,267	11.9	909	0.6	1,344	0.9	1997
6,472	4.9	30,081	22.8	-	-	8,425	6.4	16,638	12.6	882	0.7	1,526	1.2	1998
7,371	5.2	30,741	21.5	-	-	10,513	7.4	18,422	12.9	1,033	0.7	1,806	1.3	1999
8,333	5.6	32,231	21.5	0	0.0	12,561	8.4	20,600	13.7	1,167	0.8	2,130	1.4	2000
8,493	5.5	33,102	21.6	-	-	13,290	8.7	22,165	14.5	1,218	0.8	2,456	1.6	2001
9,235	5.7	35,034	21.8	-	-	14,567	9.1	23,947	14.9	1,316	0.8	2,925	1.8	2002
9,050	5.5	36,327	22.1	-	-	15,470	9.4	25,250	15.3	1,523	0.9	3,210	2.0	2003
9,099	5.5	38,104	22.9	-	-	16,193	9.7	26,840	16.1	1,449	0.9	3,928	2.4	2004
9,348	5.4	39,298	22.9	366	0.2	17,811	10.4	28,588	16.7	1,652	1.0	3,896	2.3	2005
9,608	5.5	41,067	23.5	738	0.4	18,379	10.5	29,990	17.1	1,549	0.9	4,092	2.3	2006
10,052	5.5	44,851	24.6	518	0.3	18,955	10.4	31,700	17.4	1,576	0.9	4,491	2.5	2007
10,432	5.7	44,050	24.1	564	0.3	19,765	10.8	33,116	18.1	1,668	0.9	4,747	2.6	2008
10,840	6.0	45,864	25.2	589	0.3	19,459	10.7	33,925	18.6	1,709	0.9	4,867	2.7	2009
10,448	5.3	47,158	24.1	989	0.5	21,081	10.8	37,338	19.1	1,939	1.0	5,346	2.7	2010
9,670	4.7	50,858	24.8	1,252	0.6	22,871	11.1	39,136	19.1	1,976	1.0	4,851	2.4	2011
9,194	4.4	52,209	25.2	1,156	0.6	24,728	11.9	40,127	19.4	2,102	1.0	6,162	3.0	2012
9,536	4.6	52,563	25.2	813	0.4	24,878	11.9	40,837	19.6	2,070	1.0	6,654	3.2	2013
9,271	4.4	53,971	25.6	769	0.4	23,041	10.9	41,073	19.5	1,528	0.7	6,204	2.9	2014
9,214	4.3	55,151	25.6	851	0.4	21,678	10.1	41,594	19.3	1,967	0.9	7,653	3.6	2015
11,059	5.0	57,833	26.0	1,044	0.5	22,186	10.0	42,745	19.3	2,183	1.0	7,263	3.3	2016
10,579	4.6	61,346	26.5	1,370	0.6	23,258	10.1	43,666	18.9	2,441	1.1	8,794	3.8	2017
10,945	4.7	60,389	25.9	2,038	0.9	24,979	10.7	45,249	19.4	2,682	1.1	9,327	4.0	2018
12,188	5.3	59,091	25.5	2,909	1.3	23,943	10.3	44,763	19.3	2,647	1.1	9,177	4.0	2019
12,069	5.4	55,941	25.1	3,602	1.6	23,100	10.4	43,797	19.7	2,770	1.2	9,493	4.3	2020
12,034	5.1	62,990	26.5	3,550	1.5	24,287	10.2	45,875	19.3	2,900	1.2	12,002	5.1	2021

1. Others: The energy source is manufactured from the waste

Note: From 2007, based on the revised Calorific Value every 5 years

9. 부문별 최종에너지 소비

단위: 천 toe

	1990	1995	2000	2005	2010	2012	2013
산업	36,144	62,707	84,237	95,578	116,590	126,369	128,920
석유제품	20,014	36,843	48,522	51,746	57,576	60,073	60,369
무연탄	144	348	1,277	2,799	3,729	3,679	3,776
유연탄	10,662	15,625	17,848	18,443	23,560	26,507	26,954
전력	5,089	8,293	11,374	14,346	19,193	21,426	22,088
액화천연가스	-	-	0	366	989	1,156	813
도시가스	235	863	3,308	4,656	7,329	9,501	9,903
신재생 및 기타 ¹	-	736	1,908	3,222	4,215	4,029	5,017
가정·상업	21,572	29,131	32,153	36,336	37,425	38,606	37,772
석유제품	8,876	17,472	13,407	8,955	6,397	5,371	4,999
무연탄	8,627	1,355	536	912	901	832	872
전력	2,421	4,801	7,891	12,233	15,636	16,049	16,077
도시가스	777	4,606	9,024	12,503	12,489	13,797	13,578
열에너지	75	632	1,146	1,609	1,898	2,055	2,023
신재생 및 기타 ¹	797	265	148	123	105	501	223
수송	14,173	27,146	30,945	35,534	36,903	36,783	36,961
석유제품	14,086	27,008	30,770	34,958	35,246	34,982	34,928
도시가스	-	-	-	339	1,112	1,248	1,299
전력	87	138	175	224	188	194	186
신재생 및 기타 ¹	-	-	-	13	357	360	548
공공	2,812	2,415	2,623	4,095	4,482	5,216	4,723
석유제품	2,276	1,424	1,140	1,417	1,299	1,258	1,227
무연탄	21	-	-	-	-	-	-
전력	514	808	1,160	1,785	2,321	2,459	2,485
도시가스	-	125	229	313	152	181	98
열에너지	1	10	20	42	41	47	46
신재생 및 기타 ¹	-	49	74	538	669	1,272	866
최종에너지	74,701	121,400	149,958	171,543	195,401	206,974	208,376

1. 기타: 폐기물을 이용하여 제조한 것

9. Final Energy Consumption by Sector

Unit: Thousand toe

2014	2015	2016	2017	2018	2019	2020	2021	
132,897	133,417	135,698	142,520	143,501	142,907	137,830	150,293	Industry
61,343	62,156	66,820	69,871	69,294	69,216	66,483	73,346	Petroleum
3,467	3,867	3,860	3,473	4,133	3,544	3,217	3,365	Anthracite
30,985	30,310	27,911	29,374	27,915	28,207	26,998	28,233	Bituminous
22,757	22,844	23,218	23,794	24,399	24,060	22,973	24,309	Electricity
769	851	1,044	1,370	2,038	2,909	3,602	3,550	LNG
9,050	7,644	7,537	8,010	9,028	8,540	7,813	8,760	City Gas
4,526	5,744	5,309	6,628	6,694	6,430	6,743	8,731	Renewables & Others ¹
35,643	37,048	38,810	40,013	41,544	40,313	40,228	41,194	Residential& Commercial
4,707	5,320	5,684	5,693	5,325	4,824	4,354	4,255	Petroleum
745	672	571	513	432	306	242	212	Anthracite
15,706	16,020	16,650	16,932	17,801	17,666	18,043	18,610	Electricity
12,599	12,661	13,292	13,918	14,614	14,109	14,119	14,393	City Gas
1,501	1,931	2,133	2,386	2,621	2,572	2,703	2,818	Heat
384	444	480	570	750	836	767	905	Renewables & Others ¹
37,241	39,851	42,271	43,183	42,969	42,996	39,450	40,170	Transport
35,308	37,928	40,328	41,255	40,782	40,809	37,376	38,195	Petroleum
1,307	1,288	1,270	1,253	1,238	1,216	1,099	1,060	City Gas
172	191	231	246	265	271	285	318	Electricity
454	445	443	428	683	700	690	597	Renewables & Others ¹
4,696	5,130	5,247	5,463	5,571	5,405	5,055	5,702	Public
1,306	1,450	1,432	1,470	1,429	1,276	1,130	1,140	Petroleum
-	-	-	-	-	-	-	-	Anthracite
2,438	2,540	2,646	2,694	2,784	2,766	2,496	2,637	Electricity
85	85	88	77	99	78	70	74	City Gas
27	36	50	55	61	74	66	82	Heat
840	1,019	1,031	1,168	1,199	1,211	1,292	1,769	Renewables & Others ¹
210,477	215,447	222,027	231,179	233,585	231,621	222,563	237,360	Total

1. Others: The energy source is manufactured from the waste



부록·주요용어

Glossaries



A. 에너지 단위

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

B. 간이밸런스 용어

1. 에너지밸런스 종류

■ 확장밸런스 (Extended balance)

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

■ 간이밸런스 (Simple balance)

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

2. 간이밸런스의 행 구조

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

■ 국내생산 (Production)

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

■ 수입 (Imports)

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

■ 수출 (Exports)

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

■ 국제해운병커링 (International marine bunkers)

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

■ 국제항공병커링 (International aviation bunkers)

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

■ 재고변화 (Stocks changes)

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

일차에너지공급 (Total primary energy supply)

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

■ 제품이동 (Transfers between commodities)

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

통계오차 (Statistical difference)

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

일차에너지소비 (Total primary energy consumption)

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

전환과정 (Transformation processes)

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

■ 발전전용 (Electricity-only plants)

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

■ 열병합 (CHP plants)

열병합발전은 단일 플랜트에서 전기와 열을 동시에 생산하는 방식을 말함.

■ 열전용 (Heat-only plants)

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

■ 석유제품생산 (Petroleum products)

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

■ 가스제조 (Gas manufacturing (transf.))

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

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

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

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

연료전지용 수소가 투입되어 전기가 생산되는 공정.

전환자체소비(Transformation own use)

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

손실 (Losses)

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

최종소비 (Total final consumption)

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

■ 산업 (Industry)

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

산업부문의 하위 분류는 한국표준산업분류체계를 따름.

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

■ 수송 (Transport)

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

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

■ 가정 (Residential)

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

■ 상업·공공 (Commercial & Public services)

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

3. 간이밸런스의 열 구조

석탄 및 석탄제품 (Coal)

■ 무연탄 (Anthracite)

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

■ 유연탄 및 기타석탄 (Bituminous and other coal)

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

천연가스 (Natural gas)

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

도시가스 (City gas)

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

원유 및 정제원료 (Crude oil & Refinery feedstocks)

■ 원유 (Crude oil)

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

■ 정제원료 (Refinery feedstocks)

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

■ 첨가물 (Additives & Blending components)

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

■ 기타탄화수소 (Other hydrocarbons)

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

석유제품 (Petroleum)

■ 정제가스 (Refinery gas)

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

■ 프로판 (Propane)

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

■ 부탄 (Butane)

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

■ 휘발유 (Motor gasoline)

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

■ 항공휘발유 (Aviation gasoline)

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

■ 휘발유형항공유 (Gasoline type jet fuel)

등유와 납사로 구성되며 항공기의 터빈동력에 사용되는 경질유임.

■ 등유형항공유 (Kerosene type jet fuel)

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

■ 등유 (Kerosene)

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

■ 경유 (Gas Oil, Diesel oil)

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

■ B-A

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

■ B-B

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

■ B-C

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

■ 납사 (Naphtha)

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

■ 용제 (White spirit & SBP)

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

■ 윤활유 (Lubricants)

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

■ 아스팔트 (Bitumen)

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

■ 파라핀왁스 (Paraffin waxes)

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

■ 석유코크 (Petroleum coke)

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

■ 기타석유제품 (Other oil products)

위에서 정의되지 않은 모든 석유제품으로 주로 프로필렌과 황의 생산량임.

원자력 (Nuclear)

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

수력 (Hydro)

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

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

바이오 및 폐기물 (Renewables & Other Source)

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

지열, 태양 및 기타 (Geothermal, solar, etc.)

지열, 태양광, 태양열, 해양, 풍력의 합계.

기타에너지원 (Other Source)

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

전기 (Electricity)

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

열 (Heat)

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

총에너지 (Total of all energy)

모든 에너지 상품의 합계.

메모: 신재생 (Memo: New and renewables)

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

C. 기타 에너지 용어

냉난방도일(Heating and cooling degree days) : 매일의 일평균기온과 기준 온도의 차이를 일별로 누적하여, 일평균기온이 24℃ 보다 높은 경우는 냉방도일로, 18℃보다 낮은 경우는 난방도일로 계산함.

발열량(Calorific value) : 단위량의 연료가 일정조건하에서 완전 연소한 경우에 내는 열량.

브렌트유(Brent) : 브렌트유(Brent crude oil)는 영국 북해 지역에서 생산되는 원유로 유럽과 아프리카 지역에서 거래되는 원유 가격을 결정하는 기준 원유임.

석유 의존도(Rate of dependence on oil) : 일차에너지공급량(TPES) 중에서 원유 및 정제원료, 프로판, 부탄, 휘발유, 항공유, 등유, 경유, 중유, 납사 등 석유제품 전체가 차지하는 비중.

아랍 라이트(Arab light) : 사우디아라비아산 원유 중 API도(미국 석유회사가 규정한 비중측정단위)가 약 34도인 원유를 말함. 중동 원유 중에서 생산량이 많으며, 표준적인 상태에서 원유가격을 설정할 시의 기준원유로서 채택되고 있었지만 1985년 1월의 OPEC 제73회 임시총회에서 기준원유 가격제도로 변경됨.

압축 천연가스(CNG, Compressed Natural Gas) : 천연가스를 냉동, 압축하여 액화한 LNG(액화 천연가스)와는 달리 고압으로 압축하여 압력 용기에 저장한 형태를 말함.

액성 천연가스(NGL, Natural Gas Liquid) : 가스전설비 또는 가스정제 공장의 분리기에서 액체상태로 회수되는 천연가스의 일부임. 액성 천연가스는 에탄, 프로판, 부탄, 펜탄, 천연가솔린 및 응축액을 포함하나 이에 국한하지는 않으며, 소량의 비탄화수소 성분을 포함하는 경우도 있음.

액화석유가스(LPG, Liquefied Petroleum Gas) : 석유생산, 석유정제 또는 석유화학공업의 과정에서 부생되는 탄화수소를 분리 추출해, 상온·상압에서 가스 상태의 프로판, 부탄 등의 혼합기체를 가압 또는 냉각해 액화한 것. 가정용, 공업용, 내연기관용 연료, 도시가스의 원료로서 사용되고 있음.

양수 발전(Pumping-up power generation) : 고지대에 저수지를 만들고 전력의 비수요기인 밤에 잉여전력을 이용하여 여기에 물을 모터펌프로 퍼올려 놓았다가 수요기에 저수지물을 낙하시켜 발전하는 방식으로 우리나라의 양수발전은 무주, 청평, 삼랑진, 산청, 양양 등에 있음.

에너지원단위(Energy intensity) : 국내총생산(GDP) 대비 일차에너지공급량(TPES)의 비율로 정의되며, 경제활동에 투입된 에너지소비의 효율성을 평가하는 지표로써 산업구조, 부가가치, 에너지절약 및 이용효율 수준 등에 영향을 받음.

에너지 수입의존도(Rate of dependence on imports) : 일차에너지공급량(TPES) 중 수입에너지가 차지하는 비중.

옥탄가(Octane number) : 휘발류에 있어서 안티노크성(Anti-knocking)의 고저를 표시하는 상대적인 척도를 말함. 옥탄가는 이소옥탄(Iso-Octane)의 옥탄가를 100, 노말헵탄(n-Heptane)의 옥탄가를 0으로 정한 후, 휘발류와 같은 안티노크성을 갖는 표준연료(이소옥탄과 노말헵탄의 혼합물)에 함유된 이소옥탄의 부피(%)로 표시함. 옥탄가가 높을수록 안티노크성이 높은 것을 의미함.

전력화 비중(Electrification share) : 최종소비 부문에서 전기 에너지 소비가 차지하는 비중.

콘덴세이트(Condensate) : 일부 천연가스에 섞여 나오는 경질의 휘발성 액체 탄화수소로 여러 가지 의미가 혼용되고 있으나 일반적으로 콘덴세이트라 함은 API 40~50도 이상의 초경질 원유를 말함. 주성분은 납사이고 소량의 중간유분(등유유분, 경유유분) 및 잔사유분을 함유하고 있음.

현물가격(Spot price) : 일반적으로는 상품을 현물거래하는 경우의 가격을 말함. 장기계약 등에 의하지 않기 때문에 수급의 상태에 따라 가격이 변함. 최근에는 원유 거래 시장에서 쓰이는 일이 많으며 원유의 현물시장에서 거래되는 원유가격임.

API(American Petroleum Institute) : 원유나 석유제품의 비중을 나타내기 위한 지표로 미국석유허회(API : American Petroleum Institute)가 제정한 화학적 석유비중 표시방법. 일반적으로 탄화수소가 많을수록 비중이 커지는데 보통 API 34도 이상의 원유를 경질원유, API 30~34도의 원유를 중질원유, API 30도 이하의 원유를 중질원유로 분류함.

BPSD(Barrel Per Stream Day) : 석유정제설비의 능력을 표시하는 단위로서 연간 처리량을 가동일수로 나눈 값.

CIF(Cost, Insurance and Freight) : 운임·보험료 포함가격(Cost, Insurance and Freight)으로, 무역거래의 기본조건으로서 가장 넓게 사용됨. 이 조건으로 수출계약을 체결한 판매자는 화물을 수출항의 본선에 선적할 때까지의 위험과 비용을 부담하는 이외에도 목적지까지의 운임과 보험료를 부담해야만 함.

FOB(Free On Board) : 본선인도가격이라고도 불리며 CIF와 더불어 가장 많이 이용되는 무역조건임. 이 조건에서는 구매자의 본선에 화물을 적재할 때까지의 비용과 위험을 판매자가 부담함.

IEA(International Energy Agency) : 국제 에너지기구의 약칭. 제1차 석유위기 후의 국제에너지 정세에 대응하기 위하여 미국의 제창에 의해 1974년 11월에 설립된 석유소비국의 국제기구임. 사무국은 파리의 경제협력개발기구 본부 내에 있으며 현재 가맹국은 31개국임(2022년 8월 기준). 설립 당초는 OPEC의 원유공급 삭감과 가격인상에 대응하는 것이 큰 목적이었지만, 최근에는 비상시의 석유유통과 대체에너지 개발협력 등에 중점을 둠.

OECD(Organization for Economic Cooperation and Development) : 경제협력개발기구. 구주부흥계획(마셜플랜)을 담당했던 구주경제협력기구(OEEC)의 뒤를 이어 OEEC 18개국에 미국, 캐나다가 참가해 1961년 9월에 발족됨. 주요목적은 가맹국의 협력에 의한 경제성장, 무역확대, 개발도상국 원조를 추진하는 데 있으며 현재 38개국(2021년 5월 기준)이 가입해 있음.

OPEC(Organization of Petroleum Exporting Countries) : 석유수출기구의 약칭. 1960년 9월 이라크, 쿠웨이트, 사우디아라비아, 베네수엘라, 이란의 5개국에 의해 설립되었으며, 본부는 빈에 있음. OPEC설립의 직접적인 원인은 1959년과 1960년 2회에 걸친 원유공시가격의 대폭적인 인하가 메이저에 의해 일방적으로 행해진 데에 있으며, 산유국간의 석유정책협조와 이를 위한 정보수집, 의견교환 등에 목적을 두고 있음.

OPEC 바스켓가격(OPEC Basket Price) : OPEC 회원국들이 생산하는 원유 가격을 가중치에 따라 평균한 가격으로 OPEC이 국제유가의 지표로 삼는 수치임. 알제리의 사하라 블렌드(Saharan Blend), 나이지리아의 보니 라이트(Bonny Light), 사우디아라비아의 아랍 라이트(Arab Light) 등 10여개 유종으로 구성됨.

WTI(West Texas Intermediate, 서부 텍사스유) : 미국에서 생산되는 대표적인 원유임. 뉴욕상품거래소에서 이루어지는 선물거래의 주요상품의 하나로 북해 브렌트유와 함께 구미 석유시장의 지표가 됨.



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