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에너지통계연보

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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

- 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.



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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)

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 비교분석함으로써 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 에너지경제연구원에서 에너지밸런스 및 국가에너지수급 관련 통계를 작성
- ※ 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 (m³)	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(m³)	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. 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 (17종)	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
	나프타	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)	Nm ³	42.7	10,190	1.019	38.5	9,190	0.919
	도시가스(LPG)	Nm ³	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 10⁷kcal을 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. 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
	나프타	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	-	-	-	6,000	6,550	5,020	5,060	5,500	↑ 440
	원료용 수입 무연탄	kg						5,900	6,020	6,170	↑ 150
	연료용 유연탄(역청탄)	kg					6,600	6,600	6,600	6,200	6,160
	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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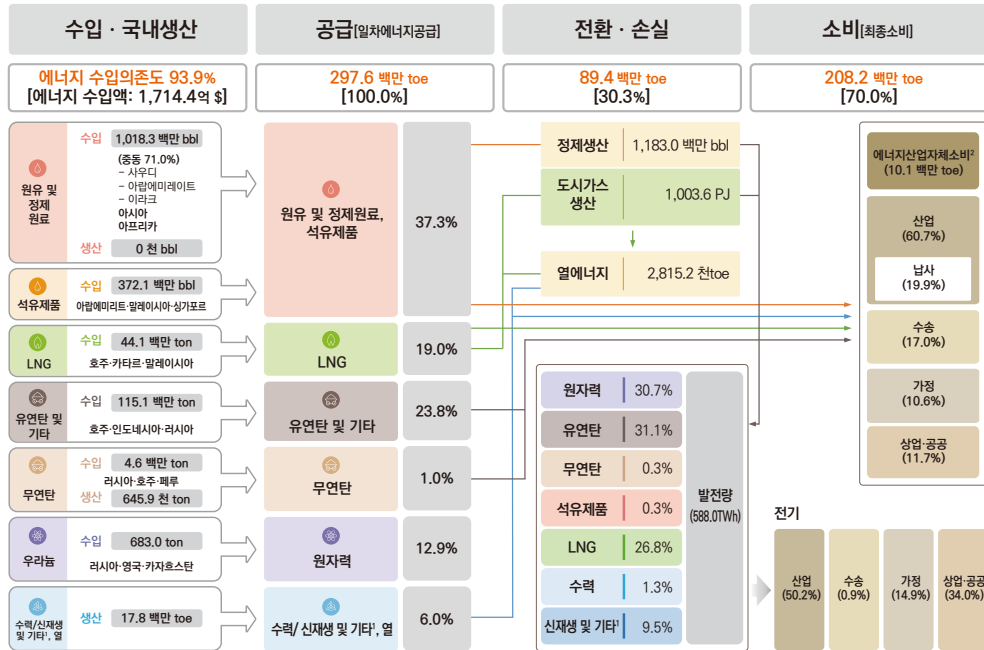
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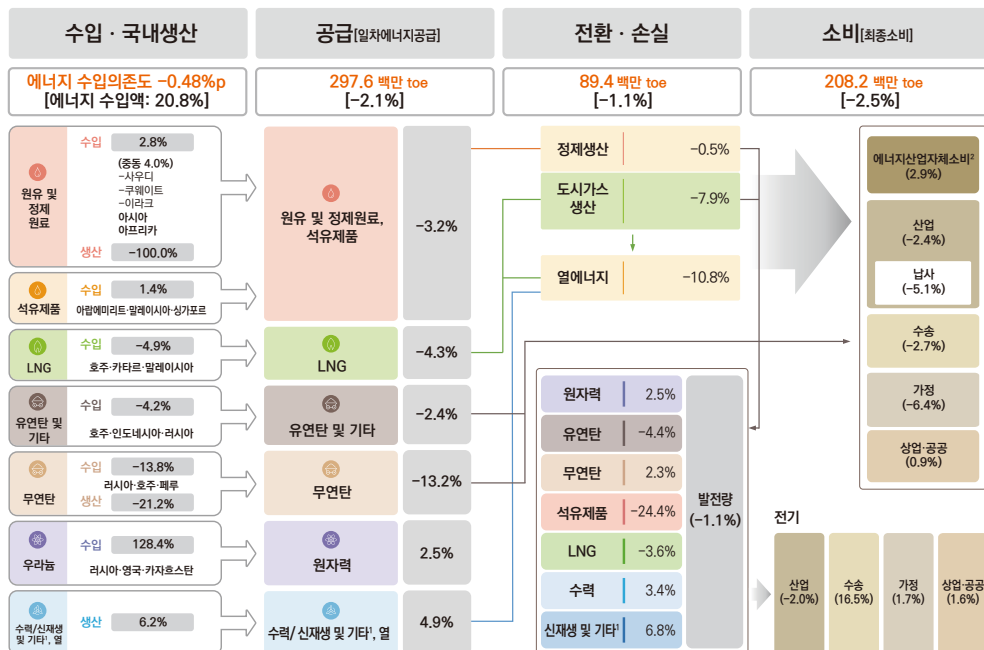
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2023년(잠정) 에너지 플로우



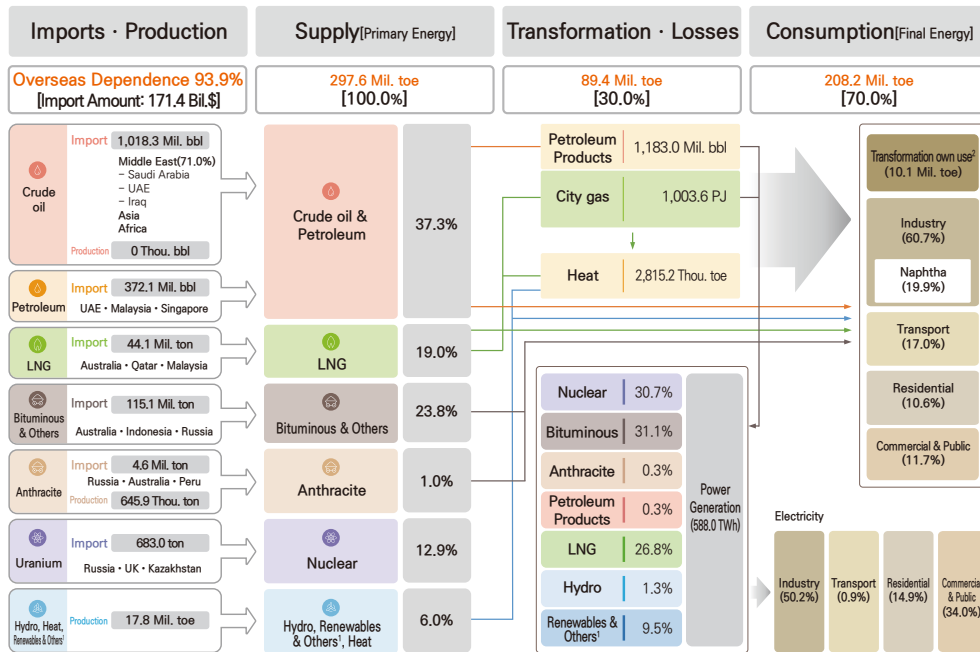
2023년(잠정) 에너지 플로우(전년대비)



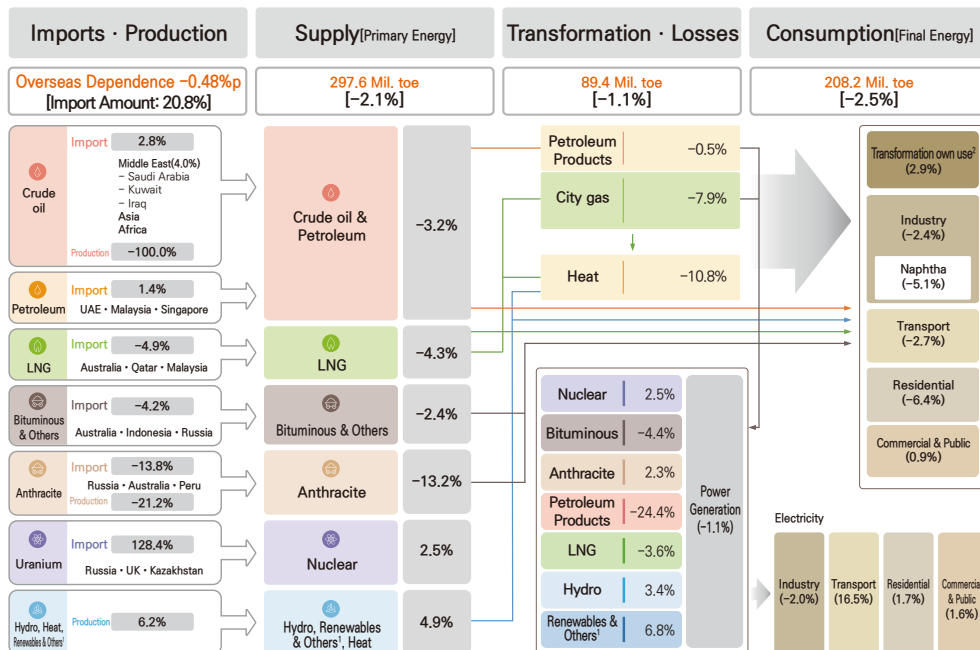
1. 신재생 및 기타: 바이오 및 폐기물, 지열, 태양 및 기타, 기타에너지원

2. 에너지산업 자체소비는 에너지생산 플랜트의 활동을 유지하는데 사용되는 에너지 상품을 의미. 다른 에너지 상품으로 전환되지 않기 때문에 전환과정과 구별되며, 산업활동을 위한 에너지소비인 최종소비 산업부문에도 포함되지 않음.

2023p Energy Flow



2023p Energy Flow(Year-Over-Year)

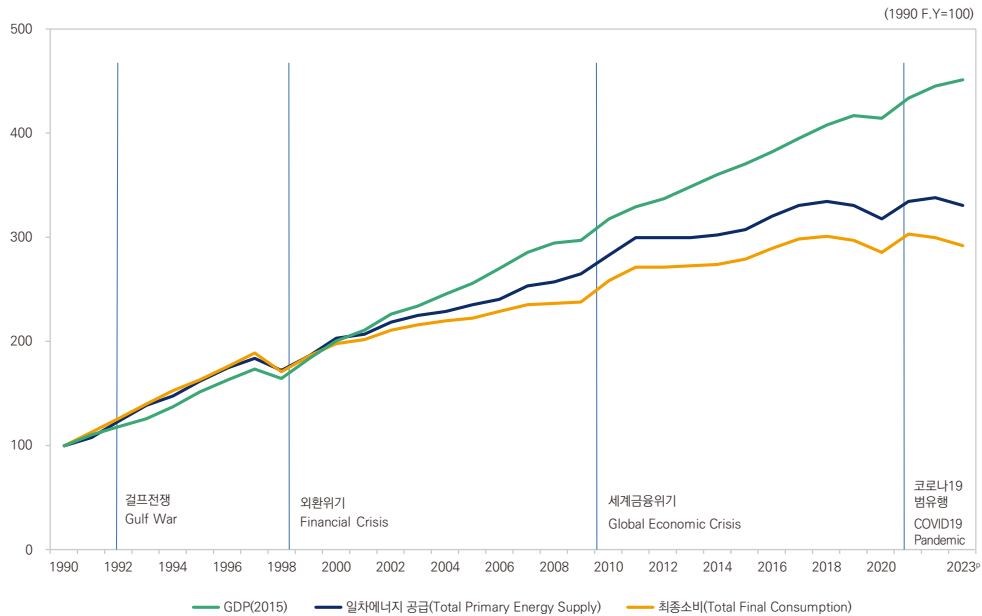


1. Renewables & Others: Biofuels and waste, Geothermal, solar, etc. Other sources

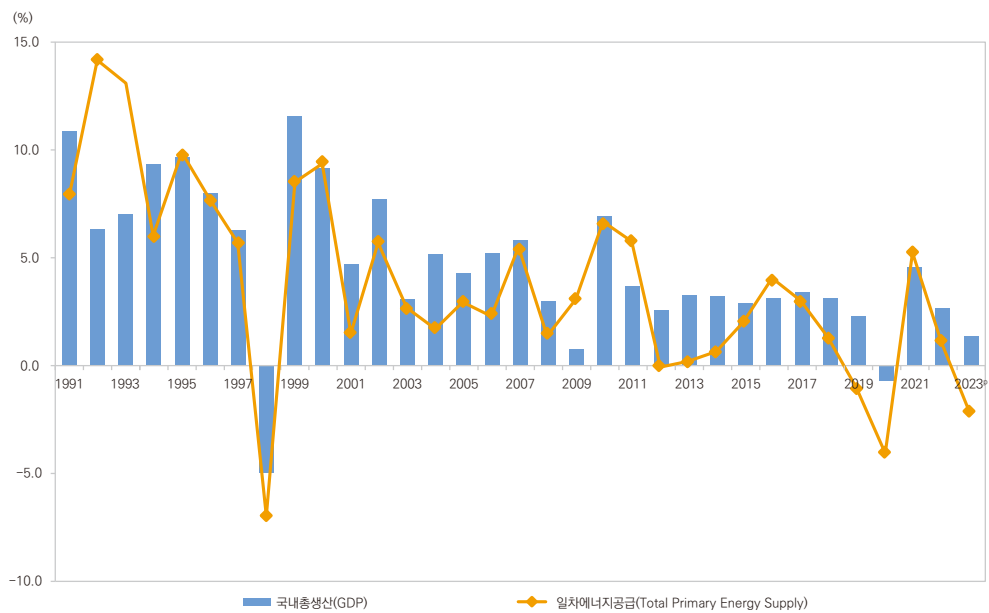
2. Transformation own use(energy industry own use) is distinct from the transformation process because it is not converted into other energy commodities and is not included in the final consumption, which is energy consumption for industrial activities.

1. 경제성장과 에너지소비 Economic Growth and Energy Consumption

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

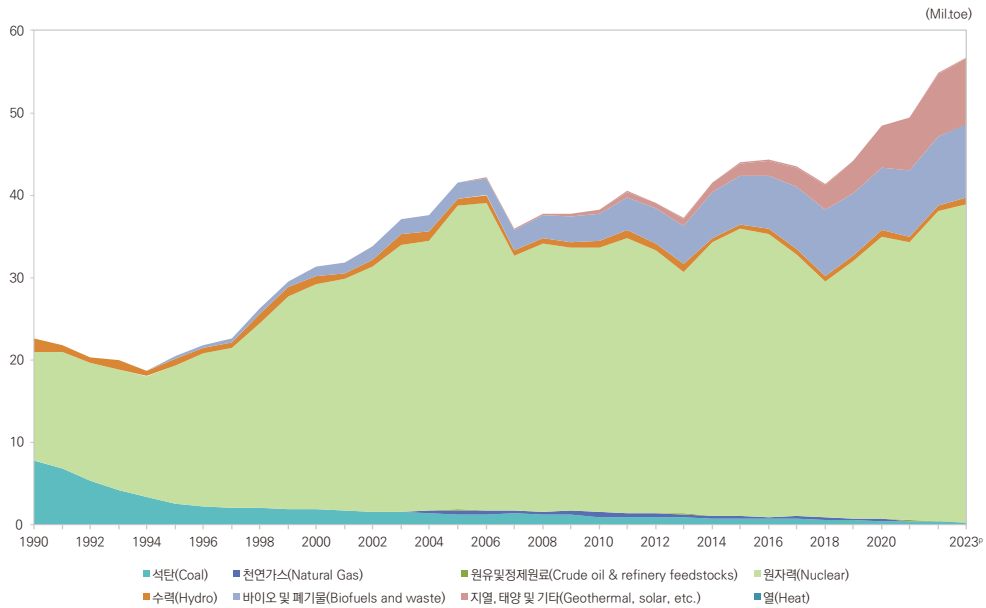


● GDP와 일차에너지공급 증가율 GDP and TPES Growth Rate

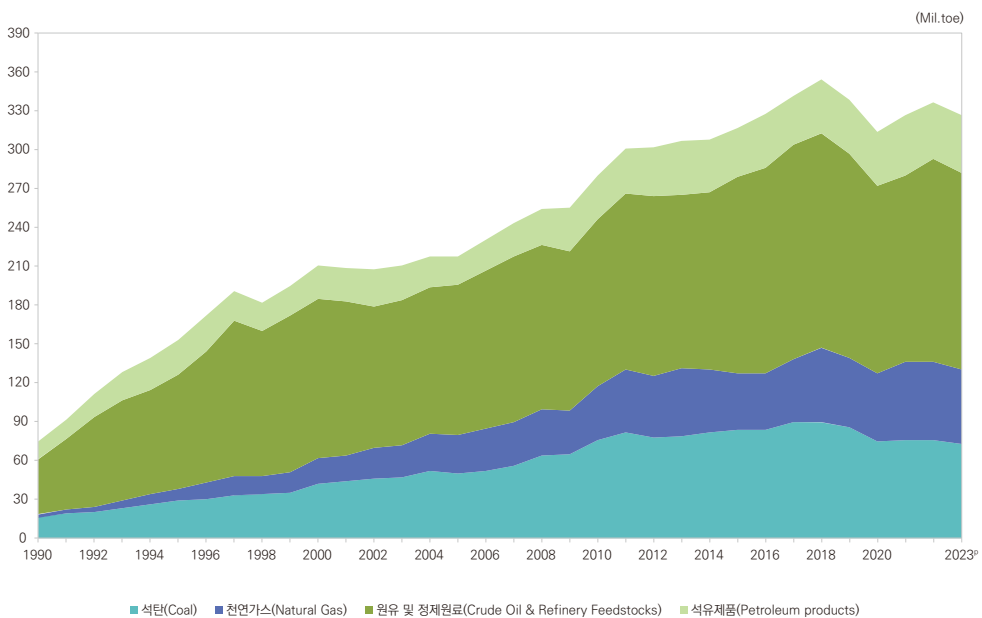


2. 에너지 생산·수입 Energy Production & Import

● 국내생산 Production

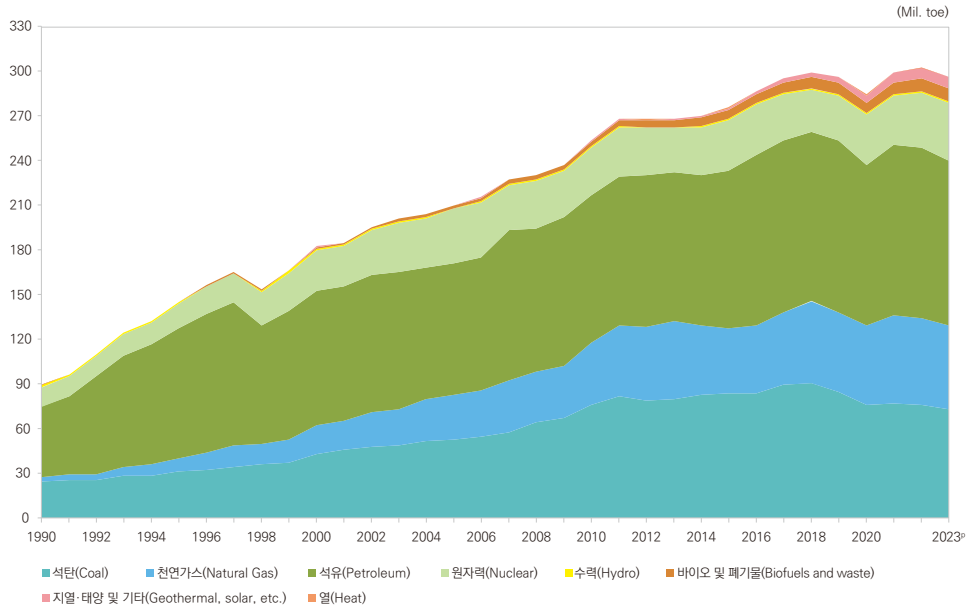


● 수입 Import

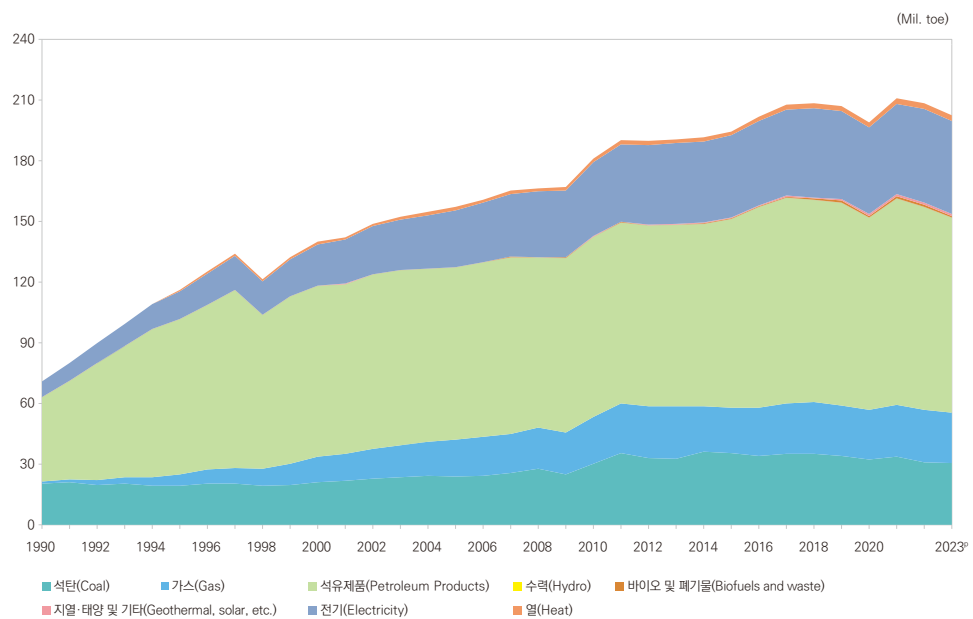


3. 에너지 수급 Energy Supply & Demand

● 일차에너지공급 Primary Energy Supply

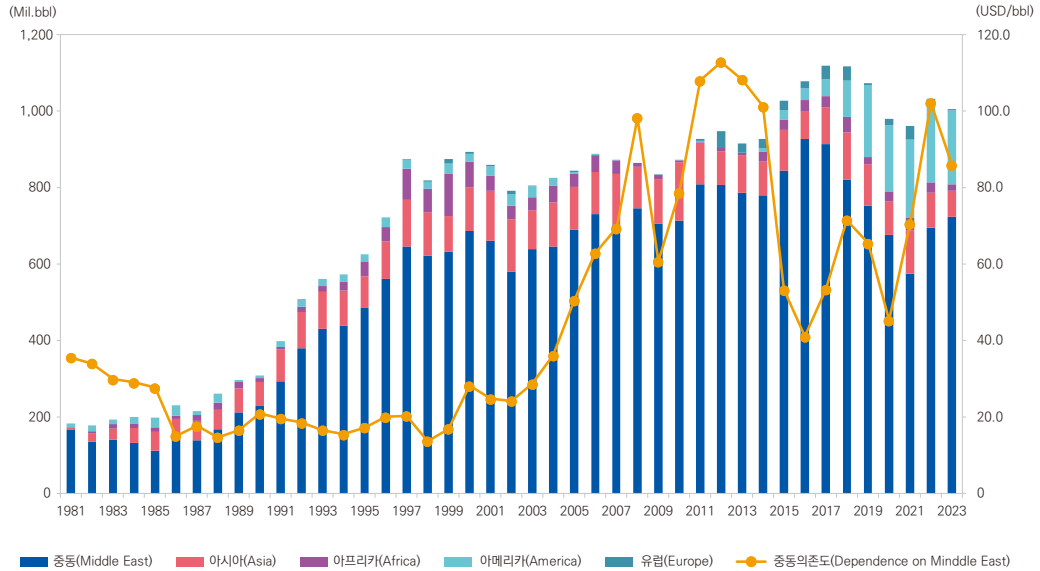


● 최종소비 Final Consumption

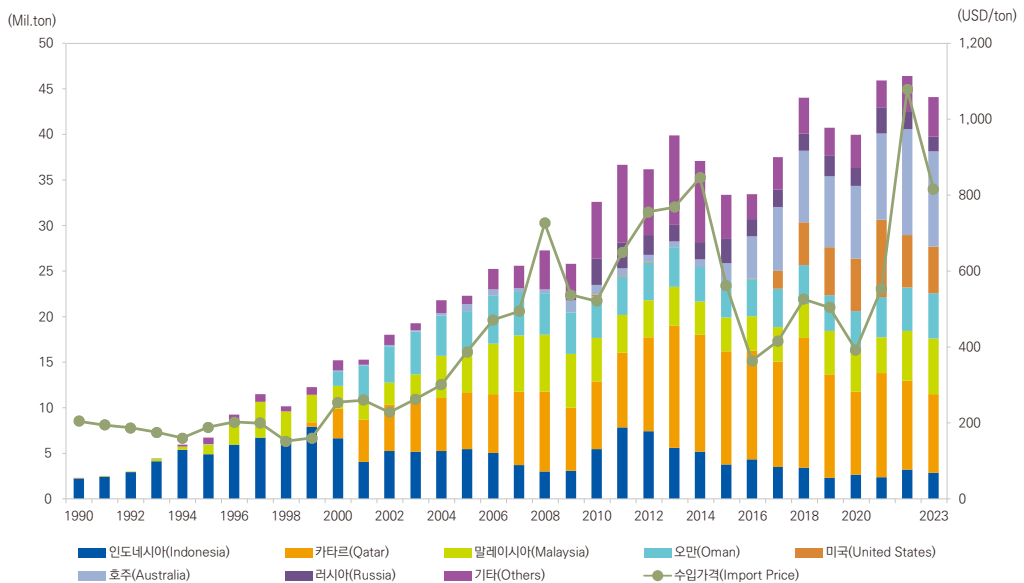


4. 에너지 수입가격 Energy Imports Prices

● 원유 수입 Crude Oil Imports and Prices

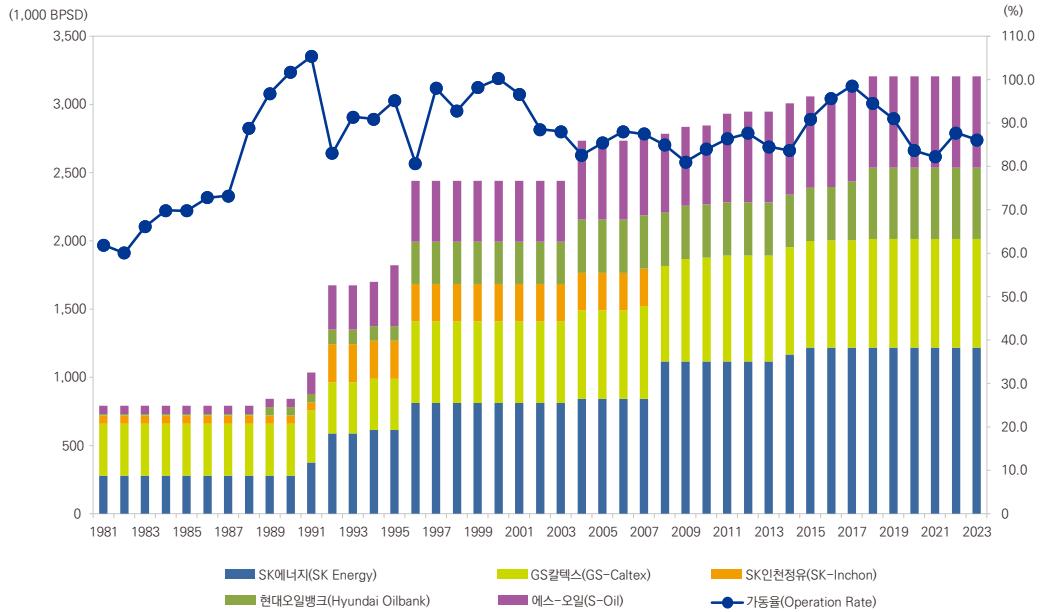


● 액화천연가스 수입 LNG Imports and Prices

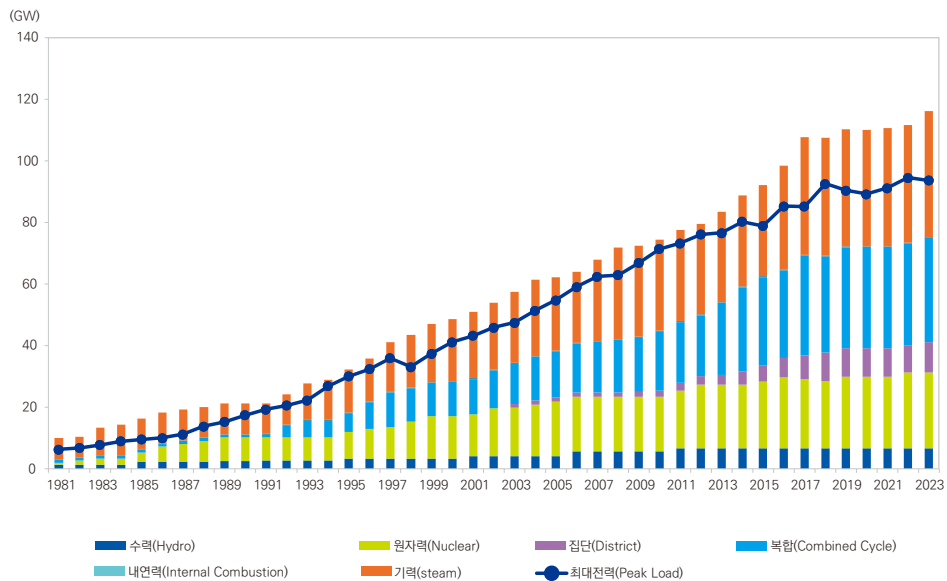


5. 에너지설비 Energy Facilities

● 정제 능력 Refining Capacities

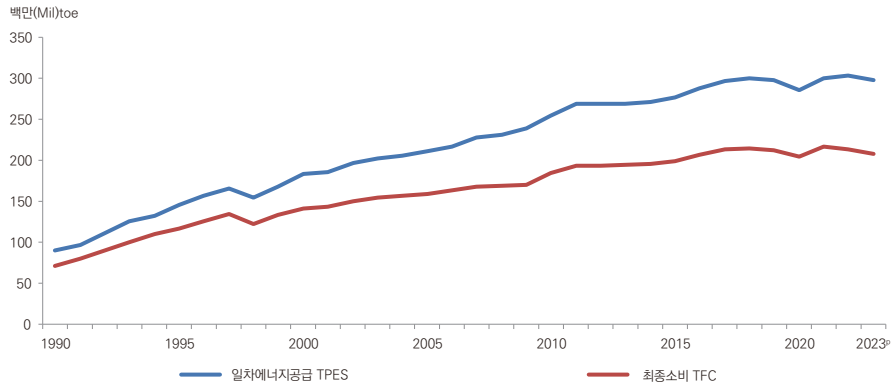


● 발전설비 Generating Facilities



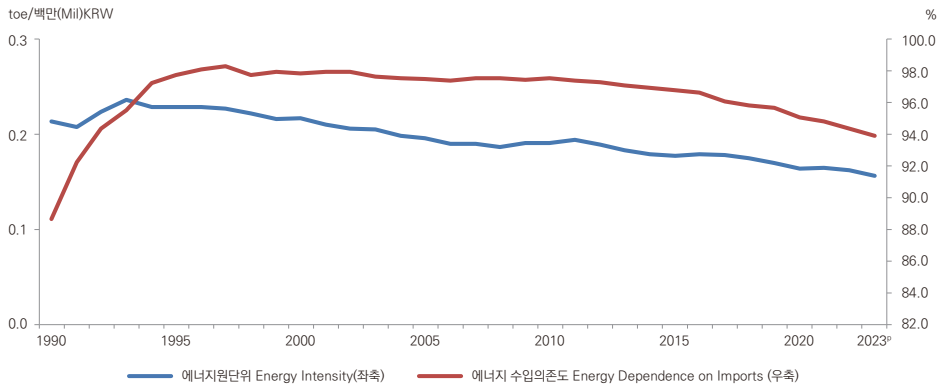
● 일차에너지 공급, 최종소비 Total Primary Energy Supply, Total Final Consumption

〈1990~2023〉



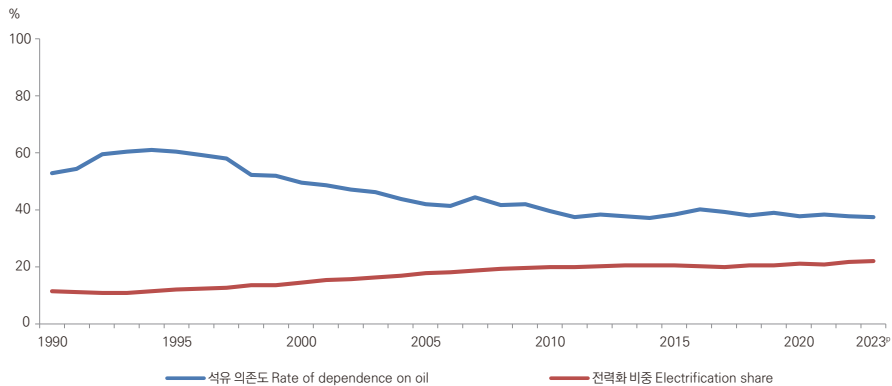
● 에너지원단위, 에너지 수입의존도 Energy Intensity, Energy Dependence on Imports

〈1990~2023〉



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

〈1990~2023〉



1. 주요 에너지 지표

	국내생산 Production	수입 Imports	수출 Exports	일차에너지공급 ¹ TPES ¹	일차에너지소비 ² TPEC ²	전환공정 ³ Transformation 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	89,775	-16,534
1991	21,749	91,662	10,422	96,801	96,733	-14,464
1992	20,314	111,664	13,882	110,524	109,595	-17,341
1993	19,865	128,363	15,480	124,999	123,301	-21,145
1994	18,624	138,940	14,043	132,512	132,861	-20,289
1995	20,362	152,793	17,783	145,618	144,202	-23,958
1996	21,704	171,493	22,971	156,834	158,424	-28,913
1997	22,524	190,741	33,463	165,755	168,556	-26,262
1998	26,197	181,585	42,283	154,234	156,327	-27,053
1999	29,494	194,268	42,594	167,342	171,018	-29,932
2000	31,255	210,191	43,507	183,079	183,965	-35,612
2001	31,754	208,280	41,898	185,810	188,028	-37,194
2002	33,647	207,798	33,546	196,453	198,607	-41,385
2003	36,943	210,798	29,226	201,738	205,092	-44,022
2004	37,480	217,781	32,640	205,220	209,408	-45,319
2005	41,419	217,485	38,088	211,345	212,573	-45,475
2006	42,065	230,063	40,262	216,261	220,646	-49,662
2007	35,823	243,214	40,063	228,129	231,504	-55,520
2008	37,619	253,725	45,589	231,299	236,284	-58,254
2009	37,603	254,840	44,630	238,482	240,029	-61,140
2010	38,097	280,301	48,575	254,436	257,952	-65,417
2011	40,336	300,431	56,548	269,200	273,215	-70,219
2012	38,966	302,067	59,862	268,994	274,822	-71,531
2013	37,065	306,375	60,318	269,532	273,047	-69,322
2014	41,424	307,855	62,804	271,253	274,299	-67,956
2015	43,798	316,749	66,736	276,803	279,260	-70,650
2016	44,106	327,086	68,509	288,048	287,770	-70,651
2017	43,378	341,836	71,507	296,739	296,194	-72,861
2018	41,133	354,195	74,876	300,754	304,474	-78,392
2019	44,078	338,899	72,524	297,629	301,516	-77,349
2020	48,325	313,504	65,398	285,553	291,346	-75,334
2021	49,234	326,860	62,374	300,550	308,250	-80,133
2022	54,621	336,443	69,338	303,980	309,897	-84,687
2023 ^p	56,517	326,760	68,758	297,598	304,300	-84,747

1. Total Primary Energy Supply

2. Total Primary Energy Consumption

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

4. Total Final Consumption

5. 수입-수출

6. 일차에너지공급량(TPES) 중 수입에너지가 차지하는 비중. 괄호는 원자력을 수입에너지에서 제외

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

8. 통계청, 「장래인구추계」

1. Major Energy Indicators

최종소비 ⁴ TFC ⁴ 1,000 toe	순수입 ⁵ Net imports ⁵ 1,000 toe	에너지 수입의존도 ⁶ Rate of dependence on imports ⁶ %	TPES/GDP ⁷ toe/mil.won	TFC/GDP ⁷ toe/mil.won	TPES/인구 ⁸ TPES /population ⁸ toe/capita	TFC/인구 ⁸ TFC /population ⁸ toe/capita	
71,149	70,607	88.7 (73.9)	0.181	0.144	2.09	1.66	1990
80,179	81,240	92.2 (77.7)	0.176	0.146	2.24	1.85	1991
89,965	97,782	94.3 (81.6)	0.189	0.154	2.53	2.06	1992
99,399	112,882	95.5 (83.9)	0.200	0.159	2.83	2.25	1993
109,321	124,897	97.2 (86.2)	0.194	0.160	2.97	2.45	1994
116,507	135,010	97.7 (86.2)	0.194	0.155	3.23	2.58	1995
125,595	148,522	98.1 (86.3)	0.193	0.155	3.45	2.76	1996
134,487	157,279	98.3 (86.6)	0.192	0.156	3.61	2.93	1997
122,026	139,302	97.7 (83.2)	0.188	0.149	3.33	2.64	1998
133,012	151,674	97.9 (82.5)	0.183	0.146	3.59	2.85	1999
140,956	166,684	97.8 (82.9)	0.183	0.141	3.89	3.00	2000
143,588	166,382	98.0 (82.9)	0.178	0.137	3.92	3.03	2001
150,380	174,252	97.9 (82.8)	0.174	0.134	4.12	3.16	2002
154,107	181,572	97.6 (81.6)	0.174	0.133	4.21	3.22	2003
156,559	185,140	97.5 (81.6)	0.168	0.128	4.27	3.26	2004
158,920	179,396	97.5 (80.1)	0.166	0.125	4.39	3.30	2005
162,883	189,801	97.4 (80.2)	0.161	0.121	4.46	3.36	2006
167,623	203,151	97.5 (84.1)	0.161	0.118	4.69	3.44	2007
169,049	208,136	97.5 (83.5)	0.158	0.116	4.72	3.45	2008
170,068	210,210	97.4 (84.1)	0.162	0.115	4.84	3.45	2009
184,372	231,726	97.5 (85.0)	0.161	0.117	5.13	3.72	2010
193,576	243,883	97.4 (85.0)	0.165	0.118	5.39	3.88	2011
193,602	242,205	97.3 (85.5)	0.160	0.115	5.36	3.86	2012
194,844	246,057	97.1 (86.2)	0.156	0.112	5.34	3.86	2013
195,827	245,051	96.9 (84.8)	0.152	0.110	5.35	3.86	2014
198,618	250,013	96.8 (84.2)	0.150	0.108	5.43	3.89	2015
206,742	258,577	96.6 (84.7)	0.152	0.109	5.62	4.04	2016
213,147	270,329	96.1 (85.4)	0.151	0.109	5.78	4.15	2017
214,407	279,318	95.8 (86.3)	0.148	0.106	5.83	4.16	2018
212,132	266,375	95.7 (85.2)	0.144	0.102	5.75	4.10	2019
203,956	248,106	95.0 (83.1)	0.139	0.099	5.51	3.93	2020
216,245	264,486	94.8 (83.6)	0.140	0.100	5.81	4.18	2021
213,572	267,105	94.4 (82.0)	0.137	0.097	5.88	4.13	2022
208,172	258,002	93.9 (81.0)	0.133	0.093	5.75	4.03	2023 ^P

1. Total Primary Energy Supply

2. Total Primary Energy Consumption

3. 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

4. Total Final Consumption

5. Imports-Exports

6. The proportion of imported energy in the TPES. Figures in parentheses include nuclear generation from import.

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

8. Statistics Korea, 'National population projection for Korea'

2. 에너지 생산 및 수출입

단위: 천 toe

	생산								
	Production	석탄 Coal	천연가스 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
2022	54,621	386	-	2	8,251	7,657	37,500	755	69
2023 ^P	56,517	304	-	-	8,942	7,960	38,445	792	73

2. Energy Production, Imports and Exports

Unit: Thousand toe

수입 Imports	석탄 Coal	천연가스 Natural gas	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products	수출 Exports	석탄 Coal	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products	
74,609	15,832	2,909	42,465	13,403	4,002	5	-	3,997	1990
91,662	19,331	3,243	54,600	14,487	10,422	4	-	10,418	1991
111,664	20,190	3,892	69,996	17,586	13,882	2	112	13,769	1992
128,363	23,567	5,797	77,531	21,468	15,480	0	94	15,386	1993
138,940	25,904	7,795	80,727	24,514	14,043	104	148	13,791	1994
152,793	28,942	8,782	88,810	26,259	17,783	4	31	17,748	1995
171,493	30,616	12,035	101,430	27,411	22,971	1	280	22,691	1996
190,741	32,774	14,912	119,950	23,106	33,463	53	266	33,143	1997
181,585	34,450	13,246	112,392	21,498	42,283	3	48	42,232	1998
194,268	35,229	15,970	120,594	22,474	42,594	1	49	42,544	1999
210,191	41,943	19,811	123,049	25,388	43,507	3	129	43,374	2000
208,280	43,822	19,913	118,891	25,653	41,898	1	134	41,763	2001
207,798	46,058	23,390	109,680	28,670	33,546	1	163	33,382	2002
210,798	47,109	25,101	111,227	27,361	29,226	1	57	29,168	2003
217,781	51,995	28,316	113,564	23,906	32,640	7	17	32,616	2004
217,485	50,266	29,013	116,537	21,669	38,088	12	5	38,071	2005
230,063	52,053	32,832	121,897	23,280	40,262	9	4	40,250	2006
243,214	56,340	33,240	128,166	25,469	40,063	9	79	39,975	2007
253,725	63,723	35,436	127,156	27,409	45,589	26	314	45,248	2008
254,840	65,216	33,568	122,816	33,239	44,630	4	415	44,211	2009
280,301	75,340	42,384	128,349	34,227	48,575	8	620	47,946	2010
300,431	82,125	47,690	136,259	34,358	56,548	41	751	55,756	2011
302,067	78,261	47,184	138,986	37,636	59,862	20	460	59,382	2012
306,375	78,923	51,998	134,607	40,847	60,318	40	369	59,909	2013
307,855	81,782	48,388	136,928	40,757	62,804	28	185	62,591	2014
316,749	84,123	43,509	150,983	38,134	66,736	12	446	66,278	2015
327,086	83,621	43,623	158,918	40,923	68,509	1	670	67,839	2016
341,836	89,227	49,023	165,241	38,344	71,507	86	455	70,965	2017
354,195	89,484	57,484	165,588	41,639	74,876	47	764	74,065	2018
338,899	85,586	53,217	157,955	42,140	72,524	12	138	72,374	2019
313,504	74,875	52,217	145,093	41,319	65,398	110	80	65,207	2020
326,860	76,172	59,987	143,343	47,359	62,374	217	323	61,835	2021
336,443	75,794	60,683	156,690	43,276	69,338	19	331	68,987	2022
326,760	72,434	57,705	152,166	44,455	68,758	0	466	68,292	2023 ^p

3. 에너지 수입액

단위: 백만달러

	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	19
1991	81,525	9,921	12.2	1,600	66	1,514	20
1992	81,775	14,281	17.5	1,616	42	1,535	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	18,643	13.8	2,081	35	1,992	54
1996	150,339	24,003	16.0	2,337	46	2,251	40
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	1,866	53
2000	160,481	37,622	23.4	2,186	72	2,033	80
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	447	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	519,584	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	13,062	219
2020	467,633	85,444	18.3	9,596	611	8,805	181
2021	615,093	135,935	22.1	14,699	889	13,485	325
2022	731,370	216,409	29.6	28,332	1,661	26,231	441
2023 ^P	642,572	171,437	26.7	20,178	1,005	18,893	280

1. 기타석탄에 갈탄, 토탄 포함

자료: 무역협회

3. Import Amount of Energy

Unit: Million USD(CIF)

천연가스 Natural gas	석유 Oil			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
50,022	137,603	107,255	30,348	451	2022
36,049	114,109	87,734	26,375	1,101	2023 ^p

1. Includes brown coal and peat in others

Source: Korea International Trade Association

4. 일차에너지공급¹

단위: 천 toe

	합계		석탄		천연가스		석유 ²		바이오 및 폐기물	
	Total	증가율 Growth Rate %	Coal	구성비 Composition ratio %	Natural gas	구성비 Composition ratio %	Oil ²	구성비 Composition ratio %	Biofuels and waste	구성비 Composition ratio %
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	52,669	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	87,805	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	165,755	5.7	34,408	20.8	14,606	8.8	96,247	58.1	470	0.3
1998	154,234	-7.0	36,170	23.5	13,347	8.7	80,482	52.2	688	0.4
1999	167,342	8.5	37,011	22.1	15,955	9.5	86,771	51.9	748	0.4
2000	183,079	9.4	43,143	23.6	19,743	10.8	90,805	49.6	1,088	0.6
2001	185,810	1.5	45,838	24.7	19,722	10.6	90,214	48.6	1,366	0.7
2002	196,453	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	92,872	46.0	1,754	0.9
2004	205,220	1.7	51,886	25.3	27,827	13.6	89,677	43.7	1,999	1.0
2005	211,345	3.0	52,975	25.1	30,367	14.4	88,432	41.8	1,873	0.9
2006	216,261	2.3	54,361	25.1	32,023	14.8	89,591	41.4	2,108	1.0
2007	228,129	5.5	58,149	25.5	34,665	15.2	101,220	44.4	2,433	1.1
2008	231,299	1.4	64,925	28.1	33,792	14.6	96,512	41.7	2,718	1.2
2009	238,482	3.1	67,094	28.1	35,203	14.8	100,304	42.1	3,104	1.3
2010	254,436	6.7	76,008	29.9	41,718	16.4	100,177	39.4	3,274	1.3
2011	269,200	5.8	82,386	30.6	47,318	17.6	100,623	37.4	3,881	1.4
2012	268,994	-0.1	79,059	29.4	49,554	18.4	102,834	38.2	4,245	1.6
2013	269,532	0.2	80,538	29.9	51,943	19.3	101,307	37.6	4,631	1.7
2014	271,253	0.6	82,764	30.5	47,409	17.5	100,793	37.2	5,585	2.1
2015	276,803	2.0	83,650	30.2	43,967	15.9	106,387	38.4	6,011	2.2
2016	288,048	4.1	83,989	29.2	45,552	15.8	115,344	40.0	6,447	2.2
2017	296,739	3.0	89,786	30.3	48,583	16.4	116,068	39.1	7,532	2.5
2018	300,754	1.4	90,965	30.2	55,105	18.3	114,451	38.1	7,985	2.7
2019	297,629	-1.0	85,048	28.6	53,891	18.1	115,409	38.8	7,601	2.6
2020	285,553	-4.1	75,983	26.6	53,956	18.9	107,971	37.8	7,479	2.6
2021	300,550	5.3	76,968	25.6	59,628	19.8	115,205	38.3	8,052	2.7
2022	303,980	1.1	75,869	25.0	59,203	19.5	114,676	37.7	8,252	2.7
2023 ^P	297,598	-2.1	73,700	24.8	56,648	19.0	111,036	37.3	8,943	3.0

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

2. 원유 및 정제원료, 석유제품

4. Primary Energy Supply¹

Unit: Thousand toe

지열, 태양 및 기타		원자력		수력		열		
Geothermal, solar, etc.	구성비 Composition ratio %	Nuclear	구성비 Composition ratio %	Hydro	구성비 Composition ratio %	Heat	구성비 Composition ratio %	
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
7,657	2.5	37,500	12.3	755	0.2	69	0.0	2022
7,960	2.7	38,445	12.9	792	0.3	73	0.0	2023 ^p

1. Production(+)+Imports(+)+Exports(-)+International Marine Bunkers(-)+International Aviation Bunkers(-)+Stock changes(±)

2. Crude oil, refinery feedstocks and Petroleum products

5. 일차에너지소비¹

단위: 천 toe

	합계		석탄		가스 ²		석유 ³		바이오 및 폐기물	
	Total	증가율 Growth Rate %	Coal	구성비 Composition ratio %	Gas ²	구성비 Composition ratio %	Oil ³	구성비 Composition ratio %	Biofuels and waste	구성비 Composition ratio %
1990	89,775	-	25,217	28.1	3,280	3.7	46,466	51.8	6	0.0
1991	96,733	7.8	25,867	26.7	3,886	4.0	52,007	53.8	9	0.0
1992	109,595	13.3	25,034	22.8	5,117	4.7	64,517	58.9	5	0.0
1993	123,301	12.5	27,464	22.3	6,390	5.2	73,831	59.9	7	0.0
1994	132,861	7.8	28,589	21.5	8,483	6.4	80,512	60.6	7	0.0
1995	144,202	8.5	29,513	20.5	10,236	7.1	86,664	60.1	315	0.2
1996	158,424	9.9	34,257	21.6	13,129	8.3	91,563	57.8	353	0.2
1997	168,556	6.4	36,301	21.5	15,569	9.2	96,192	57.1	470	0.3
1998	156,327	-7.3	37,412	23.9	14,337	9.2	80,343	51.4	688	0.4
1999	171,018	9.4	39,563	23.1	17,311	10.1	86,538	50.6	748	0.4
2000	183,965	7.6	44,204	24.0	19,322	10.5	91,050	49.5	1,088	0.6
2001	188,028	2.2	47,045	25.0	20,482	10.9	90,466	48.1	1,366	0.7
2002	198,607	5.6	50,388	25.4	22,947	11.6	93,118	46.9	1,516	0.8
2003	205,092	3.3	52,325	25.5	24,055	11.7	93,253	45.5	1,754	0.9
2004	209,408	2.1	55,201	26.4	28,224	13.5	90,152	43.1	1,999	1.0
2005	212,573	1.5	56,113	26.4	30,194	14.2	86,696	40.8	1,873	0.9
2006	220,646	3.8	57,992	26.3	33,026	15.0	89,343	40.5	2,108	1.0
2007	231,504	4.9	60,957	26.3	35,142	15.2	101,312	43.8	2,430	1.0
2008	236,284	2.1	67,813	28.7	35,944	15.2	96,456	40.8	2,718	1.2
2009	240,029	1.6	70,422	29.3	34,140	14.2	99,586	41.5	3,103	1.3
2010	257,952	7.5	78,777	30.5	43,019	16.7	99,623	38.6	3,274	1.3
2011	273,215	5.9	86,200	31.6	46,261	16.9	101,881	37.3	3,881	1.4
2012	274,822	0.6	82,677	30.1	49,819	18.1	104,779	38.1	4,245	1.5
2013	273,047	-0.6	82,627	30.3	53,059	19.4	101,615	37.2	4,631	1.7
2014	274,299	0.5	85,158	31.0	48,009	17.5	100,846	36.8	5,585	2.0
2015	279,260	1.8	85,526	30.6	44,147	15.8	106,787	38.2	6,011	2.2
2016	287,770	3.0	83,240	28.9	45,822	15.9	115,546	40.2	6,447	2.2
2017	296,194	2.9	88,328	29.8	47,715	16.1	117,864	39.8	7,518	2.5
2018	304,474	2.8	90,962	29.9	55,450	18.2	117,829	38.7	7,985	2.6
2019	301,516	-1.0	85,737	28.4	54,023	17.9	118,473	39.3	7,603	2.5
2020	291,346	-3.4	75,911	26.1	54,537	18.7	113,254	38.9	7,479	2.6
2021	308,250	5.8	78,169	25.4	60,072	19.5	121,261	39.3	8,052	2.6
2022	309,897	6.4	75,134	24.2	59,381	19.2	121,149	39.1	8,252	2.7
2023 ^P	304,300	-1.3	72,484	23.8	57,628	18.9	117,975	38.8	8,942	2.9

1. -전환공정(±)-전환자체소비(-)-손실(±)+최종소비(+)

2. 천연가스, 도시가스

3. 원유 및 정제원료, 석유제품

5. Primary Energy Consumption¹

Unit: Thousand toe

지열, 태양 및 기타		원자력		수력		열		
Geothermal, solar, etc.	구성비 Composition ratio %	Nuclear	구성비 Composition ratio %	Hydro	구성비 Composition ratio %	Heat	구성비 Composition ratio %	
10	0.0	13,222	14.7	1,571	1.7	3	0.0	1990
12	0.0	14,078	14.6	872	0.9	3	0.0	1991
13	0.0	14,133	12.9	774	0.7	2	0.0	1992
15	0.0	14,535	11.8	1,057	0.9	3	0.0	1993
18	0.0	14,663	11.0	587	0.4	3	0.0	1994
23	0.0	16,757	11.6	690	0.5	3	0.0	1995
33	0.0	18,481	11.7	606	0.4	3	0.0	1996
47	0.0	19,271	11.4	703	0.4	2	0.0	1997
45	0.0	22,422	14.3	1,070	0.7	9	0.0	1998
45	0.0	25,766	15.1	1,040	0.6	7	0.0	1999
47	0.0	27,241	14.8	1,002	0.5	10	0.0	2000
42	0.0	28,033	14.9	582	0.3	13	0.0	2001
40	0.0	29,776	15.0	808	0.4	14	0.0	2002
41	0.0	32,418	15.8	1,226	0.6	20	0.0	2003
52	0.0	32,679	15.6	1,082	0.5	19	0.0	2004
73	0.0	36,695	17.3	919	0.4	12	0.0	2005
107	0.0	37,187	16.9	867	0.4	17	0.0	2006
137	0.1	30,731	13.3	781	0.3	14	0.0	2007
199	0.1	32,456	13.7	660	0.3	38	0.0	2008
343	0.1	31,771	13.2	616	0.3	49	0.0	2009
499	0.2	31,948	12.4	797	0.3	16	0.0	2010
602	0.2	33,265	12.2	989	0.4	135	0.0	2011
622	0.2	31,719	11.5	838	0.3	124	0.0	2012
811	0.3	29,283	10.7	906	0.3	113	0.0	2013
1,051	0.4	33,002	12.0	581	0.2	68	0.0	2014
1,444	0.5	34,765	12.4	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	9.3	719	0.2	68	0.0	2018
3,940	1.3	31,079	10.3	594	0.2	66	0.0	2019
5,146	1.8	34,119	11.7	826	0.3	73	0.0	2020
6,320	2.1	33,657	10.9	651	0.2	68	0.0	2021
7,657	2.5	37,500	12.1	755	0.2	69	0.0	2022
7,960	2.6	38,445	12.6	792	0.3	73	0.0	2023 ^P

1. -Transformation processes(±)-Transformation own use(-)-Losses(±)+Total final consumption(+)

2. Natural gas, City gas

3. Crude oil, refinery feedstocks and Petroleum products

6. 전환부문

단위: 천 toe

	전환공정 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	-16,534	-4,688	-2,264	-42,930	38,811	-
1991	-14,464	-4,703	-2,340	-54,459	51,814	-
1992	-17,341	-5,084	-2,892	-69,730	64,008	-
1993	-21,145	-6,893	-3,370	-77,318	69,468	-
1994	-20,289	-9,021	-4,438	-79,203	73,104	-
1995	-23,958	-10,091	-4,772	-89,478	81,011	-
1996	-28,913	-13,668	-6,200	-100,960	92,149	-
1997	-26,262	-15,960	-7,233	-119,975	116,259	-
1998	-27,053	-17,997	-5,680	-113,999	114,237	-
1999	-29,932	-19,707	-6,457	-120,291	121,004	-
2000	-35,612	-22,988	-6,167	-122,721	120,467	-
2001	-37,194	-25,257	-6,364	-119,076	116,471	-2
2002	-41,385	-27,562	-7,950	-111,545	108,765	-29
2003	-44,022	-28,580	-8,034	-108,969	106,256	-35
2004	-45,319	-30,807	-10,914	-113,796	113,264	-45
2005	-45,475	-32,287	-11,616	-117,849	120,442	-40
2006	-49,662	-33,728	-13,504	-120,394	121,382	-46
2007	-55,520	-35,263	-15,528	-129,380	119,650	-73
2008	-58,254	-39,949	-15,374	-126,589	118,681	-120
2009	-61,140	-45,277	-13,351	-122,316	113,262	-104
2010	-65,417	-48,520	-19,341	-127,387	120,493	-104
2011	-70,219	-50,469	-21,363	-136,035	127,844	-329
2012	-71,531	-49,409	-23,821	-140,257	128,951	-167
2013	-69,322	-49,808	-26,860	-135,626	127,636	-332
2014	-67,956	-48,841	-23,992	-138,315	131,787	-1,056
2015	-70,650	-50,047	-21,356	-151,389	142,545	-1,501
2016	-70,651	-48,933	-21,867	-159,440	148,098	-990
2017	-72,861	-53,157	-22,218	-170,698	158,831	-1,487
2018	-78,392	-55,585	-27,493	-175,087	161,251	-1,588
2019	-77,349	-51,690	-26,226	-173,726	159,768	-1,852
2020	-75,334	-43,524	-26,952	-164,058	149,673	-1,653
2021	-80,133	-44,254	-31,326	-164,777	149,437	-1,811
2022	-84,687	-44,291	-30,620	-176,957	160,111	-2,092
2023 ³	-84,747	-41,977	-29,482	-176,579	158,996	-2,400

1. 전환공정은 이차 연료를 생산하는데 투입된 연료들과 전기 및 판매용 열을 생산하기 위해 사용한 연료의 양은 음의 값으로, 생산된 에너지 제품은 양의 값으로 기입

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

6. 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	
-	-13,222	-1,571	9,254	76	-1,529	-563	1990
-	-14,078	-872	10,068	107	-1,448	-643	1991
-	-14,133	-774	11,112	151	-1,527	-761	1992
-	-14,535	-1,057	12,270	290	-1,816	-941	1993
-	-14,663	-587	14,040	480	-2,012	-1,239	1994
-	-16,757	-690	15,648	1,172	-2,389	-1,348	1995
-	-18,481	-606	17,435	1,418	-2,372	-1,544	1996
-	-19,271	-703	19,080	1,542	-6,233	-1,574	1997
-0	-22,422	-1,070	18,362	1,515	-5,751	-1,497	1998
-1	-25,766	-1,040	20,420	1,905	-6,198	-1,876	1999
-2	-27,241	-1,002	22,776	1,267	-6,260	-1,136	2000
-3	-28,033	-582	24,377	1,277	-6,133	-1,114	2001
-4	-29,776	-808	26,183	1,340	-5,715	-1,127	2002
-6	-32,418	-1,221	27,566	1,419	-5,883	-1,080	2003
-10	-32,679	-1,078	29,298	1,447	-6,412	-1,117	2004
-31	-36,695	-918	31,233	2,287	-6,345	-1,833	2005
-59	-37,187	-867	32,637	2,104	-6,296	-1,805	2006
-83	-30,731	-781	34,553	2,118	-6,423	-1,939	2007
-136	-32,456	-660	36,112	2,237	-6,942	-2,039	2008
-268	-31,771	-605	37,052	2,239	-6,773	-2,048	2009
-406	-31,948	-792	40,587	2,001	-6,597	-1,566	2010
-486	-33,265	-988	42,462	2,411	-7,291	-2,129	2011
-476	-31,719	-837	43,517	2,688	-7,411	-2,279	2012
-621	-29,283	-905	44,131	2,346	-7,057	-1,824	2013
-795	-33,002	-581	44,462	2,376	-8,507	-2,009	2014
-1,122	-34,765	-453	45,113	2,325	-8,084	-1,908	2015
-1,408	-34,181	-601	46,164	2,507	-8,347	-2,030	2016
-1,893	-31,615	-598	47,257	2,717	-8,051	-2,134	2017
-2,381	-28,437	-716	48,752	2,891	-9,710	-1,966	2018
-3,183	-31,079	-594	48,138	3,095	-9,939	-2,095	2019
-4,304	-34,119	-826	47,219	3,210	-9,876	-2,180	2020
-5,420	-33,657	-651	49,304	3,022	-10,009	-1,863	2021
-6,551	-37,500	-754	50,813	3,156	-9,801	-1,837	2022
-7,147	-38,445	-792	50,262	2,815	-10,087	-1,293	2023 ²

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

7. 원별 최종소비

Total Final Consumption by Source

단위: 천 toe

Unit: Thousand toe

	합계 Total	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	71,149	20,528	1,016	41,591	-	6	10	7,997	-
1991	80,179	21,164	1,546	48,613	-	9	12	8,835	-
1992	89,965	19,950	2,225	58,021	-	5	13	9,751	-
1993	99,399	20,571	3,020	64,980	-	7	15	10,806	-
1994	109,321	19,568	4,045	73,286	-	7	18	12,398	-
1995	116,507	19,422	5,464	76,814	-	315	23	13,832	637
1996	125,595	20,589	6,929	81,458	-	353	33	15,425	809
1997	134,487	20,341	8,033	87,717	-	470	47	16,953	928
1998	122,026	19,415	8,370	76,238	-	688	45	16,386	884
1999	133,012	19,855	10,458	82,739	-	748	43	18,136	1,033
2000	140,956	21,217	12,717	84,409	-	1,088	45	20,273	1,208
2001	143,588	21,788	13,600	83,759	-	1,364	39	21,822	1,217
2002	150,380	22,827	14,928	86,294	-	1,487	37	23,584	1,224
2003	154,107	23,744	15,807	86,604	4	1,720	36	24,796	1,395
2004	156,559	24,394	16,677	85,685	5	1,954	42	26,353	1,449
2005	158,920	23,826	18,304	85,207	0	1,818	42	28,072	1,652
2006	162,883	24,264	19,281	86,255	0	2,059	48	29,427	1,549
2007	167,623	25,694	19,437	87,399	0	2,354	53	31,108	1,576
2008	169,049	27,864	20,345	84,044	0	2,596	63	32,467	1,669
2009	170,068	25,145	20,720	86,249	11	2,919	75	33,235	1,715
2010	184,372	30,256	23,321	88,981	5	3,168	93	36,595	1,953
2011	193,576	35,732	24,287	89,678	0	3,483	117	38,325	1,954
2012	193,602	33,267	25,524	89,321	0	3,994	146	39,264	2,085
2013	194,844	32,819	26,013	89,530	1	4,299	190	39,943	2,049
2014	195,827	36,317	22,506	90,177	1	4,529	256	40,103	1,938
2015	198,618	35,479	22,437	93,333	1	4,510	322	40,630	1,905
2016	206,742	34,307	23,710	99,092	3	5,457	406	41,692	2,075
2017	213,147	35,171	24,951	101,576	2	6,031	534	42,582	2,300
2018	214,407	35,377	25,579	99,734	3	6,397	643	44,139	2,535
2019	212,132	34,046	25,021	100,457	1	5,751	757	43,628	2,471
2020	203,956	32,387	24,710	94,865	0	5,826	842	42,733	2,592
2021	216,245	33,915	25,478	102,260	1	6,241	900	44,748	2,701
2022	213,572	30,842	25,957	100,520	1	6,159	1,106	46,041	2,946
2023 ^P	208,172	30,507	24,932	96,585	1	6,542	813	45,982	2,809

1. 천연가스, 도시가스

1. Natural gas, City gas

8. 부문별 최종소비

Total Final Consumption by Sector

단위: 천 toe

Unit: Thousand toe

	합계 Total	산업 Industry	수송 Transport	가정 Residential	상업·공공 Commercial & Public
1990	71,149	36,798	12,140	11,262	10,948
1991	80,179	43,113	13,703	10,300	13,063
1992	89,965	50,075	15,514	9,868	14,509
1993	99,399	54,749	18,319	9,477	16,855
1994	109,321	61,691	20,351	9,235	18,044
1995	116,507	62,275	22,920	10,712	20,600
1996	125,595	67,032	24,430	11,713	22,421
1997	134,487	72,649	26,202	12,075	23,560
1998	122,026	71,774	20,481	10,962	18,809
1999	133,012	76,172	22,373	13,837	20,630
2000	140,956	80,962	25,007	16,284	18,703
2001	143,588	81,672	26,225	17,020	18,671
2002	150,380	85,166	28,007	17,791	19,416
2003	154,107	86,781	29,001	17,877	20,448
2004	156,559	89,006	29,178	18,063	20,312
2005	158,920	89,812	29,729	19,754	19,625
2006	162,883	92,597	30,928	19,612	19,745
2007	167,623	97,376	30,496	18,872	20,879
2008	169,049	98,690	30,007	19,347	21,004
2009	170,068	99,033	30,389	19,349	21,297
2010	184,372	109,779	31,009	20,733	22,851
2011	193,576	119,520	31,016	20,490	22,550
2012	193,602	118,736	31,502	20,401	22,963
2013	194,844	120,846	32,017	20,166	21,816
2014	195,827	122,824	32,406	18,876	21,722
2015	198,618	122,434	34,509	18,939	22,735
2016	206,742	126,809	36,029	20,150	23,754
2017	213,147	131,574	36,260	20,927	24,386
2018	214,407	131,130	36,227	22,122	24,929
2019	212,132	129,609	37,193	21,560	23,770
2020	203,956	124,223	34,745	22,356	22,632
2021	216,245	133,541	36,636	22,940	23,128
2022	213,572	129,553	36,293	23,560	24,165
2023 ^P	208,172	126,412	35,316	22,058	24,385

8-1. 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	36,798	11,942	239	19,641	-	-	4,975	-
1991	43,113	14,371	319	22,958	-	-	5,464	-
1992	50,075	14,945	386	28,841	-	-	5,904	-
1993	54,749	17,100	478	30,769	-	-	6,402	-
1994	61,691	17,514	617	36,358	-	-	7,203	-
1995	62,275	18,091	875	35,192	33	-	8,085	-
1996	67,032	19,721	1,159	37,191	13	-	8,949	-
1997	72,649	19,727	1,495	41,643	33	-	9,752	-
1998	71,774	18,930	1,813	41,679	246	-	9,107	-
1999	76,172	19,414	2,533	43,862	256	-	10,107	-
2000	80,962	20,746	3,516	45,030	624	0	11,047	-
2001	81,672	21,464	4,181	44,081	611	0	11,335	-
2002	85,166	22,507	4,607	45,449	542	0	12,060	-
2003	86,781	23,430	4,773	45,465	633	0	12,480	-
2004	89,006	23,929	5,148	46,042	757	1	13,130	-
2005	89,812	23,151	5,287	46,354	1,189	1	13,830	-
2006	92,597	23,484	6,165	47,288	1,201	1	14,458	-
2007	97,376	24,951	6,063	49,601	1,334	2	15,426	-
2008	98,690	27,045	6,647	47,434	1,474	1	16,089	-
2009	99,033	24,437	6,801	49,849	1,628	2	16,316	-
2010	109,779	29,570	8,289	51,920	1,545	5	18,449	-
2011	119,520	35,042	9,383	53,194	1,874	9	20,018	-
2012	118,736	32,607	10,503	52,988	2,061	15	20,562	-
2013	120,846	32,125	11,101	53,151	3,254	21	21,194	-
2014	122,824	35,723	8,702	53,631	2,959	21	21,788	-
2015	122,434	34,940	8,670	53,966	2,947	31	21,880	-
2016	126,809	33,780	9,239	57,970	3,622	32	22,165	-
2017	131,574	34,710	9,783	60,217	4,121	34	22,710	-
2018	131,130	34,989	9,628	58,942	4,252	29	23,289	0
2019	129,609	33,740	9,618	59,336	3,945	44	22,925	0
2020	124,223	32,147	9,423	56,714	3,981	48	21,908	0
2021	133,541	33,704	9,952	62,312	4,337	55	23,182	-
2022	129,553	30,643	9,904	60,966	4,405	65	23,570	-
2023 ^p	126,412	30,324	10,026	58,334	4,575	64	23,088	-

1. 천연가스, 도시가스

8-1. 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
2,200	207	39,049	1,656	1991
2,426	193	45,383	2,072	1992
2,654	166	49,941	1,987	1993
3,020	161	56,560	1,950	1994
3,251	168	56,903	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	74,537	2,145	2000
4,599	153	74,683	2,238	2001
4,550	163	78,239	2,214	2002
4,005	181	80,324	2,270	2003
3,699	175	82,641	2,492	2004
3,468	186	83,757	2,402	2005
3,549	211	86,165	2,672	2006
3,501	207	91,095	2,574	2007
3,165	196	92,934	2,395	2008
3,290	197	92,741	2,805	2009
3,454	240	103,431	2,653	2010
3,349	261	113,354	2,556	2011
3,445	228	112,662	2,401	2012
3,550	228	114,609	2,458	2013
3,053	208	117,270	2,293	2014
2,994	207	116,709	2,524	2015
2,959	212	120,881	2,756	2016
3,432	205	125,288	2,648	2017
3,449	182	125,020	2,478	2018
3,065	184	123,894	2,467	2019
3,218	201	118,448	2,356	2020
3,144	253	127,926	2,218	2021
3,141	261	124,140	2,012	2022
3,013	228	121,088	2,083	2023 ^P

1. Natural gas, City gas

8-2. 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	12,140	-	12,053	-	87
1991	13,703	-	13,609	-	94
1992	15,514	-	15,413	-	101
1993	18,319	-	18,211	-	108
1994	20,351	-	20,227	-	124
1995	22,920	-	22,765	-	155
1996	24,430	-	24,285	-	145
1997	26,202	-	26,051	-	151
1998	20,481	-	20,345	-	136
1999	22,373	-	22,225	-	149
2000	25,007	-	24,831	-	175
2001	26,225	7	26,024	-	194
2002	28,007	80	27,733	-	195
2003	29,001	146	28,655	-	200
2004	29,178	237	28,728	-	213
2005	29,729	339	29,166	-	224
2006	30,928	475	30,192	43	218
2007	30,496	615	29,577	95	209
2008	30,007	777	28,857	177	196
2009	30,389	960	28,981	261	187
2010	31,009	1,112	29,352	357	188
2011	31,016	1,174	29,302	347	193
2012	31,502	1,246	29,705	357	194
2013	32,017	1,302	30,154	375	186
2014	32,406	1,306	30,534	394	172
2015	34,509	1,281	32,596	441	191
2016	36,029	1,270	34,005	523	231
2017	36,260	1,253	34,196	564	246
2018	36,227	1,238	34,038	686	265
2019	37,193	1,216	35,021	685	271
2020	34,745	1,099	32,666	695	285
2021	36,636	1,060	34,554	704	318
2022	36,293	1,025	34,238	682	349
2023 ^P	35,316	988	33,226	696	406

1. 바이오디젤

8-2. Transport

Unit: Thousand toe

모드별(By mode)				
철도 Rail	도로 Road	해운 Navigation	항공 Aviation	
392	11,201	479	68	1990
404	12,940	349	11	1991
416	14,702	385	10	1992
441	16,528	1,344	6	1993
447	18,669	1,226	9	1994
481	21,218	1,215	6	1995
467	23,287	664	11	1996
473	24,849	868	12	1997
452	19,269	744	15	1998
478	21,174	708	13	1999
513	23,549	930	15	2000
535	24,836	839	15	2001
536	26,481	976	15	2002
549	27,418	1,015	19	2003
511	27,678	969	20	2004
501	28,278	930	21	2005
474	28,534	903	1,017	2006
441	29,099	882	75	2007
424	28,353	913	317	2008
388	28,774	837	389	2009
383	29,462	772	392	2010
371	29,335	770	540	2011
370	29,523	732	876	2012
342	30,446	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	34,133	345	1,393	2018
346	35,074	409	1,365	2019
333	33,451	336	625	2020
332	34,199	428	1,676	2021
300	33,858	464	1,671	2022
295	33,664	460	898	2023 ^P

1. Bio Diesel

8-3. 건물부문 에너지소비

단위: 천 toe

	합계 Total	에너지원별(By source)				
		석탄 Coal	도시가스 City gas	석유제품 Petroleum products	수력 Hydro	바이오 및 폐기물 Biofuels and waste
1990	22,210	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	16,000	-	7
1994	27,279	2,055	3,428	16,701	-	7
1995	31,312	1,331	4,590	18,857	-	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	34,466	441	7,925	16,652	-	492
2000	34,987	471	9,202	14,547	-	464
2001	35,690	323	9,412	13,655	-	752
2002	37,207	320	10,241	13,112	-	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	8,221	0	925
2008	40,352	819	12,922	7,753	0	945
2009	40,646	708	12,960	7,419	11	1,031
2010	43,584	686	13,920	7,710	5	1,266
2011	43,040	690	13,730	7,183	0	1,262
2012	43,364	660	13,775	6,629	0	1,576
2013	41,981	694	13,610	6,226	1	671
2014	40,598	594	12,498	6,013	1	1,176
2015	41,674	539	12,485	6,770	1	1,122
2016	43,904	527	13,202	7,116	3	1,312
2017	45,313	461	13,915	7,163	2	1,346
2018	47,050	387	14,713	6,754	3	1,459
2019	45,330	306	14,187	6,100	1	1,121
2020	44,988	240	14,189	5,484	0	1,150
2021	46,068	211	14,467	5,395	1	1,201
2022	47,725	199	15,027	5,316	1	1,072
2023 ^P	46,444	183	13,918	5,025	1	1,271

8-3. Building

Unit: Thousand toe

에너지원별(By source)			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	18,044	1994
23	5,593	637	10,712	20,600	1995
33	6,331	809	11,713	22,421	1996
47	7,049	928	12,075	23,560	1997
45	7,143	884	10,962	18,809	1998
43	7,880	1,033	13,837	20,630	1999
44	9,051	1,208	16,284	18,703	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	18,063	20,312	2004
41	14,018	1,652	19,754	19,625	2005
47	14,751	1,549	19,612	19,745	2006
51	15,473	1,576	18,872	20,879	2007
61	16,182	1,669	19,347	21,004	2008
72	16,732	1,715	19,349	21,297	2009
88	17,957	1,953	20,733	22,851	2010
107	18,113	1,954	20,490	22,550	2011
131	18,508	2,085	20,401	22,963	2012
169	18,562	2,049	20,166	21,816	2013
235	18,144	1,938	18,876	21,722	2014
292	18,559	1,905	18,939	22,735	2015
374	19,296	2,075	20,150	23,754	2016
500	19,626	2,300	20,927	24,386	2017
614	20,585	2,535	22,122	24,929	2018
713	20,431	2,471	21,560	23,770	2019
793	20,539	2,592	22,356	22,632	2020
845	21,248	2,701	22,940	23,128	2021
1,041	22,123	2,946	23,560	24,165	2022
749	22,489	2,809	22,058	24,385	2023 ^P

9. 산업별 에너지 투입액(2020)

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	원유정제 처리제품 Refined petroleum products	석유제품 Petroleum products
농림수산물	1,710,944	2.66	-	-	13,943	713,331	30,071
광산물	235,026	5.82	102	-	-	33,101	9,212
음식료품	1,986,762	1.50	-	-	4	134,775	8,102
섬유 및 가죽제품	966,954	1.60	-	-	-	74,419	11,455
목재 및 종이, 인쇄	1,934,495	4.15	-	-	-	122,605	28,321
석탄 및 석유제품	54,940,997	73.69	71,379	48,112,915	2,749	2,949,596	1,066,775
화학제품	38,293,426	13.96	38,286	4,184,638	17,308	23,145,395	1,615,982
비금속광물제품	3,114,771	7.62	356,144	-	30,067	262,615	872,173
1차 금속제품	11,433,293	8.79	3,598,522	-	352,659	89,851	67,174
금속제품	3,512,284	3.17	2,976	-	2,002	94,883	174,161
전자부품, 컴퓨터 통신장비 제조	6,510,599	2.36	-	-	-	48,884	-1,536
정밀기기	208,281	0.57	-	-	-	7,179	1,463
전기장비	1,454,911	1.23	-	-	-	34,635	136,247
기타 기계 및 장비	1,673,162	1.14	-	-	-	52,250	91,146
운송장비	2,395,837	1.04	-	-	-	231,172	51,769
기타 제조업 제품 및 임가공	984,021	1.02	5	-	380	441,829	14,492
전력, 가스 및 증기	37,936,301	42.29	6,826,477	18,951,960	-	2,363,198	36,541
수도, 폐기물 및 재활용 서비스	787,508	2.35	518	-	-	176,891	4,728
건설	1,909,896	0.72	-	-	1,599	1,161,244	217,795
도소매 서비스	5,774,780	1.74	-	-	17	2,983,411	91,894
운송 서비스	14,171,677	9.15	-	-	10,660	11,012,744	670,198
음식점 및 숙박 서비스	2,262,109	1.49	-	-	20,259	1,077,374	21,006
정보통신 및 방송 서비스	1,045,414	0.62	-	-	-	129,663	7,033
금융 및 보험 서비스	716,957	0.39	-	-	-	39,858	2,244
부동산	1,666,608	0.70	-	-	-	217,600	16,266
전문, 과학 및 기술 서비스	5,253,137	2.03	4,530	-	-	983,294	35,914
사업지원 및 임대 서비스	602,080	0.54	-	-	-	297,016	5,791
공공행정·국방	2,004,037	1.19	135	-	44	1,154,348	16,259
교육서비스	3,365,669	2.67	-	-	1,264	976,736	7,958
보건 및 사회복지 서비스	2,041,740	1.14	-	-	17,866	517,564	5,332
문화 및 기타서비스	1,840,103	1.74	-	-	206	339,000	273,730
기타	13,018	0.27	1	-	1,267	9,876	80

주 : 2020년 기준

자료: 한국은행

9. Amount of Energy Input by Industry(2020)

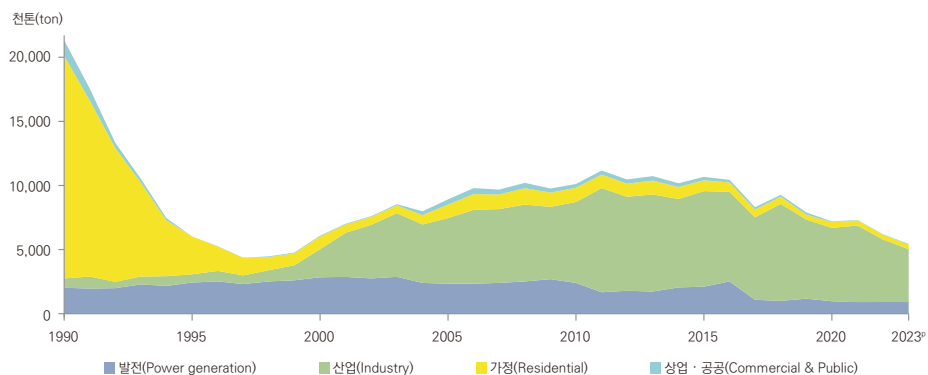
Unit: Million KRW

에너지투입액 Amount of Energy Input(A)			중간투입 Intermediate Input	부가가치 Value added	총투입 Gross Input (B)	
전력 및 신재생에너지 Electricity and renewables	도시가스 City gas	증기 및 온수 Steam & Air Conditioning supply				
952,344	745	510	31,825,325	32,493,861	64,319,186	Agriculture, forestry and fishing
192,029	582	-	2,327,763	1,708,852	4,036,615	Mining and quarrying
1,330,949	484,872	28,060	108,335,743	24,402,889	132,738,632	Food, beverage and tobacco
644,223	78,398	158,459	48,497,256	11,874,627	60,371,883	Textiles, apparel and leather
1,414,418	154,105	215,046	33,419,157	13,242,095	46,661,252	Wood, paper and printing
1,326,691	327,281	1,083,611	73,317,148	1,238,146	74,555,294	Coal and petroleum products
7,009,493	903,040	1,379,284	194,833,924	79,528,608	274,362,532	Chemical products
1,315,772	278,000	-	29,104,349	11,797,708	40,902,057	Non-metallic mineral products
5,961,969	1,363,118	-	105,882,376	24,208,972	130,091,348	Basic metal products
3,072,618	165,644	-	75,852,564	34,947,191	110,799,755	Metal products
6,003,880	417,191	42,180	176,910,623	99,269,840	276,180,463	Electronic components, computer, communication equipment
188,990	10,354	295	24,430,145	12,063,235	36,493,380	Precision instruments
1,183,308	100,721	-	87,857,540	30,460,881	118,318,421	Electrical equipment
1,463,780	52,679	13,307	103,667,442	43,332,339	146,999,781	Other machinery and equipment
1,732,437	380,459	-	188,638,605	42,142,481	230,781,086	Transport equipment
274,935	90,540	161,840	52,712,540	43,791,946	96,504,486	Other manufacturing and tall processing
485,982	8,029,778	1,242,365	58,486,477	31,217,773	89,704,250	Electricity, gas and steam
593,715	11,105	551	16,772,378	16,808,018	33,580,396	Water, waste and recovery services
464,162	34,047	31,049	155,697,834	108,050,816	263,748,650	Construction
2,431,601	97,957	169,900	156,165,655	174,826,063	330,991,718	Wholesale and retail trade
1,767,579	687,042	23,454	90,031,616	64,873,291	154,904,907	Transport
772,444	342,884	28,142	109,640,557	42,074,599	151,715,156	Accommodation and food services
882,818	24,289	1,611	78,449,430	90,785,089	169,234,519	Information and communications
596,662	32,977	45,216	74,073,940	108,089,859	182,163,799	Financial and insurance activities
1,370,187	53,684	8,871	66,483,449	170,491,790	236,975,239	Real estate activities
3,790,677	363,888	74,834	119,896,193	138,635,559	258,531,752	Professional, scientific and technical activities
277,145	19,019	3,109	39,452,740	71,823,068	111,275,808	Business support services: rental and leasing activities
714,063	109,732	9,456	42,338,205	125,917,779	168,255,984	Public administration and defence
1,876,999	390,469	112,243	38,046,396	88,184,536	126,230,932	Education
1,024,595	447,387	28,996	74,749,946	105,017,236	179,767,182	Human health and social work activities
975,180	163,925	88,062	58,306,054	47,477,026	105,783,080	Art, sport, recreation and other services
1,789	-	5	4,804,303	-	4,804,303	Others

Note : Based on 2020.
Source: Bank of Korea

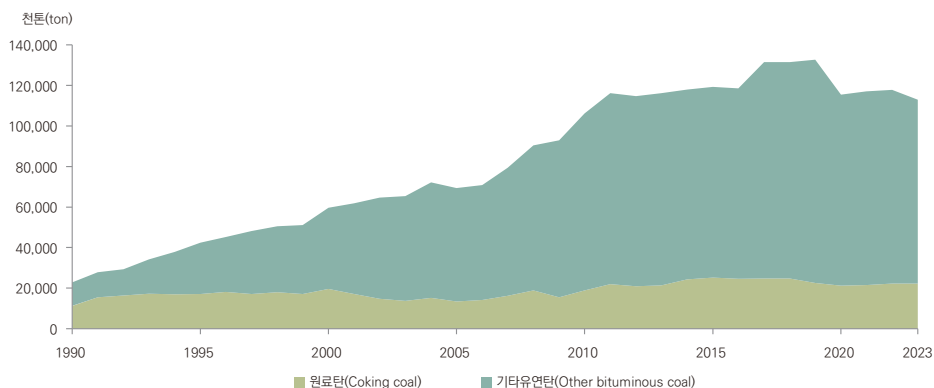
● 무연탄 소비 Anthracite Consumption

〈1990~2023〉



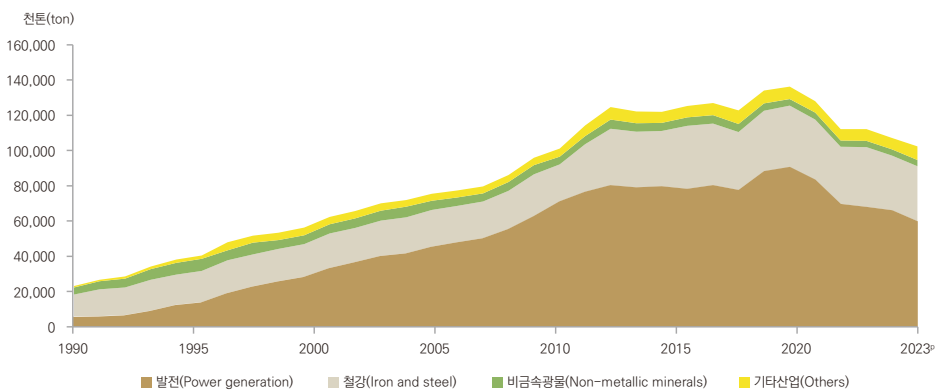
● 유연탄 수입 Bituminous Coal Imports

〈1990~2023〉



● 유연탄 소비 Bituminous Coal Consumption

〈1990~2023〉



주: 아역청탄 포함

Note: Includes sub-bituminous coal.

1. 석탄 수급

단위: 천 톤

	무연탄 ¹ Anthracite ¹					
	공급 Supply				소비 Consumption	
	국내생산 Production	수입 Imports	재고변화 Stock changes	일차에너지공급 TPES	발전 Power generation	최종소비 TFC
1990	17,217	1,072	2,035	20,324	2,013	19,314
1991	15,058	1,410	-259	16,209	1,978	15,574
1992	11,969	809	547	13,325	2,008	11,327
1993	9,443	783	770	10,996	2,284	8,218
1994	7,438	699	-814	7,323	2,180	5,287
1995	5,720	723	-723	5,720	2,429	3,603
1996	4,951	875	-445	5,381	2,514	2,740
1997	4,512	722	-783	4,451	2,305	2,047
1998	4,361	789	-549	4,601	2,527	1,951
1999	4,197	1,139	-468	4,868	2,597	2,161
2000	4,150	2,038	-37	6,151	2,850	3,230
2001	3,817	3,110	198	7,125	2,875	4,154
2002	3,318	3,879	475	7,672	2,751	4,862
2003	3,298	4,640	574	8,512	2,880	5,644
2004	3,191	4,251	633	8,069	2,415	5,563
2005	2,832	4,567	1,506	8,900	2,359	6,520
2006	2,824	5,113	1,837	9,773	2,356	7,337
2007	2,886	5,444	1,320	9,647	2,392	7,079
2008	2,773	5,955	1,434	10,140	2,534	7,544
2009	2,519	6,468	571	9,557	2,690	6,883
2010	2,084	7,406	373	9,858	2,404	7,510
2011	2,084	8,816	133	11,013	1,659	9,396
2012	2,094	8,055	92	10,230	1,797	8,546
2013	1,815	8,482	171	10,450	1,729	8,807
2014	1,748	8,294	-153	9,862	2,044	7,891
2015	1,764	8,938	-188	10,493	2,125	8,354
2016	1,726	9,424	-353	10,796	2,528	7,783
2017	1,485	7,003	-290	8,198	1,079	7,168
2018	1,202	8,201	-148	9,248	992	8,239
2019	1,084	6,858	-61	7,881	1,165	6,701
2020	1,019	6,286	-122	7,183	971	6,206
2021	898	6,475	-38	7,334	900	6,424
2022	820	5,384	3	6,207	912	5,297
2023 ^o	646	4,639	111	5,395	917	4,512

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	발전 Power generation	철강 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	72,315	41,631	20,648	10,035	2003
74,714	15,122	56,981	2,610	77,032	45,512	20,779	10,741	2004
72,192	13,452	55,878	2,862	78,124	47,852	20,890	9,382	2005
74,594	14,130	56,758	3,706	80,481	50,199	20,965	9,317	2006
82,840	16,281	63,074	3,486	87,109	55,487	21,736	9,887	2007
93,629	18,831	71,638	3,160	97,107	62,791	23,835	10,480	2008
96,514	15,481	77,471	3,562	102,453	71,091	21,182	10,180	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	126,650	78,227	36,070	12,353	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	123,709	78,185	33,079	12,445	2016
141,233	24,719	106,745	9,769	138,503	90,220	34,601	13,681	2017
140,518	24,716	106,803	8,999	142,063	94,290	35,107	12,666	2018
134,537	22,622	110,045	1,870	133,383	86,597	34,316	12,469	2019
117,207	21,234	94,139	1,833	117,803	72,963	32,690	12,150	2020
119,142	21,511	95,595	2,036	121,491	74,285	34,096	13,110	2021
119,767	22,266	95,485	2,016	117,744	75,104	31,151	11,489	2022
114,824	22,231	90,701	1,891	113,904	71,129	31,531	11,244	2023 ^p

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
2022	125,564	5,384	22,266	95,485	2,016	0	110	0	302
2023	119,761	4,639	22,231	90,701	1,891	0	72	0	226

자료: 한국무역협회

2. Coal Imports and Prices

단위: 백만 달러(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
1,616	42	939	596	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
2,081	35	920	1,072	27	0	4	0	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
28,332	1,661	7,906	18,325	263	0	25	0	153	2022
20,178	1,005	5,947	12,946	174	0	19	0	87	2023

Source : Korea International Trade Association

3. 지역별 무연탄 수입량

Anthracite Imports by Origin

단위: 천 톤

Unit: Thousand tons

	합계 Total	아시아 Asia	중동 Middle East	유럽 Europe	북미 North America	중남미 Centre and South America	아프리카 Africa	대양주 Oceania	기타 Others
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	-	2,617	-	92	-	3,491	-
2022	5,384	301	-	2,107	-	191	-	2,785	-
2023	4,639	150	-	2,195	-	256	-	2,038	-

자료: 한국무역협회

Source: Korea International Trade Association

4. 지역별 유연탄 수입량

Bituminous Coal Imports by Origin

단위: 천 톤

Unit: Thousand tons

	합계 ¹ Total ¹	아시아 Asia	중동 Middle East	유럽 Europe	북미 North America	중남미 Centre and South America	아프리카 Africa	대양주 Oceania	기타 Others
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	-	19,489	13,027	2,793	4,136	58,026	-
2022	117,752	27,061	118	24,469	13,240	1,751	7,647	43,466	-
2023	112,932	27,272	-	24,575	12,599	5,594	8,009	34,884	-

1. 원료탄, 기타유연탄, 아역청탄의 합계
자료: 한국무역협회

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

5. 부문별 석탄 소비

단위: 천 톤

	무연탄 Anthracite											
	발전 Power generation			산업 Industry			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	-
2022	912	400	512	4,874	2	4,872	387	387	-	36	36	-
2023 ^p	917	400	517	4,123	2	4,121	356	356	-	34	34	-

1. 원료탄, 기타유연탄, 아역청탄

자료: 대한석탄협회, 철강사 및 석탄소비업체 등

5. Coal Consumption by Sector

Unit: Thousand tons

유연탄 및 기타 석탄 ¹ Bituminous and sub-bituminous coal ¹									
발전 Power generation	산업 Industry								
	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	30,683	64	1,583	2,133	6,060	20,648	168	28	2003
45,512	31,520	61	1,918	3,259	5,309	20,779	166	27	2004
47,852	30,272	64	1,864	2,484	4,807	20,890	163	–	2005
50,199	30,282	60	1,864	2,488	4,738	20,965	166	–	2006
55,487	31,623	63	2,027	2,578	5,051	21,736	167	–	2007
62,791	34,316	58	2,068	2,931	5,236	23,835	187	–	2008
71,091	31,362	61	2,005	3,150	4,463	21,182	500	–	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	48,423	62	1,949	4,982	4,916	36,070	419	25	2014
80,354	47,032	65	1,640	4,817	4,650	35,310	526	24	2015
78,185	45,524	65	1,650	5,390	4,591	33,079	553	196	2016
90,220	48,282	48	1,907	6,470	4,175	34,601	606	474	2017
94,290	47,774	–	1,831	6,277	3,709	35,107	595	254	2018
86,597	46,786	–	1,682	5,751	3,989	34,316	599	449	2019
72,963	44,840	–	1,523	6,376	3,404	32,690	546	300	2020
74,285	47,206	–	1,629	6,988	3,649	34,096	536	308	2021
75,104	42,640	7	1,584	5,448	3,657	31,151	497	296	2022
71,129	42,775	7	1,541	5,423	3,479	31,531	498	296	2023 ^p

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

Source: Korea Coal Association, steel companies, other coal consumers, etc.

6. 무연탄 재고

Anthracite Stocks

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
2000	10,774	538	8,111	1,829	296
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	-
2022	2,807	109	955	1,743	-
2023	2,696	114	966	1,616	-

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
2000	12	2	1	3	3	3
2005	8	-	2	3	1	2
2006	7	-	1	3	1	2
2007	7	-	1	3	1	2
2008	7	-	1	3	1	2
2009	6	1	-	2	1	2
2010	5	-	-	2	1	2
2011	5	-	-	2	1	2
2012	5	-	-	2	1	2
2013	5	-	1	1	1	2
2014	5	1	-	2	-	2
2015	5	1	-	1	2	1
2016	5	1	-	1	2	1
2017	5	1	-	1	2	1
2018	5	1	-	3	-	1
2019	4	-	-	3	-	1
2020	4	-	1	2	-	1
2021	4	-	1	2	-	1
2022	4	-	1	2	-	1
2023	4	1	2	-	1	-
2020	4	-	1	2	-	1
2021	4	-	1	2	-	1
2022	4	-	1	2	-	1
2023	4	1	2	-	1	-

자료: 대한석탄협회

Source: Korea Coal Association

8. 석탄광 종업원 수 및 생산성(O.M.S)

Coal Mining Employees and Output per Man Shift

	합계 Total		대한석탄공사 Korea Coal Corporation		민영 Private	
	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	60,302	1.21	15,800	1.12	44,502	1.25
1982	62,310	1.15	16,707	1.07	45,603	1.18
1983	59,923	1.19	15,358	1.10	44,565	1.22
1984	63,618	1.22	14,952	1.15	48,666	1.24
1985	64,745	1.22	14,944	1.18	49,801	1.23
1986	68,861	1.26	15,134	1.21	53,727	1.27
1987	68,491	1.26	15,341	1.20	53,150	1.28
1988	62,259	1.35	14,260	1.25	47,999	1.38
1989	47,934	1.46	12,880	1.33	35,054	1.50
1990	38,101	1.56	10,679	1.33	27,422	1.65
1991	32,561	1.65	10,450	1.40	22,111	1.76
1992	26,021	1.61	9,500	1.33	16,521	1.78
1993	19,461	1.61	7,949	1.29	11,512	1.83
1994	14,925	1.63	6,370	1.32	8,555	1.86
1995	11,735	1.65	5,434	1.24	6,301	1.99
1996	10,725	1.62	5,031	1.20	5,694	2.01
1997	9,723	1.66	4,556	1.24	5,167	2.03
1998	8,576	1.71	3,790	1.28	4,786	2.10
1999	8,214	1.80	3,706	1.37	4,508	2.18
2000	8,207	1.81	3,768	1.38	4,439	2.23
2001	7,169	1.77	3,543	1.29	3,626	2.22
2002	6,624	1.75	3,232	1.23	3,392	2.29
2003	6,602	1.77	3,255	1.30	3,347	2.67
2004	5,876	1.81	3,286	1.35	2,590	2.29
2005	5,736	1.96	3,351	1.47	2,385	2.62
2006	5,940	1.99	3,553	1.51	2,387	2.71
2007	5,797	2.08	3,464	1.67	2,333	2.70
2008	4,987	2.17	3,115	1.72	1,872	2.89
2009	4,462	2.26	2,754	1.95	1,708	2.79
2010	4,050	2.18	2,668	1.82	1,382	2.86
2011	3,768	2.30	2,378	1.89	1,390	2.99
2012	3,808	2.35	2,424	1.98	1,384	2.96
2013	3,427	2.25	2,375	2.04	1,052	2.70
2014	3,104	2.35	2,033	2.10	1,071	2.81
2015	3,126	2.45	2,063	2.20	1,063	2.90
2016	3,172	2.39	2,121	2.14	1,051	2.84
2017	2,893	2.23	2,004	1.98	889	2.76
2018	2,490	1.95	1,634	1.58	856	2.69
2019	2,347	1.95	1,491	1.52	856	2.73
2020	2,219	1.91	1,371	1.40	848	2.78
2021	2,040	1.83	1,242	1.30	798	2.71
2022	1,813	1.80	1,030	1.18	783	2.72
2023	1,620	1.56	892	0.77	728	2.69

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	-	-
2022	34	1	-	-	-	1	3	-	-
2023	30	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
1	10	4	2	1	1	10	-	-	2022
1	8	4	1	1	1	9	-	-	2023

Note: Anthracite consumption for briquette production

Source: Korea Coal Association

10. 석탄광 재해 현황

	생산량 Production	종업원 수 Number of employees	연가동인원 Man shift per year	재해자 수 Number of persons			
				합계 Total	사망 Death	중상 Severe injury	경상 Slight injury
	천 톤 (1,000 ton)	명 (person)	천 명 (1,000 person)	명 (person)			
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	2,843	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	3,068	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	114	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	—	8	23
2007	2,886	5,843	1,385	73	3	34	36
2008	2,773	4,987	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	—	2	1
2022	820	1,813	454	3	1	1	1
2023	646	1,620	413	1	—	—	1

자료: 대한석탄협회

10. Coal Mining Accidents

백만인당 재해자 수 Accidents per million man 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 (person)								
332.1	10.5	140.2	181.5	309.9	9.8	130.8	169.3	1981
283.7	8.8	123.1	151.9	269.1	8.3	116.7	144.1	1982
277.1	8.9	124.8	143.4	254.9	8.2	114.8	131.9	1983
292.6	9.0	123.6	160.0	259.7	8.0	109.7	142.0	1984
295.2	9.0	120.5	165.7	262.8	8.0	107.3	147.5	1985
319.8	8.6	137.0	174.2	254.9	6.9	109.2	138.8	1986
299.6	8.8	130.9	159.8	243.4	7.1	106.4	129.9	1987
322.9	9.0	146.3	167.6	234.4	6.5	106.2	121.7	1988
351.7	7.9	157.5	186.3	238.3	5.3	106.7	126.3	1989
338.8	9.7	168.6	160.5	219.1	6.3	109.1	103.7	1990
328.1	8.5	178.3	141.2	188.8	4.9	102.6	81.2	1991
260.4	10.1	133.8	116.6	160.1	6.2	82.2	71.7	1992
244.0	10.4	102.1	131.4	140.9	6.0	59.0	75.9	1993
175.6	10.3	95.2	70.2	105.7	6.2	57.3	42.2	1994
121.5	4.9	78.7	37.9	74.0	3.0	47.9	23.1	1995
86.4	8.8	56.1	21.5	53.5	5.5	34.7	13.3	1996
82.5	5.3	49.8	27.4	52.1	3.3	31.5	17.3	1997
59.7	2.3	42.1	15.2	35.1	1.4	24.8	8.9	1998
48.9	3.9	25.8	19.3	27.2	2.1	14.3	10.8	1999
47.1	2.6	18.5	26.0	25.7	1.4	10.1	14.2	2000
46.0	6.5	15.8	23.7	25.9	3.7	8.9	13.3	2001
36.9	7.4	10.5	19.0	21.1	4.2	6.0	10.9	2002
33.4	3.8	10.8	18.8	18.8	2.1	6.1	10.6	2003
27.3	2.8	6.3	18.2	15.0	1.6	3.4	10.0	2004
15.2	2.1	4.8	8.3	7.8	1.1	2.5	4.2	2005
21.8	–	5.6	16.2	11.0	–	2.8	8.2	2006
52.7	2.2	24.5	26.0	25.3	1.0	11.8	12.5	2007
39.2	1.6	18.8	18.8	18.0	0.7	8.7	8.6	2008
43.2	3.6	18.9	20.7	19.1	1.6	8.3	9.2	2009
36.2	1.0	12.1	23.1	17.3	0.5	5.8	11.0	2010
34.3	2.2	15.5	16.6	14.9	1.0	6.7	7.2	2011
47.2	4.5	16.9	25.8	20.1	1.9	7.2	11.0	2012
53.4	3.7	22.4	27.3	23.7	1.9	9.9	12.1	2013
14.8	2.7	8.1	4.0	6.3	1.2	3.4	1.7	2014
19.4	1.4	6.9	11.1	7.9	0.6	2.8	4.5	2015
26.2	4.1	6.9	15.2	11.0	1.7	2.9	6.4	2016
28.5	7.5	9.0	12.0	12.8	3.4	4.0	5.4	2017
9.7	1.6	–	8.1	5.0	0.8	–	4.2	2018
23.4	3.6	9.0	10.8	11.9	1.8	4.6	5.5	2019
11.2	1.9	5.6	3.7	5.9	1.0	2.9	2.0	2020
6.1	–	4.1	2.0	3.3	–	2.2	1.1	2021
6.6	2.2	2.2	2.2	3.6	1.2	1.2	1.2	2022
2.4	–	–	2.4	1.5	–	–	1.5	2023

Source: Korea Coal Association

11. 연탄 가격 추이

Trend of Briquette Price

	공장도 Plant Gate Price		판매소도 Seller's Gate Price		가정도 House Gate Price	
	가격 Price	인상율 Increase rate	가격 Price	인상율 Increase rate	가격 Price	인상율 Increase rate
	원(KRW)	%	원(KRW)	%	원(KRW)	%
1981. 8. 14	131.00	12.4	145.50	11.1	153.00	10.9
7. 1	135.00	3.1	150.00	3.1	158.00	3.3
1982. 5. 13	135.00	-	150.00	-	158.00	-
1983. 5. 17	135.00	-	150.00	-	158.00	-
1984. 4. 14	140.00	3.7	151.00	0.7	166.00	5.1
1985. 9. 5	145.00	3.6	156.00	3.3	171.00	3.0
1986. 5. 5	151.00	4.1	168.00	7.7	178.00	4.1
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	-	195.00	-
1990. 9. 6	167.25	-	185.00	-	200.00	2.6
1991.10. 2	167.25	-	사·도지사결정	-	사·도지사결정	-
1995. 9. 1	167.25	-	"	-	"	-
1996. 9. 1	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	391.25	28.3	"	-
2011. 8. 1	373.50	-	391.25	-	"	-
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	-	656.75	-	"	-
2020.12. 16	639.00	-	656.75	-	"	-
2021.12. 11	639.00	-	656.75	-	"	-
2022.12. 5	639.00	-	656.75	-	"	-
2023.12. 20	639.00	-	656.75	-	"	-

주: 서울시 3.6kg 연탄가격 기준
자료: 대한석탄협회

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

12. 석탄 및 연탄가격

Coal and Briquette Price

1. 석탄 및 연탄지원 단가

	석탄(원/톤)						연탄(제조사)(원/개)					
	'18	'19	'20	'21	'22	'23	'18	'19	'20	'21	'22	'23
생산원가	218,574	222,918	222,027	225,639	239,580	245,525	761	790	814	788	799	815
최고판매가격	180,358	187,929	187,401	188,527	185,253	187,480	639	639	639	639	639	639
지원단가	38,216	34,989	34,626	37,112	54,327	58,045	121.5	151.25	174.5	148.5	159.75	175.5
지원율(%)	17.48	15.70	15.60	16.45	22.68	23.64	15.98	19.14	21.45	18.86	20.00	21.55

- 연탄 생산원가 = 최고판매(공장도)가격 + (제조비) 지원단가
- '18년 이후 석 연탄 최고판매가격 동결
- 자료 : 산업통상자원부

2. 석탄 및 연탄가격 인상추이

	'89~'95	'96	'97	'98~'99	'00~'01	'02	'03	'04	'05~'06	'07	'08	'09	'10	'11	'12~'15	'16	'17	'18	'19~'23
석탄	동결	5%	10%	15%	동결	5%	5%	7.5%	10%	10%	15.5%	7.1%	동결	15%	동결	8%	8%	8%	동결
연탄	'89~'02년까지 동결						10%	동결	20%	30%	30%	동결			19.6%	19.6%	19.6%	동결	
(가격)	(167)						(184)	(184)	(221)	(287)	(374)	(374)			(447)	(534)	(639)	(639)	

- 연탄(공장도)가격은 '88년 이후 7회('03.3.1, '07.4.1, '08.4.1, '09.11.1, '16.10.4, '17.11.28, '18.11.23) 인상
- 자료 : 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 함.
- 자료 : 석탄 및 석탄가공제품 판매가격의 최고액 지정 등에 관한 고시, '24.12.5.

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 석탄가공제품 판매가격의 최고액 지정 등에 관한 고시, '24.12.5.

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)	
209.00	175.50	24.75	409.25 (33.8%)	639.00	161.00	800.00 (66.2%)	1,209.25 (100%)

- 합계(A+B)는 정부지원 없을시 정상 소비자가격 추정치
- 운반비 및 배달료는 서울 평지 기준으로 추정 (배달지역에 따라 금액 상이)
- 자료 : 산업통상자원부

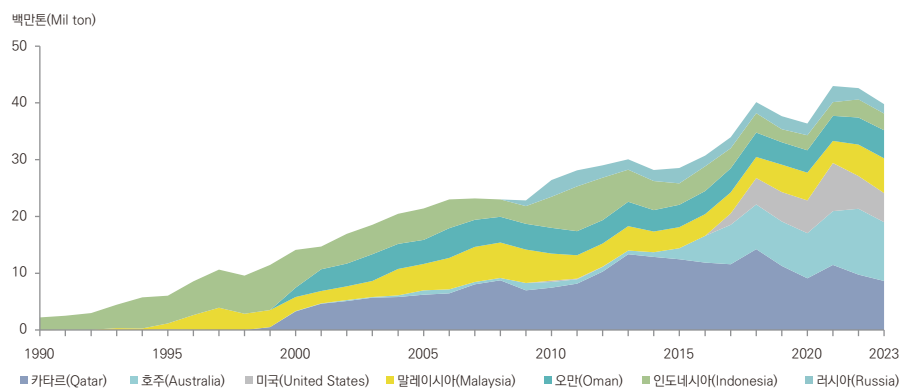
6. 연탄 품질기준

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, '24.12.5.

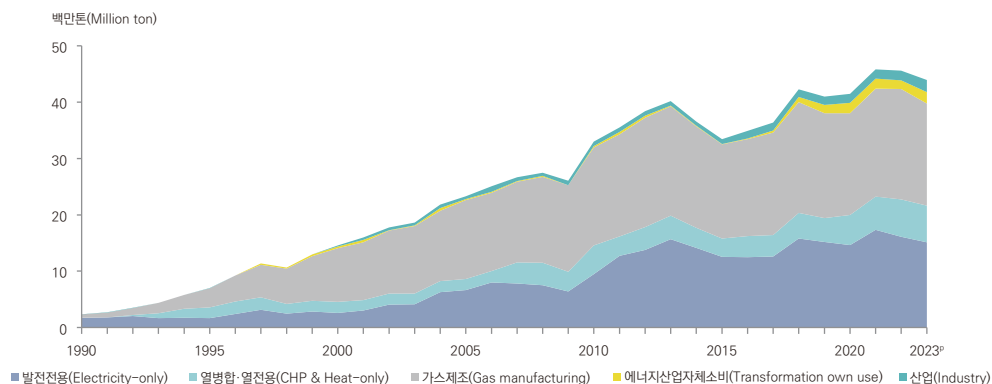
● 천연가스 수입 Natural Gas Imports

〈1990~2023〉



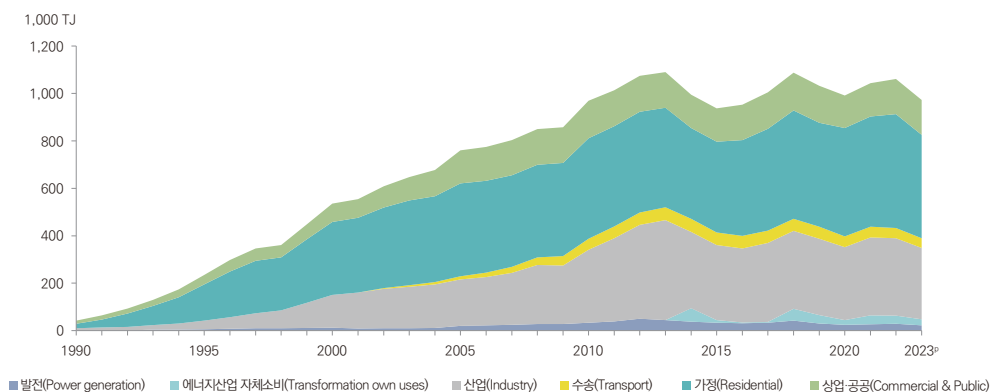
● 천연가스 소비 Natural Gas Consumption

〈1990~2023〉



● 도시가스 소비 City Gas consumption

〈1990~2023〉



1. 천연가스 수급

Natural Gas Overview

	공급 Supply						소비 Consumption					
	국내생산 Production	수입 Imports		재고변화 Stock changes	재고 Stock		일차에너지공급 TPES	발전전용 Electricity -only	열병합·열전용 CHP/ Heat-only	가스제조 Gas manufacturing	에너지산업자체소비¹ Transformation own use¹	산업² Industry²
		1,000 ton	1,000 ton									
1990	-	2,237	460	38	46	2,275	1,741	-	572	-	4	
1991	-	2,494	485	-64	110	2,430	1,800	-	875	-	5	
1992	-	2,994	562	42	68	3,036	2,019	206	1,250	-	7	
1993	-	4,459	781	-29	97	4,430	1,661	857	1,834	-	14	
1994	-	5,996	961	-60	157	5,936	1,709	1,620	2,442	-	12	
1995	-	6,756	1,275	54	103	6,810	1,680	1,882	3,408	-	9	
1996	-	9,258	1,878	-266	369	8,992	2,427	2,195	4,581	-	0	
1997	-	11,471	2,296	-236	605	11,235	3,147	2,229	5,770	233	0	
1998	-	10,189	1,549	78	527	10,267	2,466	1,723	6,233	221	0	
1999	-	12,284	1,973	-12	539	12,273	2,858	1,909	7,886	305	2	
2000	-	15,239	3,882	-52	591	15,187	2,575	1,954	9,528	337	160	
2001	-	15,318	3,990	-147	738	15,171	3,004	1,846	10,299	398	438	
2002	-	17,993	4,120	312	426	18,305	4,086	1,968	11,169	54	479	
2003	-	19,308	5,082	-638	1,063	18,671	4,116	1,933	11,939	164	458	
2004	163	21,781	6,552	-539	1,602	21,405	6,281	1,973	12,456	487	589	
2005	398	22,317	8,646	643	959	23,359	6,664	1,959	13,978	211	486	
2006	355	25,256	11,925	-977	1,936	24,633	7,981	2,033	13,879	185	1,014	
2007	271	25,569	12,653	825	1,111	26,665	7,823	3,706	14,350	136	645	
2008	181	27,259	19,806	-1,447	2,558	25,994	7,495	4,021	15,201	173	549	
2009	383	25,822	13,875	874	1,734	27,079	6,421	3,479	15,328	52	700	
2010	415	32,603	17,006	-928	2,689	32,090	9,462	5,127	17,354	274	739	
2011	347	36,685	23,859	-634	3,323	36,398	12,707	3,465	18,090	470	769	
2012	334	36,184	27,364	1,483	1,840	38,001	13,747	4,095	19,381	363	813	
2013	355	39,876	30,645	-397	2,237	39,834	15,663	4,201	19,400	144	798	
2014	247	37,107	31,403	-997	3,234	36,357	14,132	3,591	17,967	111	781	
2015	144	33,366	18,779	207	3,034	33,717	12,336	3,445	16,732	57	868	
2016	118	33,453	12,170	1,361	1,695	34,933	12,227	3,994	17,184	123	1,367	
2017	261	37,537	15,616	-598	2,308	37,200	12,010	4,411	18,199	363	1,401	
2018	234	44,015	23,189	-2,056	4,374	42,193	14,802	5,562	19,624	919	1,367	
2019	198	40,748	20,567	317	4,069	41,264	14,016	5,390	18,633	1,479	1,475	
2020	142	39,982	15,716	1,214	2,886	41,314	14,258	5,721	18,045	1,848	1,591	
2021	42	45,932	25,453	-295	3,207	45,657	16,943	6,306	19,118	1,817	1,605	
2022	-	46,394	50,022	-1,124	4,413	45,262	16,096	6,579	19,643	1,514	1,621	
2023 ^p	-	44,117	36,049	-799	5,156	43,309	15,134	6,485	18,129	2,020	2,162	

1. 석유정제, LNG 생산기지 내의 설비 운용 등

2. 최종소비

자료 : 한국가스공사, LNG 적도입사, 한국무역협회

1. LNG consumption in oil refinery and LNG terminals

2. Total final consumption

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

2. 국별 천연가스 수입

Natural Gas 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
2022	46,394	3,226	9,727	5,516	4,757	5,759	11,651	1,962	3,796
2023	44,117	2,909	8,605	6,115	4,966	5,113	10,422	1,654	4,333

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	
	선좌 Berths	10만㎥ (10 ⁵ ㎥)	톤/시간 (ton/h)		킬로미터 (km)
1986	1	3.0	396	480	98
1987	1	4.0	396	480	213
1988	1	4.0	396	480	224
1989	1	4.0	396	480	224
1990	1	4.0	396	480	224
1991	1	4.0	576	700	242
1992	1	4.0	1,116	1,140	340
1993	1	5.0	1,386	1,470	580
1994	1	6.0	1,656	1,800	599
1995	1	7.0	1,656	1,800	1,055
1996	2	10.0	2,916	3,120	1,309
1997	3	13.0	3,276	3,340	1,328
1998	3	16.0	3,636	3,780	1,482
1999	3	19.0	4,356	4,660	1,955
2000	4	20.0	4,626	4,880	2,066
2001	4	22.8	5,076	4,990	2,136
2002	5	29.6	6,066	6,090	2,443
2003	5	34.4	6,516	6,310	2,435
2004	5	41.8	6,976	7,190	2,451
2005	5	44.6	7,336	7,630	2,511
2006	5	48.8	8,056	8,070	2,520
2007	5	51.6	8,596	9,060	2,721
2008	5	59.2	9,136	9,500	2,739
2009	5	61.2	9,436	9,610	2,777
2010	5	71.2	9,916	11,040	2,879
2011	5	83.2	10,276	11,040	3,023
2012	6	88.6	10,636	11,040	3,558
2013	6	88.6	11,356	11,810	3,530
2014	7	94.6	14,056	14,450	4,240
2015	7	102.6	14,056	14,450	4,439
2016	7	106.6	14,056	14,560	4,672
2017	7	114.7	14,056	14,560	4,790
2018	7	114.7	15,376	15,770	4,854
2019	8	115.6	15,360	15,720	4,908
2020	8	121.6	15,360	15,720	4,945
2021	8	121.6	15,360	15,720	5,027
2022	8	121.6	15,420	15,720	5,105
2023	8	121.6	15,420	15,830	5,178

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 Total	가정용 Residential		일반용 (상업용) Commercial	업무용 Office	산업용 Industrial	열병합·열전용 CHP & Heat-only	수송용 Transport	연료전지용 Fuel cell
		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
2022	1,086,970	65,029	415,167	92,425	56,533	360,612	28,846	42,934	25,424
2023	1,011,154	64,030	371,066	95,599	52,025	325,762	22,748	41,359	38,565

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
2022	1,061,547	28,846	34,698	325,914	144	325,770	38,406	9,447	1,327	12,807	80,481
2023 ^o	972,588	22,748	24,352	301,410	156	301,254	36,718	7,393	1,213	11,809	66,281

1. 코크스, 연탄 및 석유정제품 제조

2. 광업 포함

자료 : 한국도시가스협회

5. City Gas Consumption by Sector

Unit : TJ

							수송 Transport	가정 Residential	상업·공공 Commercial & Public	
						건설업 Construction				
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
22,283	45,054	20,983	59,524	28,182	7,274	-	42,934	480,197	148,957	2022
20,570	45,533	20,321	57,662	27,174	6,580	-	41,359	435,096	147,624	2023 ^p

1. Production of coke oven 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
가구수 (천 세대)									
1996	12,221	3,456	1,140	759	740	386	392	349	-
1997	12,775	3,500	1,158	770	769	399	408	361	-
1998	13,001	3,473	1,173	779	789	412	418	367	-
1999	13,291	3,502	1,188	790	804	421	427	373	-
2000	13,919	3,550	1,200	806	824	430	439	385	-
2001	14,291	3,608	1,211	816	840	440	450	397	-
2002	14,691	3,662	1,220	827	866	449	463	407	-
2003	15,365	3,726	1,236	845	886	461	480	348	-
2004	15,896	3,790	1,251	853	902	470	492	356	-
2005	16,717	3,883	1,271	866	927	482	506	365	-
2006	17,190	3,991	1,289	875	958	495	518	373	-
2007	17,641	4,058	1,301	884	988	504	526	381	-
2008	18,103	4,109	1,312	895	1,007	513	532	390	-
2009	18,481	4,128	1,324	906	1,018	524	538	394	-
2010	19,173	4,221	1,371	935	1,050	541	556	406	-
2011	19,331	4,193	1,381	941	1,068	549	566	413	-
2012	19,686	4,216	1,390	949	1,087	556	576	422	-
2013	19,894	4,182	1,405	960	1,108	564	585	432	53
2014	20,302	4,199	1,422	971	1,125	573	593	442	63
2015	20,572	4,190	1,438	982	1,143	580	597	452	82
2016	20,943	4,190	1,451	994	1,160	586	606	455	94
2017	21,349	4,219	1,468	1,007	1,177	593	615	459	109
2018	21,696	4,262	1,480	1,021	1,201	603	625	462	124
2019	22,147	4,326	1,498	1,031	1,227	616	635	469	135
2020	22,749	4,416	1,530	1,057	1,256	634	653	477	144
2021	23,187	4,426	1,545	1,064	1,286	646	664	483	154
2022	23,404	4,446	1,556	1,071	1,310	652	673	486	159
2023	23,628	4,470	1,565	1,081	1,339	655	680	491	161
수요가수 (천 개)									
1996	4,903	2,103	284	235	350	138	146	93	-
1997	5,631	2,352	314	271	430	165	162	103	-
1998	6,350	2,554	358	297	494	184	178	123	-
1999	7,055	2,753	401	324	522	214	214	141	-
2000	7,734	2,927	437	355	588	229	242	165	-
2001	8,456	3,078	474	389	641	247	270	187	-
2002	9,202	3,194	510	442	707	273	296	211	-
2003	9,840	3,313	565	500	738	293	319	233	-
2004	10,408	3,387	621	492	771	298	334	218	-
2005	10,966	3,444	674	519	796	320	348	244	-
2006	11,511	3,488	729	555	817	344	396	258	-
2007	12,038	3,526	797	582	848	370	420	268	-
2008	12,635	3,565	860	627	873	414	443	295	-
2009	13,146	3,612	909	663	896	445	462	312	-
2010	13,882	3,783	952	700	934	474	485	328	-
2011	14,487	3,868	1,002	732	977	501	514	346	-
2012	15,054	3,921	1,059	775	973	524	530	364	-
2013	15,628	3,992	1,122	813	992	544	543	379	28
2014	16,130	4,013	1,178	849	1,017	571	553	395	45
2015	16,617	4,049	1,228	891	1,042	556	562	409	65
2016	17,177	4,106	1,271	935	1,067	573	572	418	75
2017	17,747	4,160	1,320	963	1,092	589	581	427	89
2018	18,306	4,186	1,367	984	1,116	602	593	434	100
2019	18,815	4,250	1,419	1,001	1,135	618	604	445	108
2020	19,257	4,310	1,461	1,028	1,144	632	622	457	111
2021	19,641	4,358	1,495	1,036	1,165	646	634	464	112
2022	19,992	4,408	1,509	1,044	1,184	659	643	471	114
2023	20,242	4,444	1,523	1,054	1,208	666	643	477	112
보급률(%)	85.7	99.4	97.3	97.6	90.2	101.6	94.5	97.2	69.9

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 (1,000 households)									
2,569	337	261	403	366	316	386	362	-	1996
2,738	350	272	420	376	327	553	375	-	1997
2,788	362	284	433	390	361	564	408	-	1998
2,886	372	291	444	401	365	570	457	-	1999
2,993	381	309	633	410	370	576	614	-	2000
3,130	388	317	645	417	374	633	626	-	2001
3,332	396	325	657	423	379	639	646	-	2002
3,540	406	438	692	432	412	726	738	-	2003
3,694	415	450	736	529	416	737	803	-	2004
3,855	425	462	756	537	483	798	898	205	2005
4,020	434	476	774	545	489	822	921	208	2006
4,190	442	489	796	552	497	838	985	212	2007
4,283	480	587	813	561	505	893	1,010	215	2008
4,365	489	599	828	657	513	944	1,035	218	2009
4,533	505	617	854	701	507	1,083	1,069	225	2010
4,579	513	625	868	704	534	1,093	1,110	194	2011
4,614	518	636	889	736	643	1,107	1,152	197	2012
4,675	522	644	858	744	684	1,122	1,190	168	2013
4,781	594	656	871	751	710	1,136	1,242	174	2014
4,869	602	670	886	760	739	1,142	1,264	177	2015
4,998	630	681	902	766	768	1,153	1,321	187	2016
5,112	639	689	923	774	783	1,163	1,341	278	2017
5,297	646	707	942	795	793	1,179	1,360	198	2018
5,462	672	722	959	805	805	1,197	1,385	203	2019
5,661	690	746	983	825	824	1,226	1,418	209	2020
5,835	753	761	1,002	835	834	1,248	1,439	213	2021
5,906	697	772	1,020	844	839	1,261	1,494	216	2022
5,959	701	780	1,035	850	843	1,267	1,503	247	2023
Number of Customers (1,000 customers)									
1,018	51	67	22	109	99	72	115	-	1996
1,216	62	82	35	125	108	84	124	-	1997
1,442	73	93	43	142	114	107	149	-	1998
1,666	86	104	54	159	119	130	166	-	1999
1,884	91	118	70	171	124	146	186	-	2000
2,130	100	140	91	187	132	175	214	-	2001
2,381	116	158	109	209	144	198	254	-	2002
2,569	126	173	132	226	153	222	278	-	2003
2,729	138	185	161	246	171	304	356	-	2004
2,894	149	196	189	266	180	341	405	1	2005
3,024	161	219	225	288	193	378	433	5	2006
3,142	173	246	255	310	201	417	478	5	2007
3,273	188	268	291	335	217	454	527	6	2008
3,385	208	286	324	354	235	482	567	7	2009
3,587	223	316	356	379	247	507	601	10	2010
3,717	233	334	393	409	268	534	648	11	2011
3,875	246	357	434	436	283	570	693	12	2012
4,005	259	380	447	461	309	603	735	16	2013
4,089	275	405	477	483	334	637	791	18	2014
4,200	284	425	512	502	358	675	840	21	2015
4,350	302	429	552	521	382	711	891	23	2016
4,494	318	452	596	534	402	742	963	26	2017
4,669	340	472	634	557	423	777	1,024	28	2018
4,791	363	488	660	572	447	800	1,085	29	2019
4,870	383	509	688	592	471	829	1,120	32	2020
4,956	404	526	711	611	491	856	1,140	36	2021
5,049	419	537	742	627	509	870	1,161	45	2022
5,088	431	549	769	632	526	889	1,182	49	2023
85.4	61.5	70.4	74.2	74.4	62.4	70.2	78.6	19.8	Diffusion(%)

Note: Number of households using city gas

Source: Korea City Gas Association

7. 도시가스 가격

단위: 원/㎥

	KOGAS 공급 가격 KOGAS Price			도시가스사 공급 비용 City Gas Suppliers' Margin								
	원료비 Material Cost	공급비용 Other Cost	공급가격 Sales Price	평균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5~9월) Space Cooling	산업용 Industrial	수송용 Transport
								일반용(1) Commercial(1)	일반용(2) Commercial(2)			
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	40.62	22.37	-
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									
평균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5~9월) Space Cooling	산업용 Industrial	수송용 Transport	
				일반용(1) Commercial(1)	일반용(2) Commercial(2)				
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			도시가스사 공급 비용 City Gas Suppliers' Margin								
	원료비 Material Cost	공급비용 Other Cost	공급가격 Sales Price	평균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5~9월) Space Cooling	산업용 Industrial	수송용 Transport
								일반용(1) Commercial(1)	일반용(2) Commercial(2)			
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									
평균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5~9월) Space Cooling	산업용 Industrial	수송용 Transport	
				일반용(1) Commercial(1)	일반용(2) Commercial(2)				
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
2013. 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

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	연료전지 Fuel cell	평균 Average	주택용 Residential		업무 난방용 Office Space Heating	일반용(1) Commercial(1)			일반용(2) Commercial(2)			
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	2013. 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	11.62	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	12.34	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	9.87	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	10.19	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	8.97	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	8.00	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	7.93	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	8.75	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	12. 1

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 ¹ Retail Prices ¹						
	냉난방공조용 Cooling/Heating			산업용 Industrial			수송용 Transport	연료전지 Fuel cell	평균 Average	주택용 Residential		업무 난방용 Office Space Heating	일반용(1) Commercial(1)		
	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
2013. 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	0.69	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	0.69	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	0.76	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	0.76	...	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	0.76	...	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	0.76	...	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	0.76	...	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	0.76	...	14.22	14.22	13.47	14.01	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

일반용(2) Commercial(2)			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	-	2013. 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

1. Retail price 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
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
7. 1	10.81	1.68	12.49	12.93	12.93	14.59	11.53	11.25	11.27	14.04	8.17	12.92
8. 1	11.33	1.68	13.01	12.93	12.93	15.67	11.53	11.25	11.27	15.12	8.98	14.00
9. 1	11.75	1.68	13.42	12.93	12.93	16.53	11.53	11.25	11.27	15.98	9.62	14.86
10. 1	12.09	1.68	13.77	12.93	12.93	17.24	11.53	11.25	11.27	16.69	10.16	15.57
11. 1	13.35	1.68	15.03	12.93	12.93	19.82	11.53	11.25	11.27	19.26	12.09	18.15
12. 1	14.41	1.68	16.09	12.93	12.93	22.01	11.53	11.25	11.27	21.46	13.73	20.34
2022. 1. 1	15.30	1.68	16.98	12.93	12.93	23.83	11.53	11.25	11.27	23.28	15.10	22.16
2. 1	15.04	1.68	16.72	12.93	12.93	23.33	11.53	11.25	11.27	22.78	14.72	21.66
3. 1	15.04	1.68	16.72	12.93	12.93	23.33	11.53	11.25	11.27	22.78	14.72	21.66
4. 1	16.03	1.68	17.71	13.36	13.36	24.91	11.96	11.68	11.70	24.36	15.91	23.24
5. 1	14.84	1.65	16.49	14.59	14.59	21.12	13.17	12.93	12.95	20.64	13.00	19.72
6. 1	14.87	1.65	16.52	14.59	14.59	21.19	13.17	12.93	12.95	20.70	13.05	19.78
7. 1	16.47	1.65	18.12	15.70	15.70	23.31	14.28	14.04	14.06	22.83	14.64	21.91
8. 1	19.39	1.65	21.04	15.70	15.70	29.36	14.28	14.04	14.06	28.87	19.18	27.95
9. 1	20.87	1.65	22.52	15.70	15.70	32.43	14.28	14.04	14.06	31.95	21.48	31.02
10. 1	23.05	1.65	24.71	18.40	18.40	34.06	16.98	16.74	16.76	33.57	22.70	32.65
11. 1	22.92	1.65	24.57	18.40	18.40	33.77	16.98	16.74	16.76	33.29	22.49	32.37
12. 1	23.36	1.65	25.01	18.40	18.40	34.69	16.98	16.74	16.76	34.20	23.17	33.28
2023. 1. 1	22.41	1.65	24.06	18.40	18.40	32.72	16.98	16.74	16.76	32.23	21.70	31.31
2. 1	22.19	1.65	23.84	18.40	18.40	32.27	16.98	16.74	16.76	31.79	21.36	30.87
3. 1	21.64	1.65	23.30	18.40	18.40	31.13	16.98	16.74	16.76	30.65	20.51	29.73
4. 1	18.71	1.65	20.37	18.40	18.40	25.06	16.98	16.74	16.76	24.58	15.95	23.65
5. 1	17.14	1.84	18.99	18.40	18.40	21.97	16.98	16.74	16.76	21.77	13.78	20.73
6. 1	17.55	1.84	19.40	19.44	19.44	21.69	18.00	17.79	17.80	21.49	13.57	20.45
7. 1	17.92	1.84	19.77	19.44	19.44	22.46	18.00	17.79	17.80	22.26	14.15	21.22
8. 1	17.35	1.84	19.20	19.44	19.44	21.69	18.00	17.79	17.80	21.07	13.25	20.03
9. 1	17.28	1.84	19.13	19.44	19.44	21.12	18.00	17.79	17.80	20.92	13.14	19.88
10. 1	17.62	1.84	19.47	19.44	19.44	21.83	18.00	17.79	17.80	21.63	13.67	20.59
11. 1	16.86	1.84	18.70	19.44	19.44	20.23	18.00	17.79	17.80	20.03	12.47	18.99
12. 1	17.40	1.80	19.30	19.40	19.40	21.50	18.00	17.80	17.80	21.30	13.40	20.20

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	연료전지 Fuel cell	평균 Average	주택용 Residential		업무 난방용 Office Space Heating	일반용(1) Commercial(1)			일반용(2) Commercial(2)				
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			
11.10	10.30	10.36	10.27	9.32	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	10.13	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		2.
12.96	12.16	12.22	12.14	11.18	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	11.40	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	10.09	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	10.66	1.43	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		6. 1
13.03	12.05	12.10	12.02	11.25	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		7. 1
14.11	13.13	13.18	13.10	12.33	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		8. 1
14.97	13.99	14.04	13.96	13.19	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		9. 1
15.68	14.70	14.75	14.67	13.90	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		10. 1
18.25	17.27	17.33	17.24	17.19	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	11. 1	
20.45	19.47	19.52	19.44	19.39	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	12. 1	
22.27	21.29	21.34	21.26	21.54	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	2022. 1. 1	
21.77	20.79	20.84	20.76	20.54	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		2. 1
21.77	20.79	20.84	20.76	20.54	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		3. 1
23.35	22.37	22.42	22.34	22.24	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		4. 1
19.69	18.78	18.85	18.73	17.46	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		5. 1
19.75	18.84	18.92	18.79	17.49	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		6. 1
21.88	20.97	21.04	20.91	19.60	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		7. 1
27.93	27.01	27.09	26.96	25.65	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		8. 1
31.00	30.09	30.16	30.04	28.72	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		9. 1
32.62	31.71	31.79	31.66	30.36	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		10. 1
32.34	31.43	31.50	31.38	30.07	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	11.	
33.26	32.34	32.42	32.29	30.99	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	12. 1	
31.28	30.37	30.45	30.32	29.03	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	2023. 1. 1	
30.84	29.93	30.00	29.88	28.58	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		2. 1
29.70	28.79	28.86	28.74	27.44	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		3. 1
23.63	22.72	22.79	22.67	21.37	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		4. 1
20.62	19.72	19.77	19.69	17.93	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		5. 1
20.34	19.44	19.49	19.41	17.64	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		6. 1
21.11	20.21	20.26	20.18	18.42	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		7. 1
19.92	19.01	19.07	18.99	17.22	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		8. 1
19.77	18.86	18.91	18.83	17.07	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		9. 1
20.48	19.57	19.63	19.55	17.78	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56		10. 1
18.88	17.97	18.03	17.95	16.18	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	11. 1	
20.10	19.20	19.30	19.20	17.40	1.42	1.30	1.30	1.56	2.56	2.56	2.56	1.56	1.56	1.56	12. 1	

1. Retail price 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 ¹ Retail Prices ¹						
	냉난방공조용 Cooling/Heating			산업용 Industrial			수송용 Transport	연료전지 Fuel cell	평균 Average	주택용 Residential		업무 난방용 Office Space Heating	일반용(1) Commercial(1)		
	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
2021. 1. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	...	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	0.76	...	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	0.76	...	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	0.76	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	0.76	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	0.76	13.64	14.22	14.22	14.99	14.10	13.82	13.83
7. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	13.91	14.22	14.22	16.15	14.10	13.82	13.83
8. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	14.43	14.22	14.22	17.23	14.10	13.82	13.83
9. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	14.84	14.22	14.22	18.09	14.10	13.82	13.83
10. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	15.19	14.22	14.22	18.80	14.10	13.82	13.83
11. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	16.45	14.22	14.22	21.38	14.10	13.82	13.83
12. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	17.51	14.22	14.22	23.57	14.10	13.82	13.83
2022. 1. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	18.40	14.22	14.22	25.39	14.10	13.82	13.83
2. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	18.14	14.22	14.22	24.89	14.10	13.82	13.83
3. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	18.14	14.22	14.22	24.89	14.10	13.82	13.83
4. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	19.13	14.65	14.65	26.47	14.53	14.24	14.26
5. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	17.91	15.88	15.88	22.68	15.73	15.49	15.51
6. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	17.94	15.88	15.88	22.68	15.73	15.49	15.51
7. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	19.54	16.99	16.99	24.87	16.84	16.60	16.62
8. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	22.46	16.99	16.99	30.92	16.84	16.60	16.62
9. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	23.94	16.99	16.99	33.99	16.84	16.60	16.62
10. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	26.12	19.69	19.69	35.62	19.54	19.30	19.32
11. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	25.99	19.69	19.69	35.34	19.54	19.30	19.32
12. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	26.43	19.69	19.69	36.25	19.54	19.30	19.32
2023. 1. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	25.48	19.69	19.69	34.28	19.54	19.30	19.32
2. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	25.26	19.69	19.69	33.83	19.54	19.30	19.32
3. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	24.72	19.69	19.69	32.69	19.54	19.30	19.32
4. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	21.79	19.69	19.69	26.62	19.54	19.30	19.32
5. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	20.41	19.69	19.69	23.54	19.54	19.30	19.32
6. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	20.82	20.74	20.74	23.25	20.56	20.35	20.36
7. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	21.19	20.74	20.74	24.02	20.56	20.35	20.36
8. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	20.62	20.74	20.74	23.25	20.56	20.35	20.36
9. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	20.55	20.74	20.74	22.68	20.56	20.35	20.36
10. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	20.89	20.74	20.74	23.39	20.56	20.35	20.36
11. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	20.12	20.74	20.74	21.79	20.56	20.35	20.36
12. 1	1.56	1.07	1.56	0.86	0.86	0.86	0.83	0.76	20.71	20.74	20.74	23.03	20.56	20.35	20.36

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임

자료: 한국도시가스협회

7. City Gas Prices(Continued)

Unit : KRW/MJ

일반용(2) Commercial(2)			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			
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
13.09	12.81	12.83	15.60	9.24	14.48	13.89	12.91	12.96	12.85	12.01	7. 1
13.09	12.81	12.83	16.68	10.05	15.56	14.97	13.99	14.05	13.93	13.09	8. 1
13.09	12.81	12.83	17.54	10.70	16.42	15.83	14.85	14.90	14.79	13.95	9. 1
13.09	12.81	12.83	18.25	11.23	17.13	16.54	15.56	15.61	15.50	14.66	10. 1
13.09	12.81	12.83	20.82	13.16	19.71	19.11	18.13	18.19	18.08	17.95	11. 1
13.09	12.81	12.83	23.02	14.81	21.90	21.31	20.33	20.38	20.27	20.15	12. 1
13.09	12.81	12.83	24.84	16.17	23.72	23.13	22.15	22.20	22.09	22.30	2022. 1. 1
13.09	12.81	12.83	24.34	15.80	23.22	22.63	21.65	21.70	21.59	21.30	2. 1
13.09	12.81	12.83	24.34	15.80	23.22	22.63	21.65	21.70	21.59	21.30	3. 1
13.52	13.24	13.26	25.92	16.98	24.80	24.21	23.23	23.28	23.17	23.00	4. 1
14.73	14.49	14.51	22.20	14.07	21.28	20.55	19.64	19.71	19.56	18.22	5. 1
14.73	14.49	14.51	22.26	14.12	21.34	20.61	19.70	19.78	19.63	18.24	6. 1
15.84	15.60	15.62	24.39	15.71	23.46	22.74	21.83	21.90	21.75	20.36	7. 1
15.84	15.60	15.62	30.44	20.25	29.51	28.79	27.88	27.95	27.80	26.41	8. 1
15.84	15.60	15.62	33.51	22.55	32.59	31.86	30.95	31.02	30.87	29.48	9. 1
18.54	18.30	18.32	35.13	23.77	34.21	33.48	32.57	32.65	32.50	31.12	10. 1
18.54	18.30	18.32	34.85	23.56	33.93	33.20	32.29	32.36	32.21	30.83	11. 1
18.54	18.30	18.32	35.77	24.25	34.84	34.12	33.21	33.28	33.13	31.75	12. 1
18.54	18.30	18.32	33.80	22.77	32.87	32.15	31.23	31.31	31.16	29.79	2023. 1. 1
18.54	18.30	18.32	33.35	22.44	32.43	31.70	30.79	30.86	30.71	29.34	2. 1
18.54	18.30	18.32	32.21	21.58	31.29	30.56	29.65	29.72	29.57	28.20	3. 1
18.54	18.30	18.32	26.14	17.03	25.22	24.49	23.58	23.65	23.50	22.13	4. 1
18.54	18.30	18.32	23.33	14.86	22.29	21.49	20.58	20.63	20.52	18.69	5. 1
19.56	19.35	19.36	23.05	14.64	22.01	21.20	20.30	20.35	20.24	18.40	6. 1
19.56	19.35	19.36	23.82	15.22	22.78	21.97	21.07	21.12	21.01	19.18	7. 1
19.56	19.35	19.36	22.63	14.33	21.59	20.78	19.87	19.93	19.82	17.98	8. 1
19.56	19.35	19.36	22.48	14.21	21.44	20.63	19.72	19.77	19.67	17.83	9. 1
19.56	19.35	19.36	23.19	14.75	22.15	21.34	20.44	20.49	20.38	18.54	10. 1
19.56	19.35	19.36	21.59	13.55	20.55	19.74	18.84	18.89	18.78	16.94	11. 1
19.56	19.35	19.36	22.82	14.47	21.78	20.98	20.07	20.12	20.01	18.18	12. 1

1. Retail price 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 Overview

2-1. 국별 원유 수입 Crude Oil Imports by Country

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

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

2-4. 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 Products Imports

4-2. 석유제품 수출 Petroleum Products Exports

4-3. 석유제품 정제생산 Petroleum Refining Production

4-4. 석유제품 소비 Petroleum Products Consumption

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(2023⁹)

Petroleum Product Consumption Status in 2023⁹

5. 석유제품 소비자가격

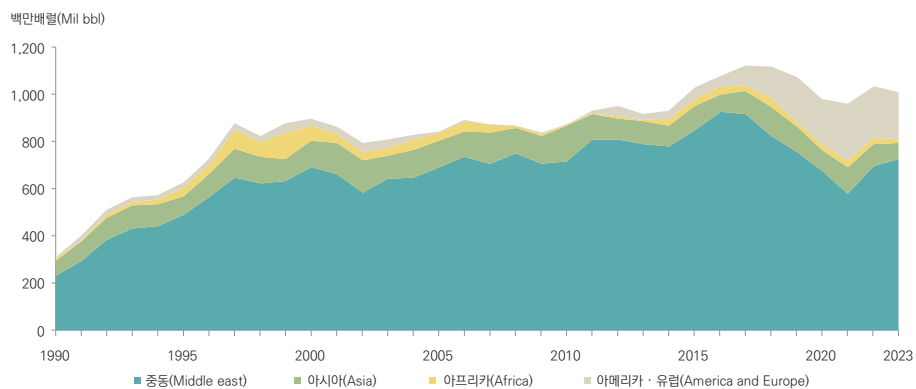
Retail Prices of Petroleum Products

6. 정제 능력

Refining Capacities

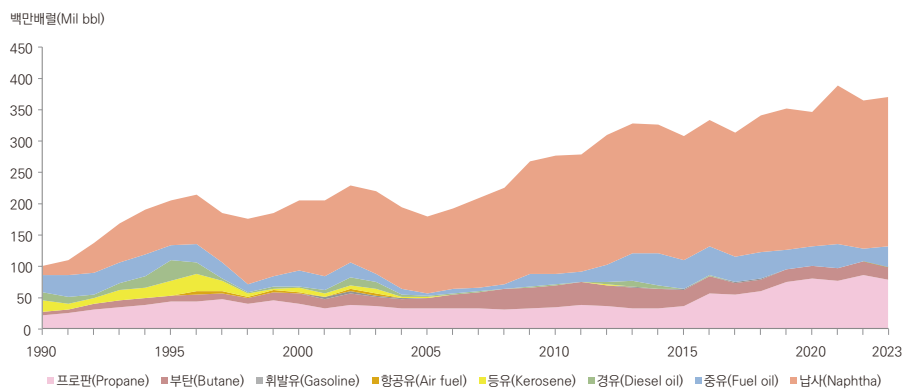
● 원유 수입 Crude Oil Imports

〈1990~2023〉



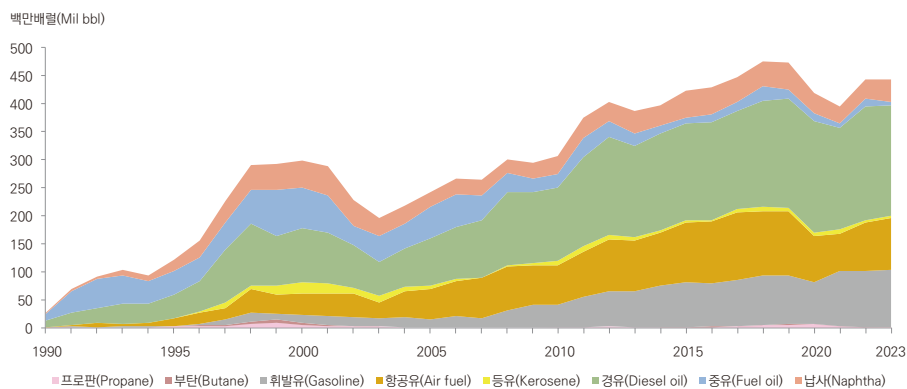
● 석유제품 수입 Petroleum Products Imports

〈1990~2023〉



● 석유제품 수출 Petroleum Products Exports

〈1990~2023〉



1. 원유 및 정제원료 수급

	생산	수입		수출		재고변화	일차에너지공급
	Production	Imports	원유 Crude oil				
	1,000 bbl						
1990	-	310,494	308,368	2,126	-	3,469	313,963
1991	-	399,976	399,303	672	-	-1,136	398,839
1992	-	512,082	509,378	2,704	601	-1,143	510,338
1993	-	566,233	560,563	5,670	503	-1,919	563,812
1994	-	586,912	573,714	13,199	794	-10,651	575,467
1995	-	644,020	624,945	19,075	167	5,252	649,105
1996	-	737,722	721,927	15,795	1,502	-2,254	733,966
1997	-	877,676	873,415	4,261	1,430	1,218	877,464
1998	-	822,564	819,094	3,470	257	9,018	831,325
1999	-	881,320	874,090	7,230	282	-1,876	879,161
2000	-	899,809	893,943	5,866	743	-442	898,624
2001	-	868,237	859,367	8,870	770	1,998	869,465
2002	-	800,488	790,992	9,496	932	-2,585	796,972
2003	-	812,494	804,809	7,685	326	-21,284	790,885
2004	-	830,674	825,790	4,884	96	2,073	832,651
2005	407	851,327	843,203	8,124	29	10,229	861,934
2006	333	892,296	888,794	3,502	21	-7,865	884,743
2007	236	873,674	872,541	1,133	489	10,919	884,340
2008	155	866,659	864,872	1,787	1,686	1,447	866,575
2009	321	837,008	835,085	1,923	2,233	4,441	839,537
2010	380	874,666	872,415	2,251	3,330	-1,896	869,820
2011	285	928,736	927,044	1,691	4,039	-3,928	921,053
2012	263	949,058	947,292	1,766	2,473	-2,057	944,792
2013	290	918,634	915,075	3,559	1,988	-6,060	910,875
2014	198	933,736	927,524	6,213	992	-8,093	924,848
2015	115	1,030,315	1,026,107	4,208	2,400	-10,774	1,017,256
2016	104	1,084,066	1,078,119	5,947	3,597	-4,172	1,076,400
2017	217	1,124,938	1,118,167	6,770	2,447	-1,633	1,121,075
2018	189	1,126,403	1,116,281	10,122	4,124	-8,626	1,113,842
2019	155	1,075,973	1,071,923	4,050	769	5,758	1,081,117
2020	103	987,422	980,259	7,163	448	1,876	988,952
2021	36	973,734	960,147	13,587	1,782	1,928	973,916
2022	17	1,047,685	1,031,283	16,402	1,848	-3,290	1,042,564
2023 ^o	-	1,018,299	1,005,770	12,529	2,515	4,688	1,020,472

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				정제능력 ⁴	
Transformation processes ¹	원유 Crude oil	정제원료 Refinery feedstocks	기타 ³ Others ³	Refining capacity ⁴	
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
1,030,109	1,014,957	14,606	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
1,155,425	1,026,102	130,311	-988	3,204	2022
1,149,566	1,006,626	142,894	46	3,204	2023 ^p

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 수급

2-1. 국별 원유 수입

단위: 천 배럴

	합계 Total (A)	중동 Middle East (B)	사우디아라비아 Saudi Arabia	아랍에미리트 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
2022	1,031,283	695,122	339,567	85,235	-	103,656	3,529	48,212
2023	1,005,770	723,134	327,603	109,866	-	96,195	4,911	67,782

1. 중동 비중

자료 : 한국석유공사

2. Crude Oil Overview

2-1. Crude Oil Imports by Country

Unit: Thousand barrels

아시아 Asia	인도네시아 Indonesia	말레이시아 Malaysia	호주 Australia	브루나이 Brunei	아프리카 Africa	아메리카 America	유럽 Europe	중동의존도(%) ¹ Dependence on Middle East ¹ (B/A)	
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
91,418	-	649	20,668	581	27,703	204,604	12,436	67.4	2022
69,224	1,032	1,421	24,581	-	16,048	192,408	4,956	71.9	2023

1. Proportion of the Middle East.

Source : Korea National Oil Corporation.

2-2. 원유 수입 가격

	수입량 Import Volume		수입액 Import Costs		
			총 액 Total (A)	수송비용 ¹ Transport ¹ (C=A-B)	본선인도가격 Free on Board(FOB) (B)
	1,000 bbl	1,000 kℓ	1,000 USD		
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
2022	1,031,283	163,957	105,378,658	2,252,028	103,126,631
2023	1,005,770	159,901	86,442,353	2,397,987	84,044,366

1. 총액-본선인도가격. 운송비와 보험료의 합

2. 수입 총액 중 수송비용의 비중

자료 : 한국석유공사

2-2. Costs of Crude Oil Imports

수입단가 Import Unit Prices			수송비용비중 ² Weight of Transport ²	
합계 Total (D)	수송비용 ¹ Transport ¹ (D-E)	본선인도가격 Free on Board(FOB) (E)		
USD/bbl			(C/A)	
			%	
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
102.18	2.18	100.00	2.1	2022
85.95	2.39	83.56	2.8	2023

1. Total-Free on Board(FOB). Includes freight and insurance costs.

2. The proportion of transport costs in total imports.

Source : Korea National Oil Corporation.

2-3. 국별 원유 수입 단가

단위: 배럴 당 달러

	평 균	중동							
	Average	Middle East	사우디아라비아 Saudi Arabia	아랍에미레이트 U.A.E	이 란 Iran	쿠웨이트 Kuwait	오 만 Oman	카타르 Qatar	이라크 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
2022	102.2	102.2	102.4	106.9	-	101.9	116.7	102.1	97.9
2023	85.9	85.9	87.4	87.7	-	86.2	89.0	82.9	80.8

주: 운임 및 보험료 포함인도(CIF)가격

자료: 한국석유공사

2-3. Unit Prices of Crude Oil Imports by Country

Unit: US dollars per barrel

아시아 Asia	인도네시아 Indonesia	말레이시아 Malaysia	호 주 Australia	브루나이 Brunei	아프리카 Africa	아메리카 America	유럽 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
102.1	-	104.7	107.4	121.2	106.2	101.1	108.5	2022
84.0	83.9	74.8	83.0	-	88.4	86.5	93.5	2023

Note: CIF(Cost, Insurance, and Freight) prices

Source: Korea National Oil Corporation

2-4. 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	26,004	855	840	101.78
1991	399,303	398,030	33,169	1,090	1,035	105.36
1992	509,378	508,619	42,385	1,390	1,675	82.97
1993	560,563	558,537	46,545	1,530	1,675	91.36
1994	573,714	563,819	46,985	1,545	1,700	90.87
1995	624,945	631,266	52,606	1,729	1,818	95.13
1996	721,927	720,131	60,011	1,968	2,438	80.70
1997	873,415	871,986	72,665	2,389	2,438	97.99
1998	819,094	825,895	68,825	2,263	2,438	92.81
1999	874,090	873,299	72,775	2,393	2,438	98.14
2000	893,943	892,224	74,352	2,444	2,438	100.26
2001	859,367	860,166	71,680	2,357	2,438	96.66
2002	790,992	787,290	65,607	2,157	2,438	88.47
2003	804,809	783,518	65,293	2,147	2,438	88.05
2004	825,790	826,967	68,914	2,259	2,735	82.61
2005	843,203	852,544	71,045	2,336	2,735	85.40
2006	888,794	878,417	73,201	2,407	2,735	87.99
2007	872,541	882,409	73,534	2,418	2,765	87.43
2008	864,872	865,680	72,140	2,365	2,785	84.93
2009	835,085	838,419	69,868	2,297	2,835	81.02
2010	872,415	872,263	72,689	2,390	2,845	84.00
2011	927,044	924,447	77,037	2,533	2,934	86.32
2012	947,292	946,046	78,837	2,585	2,949	87.65
2013	915,075	909,539	75,795	2,492	2,949	84.50
2014	927,524	918,377	76,531	2,516	3,009	83.62
2015	1,026,107	1,014,957	84,580	2,781	3,059	90.90
2016	1,078,119	1,072,234	89,353	2,930	3,064	95.61
2017	1,118,167	1,116,614	93,051	3,059	3,105	98.53
2018	1,116,281	1,106,317	92,193	3,031	3,204	94.60
2019	1,071,923	1,064,217	88,685	2,916	3,204	91.00
2020	980,259	980,379	81,698	2,679	3,204	83.60
2021	960,147	961,384	80,115	2,634	3,204	82.21
2022	1,031,283	1,026,102	85,509	2,811	3,204	87.74
2023	1,005,770	1,006,626	83,885	2,758	3,204	86.08

자료: 한국석유공사

Source : Korea National Oil Corporation

3. 석유정제 및 전환공정 투입

Petroleum Refining & Transformation Processes

단위: 천 배럴

Unit: Thousand barrels

	석유 정제 Petroleum Refining		발전 및 열생산 투입 ¹ Power Generation & Others ¹		
	원유 및 정제원료 투입 Petroleum Refining Inputs	석유제품 정제생산 Petroleum Refining Production	발전전용 Electricity-only	열병합 CHP	열전용 Heat-only
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	1,030,109	1,073,059	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
2022	1,155,425	1,189,404	4,056	967	1,683
2023 ^o	1,149,566	1,183,019	2,678	529	1,388

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

1. Power generation and heat production inputs of petroleum products

4. 석유제품 수급

단위: 천 배럴

	공급 Supply						
	수입 Imports	수출 Exports	국제해운병커링 International Marine Bunkers	국제항공병커링 International Aviation Bunkers	재고변화 Stock changes	일차에너지공급 ¹ TPES ¹	정제생산 Petroleum Refining Production
1990	101,248	27,184	18,664	10,136	-5,166	40,098	300,671
1991	110,042	69,744	26,767	11,013	-681	1,838	403,172
1992	137,011	91,653	33,625	13,175	-5,445	-6,887	498,179
1993	167,759	103,493	35,064	14,548	-2,679	11,975	532,859
1994	190,790	93,132	40,792	16,339	-2,418	38,109	568,034
1995	205,428	122,630	47,328	18,484	-1,284	15,703	630,447
1996	215,124	158,329	57,897	20,200	-4,844	-26,146	711,091
1997	185,811	231,050	63,614	21,998	-5,846	-136,697	877,979
1998	175,895	296,682	65,973	18,197	2,377	-202,580	831,686
1999	184,490	297,899	72,015	18,834	3,535	-200,723	882,503
2000	204,301	303,723	66,385	19,880	-6,861	-192,548	898,150
2001	204,757	292,469	63,682	20,838	596	-171,636	875,425
2002	228,543	235,567	61,644	23,536	5,973	-86,232	818,580
2003	219,897	203,343	66,233	24,727	1,160	-73,245	797,438
2004	195,110	227,306	68,677	26,357	-8,213	-135,444	841,987
2005	179,354	262,647	68,550	27,175	9,518	-169,499	886,181
2006	191,560	278,632	68,737	22,236	-3,351	-181,396	894,250
2007	209,130	279,659	63,558	30,942	2,378	-162,651	890,883
2008	224,614	317,870	60,474	28,234	4,581	-177,384	875,161
2009	267,832	312,654	54,645	26,889	3,020	-123,336	846,060
2010	276,849	340,597	57,501	29,935	-2,767	-153,952	900,247
2011	279,260	394,944	56,610	30,191	803	-201,682	944,587
2012	309,599	425,574	54,911	30,209	-6,692	-207,786	978,095
2013	329,205	429,291	53,651	31,896	-1,133	-186,766	967,180
2014	326,623	448,822	54,829	31,973	-89	-209,090	988,461
2015	307,875	477,425	60,892	32,882	-2,047	-265,370	1,073,059
2016	334,608	487,716	68,391	36,733	2,603	-255,629	1,118,794
2017	314,487	509,113	66,091	37,604	-1,663	-299,983	1,185,996
2018	341,628	531,563	62,672	39,620	-10,905	-303,132	1,207,900
2019	352,147	522,099	54,281	40,375	8,063	-256,545	1,196,345
2020	347,302	468,529	65,664	25,204	1,152	-210,942	1,112,863
2021	392,317	446,559	70,042	19,801	1,109	-142,976	1,113,422
2022	367,072	497,020	77,484	24,851	48	-232,234	1,189,404
2023 ²	372,054	494,404	72,136	40,268	-6,174	-240,928	1,183,019

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

Unit: Thousand barrels

발전 및 열생산 투입 Power Generation & Others	에너지산업 자체소비 Energy Industry Own Use	소비 Consumption			수송 Transport	건물 ² Building ²	
		최종소비 TFC	산업 Industry	석유화학원료 Petrochemical Feedstock			
29,720	6,177	298,791	136,088	17,721	87,424	75,279	1990
42,970	6,730	349,916	160,541	19,968	98,632	90,743	1991
53,339	7,482	420,540	205,167	77,975	111,881	103,492	1992
50,752	9,799	471,282	219,823	91,759	131,569	119,890	1993
57,628	11,135	533,451	262,171	140,904	146,564	124,716	1994
64,260	13,730	558,685	253,191	121,870	164,992	140,503	1995
65,623	12,823	593,951	267,891	127,306	176,718	149,341	1996
59,288	39,540	641,542	302,762	146,177	188,658	150,123	1997
24,192	35,504	565,805	307,893	172,263	149,551	108,361	1998
26,830	37,094	615,237	324,459	194,921	164,076	126,703	1999
41,243	36,267	630,544	334,302	203,171	183,621	112,622	2000
44,720	32,992	625,752	326,851	202,228	192,874	106,027	2001
39,790	32,289	646,205	338,473	214,581	205,299	102,433	2002
40,464	31,979	648,500	339,475	226,876	211,798	97,227	2003
34,169	32,274	642,486	345,018	226,792	212,454	85,014	2004
29,785	32,920	640,864	349,108	235,257	215,907	75,849	2005
30,707	32,838	650,245	357,382	245,503	223,716	69,147	2006
31,389	34,043	664,737	376,104	266,859	223,823	64,809	2007
18,150	38,291	641,487	361,752	263,866	218,940	60,795	2008
24,119	36,935	660,470	381,381	283,053	220,471	58,619	2009
22,370	33,486	681,595	397,694	301,198	223,353	60,548	2010
16,144	36,233	685,590	406,387	313,930	222,535	56,668	2011
23,699	38,174	699,879	419,861	337,949	227,457	52,561	2012
24,235	38,481	703,082	422,641	346,229	230,691	49,749	2013
12,062	39,214	709,141	428,460	355,402	232,807	47,873	2014
13,619	43,816	734,560	433,577	364,101	247,511	53,472	2015
20,557	46,129	782,758	469,195	396,000	257,307	56,256	2016
9,245	40,552	801,275	487,121	413,430	257,708	56,447	2017
9,706	41,677	788,210	478,445	408,941	256,066	53,700	2018
7,396	41,759	796,132	483,878	412,370	263,189	49,065	2019
5,420	41,306	752,269	462,169	382,656	245,380	44,720	2020
5,961	38,312	809,098	505,836	417,203	259,041	44,221	2021
6,706	38,981	798,903	496,939	412,631	258,008	43,955	2022
4,595	39,205	766,182	473,704	386,145	250,712	41,765	2023 ^p

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

단위: 천 배럴

	합계 Total	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
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
2022	367,072	85,845	21,227	86	2	38
2023 ^p	372,054	77,616	20,786	804	304	22

자료: 한국석유공사-PEDSIS

4-1. Petroleum Products Imports

Unit: Thousand barrels

경유 Diesel	중유 Fuel Oil	납사 Naphtha	용제 White spirit & SBP	윤활유 Lubricants	아스팔트 Bitumen	기타 Others	
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	0	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	0	2020
0	37,239	253,313	2	993	3,353	0	2021
300	20,800	236,608	9	1,605	551	-	2022
-	31,512	239,951	0	968	54	38	2023 ^a

Source: Korea National Oil Corporation-PEDSIS

4-2. 석유제품 수출

단위: 천 배럴

	합계 Total	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
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
2022	497,020	607	96	100,335	85,772	5,014
2023 ^p	494,404	352	257	101,997	92,805	3,993

자료: 한국석유공사-PEDSIS

4-2. Petroleum Products Exports

Unit: Thousand barrels

경유 Diesel	중유 Fuel Oil	납사 Naphtha	용제 White spirit & SBP	윤활유 Lubricants	아스팔트 Bitumen	기타 Others	
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
203,530	12,776	33,944	1,102	25,412	13,811	14,620	2022
196,509	6,165	39,861	1,209	24,607	12,200	14,448	2023 ^p

Source: Korea National Oil Corporation-PEDSIS

4-3. 석유제품 정제생산

단위: 천 배럴

	합계 Total	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
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	1,073,059	11,135	18,935	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
2022	1,189,404	2,224	17,488	183,838	122,855	47,659
2023 ^p	1,183,019	3,887	17,936	188,916	139,254	46,318

자료: 한국석유공사-PEDSIS

4-3. Petroleum Refining Production

Unit: Thousand barrels

경유 Diesel	중유 Fuel Oil	납사 Naphtha	용제 White spirit & SBP	윤활유 Lubricants	아스팔트 Bitumen	기타 Others	
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	-	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	58,921	196,028	3,067	20,101	37,173	59,661	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
363,454	93,575	224,504	3,382	33,919	17,487	79,018	2022
351,798	78,914	222,856	3,516	32,254	18,046	79,324	2023 ^p

Source: Korea National Oil Corporation-PEDSIS

4-4. 석유제품 소비

단위: 천 배럴

	합계 Total	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
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	734,560	38,570	47,233	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
2022	798,903	78,163	37,088	88,368	15,606	15,446
2023 ^p	766,182	70,558	37,003	90,361	9,519	13,123

주: 최종소비

자료: 한국석유공사-PEDSIS

4-4. Petroleum Products Consumption

Unit: Thousand barrels

경유 Diesel	중유 Fuel Oil	납사 Naphtha	용제 White spirit & SBP	윤활유 Lubricants	아스팔트 Bitumen	기타 Others	
94,104	68,700	43,065	458	-	5,113	-	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	-	1993
142,732	98,315	127,970	680	-	9,416	-	1994
155,423	95,006	119,775	733	-	9,524	-	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	346,570	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
151,783	6,697	355,984	1,403	7,594	8,383	32,387	2022
150,423	6,885	337,784	1,620	8,243	9,077	31,586	2023 ^p

Note: Total final consumption

Source: Korea National Oil Corporation-PEDSIS

4-4-1. 프로판 Propane

단위: 천 배럴

	공급 Supply					소비 Consumption						
	수입 Imports	수출 Exports	재고변화 Stock changes	일차 에너지공급 TPES	정제생산 Petroleum Products	발전 및 열생산 투입 Power Generation & Others	에너지산업 자체소비 Transformation own use	최종소비				
								TFC	산업 Industry	석유화학원료 Petrochemical Feedstock	수송 Transport	건물 ¹ Building ¹
1990	22,127	593	-1,038	20,495	3,345	-	2,704	21,168	1,326	-	153	19,690
1991	25,351	656	648	25,343	4,314	1	4,765	24,762	2,189	146	92	22,481
1992	30,933	218	-678	30,036	5,653	4	6,599	28,563	3,500	1,571	107	24,955
1993	34,269	525	831	34,575	4,880	-	8,898	30,469	3,466	1,580	55	26,948
1994	37,950	596	246	37,600	2,788	-	10,281	31,632	5,139	2,295	118	26,375
1995	43,360	1,766	298	41,891	4,506	-	12,773	33,457	6,001	2,083	145	27,311
1996	44,097	2,060	-18	42,007	5,715	-	11,937	35,583	6,557	2,214	51	28,975
1997	46,754	2,991	-2,474	41,277	6,725	-	7,981	39,874	10,909	4,779	102	28,863
1998	39,662	6,913	717	33,465	8,429	0	4,291	37,503	11,733	6,894	196	25,573
1999	45,772	8,708	-24	37,027	9,377	3	4,606	41,636	13,708	6,429	177	27,752
2000	40,209	5,287	354	35,276	10,905	-	3,254	42,830	12,918	7,102	76	29,835
2001	32,177	2,384	512	30,306	10,407	-	238	38,619	9,486	4,966	31	29,102
2002	37,844	1,589	-1,148	35,103	9,626	1	192	41,908	12,056	7,508	105	29,747
2003	35,325	1,740	-753	32,829	10,526	1	163	38,728	11,006	7,080	97	27,625
2004	32,701	510	-651	31,538	11,033	0	158	35,816	11,176	7,754	87	24,553
2005	32,469	295	763	32,936	11,182	4	501	36,078	13,358	7,656	6	22,714
2006	32,062	393	-124	31,545	11,209	4	387	36,458	13,986	8,047	6	22,466
2007	32,691	329	1,434	33,796	10,227	2	719	36,800	14,657	8,219	6	22,137
2008	31,074	258	388	31,205	12,968	2	568	34,735	15,220	8,715	25	19,490
2009	32,399	125	188	32,462	15,274	9	842	38,485	18,730	12,552	10	19,745
2010	35,221	910	-68	34,244	17,149	2	856	39,130	19,893	12,517	12	19,225
2011	38,561	742	-257	37,563	10,992	1	759	36,552	18,239	11,352	12	18,301
2012	36,916	1,563	237	35,589	12,544	1	1,152	33,644	16,490	9,033	15	17,140
2013	32,179	821	445	31,803	11,373	1	958	34,334	17,055	10,824	28	17,250
2014	32,266	1,049	-1,867	29,351	11,467	1	616	33,493	17,725	11,387	16	15,752
2015	36,435	804	716	36,347	11,135	1	1,573	38,570	21,768	14,073	28	16,774
2016	56,437	1,450	-47	54,940	8,127	1	1,766	54,486	36,516	27,561	31	17,939
2017	55,155	1,930	-201	53,024	10,509	405	1,764	54,611	37,457	25,335	16	17,137
2018	59,549	3,898	-817	54,835	9,127	258	1,155	55,972	38,410	29,240	16	17,546
2019	74,600	5,126	585	70,059	6,833	943	2,032	67,840	50,037	39,847	17	17,786
2020	80,930	5,826	-623	74,481	4,713	829	2,136	70,644	52,893	42,383	17	17,734
2021	76,363	2,850	559	74,071	6,706	1,245	1,350	72,524	54,359	40,872	17	18,148
2022	85,845	607	-815	84,424	2,224	2,257	2,177	78,163	59,353	49,188	18	18,792
2023 ⁹	77,616	352	-870	76,394	3,887	876	2,240	70,558	51,946	39,516	18	18,594

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	재고변화	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비				
	Imports	Exports	Stock changes	TPES	Petroleum Products	Power Generators & Others	Transformation own use	TFC	산업	석유화학원료 Petrochemical Feedstock	수송	건물 ¹
									Industry		Transport	Building ¹
1990	4,998	505	-301	4,192	8,812	-	975	12,103	929	-	11,121	53
1991	4,950	687	85	4,348	9,673	-	413	13,570	1,886	245	11,627	58
1992	8,698	437	-217	8,044	9,816	-	23	18,458	5,708	4,543	12,724	27
1993	11,209	811	-492	9,906	9,523	-	0	19,680	5,667	4,677	13,954	59
1994	10,645	742	920	10,823	8,066	-	43	21,118	5,798	4,423	15,232	88
1995	9,742	1,145	-125	8,472	11,510	-	68	19,903	3,690	2,010	16,144	68
1996	11,052	1,451	87	9,687	10,954	-	5	20,671	3,492	1,548	17,102	77
1997	10,476	1,566	-906	8,004	13,936	-	8	21,999	2,974	1,501	18,242	783
1998	9,482	3,571	-419	5,493	18,670	-	3	24,211	4,837	2,961	19,097	277
1999	11,887	4,941	828	7,774	21,651	0	21	29,390	5,118	2,753	23,792	480
2000	15,554	2,844	-344	12,366	25,044	-	55	37,340	5,117	2,920	31,770	453
2001	15,885	2,436	42	13,490	28,928	-	60	42,545	5,849	3,515	36,356	340
2002	18,371	1,293	-1,119	15,956	30,835	-	32	45,933	6,273	3,765	38,890	770
2003	15,476	1,154	152	14,474	29,794	-	33	47,295	5,854	3,611	40,620	822
2004	15,183	454	-290	14,439	30,194	-	22	49,705	6,798	4,563	42,024	883
2005	17,220	419	443	17,244	28,887	0	37	50,910	6,093	4,641	43,119	1,697
2006	21,941	369	355	21,926	26,973	0	4	53,596	7,490	6,262	44,660	1,446
2007	25,481	204	465	25,742	26,000	0	8	56,736	7,900	6,625	47,498	1,339
2008	31,967	115	69	31,922	23,218	0	53	62,042	13,267	12,052	47,638	1,137
2009	33,792	1	175	33,966	21,128	-	6	62,346	12,406	11,131	48,947	993
2010	34,408	1	-287	34,121	18,282	-	4	58,276	8,900	7,475	48,599	778
2011	35,379	163	-256	34,960	14,207	-	3	54,808	7,342	6,202	46,223	1,243
2012	33,030	222	139	32,948	13,798	3	10	52,615	6,441	5,030	44,640	1,534
2013	33,790	36	370	34,123	14,405	10	39	54,231	9,151	7,599	43,634	1,446
2014	31,267	299	-543	30,424	17,560	3	456	52,430	9,823	8,128	40,888	1,719
2015	26,277	439	-50	25,788	18,935	7	100	47,233	5,140	3,457	40,420	1,673
2016	26,834	417	458	26,875	18,142	7	92	47,257	7,353	5,570	38,618	1,285
2017	18,124	483	-518	17,123	23,422	6	106	43,376	5,479	3,852	36,157	1,741
2018	19,776	1,044	-86	18,645	24,200	6	85	44,472	9,270	7,142	33,709	1,492
2019	19,493	681	521	19,332	22,216	6	81	43,096	8,821	7,081	33,198	1,078
2020	20,235	218	-235	19,781	19,105	5	72	38,456	8,630	6,407	28,890	936
2021	20,535	406	159	20,289	17,735	5	67	36,709	7,908	6,414	27,902	899
2022	21,227	96	-420	20,711	17,488	5	64	37,088	8,529	7,460	27,662	897
2023 ⁹	20,786	257	-611	19,917	17,936	5	151	37,003	9,826	8,845	26,324	852

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	재고변화	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
	Imports	Exports	Stock changes	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 ¹ Building ¹
1990	-	30	-237	-284	23,985	1	9	23,672	522	22,233	917
1991	-	992	-116	-1,109	29,874	2	12	28,706	669	26,926	1,111
1992	-	119	-10	-129	35,422	1	21	35,235	881	33,434	919
1993	-	520	-1,593	-2,114	44,737	1	10	42,493	1,106	40,377	1,010
1994	-	568	986	418	49,521	0	9	51,088	1,378	48,893	817
1995	-	442	-299	-740	60,445	0	7	59,382	1,416	57,043	923
1996	-	2,546	-259	-2,805	71,083	0	7	67,971	1,610	65,661	700
1997	-	10,169	-714	-10,885	82,300	1	7	71,355	1,931	68,767	657
1998	215	15,611	278	-15,117	76,111	-	5	61,089	2,457	57,729	903
1999	390	11,274	-284	-11,168	75,207	-	5	63,879	2,189	61,155	534
2000	740	14,869	-558	-14,687	76,336	-	3	62,382	2,184	59,744	454
2001	2,108	16,166	220	-13,842	76,502	0	3	62,704	2,669	59,474	562
2002	4,032	15,525	74	-11,421	76,744	1	3	64,076	3,093	60,333	650
2003	2,061	13,538	86	-11,397	71,385	1	23	60,477	2,014	57,843	621
2004	1,218	18,323	86	-17,020	74,969	2	5	58,148	2,025	55,587	535
2005	78	14,515	92	-14,345	73,877	2	4	60,391	2,089	57,732	570
2006	-	19,927	-77	-20,005	80,616	4	4	59,871	1,893	57,399	579
2007	-	15,336	-121	-15,458	78,375	3	5	62,498	1,611	60,432	455
2008	-	30,911	694	-30,217	93,710	5	4	62,933	1,558	60,897	478
2009	-	40,187	-553	-40,740	106,615	6	4	65,866	1,566	63,729	571
2010	-	39,338	-639	-39,977	108,921	5	4	68,926	1,508	66,815	603
2011	-	53,519	641	-52,878	122,473	3	4	69,571	1,555	67,448	568
2012	84	63,492	-1,898	-65,306	136,490	3	3	71,762	1,503	69,624	635
2013	1,718	64,013	37	-62,258	134,758	3	10	73,407	1,547	71,162	698
2014	-	73,327	615	-72,712	145,127	1	3	73,471	1,461	71,186	825
2015	387	79,293	-658	-79,565	156,999	4	3	76,566	1,430	74,265	871
2016	1,391	76,258	-593	-75,460	154,036	0	3	78,926	1,348	76,897	680
2017	1,127	82,217	21	-81,069	160,624	0	3	79,616	1,500	77,518	598
2018	174	87,895	-1,503	-89,223	169,511	0	3	79,683	1,388	77,710	584
2019	130	87,872	1,045	-86,697	170,280	0	2	82,750	1,353	80,942	455
2020	0	74,147	1,229	-72,918	151,393	0	2	80,965	1,298	79,388	278
2021	299	98,370	-539	-98,611	178,751	0	2	84,873	1,189	83,389	295
2022	86	100,335	-396	-100,646	183,838	0	2	88,368	1,128	86,957	283
2023 ⁹	804	101,997	-762	-101,956	188,916	0	2	90,361	1,110	88,959	292

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	재고변화	일차 에너지공급	정제 생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
	Imports	Exports	International Aviation Bunkers	Stock changes	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 ¹ Building ¹
1990	6	-	10,103	-344	-10,442	16,405	-	0	6,725	-	16	6,709
1991	9	3,131	11,010	-149	-14,281	18,696	-	0	5,937	-	17	5,921
1992	-	7,543	13,173	380	-20,336	21,034	-	0	2,941	-	15	2,927
1993	-	5,576	14,545	240	-19,882	20,230	-	1	2,738	-	31	2,708
1994	-	6,168	16,334	-601	-23,103	26,196	-	1	2,759	1	35	2,724
1995	115	13,435	18,476	-16	-31,812	34,981	-	0	2,961	4	33	2,924
1996	4,408	19,670	20,191	105	-35,348	38,862	-	0	3,355	2	26	3,327
1997	3,582	19,942	21,990	-458	-38,808	42,399	-	1	3,031	1	43	2,988
1998	1,210	42,764	18,197	-288	-60,040	63,826	0	1	2,974	2	67	2,906
1999	3,828	34,333	18,829	308	-49,028	53,036	-	1	3,128	3	56	3,069
2000	1,696	37,675	19,875	-902	-56,756	59,568	-	4	2,628	2	62	2,563
2001	339	39,500	20,828	-805	-60,795	65,251	-	2	4,168	11	63	4,094
2002	2,781	42,006	23,525	856	-61,894	67,734	-	0	3,482	13	65	3,404
2003	3,459	27,658	24,725	-184	-49,107	55,020	-	0	4,895	15	68	4,812
2004	215	45,508	26,349	-839	-72,481	76,644	-	0	4,753	18	85	4,651
2005	1	54,533	27,171	1,682	-80,021	84,904	-	0	4,797	14	93	4,689
2006	3	62,399	22,236	-556	-85,188	95,490	-	0	10,686	14	7,297	3,375
2007	2	72,350	30,942	-1,023	-104,312	105,699	-	0	3,700	1	479	3,221
2008	251	76,869	28,230	1,054	-103,793	107,675	-	-	5,229	1	2,223	3,006
2009	2	69,819	26,889	201	-96,504	102,664	-	-	6,120	0	2,672	3,448
2010	6	71,449	29,935	-262	-101,641	105,458	-	-	6,188	0	2,715	3,473
2011	16	81,239	30,191	-394	-111,808	118,137	-	-	7,401	0	3,748	3,653
2012	18	91,539	30,208	-562	-122,291	130,697	-	-	9,623	0	6,167	3,455
2013	17	89,534	31,895	-727	-122,139	129,990	-	-	8,735	3	5,248	3,484
2014	6	93,840	31,973	940	-124,867	135,208	-	0	11,356	0	7,855	3,501
2015	4	107,272	32,882	337	-139,813	151,720	-	-	13,057	9	9,371	3,677
2016	7	111,378	36,733	-1,164	-149,268	160,738	-	-	12,673	5	9,180	3,488
2017	3	121,203	37,604	-1,238	-160,042	174,006	-	-	13,370	2	9,793	3,575
2018	3	115,417	39,620	-810	-155,845	170,998	-	-	13,724	2	10,033	3,689
2019	3	114,850	40,375	108	-155,114	170,766	-	-	13,120	3	9,833	3,284
2020	5	82,248	25,204	1,605	-105,842	112,582	-	-	7,793	2	4,484	3,307
2021	5	65,465	19,801	1,150	-84,111	97,182	-	-	15,531	5	12,075	3,451
2022	2	85,772	24,850	-58	-110,677	122,855	-	0	15,606	5	12,038	3,563
2023 ^a	304	92,805	40,266	-933	-133,699	139,254	-	0	9,519	10	6,438	3,071

1. 가정, 상업, 공공부문 합계

주: 항공휘발유, 휘발유형항공유, 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	재고변화	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
	Imports	Exports	Stock changes	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 ¹ Building ¹
1990	17,465	97	-4,916	12,452	13,600	3	54	23,684	4,724	156	18,804
1991	9,771	-	4,289	14,060	13,771	3	4	25,465	4,663	152	20,650
1992	8,986	3	-1,334	7,648	29,186	5	9	34,077	4,945	240	28,893
1993	16,016	5	-1,726	14,285	31,874	1	8	43,130	5,313	253	37,564
1994	17,087	465	-951	15,670	30,926	7	5	47,741	5,479	219	42,044
1995	23,361	564	-340	22,457	40,852	2	6	62,522	7,141	228	55,152
1996	27,679	2,913	-1,732	23,030	51,235	22	10	73,508	7,375	292	65,841
1997	15,769	10,250	1,751	7,265	76,329	20	5	83,125	12,209	279	70,637
1998	5,103	6,949	-1,476	-3,337	65,574	68	105	60,349	10,675	336	49,338
1999	2,687	14,986	-182	-12,481	90,380	1,112	167	75,803	8,538	151	67,113
2000	6,870	19,874	-2,832	-15,836	87,824	955	158	68,918	8,237	57	60,624
2001	5,310	18,006	2,093	-10,603	75,525	505	360	61,801	6,801	101	54,899
2002	6,917	10,205	3,751	455	62,721	1,064	264	58,919	7,279	203	51,437
2003	6,624	13,144	-1,230	-7,755	64,500	1,760	308	52,740	6,551	183	46,007
2004	1,710	7,693	1,702	-4,286	50,535	836	62	43,872	6,165	107	37,601
2005	360	4,455	1,622	-2,474	45,271	748	36	36,529	6,062	83	30,384
2006	259	4,763	-1,906	-6,410	41,220	1,082	28	31,839	5,536	75	26,228
2007	514	1,250	1,102	367	30,021	808	258	26,601	5,012	55	21,534
2008	379	2,396	1,221	-796	31,846	662	628	27,935	4,785	60	23,090
2009	68	5,425	102	-5,256	33,348	795	43	26,096	4,592	61	21,444
2010	331	6,462	-703	-6,834	39,176	854	22	29,541	5,456	88	23,996
2011	417	8,960	549	-7,994	35,813	542	19	25,974	4,777	96	21,101
2012	151	7,582	377	-7,054	32,625	483	15	22,563	4,117	162	18,284
2013	98	6,685	-303	-6,890	28,204	685	12	19,238	3,619	58	15,562
2014	133	4,438	560	-3,750	23,097	707	100	15,956	1,904	31	14,021
2015	11	3,769	-531	-4,298	24,958	888	20	16,861	1,399	57	15,405
2016	18	2,065	81	-1,972	25,688	1,382	11	19,245	1,491	18	17,737
2017	37	5,266	447	-4,783	25,606	1,211	20	18,729	1,248	19	17,462
2018	1	6,530	-488	-7,018	26,829	1,254	10	18,511	1,277	32	17,202
2019	35	4,171	-235	-4,371	21,485	1,330	10	16,668	1,521	44	15,102
2020	80	6,397	961	-5,355	44,372	1,105	4	16,831	2,256	50	14,525
2021	216	7,878	-384	-8,046	53,657	1,191	4	16,490	2,280	38	14,171
2022	38	5,014	387	-4,590	47,659	1,462	1	15,446	2,086	34	13,327
2023 ⁹	22	3,993	-701	-4,672	46,318	1,677	1	13,123	1,736	5	11,382

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	재고변화	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
	Imports	Exports	Stock changes	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 ¹ Building ¹
1990	13,586	10,453	664	1,351	95,010	1,755	315	94,104	21,538	52,237	20,328
1991	10,803	20,661	-1,465	-15,565	127,080	2,027	186	110,620	23,669	58,348	28,603
1992	5,781	27,124	-1,983	-28,461	153,717	4,022	203	121,487	24,682	63,645	33,160
1993	11,226	35,709	-816	-29,997	168,233	2,123	174	134,127	25,679	69,603	38,845
1994	17,435	34,310	-562	-23,461	166,155	2,886	139	142,732	27,880	75,112	39,740
1995	32,190	42,443	-2,547	-20,066	181,389	6,096	125	155,423	29,292	84,840	41,291
1996	18,540	54,208	-676	-45,215	215,452	10,352	142	159,719	31,020	90,471	38,229
1997	3,134	93,711	-465	-100,279	264,509	8,679	323	156,016	31,794	88,402	35,820
1998	2,198	109,238	1,995	-115,612	232,804	1,868	85	115,876	23,498	68,956	23,422
1999	2,311	88,353	614	-96,305	219,311	1,089	93	122,006	22,985	77,191	21,830
2000	2,818	96,675	-611	-102,669	228,204	496	46	126,367	25,080	88,255	13,032
2001	6,681	90,440	1,350	-90,424	218,943	291	46	129,549	25,164	92,663	11,723
2002	12,928	76,235	1,797	-69,308	205,437	689	37	135,322	23,189	101,141	10,993
2003	11,141	60,817	-201	-57,994	200,644	2,306	35	141,240	21,125	108,309	11,807
2004	4,290	68,038	-1,643	-73,553	215,217	194	47	141,733	19,618	110,186	11,929
2005	1,912	85,890	1,531	-89,490	229,813	129	38	139,787	18,234	110,352	11,201
2006	1,582	91,520	-904	-97,441	236,329	199	28	140,326	20,530	110,170	9,625
2007	765	102,974	-1,759	-110,333	250,438	179	41	142,400	20,983	111,404	10,012
2008	369	130,936	1,624	-134,672	267,800	196	43	131,296	18,752	103,846	8,698
2009	836	125,474	1,110	-128,320	258,387	137	40	128,902	19,271	100,828	8,803
2010	758	130,761	-852	-135,778	267,196	237	39	130,479	20,332	101,266	8,881
2011	950	159,181	907	-161,483	292,885	599	36	129,839	20,082	101,100	8,657
2012	4,783	176,464	-1,970	-177,336	309,772	1,128	42	131,917	19,572	103,242	9,103
2013	8,597	163,759	-164	-159,354	299,242	741	40	138,477	20,597	108,608	9,271
2014	5,152	174,142	896	-172,798	315,056	131	33	140,824	18,961	111,390	10,473
2015	267	171,999	-2,403	-181,337	334,360	83	36	151,750	17,569	121,217	12,964
2016	198	175,032	2,497	-179,118	339,998	186	37	161,183	16,953	130,748	13,482
2017	236	176,154	-854	-184,218	347,167	93	44	163,026	16,051	132,721	14,254
2018	237	190,712	-1,686	-199,308	360,752	329	37	160,316	15,129	133,341	11,845
2019	138	195,231	676	-203,407	367,540	972	32	163,781	15,810	137,642	10,329
2020	19	200,099	2,962	-207,256	351,861	391	44	155,042	16,479	131,401	7,162
2021	0	180,871	-633	-194,224	337,745	616	11	156,318	15,524	134,062	6,732
2022	300	203,530	-528	-219,163	363,454	964	11	151,783	15,540	129,608	6,635
2023 ⁹	-	196,509	-1,708	-212,378	351,798	728	9	150,423	16,255	127,216	6,952

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 Imports	수출 Exports	국제해운 병커링 International Marine Bunkers	재고변화 Stock changes	일차 에너지공급 TPES	정제 생산 Petroleum Products	발전 및 열생산 투입 Power Generatoin & Others	에너지산업 자체소비 Transformation own use	최종소비 TFC	산업 Industry	수송 Transport	건물 ¹ Building ¹
1990	27,658	12,091	16,226	972	307	102,705	27,961	2,114	68,700	58,414	1,507	8,778
1991	34,209	37,925	22,526	-2,563	-28,806	147,943	40,938	1,344	76,612	63,221	1,471	11,920
1992	34,271	50,708	28,491	527	-44,402	178,972	49,306	625	83,929	69,600	1,717	12,612
1993	32,624	49,693	30,369	1,092	-46,345	188,587	48,628	697	91,499	71,447	7,296	12,757
1994	35,486	40,082	34,773	-2,861	-42,230	190,927	54,735	642	98,315	78,430	6,957	12,928
1995	24,824	40,238	40,069	897	-54,587	208,597	58,162	744	95,006	75,615	6,557	12,834
1996	29,143	43,075	49,017	-950	-63,899	214,255	55,249	719	92,980	77,671	3,115	12,194
1997	26,757	50,242	54,368	-1,530	-79,383	238,153	50,588	15,147	93,040	69,937	12,823	10,280
1998	12,926	60,240	55,393	1,852	-100,855	207,207	22,255	15,861	67,156	58,104	3,170	5,882
1999	16,497	82,375	61,127	373	-126,631	240,188	24,626	16,539	72,416	65,076	1,553	5,787
2000	25,107	72,157	58,189	-1,202	-106,441	230,510	39,792	15,839	68,295	59,187	3,656	5,452
2001	22,318	67,011	55,675	-606	-100,974	225,792	43,923	15,981	64,461	55,192	4,185	5,083
2002	23,700	35,025	53,840	667	-64,499	189,808	38,036	15,639	64,362	54,587	4,563	5,213
2003	13,829	45,835	58,104	1,356	-88,754	204,384	36,398	14,950	60,260	50,240	4,670	5,350
2004	8,285	45,539	60,516	-1,528	-99,298	202,451	33,135	14,868	54,912	46,139	4,379	4,395
2005	4,021	56,065	61,510	2,423	-111,131	211,249	28,902	16,187	51,519	42,909	4,521	4,090
2006	8,749	58,266	62,138	-1,343	-112,998	207,786	29,418	15,766	47,737	39,137	4,109	4,491
2007	5,910	42,699	57,192	1,398	-92,584	185,083	30,397	15,606	44,432	35,188	3,950	5,294
2008	7,192	35,352	54,748	-119	-83,026	151,959	17,285	14,611	37,503	29,242	4,239	4,021
2009	19,858	25,814	49,853	429	-55,380	126,246	23,172	13,665	33,045	25,683	4,220	3,141
2010	17,478	25,884	52,578	-921	-61,905	125,491	21,273	10,424	30,579	23,851	3,857	2,871
2011	15,392	34,486	52,451	-1,209	-72,754	124,722	14,999	10,245	25,820	19,454	3,868	2,498
2012	27,146	28,428	51,227	640	-51,870	102,477	22,081	7,292	19,235	13,751	3,588	1,895
2013	44,281	22,434	49,624	205	-27,572	81,718	22,796	8,439	13,328	9,739	1,893	1,696
2014	52,006	13,810	50,120	-763	-12,687	55,781	11,218	7,828	11,541	8,983	1,362	1,196
2015	46,737	10,965	53,682	-520	-18,430	58,921	12,637	8,563	12,817	9,230	2,153	1,434
2016	47,228	13,512	61,604	1,759	-26,129	72,756	18,981	10,408	12,667	9,670	1,815	1,182
2017	40,091	16,657	58,646	-1,042	-36,255	70,065	7,530	8,927	11,059	8,304	1,484	1,271
2018	42,915	26,345	55,524	-281	-39,236	70,667	7,859	5,255	9,987	7,714	1,224	1,048
2019	31,585	17,490	45,291	2,032	-29,164	59,492	4,145	2,124	8,402	6,108	1,513	780
2020	29,626	13,262	55,525	1,178	-37,982	77,276	3,089	1,779	6,833	5,216	1,150	467
2021	37,239	8,829	57,322	-1,047	-29,959	77,512	2,903	719	6,405	4,547	1,557	300
2022	20,800	12,776	62,081	693	-53,364	93,575	2,019	607	6,697	4,741	1,692	265
2023 ⁹	31,512	6,165	57,977	864	-31,766	78,914	1,309	520	6,885	4,777	1,752	356

1. 가정, 상업, 공공부문 합계

주: 경질중유, 중유, 중질중유의 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	재고변화	일차 에너지공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비				
	Imports	Exports	Stock changes	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 ¹ Building ¹	
1990	15,409	3,325	97	12,181	31,151	-	3	43,065	43,065	-	-	
1991	24,862	5,625	-1,373	17,864	44,544	-	3	56,867	56,867	-	-	
1992	47,948	5,430	-1,911	40,607	54,253	-	1	85,528	85,528	-	-	
1993	62,414	10,328	-323	51,762	54,775	-	1	97,692	97,692	-	-	
1994	72,167	9,148	457	63,477	82,313	-	0	127,970	127,970	-	-	
1995	71,837	21,337	934	51,434	76,620	-	0	119,775	119,775	-	-	
1996	80,204	30,771	-1,448	47,986	90,630	-	0	128,775	128,775	-	-	
1997	79,326	36,942	-1,306	41,078	112,554	-	264	152,960	152,960	-	-	
1998	105,100	44,848	102	60,354	119,287	-	316	179,074	179,074	-	-	
1999	101,119	46,218	1,789	56,690	133,315	-	274	189,101	189,101	-	-	
2000	111,283	48,849	-737	61,696	142,054	-	267	202,634	202,615	-	20	
2001	119,738	51,228	-2,234	66,276	135,983	-	333	201,551	201,551	-	-	
2002	121,912	44,943	1,537	78,506	133,103	-	795	210,762	210,762	-	-	
2003	131,981	30,970	1,745	102,756	116,501	-	361	218,881	218,881	-	-	
2004	131,368	31,157	-5,097	95,114	131,886	-	243	226,789	226,789	-	-	
2005	123,292	25,793	1,006	98,505	138,131	-	199	234,409	234,409	-	-	
2006	126,964	27,991	899	99,872	142,343	-	182	243,267	243,267	-	-	
2007	143,766	29,423	1,021	115,364	149,630	-	22	266,283	266,283	-	-	
2008	153,381	22,915	-153	130,313	124,344	-	38	254,818	254,818	-	-	
2009	180,840	26,569	1,456	155,727	116,317	-	92	272,112	272,112	-	-	
2010	188,600	32,111	-506	155,982	133,950	-	0	289,885	289,885	-	-	
2011	188,507	35,386	252	153,373	149,304	-	-	303,306	303,306	-	-	
2012	207,444	33,287	-2,987	171,171	157,199	-	0	328,403	328,401	-	2	
2013	208,297	39,552	-1,332	167,413	160,125	-	0	327,806	327,806	-	-	
2014	205,726	35,363	-88	170,276	166,557	-	19	335,886	335,886	-	-	
2015	197,617	47,839	690	150,468	196,028	-	0	346,570	346,570	-	-	
2016	202,224	49,763	-186	152,275	213,617	-	0	362,868	362,868	-	-	
2017	199,632	44,194	2,104	157,542	249,148	-	0	384,242	384,242	-	-	
2018	218,814	43,564	-4,891	170,359	248,724	-	-	372,559	372,559	-	-	
2019	226,088	47,382	3,501	182,206	254,353	-	-	365,443	365,443	-	-	
2020	215,927	36,680	-5,359	173,888	224,925	-	-	333,938	333,938	-	-	
2021	253,313	31,203	2,375	224,486	214,883	-	-	369,918	369,918	-	-	
2022	236,608	33,944	1,068	203,732	224,504	-	-	355,984	355,984	-	-	
2023 ^o	239,951	39,861	-1,631	198,458	222,856	-	-	337,784	337,784	-	-	

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(2023⁹⁾)

단위: 천 배럴

	합계		정제가스 Refinery gas	프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Jet oil	등유 Kerosene	경유 Diesel	경질중유 Bunker-A
	Total	%								
국제해운버커링	72,136		-	0	-	0	-	-	14,158	66
국제항공버커링	40,268		-	-	-	-	40,266	-	2	-
전환공정 ¹	7,269		-	3,550	5	0	-	1,677	728	-
발전전용	2,678		-	131	5	0	-	1,669	728	-
열병합	529		-	330	-	-	-	-	0	-
열전용	1,388		-	415	-	-	-	8	-	-
가스제조	2,674		-	2,674	-	-	-	-	-	-
에너지산업자체소비	39,205		34,195	2,240	151	2	0	1	9	-
최종소비	766,182	100.0	9,028	70,558	37,003	90,361	9,519	13,123	150,423	864
산업	473,704	61.8	9,028	51,946	9,826	1,110	10	1,736	16,255	426
농림업	2,891	0.4	-	49	1	224	-	1,011	1,458	19
어업	5,762	0.8	-	12	-	575	-	-	5,109	16
광업	535	0.1	-	20	0	1	-	5	296	9
제조업	451,071	58.9	9,028	51,777	9,825	250	10	548	5,479	266
식품 및 담배	346	0.0	-	213	0	1	-	34	21	1
섬유 및 가죽	116	0.0	-	41	2	0	-	16	14	1
목재 및 나무제품	44	0.0	-	3	-	2	-	4	25	-
제지 및 인쇄	221	0.0	-	54	-	1	-	5	43	1
화학 및 석유화학	421,536	55.0	8,830	42,856	8,919	1	-	65	58	13
메모: 석유화학 원료	386,145	50.4	-	39,516	8,845	-	-	-	-	-
비금속 광물	3,422	0.4	-	297	0	5	-	9	997	22
철강	581	0.1	-	537	19	-	-	4	20	0
비철금속	349	0.0	-	130	1	-	-	-	22	0
기계류	608	0.1	-	191	0	3	-	67	282	32
수송장비	2,249	0.3	-	493	14	203	3	40	789	184
기타제조	9,584	1.3	-	6,854	870	35	4	290	843	11
기타에너지	12,014	1.6	198	107	1	-	3	16	2,364	0
건설업	13,445	1.8	-	88	-	60	-	172	3,914	117
수송	250,712	32.7	-	18	26,324	88,959	6,438	5	127,216	388
철도	401	0.1	-	0	-	-	-	-	401	-
도로	240,784	31.4	-	4	26,324	88,959	-	4	125,493	0
국내해운	3,051	0.4	-	10	-	-	-	0	1,289	388
국내항공	6,476	0.8	-	4	-	0	6,438	2	32	-
가정	15,045	2.0	-	6,090	115	3	-	8,800	9	6
상업	18,496	2.4	-	12,244	736	61	63	2,374	2,463	18
공공	8,225	1.1	-	260	1	227	3,008	209	4,480	26

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

4-5. Petroleum Product Consumption Status in 2023⁹

Unit: Thousand barrels

종류	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	
1	57,910	-	0	-	-	-	-	-	International marine bunkers
-	-	-	-	-	-	-	-	-	International aviation bunkers
-	1,309	-	-	-	-	-	-	-	Transformation processes ¹
-	146	-	-	-	-	-	-	-	Electricity-only plants
-	199	-	-	-	-	-	-	-	CHP plants
-	964	-	-	-	-	-	-	-	Heat-only plants
-	-	-	-	-	-	-	-	-	Gas manufacturing
-	520	-	0	0	-	-	2,088	-	Energy Industry Own Use
126	5,895	337,784	1,620	8,243	9,077	188	1,049	21,321	Total final consumption
101	4,250	337,784	1,383	8,243	9,077	188	1,049	21,293	Industry
35	92	-	2	-	-	-	-	-	Agriculture/Forestry
23	27	-	-	-	-	-	-	-	Fishing
1	31	-	1	-	-	-	171	-	Mining & quarrying
40	4,083	337,784	1,381	8,243	-	188	878	21,293	Manufacturing
1	75	-	-	-	-	-	-	-	Food & tobacco
2	34	-	7	-	-	-	-	-	Textile & leather
-	10	-	0	-	-	-	-	-	Wood & wood pro.
3	62	-	53	-	-	-	-	-	Paper, pulp & print
17	1,485	337,784	948	-	-	130	99	20,331	Chemical & petrochemical
-	-	337,784	-	-	-	-	-	-	memo: petrochemical feedstock
4	1,481	-	0	-	-	-	606	-	Non-metallic minerals
0	1	-	1	-	-	-	0	-	Iron & steel
0	194	-	1	-	-	-	-	-	Non-ferrous metals
9	19	-	6	-	-	-	-	-	Machinery
0	519	-	4	-	-	-	-	-	Transport equipment
4	170	-	189	-	-	8	-	306	Other manufacturing
0	33	-	171	8,243	-	49	173	655	Other energy
1	17	-	-	-	9,077	-	-	-	Construction
17	1,347	-	0	-	-	-	-	-	Transport
-	-	-	-	-	-	-	-	-	Rail
0	0	-	0	-	-	-	-	-	Road
17	1,347	-	-	-	-	-	-	-	Domestic navigation
-	-	-	-	-	-	-	-	-	Domestic aviation
2	20	-	-	-	-	-	-	-	Residential
5	269	-	234	-	-	-	-	28	Commercial
1	9	-	2	-	-	-	-	-	Public services

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

Source : Korea National Oil Corporation.

5. 석유제품 소비자 가격

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	
	원/리터(Won/ℓ)	원/리터(Won/ℓ)	원/리터(Won/ℓ)	원/kg(Won/kg)	일반용 ² Residential· Commercial ²	자동차용 ¹ Automobile ¹
					원/리터(Won/ℓ)	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
2022	1,812.8	1,473.9	1,842.9	2,478.1	2,854.7	1,081.8
2023	1,643.0	1,403.0	1,558.3	2,372.7	2,774.2	957.4

1. 주유소/충전소 판매가격

2. 일반용 프로판 및 부탄의 판매소 판매가격.

자료 : 한국석유공사

1. Salse price at gas and charging station.

2. Sales prices for general-purpose propane and butane.

Source : Korea National Oil Corporation.

6. 정제 능력

Refining Capacities

단위: 천 BPSD

Unit: Thousand BPSD

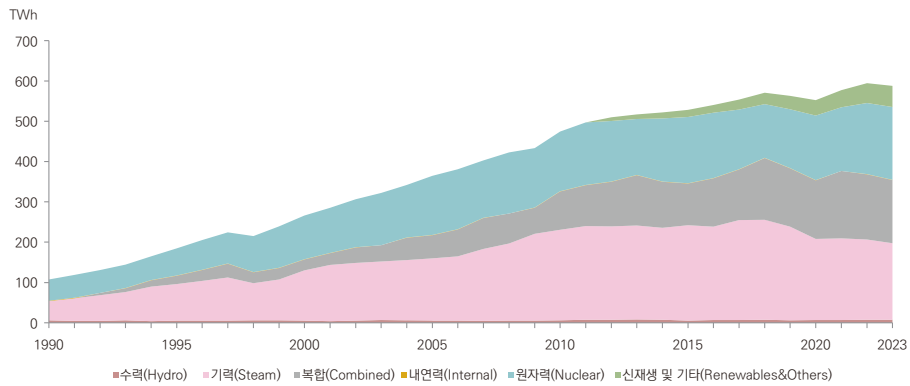
	합계	SK에너지	GS칼텍스	SK인천정유	현대오일뱅크	에스-오일
	Total	SK Energy	GS-Caltex	SK-Inchon	Hyundai Oilbank	S-Oil
1981	790	280	380	60	10	60
1982	790	280	380	60	10	60
1983	790	280	380	60	10	60
1984	790	280	380	60	10	60
1985	790	280	380	60	10	60
1986	790	280	380	60	10	60
1987	790	280	380	60	10	60
1988	790	280	380	60	10	60
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
2022	3,204	1,215	800	-	520	669
2023	3,204	1,215	800	-	520	669

자료: 대한석유협회

Source: Korea Petroleum Association

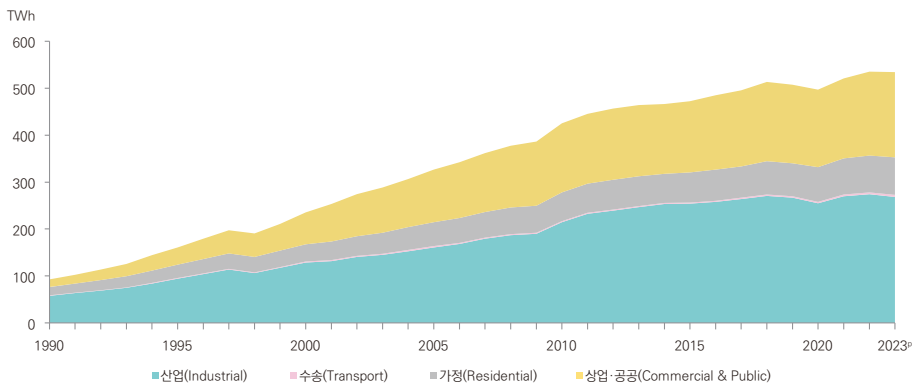
● 발전 설비별 발전량 Power Generation Amount by Generating Facility

〈1990~2023〉



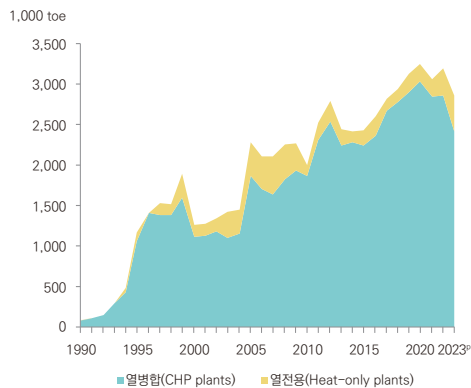
● 부문별 전력 소비 Electricity Consumption by Sector

〈1990~2023〉



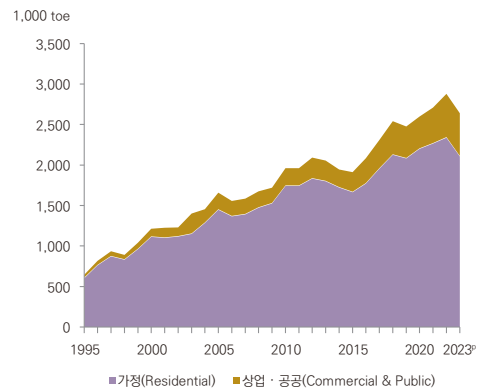
● 전환공정 내 열생산 Heat Production in the Transformation Processes

〈1990~2023〉



● 열 소비 Heat Consumption

〈1990~2023〉



1. 주요 전력 지표

	단 위 Unit	1961	1981	1985	1990	1995	2000	2005
발전설비	kW	426,287	11,029,344	17,639,982	24,055,893	35,355,785	53,684,913	67,075,240
한전, 자회사	kW	367,254	9,130,580	15,013,903	19,782,833	30,561,633	44,566,083	55,956,412
타사	kW	-	704,800	1,122,800	1,238,290	1,622,240	3,884,634	6,301,785
상용자가	kW	59,033	1,193,964	1,503,279	3,034,770	3,171,912	5,234,196	4,817,043
총발전량	MWh	1,936,418	44,088,303	62,667,201	118,460,795	203,546,465	290,442,948	389,479,512
한전, 자회사	MWh	1,772,921	37,428,005	56,179,998	103,184,998	179,073,203	256,841,584	349,758,383
타사	MWh	-	2,778,660	1,754,007	4,206,029	4,032,626	4,836,511	14,611,607
상용자가 ¹⁾	MWh	163,497	3,881,638	4,733,196	11,067,768	20,440,636	28,764,853	25,109,522
		-	-	-	-	(1,554,996)	(4,721,413)	(269,341)
소내 전력량	MWh	89,337	2,102,514	3,422,742	5,394,570	8,298,749	12,328,447	16,451,551
소내 전력률	%	5.04	5.23	5.91	5.02	4.53	4.71	4.56
양수용 전력량	MWh	-	153,950	676,358	2,272,202	3,668,783	2,117,789	1,980,383
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
송배전 손실량	MWh	494,198	2,252,746	3,176,183	5,619,450	9,422,999	11,871,191	15,614,768
송배전 손실율	%	29.35	6.66	5.89	5.62	5.46	4.71	4.51
판매 전력량	MWh	1,189,386	35,424,455	50,732,095	94,383,292	163,270,294	239,535,486	332,412,828
수요 성장율	%	-	8.2	7.8	14.8	11.4	11.8	6.5
최대전력	kW	305,686	6,144,194	9,348,942	17,251,683	29,878,000	41,007,164	54,631,000
평균전력	kW	202,388	48,589,802	6,621,847	12,291,040	21,080,003	30,327,813	41,625,494
부하율 ²⁾	%	66.2	74.7	70.8	71.2	70.6	74.0	76.2
이용율	%	55.1	46.7	43.5	58.4	66.3	62.2	67.5
판매단가	원/kWh	3.22	64.31	67.92	52.94	61.28	74.65	74.46
수용가수	호 수	797,252	5,682,341	6,931,167	9,315,211	12,771,338	14,975,793	17,329,494
인구1인당 전력생산량 ³⁾	kWh/명	69	1,038	1,422	2,516	4,117	5,635	7,550
		-	-	-	-	(4,538)	(6,144)	(8,065)
인구1인당 전력소비량	kWh/명	46	915	1,243	2,202	3,640	5,067	6,883

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

2010	2015	2020	2021	2022	2023	
79,983,793	101,590,229	133,655,412	139,443,392	143,842,138	150,037,431p	Generating Facilities
65,559,674	73,282,111	83,853,696	82,459,277	82,723,285	83,235,048	KEPCO & Subsidiaries
10,518,514	24,366,649	45,337,578	51,560,498	55,471,470	61,185,860	Other Co.
3,905,605	3,941,468	4,464,139	5,423,617	5,647,383	5,616,523p	Non-Utility for Common Use
495,028,363	547,801,803	577,111,901	607,767,903	622,585,130	617,490,666	Gross Generation
435,384,166	432,758,183	394,522,245	400,373,182	408,441,461	391,570,543	KEPCO & Subsidiaries
38,433,844	94,756,654	155,963,475	175,412,367	185,507,861	195,345,011	Other Co.
21,210,354	20,286,965	26,626,181	31,982,353	28,635,808	30,575,112	Non-Utility Generation for Common Use ¹
(842,196)	(576,355)	(1,676,440)	(1,023,939)	(451,043)	(1,130,949)	
19,371,717	23,782,283	21,135,360	21,254,113	22,081,218	20,976,475	Auxiliary Use
4.08	4.50	3.83	3.68	3.71	3.57	Aux. Use Factor
3,662,630	4,823,507	4,351,010	4,855,815	4,911,837	4,924,790	Pumping Storage
451,432,992	499,239,421	525,850,762	549,623,783	566,864,976	561,446,575	Net Generation
18,034,237	17,979,210	18,609,971	19,424,218	20,019,815	19,813,450	T & D Losses
3.99	3.60	3.54	3.53	3.53	3.53	Loss Factor(T & D)
434,160,228	483,654,816	509,269,715	533,430,811	547,932,742	545,965,955	Power Sold
10.1	1.3	-2.2	4.7	2.7	-0.4	Growth Rate
71,308,000	78,790,000	89,091,000	91,141,000	94,509,000	93,615,000	Peak Load
54,184,955	60,284,383	62,859,991	65,845,832	67,853,923	67,128,596	Average Load
76.0	76.5	70.6	72.2	71.8	71.7	Load Factor ²
73.3	61.7	48.7	49.1	49.1	46.5	Utilization Plant Factor
86.12	111.57	109.80	108.11	120.51	152.80	Average Revenues per kWh Sold
19,229,450	22,030,215	24,198,304	24,523,304	24,866,375	25,128,874	Customers
9,712	10,433	10,654	11,170	11,555	11,457	Generation per Capita ³
(10,129)	(10,778)	(11,135)	(11,770)	(12,143)	(12,031)	
8,883	9,555	9,826	10,330	10,652	10,637	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

	합 계 Total		수 력 Hydro		원 자 력 Nuclear		집 단 District Energy		대 체 Alternative Energy		기 타 ¹ Others ¹		화 력 Thermal	
		%		%		%		%		%		%		%
1981	9,835,380	100.0	1,201,730	12.2	587,000	6.0	-	-	-	-	-	-	8,046,650	81.8
1982	10,304,063	100.0	1,201,730	11.7	1,265,683	12.3	-	-	-	-	-	-	7,836,650	76.1
1983	13,115,263	100.0	1,201,730	9.2	1,915,683	14.6	-	-	-	-	-	-	9,997,850	76.2
1984	14,190,263	100.0	1,201,730	8.5	1,915,683	13.5	-	-	-	-	-	-	11,072,850	78.0
1985	16,136,703	100.0	2,223,170	13.8	2,865,683	17.8	-	-	-	-	-	-	11,047,850	68.5
1986	18,060,083	100.0	2,224,550	12.3	4,765,683	26.4	-	-	-	-	-	-	11,069,850	61.3
1987	19,020,503	100.0	2,232,270	11.7	5,715,683	30.1	-	-	-	-	-	-	11,072,550	58.2
1988	19,944,123	100.0	2,235,740	11.2	6,665,683	33.4	-	-	-	-	-	-	11,042,700	55.4
1989	20,997,043	100.0	2,338,660	11.1	7,615,683	36.3	-	-	-	-	-	-	11,042,700	52.6
1990	21,021,123	100.0	2,340,040	11.1	7,615,683	36.2	-	-	-	-	-	-	11,065,400	52.6
1991	21,110,623	100.0	2,444,540	11.6	7,615,683	36.1	-	-	-	-	-	-	11,050,400	52.3
1992	24,120,073	100.0	2,497,790	10.4	7,615,683	31.6	-	-	-	-	-	-	14,006,600	58.1
1993	27,653,693	100.0	2,503,710	9.1	7,615,683	27.5	-	-	-	-	-	-	17,534,300	63.4
1994	28,749,573	100.0	2,492,590	8.7	7,615,683	26.5	-	-	-	-	-	-	18,641,300	64.8
1995	32,183,873	100.0	3,093,390	9.6	8,615,683	26.8	-	-	-	-	-	-	20,474,800	63.6
1996	35,715,433	100.0	3,094,450	8.7	9,615,683	26.9	-	-	-	-	-	-	23,005,300	64.4
1997	41,041,778	100.0	3,114,595	7.6	10,315,683	25.1	-	-	-	-	-	-	27,611,500	67.3
1998	43,405,841	100.0	3,131,208	7.2	12,015,683	27.7	-	-	-	-	-	-	28,258,950	65.1
1999	46,977,697	100.0	3,147,564	6.7	13,715,683	29.2	-	-	-	-	-	-	30,114,450	64.1
2000	48,450,717	100.0	3,148,664	6.5	13,715,683	28.3	-	-	-	-	-	-	31,586,370	65.2
2001	50,858,647	100.0	3,875,764	7.6	13,715,683	27.0	-	-	-	-	-	-	33,267,200	65.4
2002	53,800,847	100.0	3,875,764	7.2	15,715,683	29.2	-	-	-	-	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	373,659	0.5	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	2,338,050	2.9	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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
2022	138,194,755	100.0	6,513,123	4.7	24,650,000	17.8	8,919,174	6.5	26,325,542	19.0	368,595	0.3	71,418,320	51.7
2023	143,380,908	100.0	6,516,996	4.5	24,650,000	17.2	9,821,006	6.8	29,578,511	20.6	370,935	0.3	72,443,460	50.5

1. 부생가스, 증류탑폐열, 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	-	-	920,000	9.4	314,350	3.2	1981
650,000	6.3	6,072,300	58.9	-	-	920,000	8.9	194,350	1.9	1982
2,110,000	16.1	6,772,300	51.6	-	-	920,000	7.0	195,550	1.5	1983
3,170,000	22.3	6,772,300	47.7	-	-	920,000	6.5	210,550	1.5	1984
3,700,000	22.9	6,212,300	38.5	-	-	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
36,868,658	26.7	-	-	1,400,000	1.0	33,012,852	23.9	136,810	0.1	2022
36,868,658	25.7	-	-	1,400,000	1.0	34,038,252	23.7	136,550	0.1	2023

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 발전량

단위: GWh

	합계		수력		원자력		집단		신재생		기타 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
2022	594,400	100.0	7,256	1.2	176,054	29.6	49,159	8.3	47,266	8.0	1,172	0.2
2023	588,047	100.0	7,500	1.3	180,494	30.7	47,959	8.2	50,456	8.6	1,173	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 Generating 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	1981
37,340	86.6	4,488	10.4	32,473	75.3	-	-	332	0.8	45	0.1	1982
37,162	76.1	6,799	13.9	30,098	61.6	-	-	214	0.4	42	0.1	1983
39,617	73.6	16,159	30.0	23,302	43.3	-	-	99	0.2	41	0.1	1984
37,603	64.8	20,027	34.5	17,384	30.0	-	-	58	0.1	61	0.1	1985
32,365	50.0	19,927	30.8	12,180	18.8	-	-	53	0.1	122	0.2	1986
29,334	39.6	17,221	23.3	2,235	3.0	9,471	12.8	66	0.1	171	0.2	1987
41,795	48.9	21,644	25.3	8,608	10.1	10,892	12.7	172	0.2	210	0.2	1988
42,549	45.0	21,147	22.4	10,918	11.6	9,689	10.3	221	0.2	253	0.3	1989
48,422	45.0	22,445	20.8	12,878	12.0	11,775	10.9	619	0.6	429	0.4	1990
57,257	48.3	23,221	19.6	19,741	16.6	12,427	10.5	785	0.7	472	0.4	1991
69,570	53.1	25,466	19.4	22,572	17.2	14,077	10.7	5,464	4.2	574	0.4	1992
80,293	55.6	34,490	23.9	24,688	17.1	9,738	6.7	9,188	6.4	640	0.4	1993
102,244	62.0	45,126	27.4	36,812	22.3	1,869	1.1	16,047	9.7	789	0.5	1994
112,154	60.7	51,565	27.9	28,739	15.6	8,948	4.8	20,521	11.1	825	0.4	1995
126,369	61.5	59,650	29.0	29,067	14.1	8,229	4.0	26,943	13.1	772	0.4	1996
141,955	63.2	69,729	31.1	27,408	12.2	7,661	3.4	34,424	15.3	718	0.3	1997
119,512	55.5	77,662	36.1	9,943	4.6	1,437	0.7	26,505	12.3	575	0.3	1998
130,195	54.4	83,604	34.9	11,524	4.8	1,345	0.6	28,675	12.0	382	0.2	1999
151,826	57.0	99,427	37.3	18,888	7.1	1,632	0.6	26,863	10.1	294	0.1	2000
168,940	59.2	112,257	39.4	21,622	7.6	1,557	0.5	29,033	10.2	325	0.1	2001
182,060	59.4	119,665	39.0	17,493	5.7	1,771	0.6	38,337	12.5	353	0.1	2002
185,893	57.6	121,931	37.8	16,664	5.2	1,674	0.5	40,375	12.5	370	0.1	2003
201,669	58.9	128,547	37.6	16,084	4.7	733	0.2	55,452	16.2	407	0.1	2004
209,509	57.5	134,892	37.0	15,529	4.3	786	0.2	57,457	15.8	575	0.2	2005
224,105	58.8	140,346	36.8	14,307	3.8	1,258	0.3	67,138	17.6	677	0.2	2006
251,229	62.3	155,685	38.6	15,703	3.9	2,028	0.5	76,405	19.0	578	0.1	2007
259,407	61.4	174,156	41.2	7,982	1.9	1,518	0.4	74,519	17.6	503	0.1	2008
272,574	62.9	193,803	44.7	11,970	2.8	762	0.2	64,486	14.9	697	0.2	2009
307,034	64.7	198,287	41.8	10,874	2.3	2,288	0.5	94,012	19.8	731	0.2	2010
314,318	63.3	199,516	40.2	9,456	1.9	2,233	0.4	101,479	20.4	821	0.2	2011
330,064	64.8	199,330	39.1	13,553	2.7	3,453	0.7	110,882	21.8	752	0.1	2012
345,407	66.8	201,119	38.9	13,941	2.7	3,526	0.7	124,400	24.1	741	0.1	2013
324,101	62.1	203,765	39.0	6,838	1.3	568	0.1	111,711	21.4	656	0.1	2014
318,196	60.3	207,334	39.3	8,822	1.7	222	0.0	100,598	19.0	643	0.1	2015
320,339	59.3	209,200	38.7	13,055	2.4	369	0.1	96,922	17.9	573	0.1	2016
337,768	61.0	231,887	41.9	5,225	0.9	220	0.0	99,619	18.0	513	0.1	2017
355,661	62.3	231,653	40.6	5,845	1.0	-	-	116,836	20.5	528	0.1	2018
332,933	59.1	219,076	38.9	1,842	0.3	0	0.0	110,289	19.6	579	0.1	2019
303,266	54.9	187,335	33.9	1,504	0.3	587	0.1	111,759	20.2	405	0.1	2020
323,448	56.1	188,905	32.7	1,494	0.3	1,177	0.2	130,358	22.6	491	0.1	2021
313,494	52.7	186,748	31.4	352	0.1	1,377	0.2	123,996	20.9	570	0.1	2022
300,465	51.1	179,264	30.5	-	-	878	0.1	118,801	20.2	390	0.1	2023

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

	합 계		수 력 ¹		원 자 력		집 단 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
2022	594,400	100.0	7,256	1.2	176,054	29.6	-	-	49,640	8.4	2,678	0.5
2023	588,047	100.0	7,500	1.3	180,494	30.7	-	-	52,846	9.0	3,044	0.5

1. 신재생: 수력 발전량 불포함, 혼소발전량 분리

2. 2014년 부터 집단은 에너지원별 발전량 분류

3. 부생가스, 증류탑폐열, 여열회수, 천연가스압터빈

자료: 한국전력공사

4. Power Generation by Energy Source

Unit: GWh

화력 Thermal								
소계 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
358,772	60.4	193,231	32.5	1,966	0.3	163,575	27.5	2022
344,163	58.5	184,927	31.4	1,487	0.3	157,749	26.8	2023

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: Korea Electric Power Corporation

5. 발전 연료 소비량

	합 계		석 탄 Coal					
	Total		소 계 Subtotal			무 연 탄 Anthracite		
			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
2022	91,566	100.0	66,087,039	36,352	39.7	884,962	458	0.5
2023	87,422	100.0	60,292,477	33,161	37.9	913,726	473	0.5

자료: 한국전력공사

5. Fuel Consumption for Generation

석탄 Coal			석유제품 Petroleum Products						
유연탄 Bituminous Coal			소계 Subtotal			B.C 유 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	497,709	474	0.5	290,828	290	0.3	2021
65,202,077	35,893	39.2	374,600	346	0.4	113,554	113	0.1	2022
59,378,751	32,688	37.4	294,371	264	0.3	14,835	15	0.0	2023

Source: Korea Electric Power Corporation

5. 발전 연료 소비량(계속)

	석유제품 Petroleum Products								
	기타 중유 Others			경유 Diesel oil			납사 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	0.0
1983	599,530	592	5.1	106,783	97	0.8	2,098 ¹	2	0.0
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	0.0
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	-	-	-
2022	-	-	-	261,046	233	0.3	-	-	-
2023	-	-	-	279,536	249	0.3	-	-	-

주 : 원자력, 수력은 발전량 기준임

자료 : 한국전력공사

5. Fuel Consumption for Generation(Continued)

액화천연가스 LNG			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
12,203,303	15,824	17.3	37,500	41.0	1,546	1.7	2022
10,761,227	13,954	16.0	38,445	44.0	1,598	1.8	2023

Note : Nuclear and Hydro are based on generation
Source: Korea Electric Power Corporation

6. 화력 발전소 열효율

단위: %

	합계 Total		한전, 자회사 Total of KEPCO & Subsidiaries		기 력 Thermal					
	발 전 단 Gross	송 전 단 Net	발 전 단 Gross	송 전 단 Net	소계 Subtotal		무연탄 Anthracite		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
1981	36.39	34.41	36.39	34.44	36.40	34.35	31.00	-	-	-
1982	36.73	34.85	36.73	34.88	36.74	34.89	31.22	-	-	-
1983	36.96	38.94	36.98	34.99	37.01	35.02	32.07	-	36.83	-
1984	37.07	35.00	37.08	35.02	37.11	35.05	32.38	-	38.08	-
1985	36.98	34.85	37.00	34.87	37.02	34.90	32.00	-	37.63	-
1986	36.80	34.66	36.80	34.67	36.82	34.69	31.72	-	37.67	-
1987	36.26	34.11	36.26	34.12	36.28	34.14	31.83	-	37.69	-
1988	36.68	34.62	36.67	34.63	36.70	34.65	31.63	-	37.93	-
1989	36.80	34.73	36.81	34.75	36.84	34.76	31.61	-	38.17	-
1990	36.99	34.95	37.02	34.98	37.07	35.01	32.19	-	38.22	-
1991	36.93	34.92	36.95	34.95	36.97	34.94	32.05	-	38.26	-
1992	36.73	34.86	36.74	34.86	36.93	34.94	31.92	-	38.15	-
1993	37.34	35.47	37.35	35.48	37.11	35.11	31.98	-	38.19	-
1994	38.16	36.42	38.20	36.46	37.52	35.63	32.02	-	38.61	-
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	35.55	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
2022	41.32	39.41	40.58	38.61	38.93	36.72	34.56	30.98	39.02	36.83
2023	41.36	39.50	40.31	38.35	38.71	36.54	34.14	30.59	38.80	36.64

주 : 1987년부터 지역난방 열공급실적 포함

자료: 한국전력공사

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
36.32	33.94	35.68	34.40	46.76	45.70	39.17	36.89	50.99	49.88	2022
0.00	0.00	35.39	34.06	46.48	45.40	37.21	34.95	49.45	48.36	2023

Note : Including decreased power due to heat supply to district heat plants from 1987

Source: Korea Electric Power Corporation

7. 송배전 손실

	송전단전력량(A) Net Generation	송 변 전 손 실 Transmission & Substation Loss		배 전 Distribution
		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
2022	566,864,976	8,914,502	1.57	11,105,313
2023	561,446,575	8,827,380	1.57	10,986,071

주 : 송전단은 양수전력량 제외분임

자료 : 한국전력공사

7. Transmission and Distribution Loss

손실 Losses	판매량(D) Power Sold	총 손실 Total Loss		
손실율(C/(A-B)) Loss rate		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
1.99	546,845,160	20,019,815	3.53	2022
1.99	541,633,125	19,813,450	3.53	2023

Note : Except net generation in pumping storage power
Source: Korea Electric Power Corporation

8. 산업분류별 전력 소비량

단위: GWh

		1981		1990		2000		2010		2019	
			%		%		%		%		%
합계	Total	35,424	100.0	94,383	100.0	239,535	100.0	434,160	100.0	520,499	100.0
가정용	Residential	5,934	16.8	17,735	18.8	37,102	15.5	61,194	14.1	70,455	13.5
공공용	Public	1,310	3.7	3,291	3.5	8,663	3.6	19,872	4.6	24,458	4.7
서비스	Service	3,422	9.7	13,097	13.9	59,473	24.8	127,732	29.4	142,907	27.5
전기사업자	Electricity	43	0.1	96	0.1	296	0.1	2,227	0.5	2,257	0.4
수도	Water	1,280	3.6	2,589	2.7	4,526	1.9	4,886	1.1	5,445	1.0
상가 및 기타	Commercial & Others	2,099	5.9	10,412	11.0	54,651	22.8	120,619	26.5	135,205	26.0
수송(전철)	Transport (Electric Railway)	462	1.3	1,012	1.1	2,037	0.9	2,191	0.5	2,909	0.6
산업	Industry	24,296	68.6	59,248	62.8	132,260	55.2	223,171	49.0	279,769	53.8
농림어업	Agri.-Fishery	255	0.7	1,458	1.5	5,306	2.2	10,042	2.3	17,305	3.3
광업	Mining	715	2.0	1,011	1.1	1,003	0.4	1,683	0.4	1,493	0.3
제조업	Total Manuf.	23,325	65.8	56,779	60.2	125,952	52.6	211,447	48.7	260,972	50.1
식료품	Food, beverage	1,532	4.3	3,540	3.8	6,149	2.6	8,737	2.0	12,232	2.4
섬유·의복	Textile, clothes	4,854	13.7	9,505	10.1	15,497	6.5	12,362	2.9	9,936	1.9
목재·나무	Lumber, wood	347	1.0	623	0.7	1,137	0.5	1,754	0.4	1,735	0.3
펄프·인쇄	Pulp, printing	1,590	4.5	3,877	4.1	8,843	3.7	10,019	2.3	9,421	1.8
석유·화학	Petroleum, chemistry	4,518	12.8	10,922	11.6	26,899	11.2	43,213	10.0	62,371	12.0
요업	Ceramic industry	2,642	7.5	5,633	6.0	8,981	3.8	11,620	2.7	11,724	2.3
1차금속	Basic Metal	4,945	14.0	10,064	10.7	23,751	9.9	41,834	9.6	42,001	8.1
기계·장비	Machinery Equipment	2,666	7.5	12,091	12.8	32,997	13.8	79,490	18.3	106,695	20.5
기타	Others	231	0.7	525	0.6	1,697	0.7	2,418	0.6	4,858	0.9

자료: 한국전력공사

8. Electricity Consumption by Industry

Unit: GWh

		2020		2021		2022		2023	
			%		%		%		%
합계	Total	509,270	100.0	533,431	100.0	547,933	100.0	545,966	100.0
가정용	Residential	74,074	14.5	77,558	14.5	78,558	14.4	79,886	14.6
공공용	Public	23,623	4.6	25,026	4.7	26,218	4.8	26,604	4.9
서비스업 및 기타	Service	144,444	28.4	148,182	27.8	155,220	28.4	157,771	28.9
산업	Industry	267,129	52.5	282,665	53.0	287,937	52.7	281,705	51.6
농림어업	Agri.-Fishery	17,037	3.3	18,496	3.5	19,285	3.5	18,777	3.4
광업	Mining	1,552	0.3	1,807	0.3	1,759	0.3	1,709	0.3
제조업	Total Manuf.	248,540	48.8	262,362	49.2	266,893	48.9	261,218	47.8
식료품	Food	11,534	2.3	12,114	2.3	12,422	2.3	12,479	2.3
음료	Beverages	1,167	0.2	1,229	0.2	1,284	0.2	1,308	0.2
담배	Tobacco	201	0.0	194	0.0	202	0.0	209	0.0
섬유제품	Textiles, except apparel	7,654	1.5	8,166	1.5	7,797	1.4	6,854	1.3
의복, 액세서리, 모피제품	Wearing apparel, clothing accessories and fur articles	583	0.1	594	0.1	596	0.1	565	0.1
가죽, 가방, 신발	Leather, luggage and footwear	459	0.1	472	0.1	465	0.1	431	0.1
목재, 나무제품	Wood and of products of wood	1,703	0.3	1,761	0.3	1,754	0.3	1,648	0.3
펄프, 종이, 종이제품	Pulp, paper	7,853	1.5	8,010	1.5	8,010	1.5	7,691	1.4
인쇄, 기록매체	Printing and reproduction of recorded media	1,188	0.2	1,204	0.2	1,185	0.2	1,142	0.2
코크스, 연탄, 석유정제품	Coke, briquettes and refined petroleum products	12,550	2.5	13,281	2.5	14,038	2.6	13,420	2.5
화학물질, 화학제품	Chemicals and chemical products	38,342	7.5	41,256	7.7	40,984	7.5	41,210	7.5
의료용 물질, 의약품	Pharmaceuticals, medicinal chemical	2,499	0.5	2,676	0.5	2,957	0.5	3,168	0.6
고무제품, 플라스틱제품	Rubber and plastics products	8,679	1.7	9,473	1.8	9,480	1.7	9,013	1.7
비금속 광물제품	Other non-metallic mineral products	11,154	2.2	11,700	2.2	11,798	2.2	11,438	2.1
1차 금속	Basic metal	36,343	7.1	35,044	6.6	35,044	6.4	32,875	6.0
금속가공제품	Fabricated metal	8,409	1.7	8,764	1.6	8,659	1.6	8,469	1.6
전자, 영상, 음향, 컴퓨터, 통신장비	Electronic components, computer	53,311	10.5	57,788	10.8	60,192	11.0	58,359	10.7
의료, 정밀, 광학, 시계	Medical, precision and optical	3,843	0.8	4,144	0.8	4,090	0.7	3,877	0.7
전기장비	Electrical equipment	6,902	1.4	7,710	1.4	8,219	1.5	8,701	1.6
기타기계, 장비	Other machinery	10,169	2.0	11,131	2.1	11,391	2.1	11,300	2.1
자동차, 트레일러	Motor vehicles, trailers	16,489	3.2	17,983	3.4	18,517	3.4	18,984	3.5
기타 운송장비	Other transport equipment	4,170	0.8	4,103	0.8	4,226	0.8	4,661	0.9
가구	Furniture	673	0.1	702	0.1	699	0.1	672	0.1
기타 제품	Other manufacturing	2,589	0.5	2,781	0.5	2,803	0.5	2,668	0.5
산업기계, 장비수리	Maintenance and repair services	76	0.0	79	0.0	80	0.0	78	0.0

Source: Korea Electric Power Corporation

9. 종별 고객호수 및 판매 전력량

	주택용 Residential	일반용 Public & Service	교육용 Educational	산업용 Industrial	농사용 Agricultural	가로등 Street lighting	심야 Midnight	합계 Total
	호(Customer)							
2001	11,354,801	1,971,308	15,662	288,252	916,424	523,041	549,257	15,618,745
2002	11,800,049	2,097,012	15,898	301,411	1,097,075	551,238	627,343	16,490,026
2003	12,039,941	2,187,470	15,946	304,227	987,177	576,513	664,252	16,775,526
2004	12,156,544	2,259,099	16,063	306,175	1,015,001	612,218	696,491	17,061,591
2005	12,224,192	2,315,511	16,410	310,079	1,045,890	660,624	756,788	17,329,494
2006	12,280,190	2,366,333	30,745	315,743	1,087,426	712,278	832,121	17,624,836
2007	12,392,777	2,451,135	32,649	322,894	1,142,769	821,139	875,447	18,038,810
2008	12,553,340	2,503,422	33,703	329,458	1,195,544	883,533	920,048	18,419,048
2009	12,682,652	2,552,298	33,907	337,683	1,200,032	985,102	935,737	18,727,411
2010	12,904,238	2,632,860	34,376	348,096	1,260,276	1,117,657	931,947	19,229,450
2011	13,181,372	2,710,906	34,625	358,220	1,335,748	1,271,913	922,082	19,814,866
2012	13,514,464	2,817,597	34,788	367,888	1,432,599	1,398,414	910,149	20,475,899
2013	13,822,791	2,893,935	19,912	377,411	1,495,113	1,511,494	897,037	21,017,693
2014	14,117,408	2,954,628	20,217	387,533	1,565,503	1,604,510	882,470	21,532,269
2015	14,419,050	3,016,678	20,489	396,862	1,638,132	1,672,745	866,259	22,030,215
2016	14,728,391	3,088,632	20,663	405,771	1,710,781	1,751,669	846,812	22,552,719
2017	15,085,547	3,115,221	20,972	413,877	1,784,191	1,830,973	826,242	23,077,023
2018	15,317,045	3,173,093	20,992	420,999	1,849,453	1,918,848	801,112	23,501,542
2019	15,487,494	3,231,261	21,057	425,249	1,907,398	2,010,103	777,470	23,860,032
2020	15,609,631	3,278,071	20,996	429,973	1,977,365	2,130,215	752,053	24,198,304
2021	15,728,358	3,358,143	20,971	434,174	2,051,417	2,206,425	723,816	24,523,304
2022	15,811,248	3,478,752	20,833	437,670	2,122,728	2,293,016	702,128	24,866,375
2023	15,900,516	3,555,485	20,780	439,483	2,159,915	2,372,604	680,091	25,128,874

자료: 한국전력공사

9. Electricity Sold and Customers by Tariff

주택용 Residential	일반용 Public & Service	교육용 Educational	산업용 Industrial	농사용 Agricultural	가로등 Street lighting	심야 Midnight	합계 Total	
MWh								
40,269,734	52,622,435	2,639,687	142,160,215	6,142,090	1,877,624	12,019,568	257,731,354	2001
43,452,142	57,428,012	2,953,566	151,196,192	6,328,169	2,075,944	15,017,346	278,451,372	2002
46,505,348	61,626,421	3,351,320	157,844,517	6,147,364	2,197,210	15,927,049	293,599,230	2003
49,513,298	67,475,970	3,773,549	166,222,983	6,766,324	2,367,077	15,976,384	312,095,586	2004
52,044,462	73,715,517	4,308,748	174,945,373	7,317,815	2,570,006	17,510,908	332,412,828	2005
53,912,272	77,809,152	4,790,496	183,067,127	7,635,660	2,687,040	18,817,624	348,719,371	2006
55,680,846	82,207,586	5,304,104	194,936,409	8,215,174	2,793,943	19,467,371	368,605,433	2007
57,877,514	86,827,003	5,783,324	203,474,609	8,869,459	2,847,241	19,390,987	385,070,137	2008
59,427,255	89,619,316	6,465,449	207,215,867	9,671,357	2,954,231	19,121,163	394,474,637	2009
63,199,602	97,410,032	7,452,576	232,672,176	10,654,295	3,081,490	19,690,056	434,160,228	2010
63,523,655	99,504,065	7,568,016	251,490,648	11,231,538	3,145,498	18,606,840	455,070,261	2011
65,483,733	101,592,760	7,860,449	258,101,933	12,776,045	3,158,091	17,619,937	466,592,949	2012
65,814,572	102,196,338	7,947,317	265,372,531	13,865,837	3,156,226	16,495,759	474,848,580	2013
64,457,263	100,760,879	7,438,374	272,551,573	14,504,731	3,221,008	14,657,873	477,591,701	2014
65,618,610	103,679,346	7,690,600	273,547,997	15,702,468	3,341,240	14,074,556	483,654,816	2015
68,056,786	108,616,888	8,079,392	278,827,855	16,579,843	3,462,314	13,415,826	497,038,904	2016
68,543,760	111,297,776	8,316,290	285,969,563	17,250,850	3,556,775	12,811,372	507,746,386	2017
72,894,709	116,933,912	8,677,808	292,998,663	18,503,827	3,582,649	12,557,594	526,149,162	2018
72,638,868	116,226,510	8,560,660	289,240,198	18,882,368	3,571,475	11,378,658	520,498,738	2019
76,303,405	113,638,542	7,515,352	278,660,247	19,028,829	3,506,999	10,616,342	509,269,715	2020
79,914,811	119,550,386	8,422,605	291,333,422	20,603,212	3,444,429	10,161,945	533,430,811	2021
80,996,133	127,192,892	9,073,974	296,035,508	21,420,090	3,424,194	9,789,953	547,932,742	2022
80,348,423	130,843,830	9,231,947	290,555,371	20,762,855	3,398,721	8,824,809	545,965,955	2023

Source: Korea Electricity Power Corporation

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
2022	24,866,375	3,750,590	1,293,428	929,132	1,046,654	564,128	598,108	473,960	4,760,852	1,161,285
2023	25,128,874	3,775,479	1,294,733	969,014	1,054,864	566,655	601,677	476,777	4,805,643	1,179,498

1. 1981~1982 인천은 경기, 대구는 경북에 포함

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

1981~1999 울산은 경남에 포함

자료: 한국전력공사

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
1,152,014	1,511,149	1,300,586	1,557,714	2,162,676	1,979,070	519,422	105,607	-	2022
1,167,602	1,533,577	1,322,957	1,581,050	2,162,309	1,996,029	534,010	107,000	-	2023

1. Until 1982, 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: Korea Electric Power Corporation

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
2022	547,932,742	48,788,677	21,493,648	16,039,260	25,506,864	9,116,871	10,016,877	32,919,181	140,531,012	17,325,520
2023	545,965,955	49,218,956	21,555,665	16,288,850	25,875,669	9,083,242	9,922,139	31,826,127	140,312,047	17,114,657

1. 1981~1982 인천은 경기, 대구는 경북에 포함
 1981~1986 광주는 전남, 1981~1988 대전은 충남에 포함
 1981~1999 울산은 경남에 포함
 자료: 한국전력공사

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
29,412,227	50,259,638	21,838,474	34,665,105	44,601,033	36,190,920	6,045,356	3,182,079	-	2022
29,450,797	49,626,734	21,443,448	33,984,866	43,897,600	36,351,796	6,077,863	3,935,500	-	2023

1. Until 1982, 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: Korea Electric Power Corporation

12. 종별 판매단가 및 판매수입

	판 매 단 가 Average Revenues per kWh							
	주택용 Residential ¹	일반용 Public & Commercial	교육용 Educational ²	산업용 Industrial	농사용 Agricultural	가로등 Street lighting	심야 Mid-night	평 균 Average
	KRW/kWh							
2001	111.71	107.99	92.74	61.56	43.51	68.14	24.06	77.06
2002	110.31	104.42	90.78	60.08	43.16	66.22	26.03	75.21
2003	107.96	100.59	90.24	60.30	43.45	65.75	29.72	74.68
2004	110.41	96.85	89.05	60.23	41.95	65.33	30.61	74.58
2005	110.82	95.24	89.00	60.25	41.67	65.65	32.39	74.46
2006	114.33	97.91	77.48	61.92	42.96	68.61	34.60	76.43
2007	114.31	97.68	77.20	64.56	42.45	71.47	38.93	77.85
2008	114.97	95.30	78.58	66.24	42.38	72.50	45.69	78.76
2009	114.45	98.50	83.56	73.69	42.13	76.65	47.16	83.59
2010	119.85	98.93	87.23	76.63	42.54	81.13	50.49	86.12
2011	119.99	101.69	94.18	81.23	42.72	87.18	54.35	89.32
2012	123.69	112.50	108.84	92.83	42.90	98.89	58.65	99.10
2013	127.02	121.98	115.99	100.70	45.51	107.33	63.52	106.33
2014	125.14	129.75	114.15	106.83	47.31	113.39	67.33	111.28
2015	123.69	130.46	113.22	107.41	47.31	113.37	67.22	111.57
2016	121.52	130.41	111.51	107.11	47.41	113.35	67.56	111.23
2017	108.50	130.42	103.07	107.41	47.57	113.48	67.48	109.53
2018	106.87	129.97	104.12	106.46	47.43	113.76	67.59	108.75
2019	104.95	130.33	103.85	106.56	47.74	113.91	67.38	108.66
2020	107.89	131.60	103.99	107.35	48.45	114.35	67.03	109.80
2021	109.16	128.47	101.69	105.48	45.95	112.97	65.66	108.11
2022	121.32	139.10	111.53	118.66	56.89	124.53	74.26	120.51
2023	149.75	169.46	138.83	153.71	75.10	152.70	101.85	152.80

자료: 한국전력공사

12. Average Prices per kWh and Total Revenues by Tariff

판 매 수 입 Revenues from sales								
주택용	일반용	교육용	산업용	농사용	가로등	심야	평 균	
Residential	Public & Commercial	Educational	Industrial	Agricultural	Street lighting	Mid-night	Average	
KRW/kWh								
4,498,641,441	5,682,562,611	244,808,358	8,750,975,777	267,219,697	127,940,937	289,236,462	19,861,385,283	2001
4,793,300,235	5,996,351,593	268,118,671	9,084,046,914	273,119,653	137,459,416	390,930,589	20,943,327,071	2002
5,020,911,856	6,198,741,052	302,414,533	9,518,540,970	267,090,280	144,463,055	473,414,752	21,925,576,497	2003
5,466,721,140	6,535,016,625	336,037,327	10,011,334,566	283,879,821	154,649,377	489,014,415	23,276,653,272	2004
5,767,493,514	7,020,625,358	383,467,897	10,540,234,952	304,919,304	168,727,452	567,168,867	24,752,637,345	2005
6,163,640,653	7,618,539,340	371,156,624	11,335,905,205	327,995,997	184,370,077	651,095,341	26,652,703,238	2006
6,365,005,846	8,030,374,517	409,465,882	12,584,835,586	348,729,286	199,695,515	757,883,324	28,695,989,957	2007
6,654,217,289	8,274,672,801	454,427,465	13,477,191,102	375,930,913	206,418,500	885,900,130	30,328,758,201	2008
6,801,453,931	8,827,082,130	540,273,405	15,270,616,921	407,448,194	226,430,707	901,714,120	32,975,019,408	2009
7,574,768,788	9,637,137,528	650,061,294	17,830,665,027	453,201,035	250,009,506	994,227,831	37,390,071,008	2010
7,621,964,092	10,118,763,673	712,750,750	20,428,280,261	479,851,320	274,238,526	1,011,202,798	40,647,051,421	2011
8,099,666,224	11,428,849,503	855,546,883	23,959,881,861	548,102,427	312,298,567	1,033,474,501	46,237,819,965	2012
8,359,482,143	12,466,201,558	921,824,186	26,723,313,244	630,970,913	338,753,964	1,047,827,078	50,488,373,086	2013
8,066,376,737	13,073,321,416	849,078,687	29,116,998,686	686,214,233	365,234,262	986,847,399	53,144,071,420	2014
8,116,164,990	13,526,415,520	870,691,773	29,382,565,885	742,907,237	378,803,714	946,136,976	53,963,686,067	2015
8,270,443,259	14,164,678,060	900,914,372	29,866,595,242	786,031,602	392,456,597	906,403,930	55,287,523,060	2016
7,437,258,827	14,515,430,182	857,124,037	30,715,446,368	820,634,504	403,630,974	864,485,918	55,614,010,810	2017
7,790,409,259	15,198,335,856	903,498,217	31,191,485,295	877,588,497	407,555,748	848,713,533	57,217,586,406	2018
7,623,684,703	15,147,479,418	889,053,067	30,821,348,917	901,438,826	406,828,844	766,666,517	56,556,500,292	2019
8,232,506,704	14,955,272,361	781,516,149	29,914,726,353	921,881,230	401,011,598	711,663,815	55,918,578,210	2020
8,723,165,593	15,358,188,585	856,494,476	30,730,573,149	946,732,375	389,133,677	667,199,674	57,671,487,528	2021
9,826,366,412	17,692,429,103	1,012,042,827	35,127,215,030	1,218,629,359	426,407,864	726,993,690	66,030,084,285	2022
12,332,006,320	22,172,939,544	1,281,676,366	44,661,860,463	1,559,251,607	518,974,903	898,784,213	83,425,493,417	2023

Source: Korea Electric Power Corporation

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. KRW)	(KRW/kWh)	(GWh)	(Bil. KRW)	(KRW/Wh)	(GWh)	(Bil. KRW)	(KRW/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
2022	550,832	88,670	160.97	20,679	4,188	202.54	571,512	92,858	162.48
2023	543,973	78,289	143.92	22,100	3,781	171.08	566,073	82,070	144.98

자료: 한국전력공사

Source: Korea Electric Power Corporation

13-1. 2023 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	기타 ¹ Other ¹
구입량 Volume (GWh)	543,973	171,461	177,021	1,679	643	153,326	30,645	2,982	3,773	2,443
구입액 Payment (Bil. KRW)	78,289	9,447	25,002	282	236	33,004	5,339	503	910	3,567
단 가 Unit cost (KRW/kWh)	143.92	55.10	141.24	168.19	367.41	215.25	174.23	168.51	241.15	160.04

1. RPS 이행비용, 수요관리(DR) 포함
자료: 한국전력공사1. Including implementation costs for RPS and Demand Response(DR) integration
Source: Korea Electric Power Corporation

13-2. 2023 전력구입실적(PPA 사업자 구입)

Purchase Results from Power Purchase Agreement

	합계 Total	복합화력 Combined Cycle		신재생 Renewables							기타 Others		
		CGN	소 계 Subtotal	소수력 Small hydro	풍력 Wind	바이오 Bio	연료전지 Fuel cell	태양광에너지 Solar energy	해양에너지 Ocean energy	소 계 Subtotal	구역전기 Community energy service	폐기물 Waste	소 계 Subtotal
구입량 Volume (GWh)	22,100	2,236	2,236	15	0	34	38	19,602	0	19,689	169	6	175
구입액 Payment (Bil. KRW)	3,781	565	565	2,265	4	5,138	5,743	3,176,579	4	3,189,732	25,453	962	26,415
단가 Unit cost (KRW/kWh)	171.08	252.57	252.57	151.11	146.01	150.28	152.16	162.05	149.84	162.00	151.04	153.59	151.13

자료: 한국전력공사

Source: Korea Electric Power Corporation

14. 발전원별 전력구입량

Power Trading Results by Energy Source

	합 계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	유류 Oil	LNG/ 복합 LNG/ Combine	신재생 Renewable	수 력 Hydro	양 수 Pumping	RPS 이행비용 RPS compliance costs	수요관리 (DR) Demand response	기 타 Other
	GWh											
2011	462,357	147,763	185,778	7,777	9,474	96,114	7,930	4,123	3,214	-	-	184
2012	471,800	143,548	184,604	8,020	14,417	105,285	8,755	3,348	3,634	-	-	189
2013	479,287	132,396	186,886	6,462	14,684	119,947	11,081	3,558	4,086	-	-	186
2014	490,018	149,056	189,330	7,746	7,560	114,864	15,030	2,070	5,037	-	-	197
2015	495,114	157,106	194,176	6,778	9,391	106,447	15,803	1,510	3,639	-	-	264
2016	508,879	154,175	199,505	7,071	13,262	111,710	17,031	2,140	3,617	-	-	368
2017	520,230	141,098	224,834	4,014	5,735	117,540	20,028	2,255	4,171	-	-	555
2018	536,287	126,883	226,585	2,420	6,834	144,039	22,165	2,763	3,892	-	-	709
2019	529,075	138,607	215,012	2,331	4,011	138,655	22,575	2,193	3,444	-	-	2,247
2020	515,203	152,328	185,179	1,876	2,184	140,866	20,202	3,156	3,257	-	-	6,156
2021	535,985	150,163	186,813	1,654	2,110	163,079	23,368	2,349	3,667	-	-	2,785
2022	550,832	167,346	184,048	1,675	1,337	159,461	28,361	2,923	3,702	-	-	1,981
2023	543,973	171,461	184,048	177,021	643	153,326	30,645	2,982	3,773	-	-	2,443

자료: 한국전력공사

Source: Korea Electric Power Corporation

15. 발전원별 전력구입금액

Power Purchasing Amounts by Energy Source

	합 계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	유류 Oil	LNG/ 복합 LNG/ Combine	신재생 Renewable	수 력 Hydro	양 수 Pumping	RPS 이행비용 RPS compliance costs	수요관리 (DR) Demand response	기 타 Other
	Bil. KRW											
2011	36,844	5,793	12,488	767	2,144	13,695	806	562	567	-	-	23
2012	42,613	5,686	12,246	833	3,650	17,714	1,039	606	810	-	-	30
2013	42,069	5,179	10,972	595	3,253	19,297	1,303	608	835	-	-	28
2014	43,917	8,192	12,419	706	1,671	18,497	1,735	333	866	-	-	28
2015	40,951	9,836	13,270	731	1,408	13,445	1,572	179	483	-	-	27
2016	40,514	10,489	14,732	626	1,462	11,102	1,502	186	385	-	-	29
2017	43,343	8,573	17,755	385	949	13,163	1,803	219	450	-	-	46
2018	48,631	7,889	18,793	258	1,185	17,485	2,161	302	490	-	-	68
2019	47,685	8,094	18,808	240	918	16,518	2,242	236	419	-	-	211
2020	41,567	9,093	15,209	153	422	13,918	1,610	258	368	-	-	536
2021	55,295	8,451	19,001	172	460	19,955	2,498	253	515	-	-	265
2022	88,670	8,799	29,076	340	406	38,254	5,771	616	1,029	3,751	240	389
2023	78,289	9,447	25,002	282	236	33,004	5,339	503	910	2,938	238	391

자료: 한국전력공사

Source: Korea Electric Power Corporation

16. 발전원별 전력구입단가

Power Purchasing Unit Cost by Energy Source

	합 계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	유류 Oil	LNG/ 복합 LNG/ Combine	신재생 Renewable	수 력 Hydro	양 수 Pumping	RPS 이행비용 RPS compliance costs	수요관리 (DR) Demand response	기 타 Other
	KRW/kWh											
2011	79.69	39.20	67.22	98.64	226.27	142.48	101.66	136.19	176.43	-	-	126.25
2012	90.32	39.61	66.34	103.88	253.20	168.25	118.66	180.95	222.90	-	-	156.00
2013	87.77	39.12	58.71	91.73	221.50	160.88	120.09	170.92	204.42	-	-	150.28
2014	89.62	54.96	65.59	91.18	220.97	161.03	117.08	160.89	171.83	-	-	142.75
2015	82.71	62.61	68.34	107.78	149.91	126.31	99.51	118.39	132.82	-	-	103.79
2016	79.61	68.03	73.84	88.57	110.28	99.38	88.22	87.01	106.35	-	-	78.25
2017	83.31	60.76	78.97	95.89	165.40	111.99	90.03	96.95	107.96	-	-	82.00
2018	90.68	62.18	82.94	106.49	173.37	121.39	97.50	109.36	125.81	-	-	96.25
2019	90.13	58.39	87.47	102.85	228.79	119.13	99.30	107.83	121.62	-	-	94.01
2020	80.68	59.69	82.13	81.48	193.12	98.81	79.70	81.72	113.07	-	-	87.03
2021	103.17	56.28	101.71	103.92	218.12	122.37	106.88	107.64	140.38	-	-	95.06
2022	160.97	52.58	157.98	202.71	304.02	239.90	203.47	210.81	277.84	-	-	196.30
2023	143.92	55.10	141.24	168.19	367.41	215.25	174.23	168.51	241.15	-	-	160.04

자료: 한국전력공사

Source: Korea Electric Power Corporation

17. 현행 전기요금표

Table for Current Electricity Tariff

17-1. 주택용(저압/고압) Residential Service

■ 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 : 2024년 01월 01일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
300kWh 이하 사용	910	120.0
301 ~ 450kWh 사용	1,600	214.6
450kWh 초과 사용	7,300	307.3

※ 슈퍼유저요금: 하계(7~8월), 1,000kWh초과 전력량요금은 736.2원/kWh 적용

• 기타계절(1.1~6.30, 9.1~12.31)

(적용일자 : 2024년 01월 01일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
200kWh 이하 사용	910	120.0
201 ~ 400kWh 사용	1,600	214.6
400kWh 초과 사용	7,300	307.3

※ 슈퍼유저요금: 동계(12~2월), 1,000kWh초과 전력량요금은 736.2원/kWh 적용

■ 주택용 전력(고압)

- 고압으로 공급받는 가정용 고객에게 적용

• 하계(7.1~8.31)

(적용일자 : 2023년 11월 09일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
300kWh 이하 사용	730	105.0
301 ~ 450kWh 사용	1,260	174.0
450kWh 초과 사용	6,060	242.3

※ 슈퍼유저요금: 하계(7~8월), 1,000kWh초과 전력량요금은 601.3원/kWh 적용

• 기타계절(1.1~6.30, 9.1~12.31)

(적용일자 : 2023년 11월 09일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
200kWh 이하 사용	730	105.0
201 ~ 400kWh 사용	1,260	174.0
400kWh 초과 사용	6,060	242.3

※ 슈퍼유저요금: 동계(12~2월), 1,000kWh초과 전력량요금은 601.3원/kWh 적용

17. 전기요금표(계속)

17-2. 일반용(갑/을) General Service

■ 일반용 전력(갑 I)

- 타 종별을 제외한 고객으로 계약전력 300kW 이상 고객에 적용

(적용일자 : 2024년 01월 01일)

구분		기본요금 (원/kW)	전력량 요금(원/kWh)		
			여름철 (6~8월)	봄·가을철 (3~5, 9~10월)	겨울철 (11~2월)
저압전력		6,160	132.4	91.9	119.0
고압A	선택 I	7,170	142.6	98.6	130.3
	선택 II	8,230	138.6	94.3	125.0
고압B	선택 I	7,170	140.5	97.5	127.3
	선택 II	8,230	135.2	92.2	122.0

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

■ 일반용 전력(갑 II)

- 타 종별을 제외한 고객으로 계약전력 300kW 미만 고객에 적용

(적용일자 : 2024년 01월 01일)

구분		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	89.4	89.4	98.1
			중간부하	140.6	96.8	128.5
			최대부하	163.1	108.1	143.3
	선택 II	8,230	경 부 하	84.1	84.1	92.8
			중간부하	135.3	91.5	123.2
			최대부하	157.8	102.8	138.0
고압B	선택 I	7,170	경 부 하	88.8	88.8	97.8
			중간부하	137.4	94.7	125.1
			최대부하	153.8	100.1	139.3
	선택 II	8,230	경 부 하	83.5	83.5	92.5
			중간부하	132.1	89.4	119.8
			최대부하	148.5	94.8	134.0

※ 대상 : 시간대별 구분 계량기가 설치된 고객

17. Table for Current Electricity Tariff(Continued)

■ 일반용 전력(을)

- 타 종별을 제외한 고객으로 계약전력 300kW 이상 고객에 적용

(적용일자 : 2024년 01월 01일)

구분		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	92.8	92.8	99.8
			중 간 부 하	145.7	115.3	145.9
			최 대 부 하	227.8	146.0	203.4
	선택 II	8,320	경 부 하	87.3	87.3	94.3
			중 간 부 하	140.2	109.8	140.4
			최 대 부 하	222.3	140.5	197.9
	선택 III	9,810	경 부 하	86.4	86.4	93.7
			중 간 부 하	139.6	108.5	139.8
			최 대 부 하	209.9	132.2	186.7
고압B	선택 I	6,630	경 부 하	95.9	95.9	102.9
			중 간 부 하	148.2	118.2	148.2
			최 대 부 하	229.4	148.5	204.4
	선택 II	7,380	경 부 하	92.1	92.1	99.1
			중 간 부 하	144.4	114.4	144.4
			최 대 부 하	225.6	144.7	200.6
	선택 III	8,190	경 부 하	90.4	90.4	97.5
			중 간 부 하	142.7	112.8	142.7
			최 대 부 하	224.0	143.1	198.9

17-3. 산업용(갑/을) Industrial Service

■ 산업용(갑 I)

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

(적용일자 : 2024년 01월 01일)

구분		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	107.7	85.9	106.0
고압A	선택 I	6,490	116.3	92.6	116.2
	선택 II	7,470	111.5	88.0	109.7
고압B	선택 I	6,000	115.1	91.5	114.7
	선택 II	6,900	110.4	86.9	108.6

17. 현행 전기요금표(계속)

■ 산업용(갑II)

- 광업, 제조업 및 기타사업에 전력을 사용하는 계약전력 4kW 이상 300kW 미만 고객에 적용

(적용일자 : 2024년 01월 01일)

구분		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	87.2	87.2	94.6
			중 간 부 하	113.0	92.0	111.5
			최 대 부 하	146.5	111.2	140.9
	선택 II	7,470	경 부 하	82.3	82.3	106.6
			중 간 부 하	108.1	87.1	106.6
			최 대 부 하	141.6	106.3	136.0
고압B	선택 I	6,000	경 부 하	84.0	84.0	91.2
			중 간 부 하	111.6	90.6	109.2
			최 대 부 하	145.4	109.4	137.9
	선택 II	6,900	경 부 하	79.5	79.5	86.7
			중 간 부 하	107.1	86.1	104.7
			최 대 부 하	140.9	104.9	133.4

■ 산업용(을)

- 광업, 제조업 및 기타사업에 전력을 사용하는 계약전력 300kW 이상 고객에 적용

(적용일자 : 2024년 01월 01일)

구분		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	99.5	99.5	106.5
			중 간 부 하	152.4	122.0	152.6
			최 대 부 하	234.5	152.7	210.1
	선택 II	8,320	경 부 하	94.0	94.0	101.0
			중 간 부 하	146.9	116.5	147.1
			최 대 부 하	229.0	147.2	204.6
	선택 III	9,810	경 부 하	93.1	93.1	100.4
			중 간 부 하	146.3	115.2	146.5
			최 대 부 하	216.6	138.9	193.4
고압B	선택 I	6,630	경 부 하	109.4	109.4	116.4
			중 간 부 하	161.7	131.7	161.7
			최 대 부 하	242.9	162.0	217.9
	선택 II	7,380	경 부 하	105.6	105.6	112.6
			중 간 부 하	157.9	127.9	157.9
			최 대 부 하	239.1	158.2	214.1
	선택 III	8,190	경 부 하	103.9	103.9	111.0
			중 간 부 하	156.2	126.3	156.2
			최 대 부 하	237.5	156.6	212.4
고압C	선택 I	6,590	경 부 하	108.9	108.9	115.8
			중 간 부 하	161.8	131.8	161.4
			최 대 부 하	242.7	162.2	218.0
	선택 II	7,520	경 부 하	104.2	104.2	111.1
			중 간 부 하	157.1	127.1	156.7
			최 대 부 하	238.0	157.5	213.3
	선택 III	8,090	경 부 하	103.1	103.1	110.0
			중 간 부 하	156.0	126.0	155.6
			최 대 부 하	236.9	156.4	212.2

17. Table for Current Electricity Tariff(Continued)

17-4. 교육용(갑/을) Educational Service

■ 교육용(갑)

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

(적용일자 : 2024년 01월 01일)

구분		기본요금 (원/kW)	전력량 요금(원/kWh)		
			여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
저압전력		5,230	123.6	86.4	110.8
고압A	선택 I	5,550	123.3	86.5	109.3
	선택 II	6,370	118.8	82.1	104.8
고압B	선택 I	5,550	122.6	86.1	108.5
	선택 II	6,370	118.1	81.6	104.0

■ 교육용(을)

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

(적용일자 : 2024년 01월 01일)

구분		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	76.5	76.5	80.5
			중 간 부 하	121.2	90.9	119.7
			최 대 부 하	187.1	111.4	158.4
	선택 II	6,980	경 부 하	72.0	72.0	76.0
			중 간 부 하	116.7	86.4	115.2
			최 대 부 하	182.6	106.9	153.9
고압B	선택 I	6,090	경 부 하	75.0	75.0	78.8
			중 간 부 하	118.5	89.2	116.8
			최 대 부 하	181.4	109.0	154.1
	선택 II	6,980	경 부 하	70.5	70.5	74.3
			중 간 부 하	114.0	84.7	112.3
			최 대 부 하	176.9	104.5	149.6

17. 현행 전기요금표(계속)

17-5. 농사용 Agricultural(lights) Service

■ 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 육묘 또는 전조재배에 사용하는 전력
 - 농작물 재배·축산·양잠·수산물양식업, 농작물 저온보관시설, 수협 또는 어촌계의 저온보관시설
 - 농산물 생산자의 농수산물 건조 시설, 수협 또는 어촌계의 수산물 제빙·냉동시설
 - 농작물 재배·축산·양잠·수산물양식업 고객의 해충 구제 및 유인용 전등
- ※ 12.11.1 이후 기존 농사용(을 병) → 농사용(병) 통합 후 농사용(을)로 명칭변경

(적용일자 : 2024년 04월 01일)

구분		기본요금(원/kW)	전력량 요금(원/kWh)	
갑		360	41.9	
을	저압	1,150	59.5	
	고압(A,B)	1,210	여름철(6~8월)	62.2
			봄·가을철(3~5,9~10월)	60.2
			겨울철(11~2월)	62.2

17-6. 가로등 Street Light Service

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

(적용일자 : 2024년 01월 01일)

구분	기본요금(원/kW)	전력량 요금(원/kWh)
갑(정액등)	W당 47.2(월 최저요금 1,220원)	
을(종량등)	6,290	112.6

17-7. 심야전력 Midnight Power Service

- 한전이 인정하는 심야전력 이용기기를 설치하여 전력사용이 적은 심야(밤 22시~아침8시)에 열, 온수 또는 얼음을 생산, 저장하였다가 하루 종일 난방, 급탕 또는 냉방에 이용하는 경우 적용

(적용일자 : 2024년 01월 01일)

구분	기본요금(원/kW)	전력량 요금(원/kWh)	
갑	겨울철: 103.5, 기타계절: 82.1 (월 최저요금: 20kW에 해당하는 요금)		
을 I	겨울철: 89.0, 기타계절: 71.9 (월 최저요금: 20kW에 해당하는 요금)		
을 II	7,160원 x $\frac{\text{기타시간 사용전력량}}{\text{월간 총사용전력량}}$	심야시간대	겨울철: 89.0 기타계절: 71.9
		기타시간	115.1
	(월 최저요금 kW당 710원)		

※ 겨울철: 11월~익년 2월, 기타계절: 3~10월

※ 심야시간: 22:00~08:00, 기타시간: 08:00~22:00

17. Table for Current Electricity Tariff(Continued)

17-8. 기타요금제(선택, 전기차, 보완) Rate Options Service

■ 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

- 일반용(을)

(적용일자 : 2024년 01월 01일)

구분	기본요금 (원/kW)	전력량 요금(원/kWh)			
		시간대		1.1~2월 말일	7.1~8.31
고압A	선택 I	경부하		80.6	78.2
		중간부하	비피크일	112.6	117.3
			피크일	217.7	
		최대부하	비피크일	152.6	177.9
			피크일	601.1	683.7
		경부하		75.1	72.7
	선택 II	중간부하	비피크일	107.1	118.8
			피크일	211.9	
		최대부하	비피크일	147.1	172.4
			피크일	595.6	678.2
	선택 III	경부하		74.7	72.0
		중간부하	비피크일	106.7	113.3
			피크일	210.9	
		최대부하	비피크일	139.3	163.3
			피크일	557.7	636.3

- 산업용(을)

(적용일자 : 2023년 11월 9일)

구분	기본요금 (원/kW)	전력량 요금(원/kWh)			
		시간대		1.1~2월 말일	7.1~8.31
고압A	선택 I	경부하		87.3	84.9
		중간부하	비피크일	119.3	124.0
			피크일	224.4	
		최대부하	비피크일	159.3	184.6
			피크일	607.8	690.4
	선택 II	경부하		81.8	79.4
		중간부하	비피크일	113.8	118.5
			피크일	218.6	
		최대부하	비피크일	153.8	179.1
			피크일	602.3	684.9
	선택 III	경부하		81.4	78.7
		중간부하	비피크일	113.4	118.0
			피크일	217.6	
		최대부하	비피크일	146	170.0
			피크일	564.4	643.0

17. 현행 전기요금표(계속)

■ 수요관리형 선택요금 II

- 일반용(을)·산업용(을) 고압B, C(공급전압 154,000V 이상) 고객 중 희망 고객. 단, 지식서비스산업, 전기차 충전전력 고객 제외

* 여름철 및 봄가을철 최대부하시간대: 14~17시, 중간부하시간대: 9~14시, 17~23시

겨울철 시간대는 기존 요금제의 시간대와 동일

- 일반용(을)

(적용일자 : 2024년 01월 01일)

구분		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	95.9	95.9	102.9
			중 간 부 하	148.2	118.2	148.2
			최 대 부 하	335.6	210.3	204.4
	선택 II	7,380	경 부 하	92.1	92.1	99.1
			중 간 부 하	144.4	114.4	144.4
			최 대 부 하	329.7	204.4	200.6
	선택 III	8,190	경 부 하	90.4	90.4	97.5
			중 간 부 하	142.7	112.8	142.7
			최 대 부 하	327.3	202.0	198.9

- 산업용(을)

(적용일자 : 2024년 01월 01일)

구분		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	109.4	109.4	116.4
			중 간 부 하	161.7	131.7	161.7
			최 대 부 하	349.1	223.8	217.9
	선택 II	7,380	경 부 하	105.6	105.6	112.6
			중 간 부 하	157.9	127.9	157.9
			최 대 부 하	343.2	217.9	214.1
	선택 III	8,190	경 부 하	103.9	103.9	111.0
			중 간 부 하	156.2	126.3	156.2
			최 대 부 하	340.8	215.5	212.4
고압C	선택 I	6,590	경 부 하	108.9	108.9	115.8
			중 간 부 하	161.8	131.8	161.4
			최 대 부 하	348.8	224.1	218.0
	선택 II	7,520	경 부 하	104.2	104.2	111.1
			중 간 부 하	157.1	127.1	156.7
			최 대 부 하	341.5	216.8	213.3
	선택 III	8,090	경 부 하	103.1	103.1	110.0
			중 간 부 하	156	126	155.6
			최 대 부 하	339.8	215.1	212.2

17. Table for Current Electricity Tariff(Continued)

■ 전기자동차 충전전력요금

(1) 환경친화적 자동차의 개발 및 보급촉진에 관한 법률 제2조 제3호에 따른 전기자동차(단, 이륜자동차는 제외) 충전설비

(적용일자 : 2024년 01월 01일)

구분		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철	봄·가을철	겨울철
자가소비	저압	2,390	경 부 하	84.3	85.4	107.4
			중 간 부 하	172	97.2	154.9
			최 대 부 하	259.2	102.1	217.5
	고압	2,580	경 부 하	79.2	80.2	96.6
			중 간 부 하	137.4	91	127.7
			최 대 부 하	190.4	94.9	165.5

(2) 지능형전력망의 구축 및 이용촉진에 관한 법률 제12조 및 동법 시행령 제8조에 따른 전기차충전서비스
제공사업자의 위(1)에 해당하는 충전설비

(적용일자 : 2024년 01월 01일)

구분		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철	봄·가을철	겨울철
저압	선택 I	2,390	경 부 하	95.9	85.4	110.6
			중간부하	162.2	97.2	143.1
			최대부하	203.5	102.1	172.0
	선택 II	2,390	경 부 하	83.1	85.4	105.8
			중간부하	140	97.2	126.7
			최대부하	270.8	102.1	227.0
	선택 III	2,390	경 부 하	90.1	85.4	115.5
			중간부하	138.6	97.2	125.4
			최대부하	236	102.1	198.4
	선택 IV	2,390	전체시간	172	97.2	154.9
고압	선택 I	2,580	경 부 하	89.8	80.2	99.4
			중간부하	129.9	91	118.4
			최대부하	151.2	94.9	132.4
	선택 II	2,580	경 부 하	78.2	80.2	95.2
			중간부하	113	91	105.5
			최대부하	198.6	94.9	172.4
	선택 III	2,580	경 부 하	84.5	80.2	103.6
			중간부하	111.9	91	104.5
			최대부하	174	94.9	151.6
	선택 IV	2,580	전체시간	137.4	91.0	127.7

■ 일반용 보완전력요금

(적용일자 : 2024년 01월 01일)

	기본요금 (원/kW)		전력량 요금(원/kWh)			
			시간대	여름철	봄·가을철	겨울철
저압	5,310		경 부 하	102.3	102.3	102.3
			중 간 부 하	135	107.7	119.0
			최 대 부 하	183.6	121.7	138.5
고압	4,910		경 부 하	98.1	98.1	98.1
			중 간 부 하	128.9	103.9	112.2
			최 대 부 하	169.3	114.7	129.8

17. 현행 전기요금표(계속)

■ 산업용 보완전력요금

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

■ 역송전력 요금

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

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

■ 재생에너지 전력 사용고객요금

(적용일자 : 2024년 01월 01일)

구분	기본요금 (원/kW)	전력량 요금(원/kWh)			
		시간대	여름철 (6~8월)	봄·가을철 (3~5, 9~10월)	겨울철 (11~2월)
고압A	10,020	경 부 하	93.9	93.9	100.9
		중 간 부 하	130.4	99.9	130.6
		최 대 부 하	206.9	125.3	182.6
고압B	9,980	경 부 하	96	96	103.1
		중 간 부 하	135.1	105.2	135.1
		최 대 부 하	212.5	131.6	187.4
고압C	9,670	경 부 하	95.7	95.7	102.6
		중 간 부 하	135.3	105.3	134.9
		최 대 부 하	212.2	131.7	187.5

■ 주택용 계절별·시간별 선택요금(제주특별자치도)

(적용일자 : 2024년 01월 01일)

기본요금 (원/kW)	전력량 요금(원/kWh)		
	시간대	봄·가을철 (3~5월, 9~10월)	여름·겨울철 (6~8월, 11~2월)
4,310	경부하(22시~08시)	125.8	138.7
	중간부하(08시~16시)	153.8	184.7
	최대부하(16시~22시)	175.4	220.5

1. 슈퍼유저요금: 여름·겨울철(6월1일~8월31일, 11월1일~2월말일) 1,000kWh 초과 전력량요금은 736.2원/kWh 적용

17. Table for Current Electricity Tariff(Continued)

17-9. 일반사항 General Information

■ 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

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

※ 다만,

1. 공휴일의 최대수요전력 및 사용전력량은 경부하시간대에 계량하고, 공휴일이 아닌 토요일 최대부하시간대의 사용전력량은 중간부하시간대에 계량합니다.
2. 요금적용전력은 중간부하시간대와 최대부하시간대의 최대수요전력 중 큰 것을 대상으로 하여 제68조(요금적용전력의 결정)에 따라 산정합니다.
3. 제1호의 공휴일이라 함은 "관공서의 공휴일에 관한 규정"에 정한 공휴일을 말합니다. 이 경우 정부에서 수시로 지정하는 임시공휴일은 제외합니다.

(적용일자 : 2023년 5월 16일)

	여름철 (6월~8월)	봄·가을철 (3월~5월, 9월~10월)	겨울철 (11월~2월)
경 부 하		22:00~08:00	22:00~08:00
중간부하		08:00~11:00 12:00~13:00 18:00~22:00	08:00~09:00 12:00~16:00 19:00~22:00
최대부하		11:00~12:00 13:00~18:00	09:00~12:00 16:00~19:00

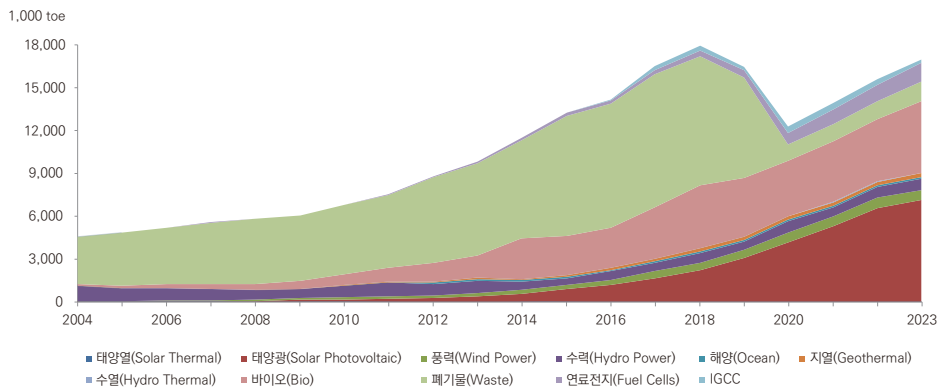
※ 다만,

1. 공휴일의 최대수요전력 및 사용전력량은 경부하시간대에 계량하고, 공휴일이 아닌 토요일 최대부하시간대의 사용전력량은 중간부하시간대에 계량합니다.
2. 요금적용전력은 중간부하시간대와 최대부하시간대의 최대수요전력 중 큰 것을 대상으로 하여 제68조(요금적용전력의 결정)에 따라 산정합니다.
3. 제1호의 공휴일이라 함은 "관공서의 공휴일에 관한 규정"에 정한 공휴일을 말합니다. 이 경우 정부에서 수시로 지정하는 임시공휴일은 제외합니다.

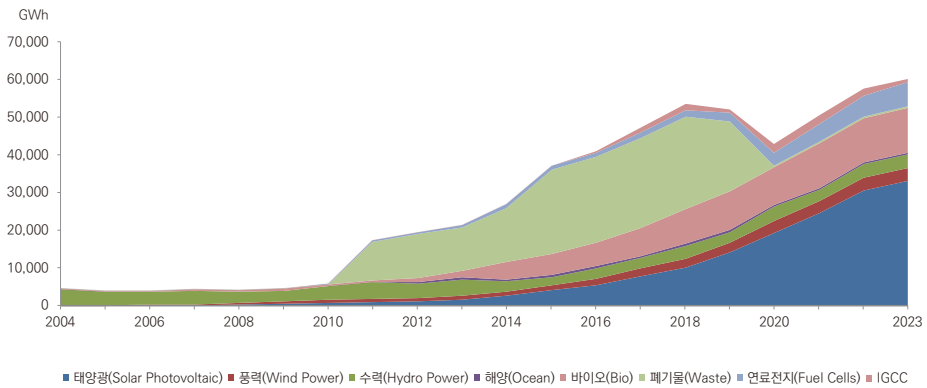
자료: 한국전력공사, 한전on(<https://online.kepco.co.kr/PRM004D00>)

Source: KEPCO(<https://online.kepco.co.kr/PRM004D00>)

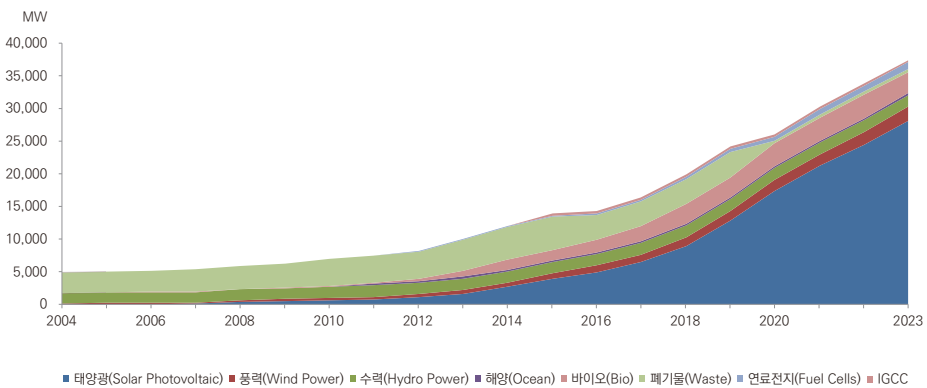
● 신재생에너지 생산량 Production of New & Renewable Energy(Calorific Unit)



● 신재생에너지 발전량 Generation of New & Renewable Energy



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



1. 신재생에너지 생산량(열량)

단위: toe

	2010	2011	2012	2013	2014	2015	2016
신재생에너지합계(toe)	6,856,419	7,584,042	8,856,234	9,893,583	11,569,103	13,350,608	14,268,768
재생에너지	6,814,072	7,520,697	8,773,722	9,771,165	11,369,732	13,119,143	13,951,097
신에너지	42,347	63,345	82,512	122,418	199,371	231,465	317,672
재생에너지							
태양열	29,257	27,435	26,259	27,812	28,459	28,387	28,341
태양광	166,287	198,393	243,033	358,816	579,181	907,060	1,183,384
사업용	137,032	158,095	179,899	274,755	449,975	731,025	947,609
자가용	29,255	40,298	63,134	84,061	129,206	176,035	235,775
풍력	175,645	185,521	192,677	242,361	241,857	283,467	355,356
사업용	174,531	184,394	191,682	241,289	240,223	281,026	352,953
자가용	1,114	1,127	995	1,072	1,634	2,441	2,403
수력 ¹	792,293	965,373	814,933	892,232	581,186	453,787	603,244
사업용	792,075	965,120	814,537	891,015	579,882	452,157	602,578
자가용	218	253	396	1,217	1,304	1,630	666
해양	223	11,246	98,310	102,077	103,848	104,731	104,562
지열	33,449	47,833	65,277	86,959	108,472	135,046	162,041
수열	-	-	-	-	-	4,791	5,989
바이오	754,623	963,363	1,334,724	1,558,493	2,821,996	2,765,657	2,765,453
바이오가스	80,343	91,184	107,430	139,370	142,937	108,734	95,000
매립지가스	114,990	124,220	116,073	97,497	79,918	75,804	71,133
바이오디젤	356,822	336,054	359,916	369,081	387,699	441,345	442,859
우드칩 ²	132,230	163,022	164,542	168,466	190,687	373,308	223,392
상형탄	23,053	24,591	23,857	23,517	24,927	15,828	15,432
임산연료 ³	23,419	23,665	56,481	49,622	5,163	44,790	123,810
목재펠릿 ²	23,766	50,995	120,055	268,129	795,215	823,763	817,172
폐목재 ⁴	-	149,632	140,874	175,983	191,142	103,998	82,395
흑액	-	-	228,337	229,254	322,304	231,008	228,848
하수슬러지고형연료	-	-	17,159	37,574	41,477	78,484	77,843
Bio-SRF ²	-	-	-	-	527,270	208,392	281,394
바이오중유	-	-	-	-	113,257	260,203	306,175
폐기물 ⁵	4,862,296	5,121,533	5,998,509	6,502,414	6,904,733	8,436,217	8,742,727
폐가스	2,114,825	2,175,167	2,999,138	3,343,253	4,148,491	5,345,343	5,189,393
산업폐기물	851,834	873,206	860,472	886,943	780,801	925,376	944,486
생활폐기물 ⁶	94,406	184,506	147,247	169,121	157,178	972,271	949,551
대형도시쓰레기 ⁶	717,671	753,252	748,372	698,870	725,420	-	-
시멘트킬른보조연료	618,082	681,415	752,890	899,151	837,114	807,229	661,278
RDF/RPF/TDF ^{7,8}	93,275	220,171	261,022	286,419	-	-	-
SRF ⁸	-	-	-	-	58,935	207,638	821,614
정제연료유	227,497	233,816	229,368	218,657	196,794	178,360	176,405
폐목재 ⁴	144,706	-	-	-	-	-	-
신에너지							
연료전지	42,347	63,345	82,512	122,418	199,371	230,180	241,568
사업용	40,436	60,730	78,987	118,348	194,714	226,069	237,279
자가용	1,911	2,615	3,525	4,070	4,657	4,111	4,289
IGCC	-	-	-	-	-	1,285	76,104

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

2. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

3. 2017년부터 임산연료는 행정자료 제공 기관(산림청 : 임산통계연보)의 통계수집 방법 변경

4. 2011년부터 폐목재는 폐기물에서 바이오로 분류변경

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

6. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

7. 2011년부터 TDF 추가

8. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

자료: 한국에너지공단

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

Unit: toe

2017	2018	2019	2020	2021	2022	2023	
16,604,536	18,059,346	16,524,882	12,378,065	14,000,317	15,706,206	17,058,307	Total
16,017,457	17,318,186	15,813,116	11,115,797	12,510,554	14,134,169	15,511,748	Renewable energy
587,079	741,160	711,766	1,262,268	1,489,762	1,572,037	1,546,560	New energy
							Renewable energy
27,949	27,198	26,688	26,048	25,568	25,035	24,403	Solar Thermal
1,672,743	2,196,855	3,062,023	4,165,154	5,317,227	6,609,387	7,148,551	Solar Photovoltaic
1,325,013	1,750,684	2,504,790	3,504,379	4,567,632	5,683,463	6,158,299	Business
347,730	446,171	557,234	660,775	749,595	925,924	990,252	Private
462,184	525,210	570,836	671,107	677,507	717,864	722,687	Wind Power
459,848	522,772	568,596	668,708	675,174	715,435	720,451	Business
2,336	2,438	2,241	2,398	2,332	2,429	2,237	Private
600,690	718,787	594,539	826,344	651,227	755,117	791,963	Hydro Power ¹
599,897	718,140	593,974	825,838	650,633	754,249	791,591	Business
793	647	565	506	594	869	372	Private
104,256	103,380	101,030	97,397	96,911	90,279	93,202	Ocean
183,913	205,442	224,698	240,933	255,590	279,650	280,167	Geothermal
7,941	14,725	21,398	23,647	24,756	26,543	27,546	Hydro Thermal
3,598,782	4,442,376	4,162,427	3,899,174	4,263,576	4,372,872	5,029,898	Bio
98,123	91,740	96,281	95,385	114,343	101,807	118,259	Bio Gas
77,036	65,179	75,518	62,190	81,226	69,389	60,970	LFG
428,053	683,234	699,713	689,957	597,068	683,019	692,374	Bio Diesel
122,443	140,232	226,865	237,346	231,309	170,717	183,288	Wood Chip ²
15,663	17,221	16,505	10,858	10,598	2,645	3,866	Wood Briquette
648,298	674,167	131,073	142,876	96,770	157,598	209,525	Fire Wood ³
1,099,049	1,486,488	1,543,390	1,325,675	1,787,454	1,836,137	2,078,953	Wood Pellet ²
75,605	73,771	66,663	72,501	66,622	65,629	48,710	Waste Wood ⁴
230,016	218,902	205,286	197,589	212,208	224,899	220,401	Black Liquor
100,749	114,451	102,061	154,832	152,762	66,808	71,536	Sewage Solid Fuel
437,734	532,943	510,194	501,406	522,913	641,883	984,798	Bio-SRF ²
266,012	344,048	488,877	408,559	390,302	352,340	357,217	Biobunker
9,358,998	9,084,212	7,049,477	1,165,993	1,198,193	1,257,422	1,393,329	Waste ⁵
5,561,785	5,628,536	4,214,432	-	-	-	-	Waste Gas
953,426	944,887	747,659	308,446	308,638	306,647	311,020	Industrial Wastes
1,001,529	994,424	828,116	410,219	420,039	408,095	416,194	Living Wastes ⁶
-	-	-	-	-	-	-	Municipal Solid Wastes ⁶
654,136	626,621	577,577	234,334	272,998	318,115	404,222	Cement Kiln Fuel
-	-	-	-	-	-	-	RDF/RPF/TDF ^{7,8}
1,005,761	695,021	546,511	212,993	196,517	224,565	261,893	SRF ⁸
182,361	194,723	135,182	-	-	-	-	Refinery Fuel Oil
-	-	-	-	-	-	-	Wood Waste ⁴
							New energy
313,218	378,633	492,105	755,887	1,023,132	1,153,529	1,334,301	Fuel Cells
308,375	371,004	480,826	742,434	1,006,930	1,135,223	1,313,030	Business
4,844	7,629	11,279	13,453	16,202	18,307	21,272	Private
273,861	362,527	219,661	506,381	466,631	418,508	212,258	IGCC

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

2. Since 2014, some of the wood chips and wood pellets have been classified as Bio-SRF.

3. Since 2017, there has been a change in collecting data by Forest In Korea.

4. Since 2011, waste wood has been reclassified from waste to bio.

5. The revision of 'Act on the promotion of the development, use and diffusion of new and renewable energy' excludes the non-renewable waste from waste energy.

6. Since 2015, Municipal solid wastes has been classified as living wastes.

7. Since 2011, TDF has been added.

8. Since 2014, RDF/RPF/TDF have been surveyed for substitution with SRF.

Source: Korea Energy Agency

2. 신재생에너지 생산량(고유단위)

	2010	2011	2012	2013	2014	2015	2016
태양열(toe)	29,257	27,435	26,259	27,812	28,459	28,387	28,341
태양광(MWh)	773,425	922,755	1,127,097	1,667,641	2,694,350	4,229,946	5,516,146
사업용	637,359	735,327	852,602	1,302,158	2,132,582	3,464,576	4,491,036
자가용	136,066	187,428	274,495	365,483	561,768	765,371	1,025,111
풍력(MWh)	816,954	862,889	912,773	1,148,211	1,145,601	1,342,491	1,683,214
사업용	811,772	857,646	908,447	1,143,549	1,138,496	1,331,877	1,672,764
자가용	5,182	5,243	4,326	4,662	7,105	10,614	10,450
수력(MWh) ¹	3,685,090	4,490,107	3,862,087	4,228,112	2,753,924	2,150,013	2,858,714
사업용	3,684,075	4,488,929	3,860,364	4,222,822	2,748,254	2,142,922	2,855,818
자가용	1,015	1,178	1,723	5,290	5,670	7,091	2,895
해양(MWh)	1,039	52,307	465,924	483,777	492,172	496,354	495,556
사업용	1,039	52,307	465,924	483,777	492,172	496,354	495,556
지열(toe)	33,449	47,833	65,277	86,959	108,472	135,046	162,041
수열(toe)	-	-	-	-	-	4,791	5,989
바이오							
바이오가스(천증기톤)	1,491	1,692	1,993	2,586	2,652	2,017	1,763
매립지가스(천증기톤)	2,133	2,305	2,153	1,809	1,483	1,406	1,320
바이오다젤(Tco) ²	3,568	3,361	3,599	3,691	3,877	4,413	4,429
우드칩(Tco) ²	1,322	1,630	1,645	1,685	1,907	3,733	2,234
성형탄(Tco)	231	246	239	235	249	158	154
임산연료(Tco)	234	237	565	496	52	448	1,238
목재펠릿(Tco) ²	238	510	1,201	2,681	7,952	8,238	8,172
폐목재(천증기톤) ³	-	2,776	2,614	3,265	3,546	1,929	1,529
흑액(Tco)	-	-	2,283	2,293	3,223	2,310	2,288
하수슬러지 고품연료(Tco)	-	-	172	376	415	785	778
Bio-SRF(Tco) ²	-	-	-	-	5,273	2,084	2,814
바이오중유(Tcal)	-	-	-	-	1,133	2,602	3,062
폐기물 ⁴							
폐가스(천증기톤)	39,236	40,356	55,643	62,027	76,966	99,171	96,278
산업폐기물(천증기톤)	15,804	16,200	15,964	16,455	14,486	17,168	17,523
생활폐기물(천증기톤) ⁵	1,752	3,423	2,732	3,138	2,916	18,038	17,617
대형도시쓰레기(천증기톤) ⁵	13,315	13,975	13,884	12,966	13,459	-	-
시멘트킬른보조연료(천증기톤)	11,467	12,642	13,968	16,682	15,531	14,976	12,269
RDF/RPF/TDF(Tcal) ^{6,7}	933	2,202	2,610	2,864	-	-	-
SRF(Tcal) ⁷	-	-	-	-	589	2,076	8,216
정제연료유(Tcal)	2,275	2,338	2,294	2,187	1,968	1,784	1,764
폐목재(천증기톤) ³	2,685	-	-	-	-	-	-
연료전지(MWh)	196,960	294,625	389,672	578,586	943,064	1,089,289	1,143,191
사업용	188,072	282,463	374,347	560,890	922,817	1,071,418	1,124,544
자가용	8,888	12,162	15,325	17,696	20,247	17,871	18,647
IGCC(MWh)	-	-	-	-	-	6,089	360,681
사업용	-	-	-	-	-	6,089	360,681

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

2. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

3. 2011년부터 폐목재는 폐기물에서 바이오로 분류변경

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

5. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

6. 2011년부터 TDF 추가

7. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

자료: 한국에너지공단

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

2017	2018	2019	2020	2021	2022	2023	
27,949	27,198	26,688	26,048	25,568	25,035	24,403	Solar Thermal(toe)
7,739,189	10,167,519	14,192,911	19,337,964	24,717,623	30,726,260	33,236,447	Solar Photovoltaic(MWh)
6,220,719	8,219,173	11,759,577	16,452,484	21,444,281	26,682,924	28,912,204	Business
1,518,470	1,948,345	2,433,335	2,885,480	3,273,342	4,043,336	4,324,243	Private
2,169,112	2,464,974	2,679,248	3,149,948	3,180,017	3,369,458	3,392,165	Wind Power(MWh)
2,158,913	2,454,329	2,669,463	3,139,475	3,169,833	3,358,850	3,382,397	Business
10,199	10,645	9,785	10,474	10,184	10,608	9,768	Private
2,819,882	3,374,375	2,791,076	3,879,383	3,057,210	3,544,866	3,718,015	Hydro Power(MWh) ¹
2,816,419	3,371,552	2,788,609	3,877,175	3,054,616	3,541,073	3,716,390	Business
3,463	2,823	2,467	2,208	2,595	3,793	1,625	Private
489,466	485,353	474,321	457,263	454,980	423,843	437,567	Ocean(MWh)
489,466	485,353	474,321	457,263	454,980	423,843	437,567	Business
183,913	205,442	224,698	240,933	255,590	279,650	280,167	Geothermal(toe)
7,941	14,725	21,398	23,647	24,756	26,543	27,546	Hydro Thermal(toe)
							Bio
1,820	1,702	1,786	1,770	2,121	1,889	2,194	Bio Gas(1,000 steam ton)
1,429	1,209	1,401	1,154	1,507	1,287	1,131	LFG(1,000 steam ton)
4,281	6,832	6,997	6,900	5,971	6,830	6,924	Bio-Diesel(Tcal)
1,224	1,402	2,269	2,373	2,313	1,707	1,833	Wood Chip(Tcal) ²
157	172	165	109	106	26	39	Wood Briquette(Tcal)
6,483	6,742	1,311	1,429	968	1,576	2,095	Fire Wood(Tcal)
10,990	14,865	15,434	13,257	17,875	18,361	20,790	Wood Pellet(Tcal) ²
1,403	1,369	1,237	1,345	1,236	1,218	904	Waste Wood(1,000 steam ton) ³
2,300	2,189	2,053	1,976	2,122	2,249	2,204	Black Liquor(Tcal)
1,007	1,145	1,021	1,548	1,528	668	715	Sewage Solid Fuel(Tcal)
4,377	5,329	5,102	5,014	5,229	6,419	9,848	Bio-SRF(Tcal) ²
2,660	3,440	4,889	4,086	3,903	3,523	3,572	Bio-bunker(Tcal)
							Waste ⁴
103,187	104,426	78,190	-	-	-	-	Waste Gas(1,000 steam ton)
17,689	17,530	13,871	5,723	5,726	5,689	5,770	Industrial Wastes(1,000 steam ton)
18,581	18,449	15,364	7,611	7,793	7,571	7,722	Living Wastes(1,000 steam ton) ⁵
-	-	-	-	-	-	-	Municipal Solid Wastes(1,000 steam ton) ⁵
12,136	11,626	10,716	4,348	5,065	5,902	7,499	Cement Kiln Fuel(1,000 steam ton)
-	-	-	-	-	-	-	RDF/RPF/TDA(Tcal) ^{6,7}
10,058	6,950	5,465	2,130	1,965	2,246	2,619	SRF(Tcal) ⁷
1,824	1,947	1,352	-	-	-	-	Refinery Fuel Oil(Tcal)
-	-	-	-	-	-	-	Waste Wood(1,000 steam ton) ³
1,468,919	1,775,115	2,306,654	3,544,354	4,798,120	5,409,625	6,257,348	Fuel Cells(MWh)
1,447,768	1,741,801	2,257,401	3,485,608	4,727,370	5,329,684	6,164,458	Business
21,151	33,314	49,254	58,746	70,750	79,942	92,889	Private
1,285,733	1,702,006	1,031,272	2,377,374	2,190,755	1,964,827	996,517	IGCC(MWh)
1,285,733	1,702,006	1,031,272	2,377,374	2,190,755	1,964,827	996,517	Business

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

2. Since 2014, some of the wood chips and wood pellets have been classified as Bio-SRF.

3. Since 2011, waste wood has been reclassified from waste to bio.

4. The revision of 'Act on the promotion of the development, use and diffusion of new and renewable energy' excludes the non-renewable waste from waste energy.

5. Since 2015, Municipal solid wastes has been classified as living wastes.

6. Since 2011, TDF has been added.

7. Since 2014, RDF/RPF/TDF have been surveyed for substitution with SRF.

Source: Korea Energy Agency

3. 신재생에너지 발전량

단위: MWh

		2010	2011	2012	2013	2014	2015	2016
신·재생에너지 총발전량		5,890,180	17,351,213	19,521,955	21,500,322	27,020,292	37,329,731	41,049,367
재생에너지	사업용	5,731,502	12,712,005	12,768,554	15,348,683	20,910,666	23,829,001	26,806,171
	자가용	158,678	4,639,208	6,753,401	6,151,639	6,109,626	13,500,729	14,243,197
신에너지	사업용	5,693,220	17,056,588	19,132,283	20,921,736	26,077,228	36,234,353	39,545,496
	자가용	5,543,430	12,429,542	12,394,207	14,787,793	19,987,849	22,751,494	25,320,946
태양광	사업용	149,790	4,627,046	6,738,076	6,133,943	6,089,379	13,482,859	14,224,550
	자가용	196,960	294,625	389,672	578,586	943,064	1,095,378	1,503,871
풍력	사업용	188,072	282,463	374,347	560,890	922,817	1,077,507	1,485,225
	자가용	8,888	12,162	15,325	17,696	20,247	17,871	18,647
수력 ¹⁾	사업용	773,425	922,755	1,127,097	1,667,641	2,694,350	4,229,946	5,516,146
	자가용 ²⁾	637,359	735,327	852,602	1,302,158	2,132,582	3,464,576	4,491,036
해양	사업용	136,066	187,428	274,495	365,483	561,768	765,371	1,025,111
	자가용	816,954	862,889	912,773	1,148,211	1,145,601	1,342,491	1,683,214
바이오 ³⁾	사업용	811,772	857,646	908,447	1,143,549	1,138,496	1,331,877	1,672,764
	자가용	5,182	5,243	4,326	4,662	7,105	10,614	10,450
폐기물 ^{4,5)}	사업용	3,685,090	4,490,107	3,862,087	4,228,112	2,753,924	2,150,013	2,858,714
	자가용	3,684,075	4,488,929	3,860,364	4,222,822	2,748,254	2,142,922	2,855,818
바이오가스	사업용	1,039	52,307	465,924	483,777	492,172	496,354	495,556
	자가용	1,039	52,307	465,924	483,777	492,172	496,354	495,556
매립지가스	사업용	416,713	524,623	1,027,251	1,839,568	4,656,237	5,546,583	6,237,564
	자가용	409,185	469,805	654,430	1,366,716	4,225,476	5,165,641	5,940,066
우드칩 ⁶⁾	사업용	7,528	54,818	372,821	472,852	430,761	380,942	297,498
	자가용	17,401	44,860	38,973	99,810	94,930	121,142	138,600
목재펠릿 ⁶⁾	사업용	9,873	20,263	15,461	37,480	47,507	92,207	100,320
	자가용	7,528	24,597	23,512	62,330	47,423	28,935	38,279
폐목재	사업용	399,312	440,814	419,409	293,298	253,024	252,312	238,584
	자가용	399,312	440,814	419,409	293,298	246,543	246,589	238,584
흑액	사업용	-	-	-	-	6,481	5,723	-
	자가용	-	8,728	88,060	119,712	106,168	132,176	54,486
하수슬러지 고형연료	사업용	-	8,728	23,057	62,111	105,908	131,297	54,486
	자가용	-	-	65,003	57,601	260	879	-
Bio-SRF ⁷⁾	사업용	-	-	83,015	696,539	2,764,069	2,512,521	2,679,313
	자가용	-	-	83,015	696,539	2,764,069	2,508,862	2,679,313
폐기물 ^{2,4,5)}	사업용	-	30,221	40,534	178,215	90,472	96,324	-
	자가용	-	-	32,168	99,211	-	17,993	-
폐가스	사업용	-	30,221	8,366	79,004	90,472	78,331	-
	자가용	-	-	275,940	273,917	274,248	263,411	259,219
산업폐기물	사업용	-	-	275,940	273,917	274,248	263,411	259,219
	자가용	-	-	81,320	178,077	195,307	282,542	284,973
생활폐기물	사업용	-	-	81,320	178,077	195,307	282,542	284,973
	자가용	-	-	-	-	341,254	652,965	1,127,409
대형도시쓰레기 ⁶⁾	사업용	-	-	-	-	329,377	652,961	1,127,409
	자가용	-	-	-	-	11,877	4	-
RDF/RPF/TDF ⁷⁾	사업용	-	-	-	-	536,765	1,233,190	1,454,982
	자가용	-	-	-	-	536,765	1,233,190	1,454,982
SRF ⁷⁾	사업용	-	10,203,907	11,737,151	11,554,426	14,334,944	22,468,966	22,754,303
	자가용	-	5,825,528	5,652,440	6,268,771	9,250,869	10,150,125	9,865,706
시멘트클론보조연료	사업용	-	4,378,379	6,084,711	5,285,655	5,084,075	12,318,841	12,888,596
	자가용	-	9,862,615	11,162,731	11,092,956	13,737,289	21,419,499	21,672,062
정제연료유	사업용	-	5,568,052	5,459,106	6,060,450	8,924,777	9,503,822	9,217,232
	자가용	-	4,294,563	5,703,625	5,032,506	4,812,512	11,915,677	12,454,830
IGCC	사업용	-	45,713	27,598	23,410	66,381	86,666	174,950
	자가용	-	11,708	4,600	11,613	51,158	57,544	174,903
신에너지	사업용	-	34,005	22,998	11,797	15,223	29,122	47
	자가용	-	56,708	100,697	181,142	234,469	694,377	406,578
연료전지	사업용	-	48,298	57,725	92,857	102,300	397,335	128,816
	자가용	-	8,410	42,972	88,285	132,169	297,042	277,762
IGCC	사업용	-	238,871	439,281	238,807	185,230	-	-
	자가용	-	197,470	124,165	85,740	61,059	-	-
IGCC	사업용	-	41,401	315,116	153,067	124,171	-	-
	자가용	-	-	6,844	18,111	-	-	-
IGCC	사업용	-	-	6,844	18,111	-	-	-
	자가용	-	-	-	-	111,575	171,900	312,740
IGCC	사업용	-	-	-	-	111,575	171,900	312,740
	자가용	-	-	-	-	-	-	-
IGCC	사업용	-	-	-	-	-	77,000	155,957
	자가용	-	-	-	-	-	77,000	155,957
IGCC	사업용	-	-	-	-	-	19,524	32,016
	자가용	-	-	-	-	-	19,524	32,016
신에너지	사업용	196,960	294,625	389,672	578,586	943,064	1,089,289	1,143,191
	자가용	188,072	282,463	374,347	560,890	922,817	1,071,418	1,124,544
IGCC	사업용	8,888	12,162	15,325	17,696	20,247	17,871	18,647
	자가용	-	-	-	-	-	6,089	360,681
IGCC	사업용	-	-	-	-	-	6,089	360,681
	자가용	-	-	-	-	-	-	-

1. 수력은 양수발전 제외하며, 2003년부터 수력에 대수력(10MW) 포함
 2. 2012년부터 RPS 공급인증서 발급대상 바이오, 폐기물 혼소발전은 혼소비율을 반영하여 발전량 산정
 3. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류
 4. 2011년부터 폐기물 발전량 조사 시행
 5. 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정(2019.10.01 시행)에 따라 폐기물에너지 중 비재생폐기물은 제외
 6. 2015년부터 대형도시쓰레기는 생활폐기물로 포함
 7. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사
- 자료: 한국에너지공단

3. Generation of New & Renewable Energy

Unit: MWh

2017	2018	2019	2020	2021	2022	2023		
47,306,018	53,687,940	52,340,558	43,123,776	50,657,393	57,779,999	60,399,865	Total	
31,649,620	37,255,151	38,028,933	39,791,354	46,856,560	53,154,366	55,593,383	Renewable energy	Business
15,656,398	16,432,789	14,311,625	3,332,422	3,800,833	4,625,634	4,806,483		Private
44,551,367	50,210,819	49,002,632	37,202,048	43,668,518	50,405,547	53,146,000	New energy	Business
28,916,119	33,811,345	34,740,260	33,928,372	39,938,435	45,859,855	48,432,407		Private
15,635,247	16,399,475	14,262,371	3,273,676	3,730,083	4,545,692	4,713,593	Renewable energy	Business
2,754,652	3,477,121	3,337,926	5,921,728	6,988,875	7,374,452	7,253,865		Private
2,733,501	3,443,807	3,288,673	5,862,982	6,918,125	7,294,511	7,160,976	Renewable energy	Business
21,151	33,314	49,254	58,746	70,750	79,942	92,889		Private
7,739,189	10,167,519	14,192,911	19,337,964	24,717,623	30,726,260	33,236,447	Solar photovoltaic	Business
6,220,719	8,219,173	11,759,577	16,452,484	21,444,281	26,682,924	28,912,204		Private ⁶
1,518,470	1,948,345	2,433,335	2,885,480	3,273,342	4,043,336	4,324,243	Wind power	Business
2,169,112	2,464,974	2,679,248	3,149,948	3,180,017	3,369,458	3,392,165		Private
2,158,913	2,454,329	2,669,463	3,139,475	3,169,833	3,358,850	3,382,397	Hydro power ¹	Business
10,199	10,645	9,785	10,474	10,184	10,608	9,768		Private
2,819,882	3,374,375	3,271,076	3,879,383	3,057,210	3,544,866	3,718,015	Ocean	Business
2,816,419	3,371,552	2,788,609	3,877,175	3,054,616	3,541,073	3,716,390		Private
3,463	2,823	2,467	2,208	2,595	3,793	1,625	Bio ²	Business
489,466	485,353	474,321	457,263	454,980	423,843	437,567		Private
489,466	485,353	474,321	457,263	454,980	423,843	437,567	Bio gas	Business
7,466,664	9,363,229	10,415,632	9,938,354	11,788,068	11,927,592	11,918,038		Private
7,178,784	9,076,016	10,111,154	9,664,364	11,454,757	11,503,337	11,652,459	LFG	Business
287,879	287,213	304,478	273,990	333,310	424,255	265,579		Private
170,599	175,007	195,247	179,046	191,081	152,742	160,550	Wood chip ⁴	Business
142,362	144,461	168,409	149,710	174,406	135,429	126,303		Private
28,236	30,546	26,838	29,336	16,675	17,312	34,247	Wood pellet ⁴	Business
255,827	242,172	239,527	180,043	187,485	206,760	218,741		Private
255,827	242,172	239,527	180,043	187,485	206,760	218,741	Waste wood	Business
-	-	-	-	-	-	-		Private
52,518	53,786	41,753	99,242	222,248	319,428	423,195	Black liquor	Business
52,518	53,786	41,753	95,538	167,583	319,428	423,195		Private
-	-	-	3,704	54,665	-	-	Sewage solid fuel	Business
3,722,931	4,837,318	4,959,229	4,926,845	6,794,232	7,393,419	6,597,030		Private
3,722,931	4,837,318	4,959,229	4,926,845	6,794,232	7,393,419	6,597,030	Bio-SRF ⁴	Business
-	-	-	-	-	-	-		Private
-	-	-	-	-	-	-	Waste ²	Business
-	-	-	-	-	-	-		Private
259,643	256,667	277,640	240,950	261,970	234,792	231,332	Waste gas	Business
259,643	256,667	277,640	240,950	261,970	234,792	231,332		Private
331,095	405,314	338,143	410,193	406,146	73,784	94,512	Industrial wastes	Business
331,095	405,314	338,143	410,193	406,146	73,784	94,512		Private
1,431,740	1,782,965	2,068,895	1,983,916	1,892,499	1,892,487	2,515,600	Living wastes ⁵	Business
1,431,740	1,782,965	2,068,895	1,983,916	1,892,499	1,720,336	2,515,600		Private
-	-	-	-	-	172,150	-	Municipal solid wastes ⁵	Business
1,242,311	1,609,999	2,295,198	1,918,119	1,832,406	1,654,179	1,677,077		Private
1,242,311	1,609,999	2,295,198	1,918,119	1,832,406	1,654,179	1,677,077	RDF/RPF/TDF ³	Business
23,867,053	24,355,370	18,449,443	439,137	470,620	413,529	443,769		Private
10,051,818	10,204,921	6,937,137	337,612	359,968	349,828	331,391	SRF ³	Business
13,815,235	14,150,448	11,512,307	101,525	110,652	63,701	112,378		Private
22,892,836	23,310,983	17,574,387	-	-	-	-	Cement kiln fuel	Business
9,334,436	9,445,991	6,281,275	-	-	-	-		Private
13,558,400	13,864,992	11,293,112	-	-	-	-	Refinery fuel oil	Business
159,714	158,923	157,812	91,821	108,574	142,400	116,131		Private
156,506	153,954	153,549	90,776	98,312	139,179	95,987	Fuel cells	Business
3,208	4,969	4,263	1,045	10,263	3,221	20,144		Private
371,828	381,641	307,864	187,677	222,835	173,702	206,264	IGCC	Business
125,992	115,601	102,506	91,181	128,370	116,984	116,895		Private
245,836	266,040	205,358	96,496	94,465	56,718	89,369	New energy	Business
-	-	-	-	-	-	-		Private
-	-	-	-	-	-	-	Fuel cells	Business
-	-	-	-	-	-	-		Private
411,991	455,951	392,976	159,639	139,211	97,427	121,373	IGCC	Business
404,199	441,504	383,403	155,654	133,286	93,665	118,509		Private
7,792	14,447	9,573	3,984	5,924	3,762	2,865	Refinery fuel oil	Business
-	-	-	-	-	-	-		Private
30,684	47,871	16,404	-	-	-	-	New energy	Business
30,684	47,871	16,404	-	-	-	-		Private
1,468,919	1,775,115	2,306,654	3,544,354	4,798,120	5,409,625	6,257,348	Fuel cells	Business
1,447,768	1,741,801	2,257,401	3,485,608	4,727,370	5,329,684	6,164,458		Private
21,151	33,314	49,254	58,746	70,750	79,942	92,889	IGCC	Business
1,285,733	1,702,006	1,031,272	2,377,374	2,190,755	1,964,827	996,517		Private
1,285,733	1,702,006	1,031,272	2,377,374	2,190,755	1,964,827	996,517	IGCC	Business

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

2. The issuance of RPS certificates for Bio and Waste co-firing power generation calculates the power generation by reflecting the blending ratio.

3. Since 2014, some of the wood chips and wood pellets have been classified as Bio-SRF.

4. Surveying waste generation since 2011.

5. The revision of 「Act on the promotion of the development, use and diffusion of new and renewable energy」 excludes the non-renewable waste from waste energy.

6. Since 2015, Municipal solid wastes has been classified as living wastes.

7. Since 2014, RDF/RPF/TDF have been surveyed for substitution with SRF.

Source: Korea Energy Agency

4. 신재생에너지 보급용량(발전·신규)

단위: kW

	2010	2011	2012	2013	2014	2015	2016
신·재생에너지 총보급용량	663,719	539,197	702,352	1,833,207	1,997,516	1,960,879	1,642,293
태양광	617,190	485,865	612,116	1,713,242	1,833,249	1,761,134	1,375,144
자가용	46,529	53,332	90,236	119,965	164,267	199,745	267,149
사업용	127,781	85,439	316,081	567,784	1,001,390	1,225,378	1,059,562
풍력	92,350	42,983	232,978	467,422	857,353	1,040,107	798,822
자가용	35,431	42,456	83,103	100,362	144,037	185,271	260,740
사업용	33,439	51,944	72,820	91,919	61,363	207,797	186,825
수력 ¹	33,400	51,813	67,300	91,900	60,880	207,599	186,750
자가용	39	131	5,520	19	483	198	75
사업용	5,520	96,619	27,700	7,508	14,356	2,718	19,160
해양	5,210	96,309	27,645	6,709	14,256	2,718	19,060
자가용	310	310	55	799	100	-	100
사업용	-	254,000	110	-	-	-	-
바이오 ²	-	254,000	110	-	-	-	-
자가용	729	23,790	268,163	526,388	576,261	89,975	286,538
사업용	530	20,810	267,023	508,983	573,610	89,975	286,538
바이오가스	199	2,980	1,140	17,405	2,651	-	-
자가용	279	2,150	4,530	6,252	13,210	2,675	9,003
사업용	80	170	4,530	4,802	10,559	2,675	9,003
매립지가스	199	1,980	-	1,450	2,651	-	-
자가용	450	-	1,024	4,176	2,860	-	1,075
사업용	450	-	1,024	3,176	2,860	-	1,075
우드칩 ³	-	-	-	1,000	-	-	-
자가용	-	-	-	14,955	1,440	2,950	38,900
사업용	-	-	-	14,955	1,440	2,950	38,900
목재펠릿 ³	-	-	-	-	-	-	-
자가용	-	20,640	181,211	414,725	153,562	561	200,000
사업용	-	20,640	180,071	414,724	153,562	561	200,000
폐목재	-	-	1,140	0	-	-	-
자가용	-	-	-	14,955	-	-	-
사업용	-	-	-	-	-	-	-
흑액	-	-	-	14,955	-	-	-
자가용	-	-	-	-	-	-	-
사업용	-	-	-	-	-	-	-
하수슬러지 고품연료	-	-	81,398	38,908	-	-	-
자가용	-	-	81,398	38,908	-	-	-
사업용	-	-	-	-	-	-	-
Bio-SRF ³	-	1,000	-	32,417	48,969	79,439	37,560
자가용	-	-	-	32,417	48,969	79,439	37,560
사업용	-	1,000	-	-	-	-	-
바이오중유	-	-	-	-	356,220	4,350	-
자가용	-	-	-	-	356,220	4,350	-
사업용	-	-	-	-	-	-	-
폐기물 ²	482,020	7,198	14,475	571,782	307,860	47,950	43,419
자가용	471,700	300	14,260	570,768	291,110	34,035	37,854
사업용	10,320	6,898	215	1,014	16,750	13,915	5,565
폐가스 ⁴	462,000	-	15	531,600	235,100	27,250	-
자가용	462,000	-	-	531,600	235,100	16,500	-
사업용	-	-	15	-	-	10,750	-
산업폐기물	-	300	2,150	5,998	3,500	3,165	8,265
자가용	-	300	2,150	5,998	2,600	-	5,700
사업용	-	-	-	-	900	3,165	2,565
생활폐기물 ⁵	20,020	6,898	4,950	9,384	10,160	2,035	3,160
자가용	9,700	-	4,750	8,370	8,310	2,035	160
사업용	10,320	6,898	200	1,014	1,850	-	3,000
시멘트킬른보조연료	-	-	-	-	14,000	-	-
자가용	-	-	-	-	14,000	-	-
사업용	-	-	7,360	24,800	2,990	15,500	31,994
SRF ⁶	-	-	7,360	24,800	2,990	15,500	31,994
자가용	-	-	-	-	-	-	-
사업용	-	-	-	-	-	-	-
정제연료유 ⁴	-	-	-	-	42,110	-	-
자가용	-	-	-	-	42,110	-	-
사업용	-	-	-	-	-	-	-
연료전지	14,230	20,207	3,003	67,827	36,286	6,361	46,790
자가용	14,000	19,650	2,800	67,460	36,040	6,000	46,120
사업용	230	557	203	367	246	361	670
IGCC ³	-	-	-	-	-	380,700	-
자가용	-	-	-	-	-	380,700	-
사업용	-	-	-	-	-	-	-

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

2. RPS 공급인증서 발급대상 바이오 폐기물 혼소발전은 혼소비용을 반영하여 보급용량 산정

3. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

4. 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정('19.10.01 시행)에 따라 폐기물에너지 중 폐가스, 정제연료유 보급용량 집계 제외

5. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

6. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

주 1. 각 연도별 신설 및 증설 용량임.

2. 보급년도는 자가용 준공, 사업용 상업운전개시 기준임

자료: 한국에너지공단

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

Unit: kW

2017	2018	2019	2020	2021	2022	2023	
2,312,963	3,774,674	4,623,115	5,503,265	4,453,978	3,808,912	4,173,359	Total
1,931,310	3,346,217	4,223,584	5,080,008	3,907,796	3,341,326	3,644,582	Business
381,653	428,457	399,531	423,257	546,183	467,586	528,778	Private
1,583,693	2,604,968	3,927,256	4,664,287	3,915,086	3,278,244	3,682,247	Solar photovoltaic
1,248,429	2,191,652	3,535,059	4,285,023	3,461,563	2,825,075	3,160,524	Business
335,264	413,317	392,197	379,264	453,524	453,169	521,724	Private
113,568	161,309	191,224	160,189	63,729	237,595	219,164	Wind power
110,456	161,258	191,201	160,050	63,600	237,490	219,084	Business
3,112	51	23	139	129	105	80	Private
6,445	4,333	11,723	3,007	18,221	216	5,130	Hydro power ¹
6,445	4,333	11,723	2,927	18,166	216	5,130	Business
-	-	-	80	55	-	-	Private
-	-	500	-	80	-	-	Ocean
-	-	500	-	80	-	-	Business
486,742	864,857	290,046	454,350	187,397	160,681	87,766	Bio ²
485,992	862,757	289,277	414,350	187,397	157,700	84,844	Business
750	2,100	769	40,000	-	2,981	2,922	Private
8,115	6,049	5,569	3,925	1,499	5,281	6,316	Bio gas
7,365	3,949	4,800	3,925	1,499	2,300	3,394	Business
750	2,100	769	-	-	2,981	2,922	Private
-	1,098	700	925	998	-	-	LFG
-	1,098	700	925	998	-	-	Business
-	-	-	-	-	-	-	Private
3,512	-	6,549	44,600	8,037	-	-	Wood chip ³
3,512	-	6,549	4,600	8,037	-	-	Business
-	-	-	40,000	-	-	-	Private
333,451	165,290	43,325	259,551	151,963	115,400	72,350	Wood pellet ³
333,451	165,290	43,325	259,551	151,963	115,400	72,350	Business
-	-	-	-	-	-	-	Private
-	-	-	-	-	-	-	Waste wood
-	-	-	-	-	-	-	Business
-	-	-	-	-	-	-	Private
-	-	-	-	-	-	-	Black liquor
-	-	-	-	-	-	-	Private
49,320	44,755	20,673	-	-	-	-	Sewage solid fuel
49,320	44,755	20,673	-	-	-	-	Business
92,343	27,665	113,229	145,349	24,900	-	9,100	Bio-SRF ³
92,343	27,665	113,229	145,349	24,900	-	9,100	Business
-	-	-	-	-	-	-	Private
-	620,000	100,000	-	-	40,000	-	Bio bunker
-	620,000	100,000	-	-	40,000	-	Business
89,756	37,792	80,514	64,800	90,415	12,653	8,180	Waste ²
47,608	29,006	74,634	63,000	-	2,900	5,580	Business
42,148	8,786	5,880	1,800	90,415	9,753	2,600	Private
30,000	-	5,200	-	-	-	-	Waste gas ⁴
-	-	-	-	-	-	-	Business
30,000	-	5,200	-	-	-	-	Private
15,997	6,906	42,233	11,400	89,920	4,000	2,600	Industrial wastes
10,869	6,020	42,233	11,400	-	-	-	Business
5,128	886	-	-	89,920	4,000	2,600	Private
4,020	4,060	14,780	53,400	-	5,753	5,580	Living wastes ⁵
-	160	14,100	51,600	-	-	5,580	Business
4,020	3,900	680	1,800	-	5,753	-	Private
-	-	-	-	-	-	-	Cement kiln fuel
-	-	-	-	-	-	-	Private
36,119	19,339	16,312	-	495	2,900	-	SRF ⁶
33,119	15,339	16,312	-	-	2,900	-	Business
3,000	4,000	-	-	495	-	-	Private
3,620	7,487	1,989	-	-	-	-	Refinery fuel oil ⁴
3,620	7,487	1,989	-	-	-	-	Business
32,760	101,414	121,852	156,632	179,050	119,523	170,872	Fuel cells
32,380	97,211	121,190	154,658	176,990	117,945	169,420	Business
380	4,203	662	1,974	2,060	1,578	1,452	Private
-	-	-	-	-	-	-	IGCC
-	-	-	-	-	-	-	Business

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

2. The issuance of RPS certificates for Bio and Waste co-firing power generation calculates the capacity by reflecting the blending ratio.

3. Since 2014, some of the wood chips and wood pellets have been classified as Bio-SRF.

4. The revision of 「Act on the promotion of the development, use and diffusion of new and renewable energy」 excludes the calculation of the waste gas and refinery fuel oil capacity from waste energy starting from 2020.

5. Since 2015, Municipal solid wastes has been classified as living wastes.

6. Since 2014, RDF/RPF/TDF have been surveyed for substitution with SRF.

Note 1. The new capacity represents the newly established and expanded capacity for each year.

2. The supply year is determined by the completion for private and the commencement of commercial operation for business.

Source: Korea Energy Agency

5. 신재생에너지 보급용량(발전-누적)

단위: kW

	2010	2011	2012	2013	2014	2015	2016
신·재생에너지 총보급용량	6,927,626	7,466,823	8,169,076	10,001,583	11,999,081	13,959,586	14,226,292
수력 ¹	3,501,957	3,987,822	4,599,938	6,313,180	8,146,429	9,907,563	11,198,597
사업용	3,425,669	3,479,001	3,569,138	3,688,403	3,852,652	4,052,023	3,027,695
자가용	650,639	736,078	1,052,060	1,619,144	2,620,516	3,845,520	4,882,354
태양광	533,492	576,475	809,453	1,276,875	2,134,228	3,174,335	3,950,561
사업용	117,147	159,603	242,607	342,269	486,288	671,185	931,793
자가용	366,772	418,716	491,536	583,455	644,818	852,615	1,034,684
풍력	362,445	414,258	481,558	573,458	634,338	841,937	1,023,950
사업용	4,327	4,458	9,978	9,997	10,480	10,678	10,734
자가용	1,622,681	1,719,300	1,747,000	1,754,508	1,768,864	1,771,582	1,789,896
수력 ¹	1,621,190	1,717,499	1,745,144	1,751,853	1,766,109	1,768,827	1,788,126
사업용	1,491	1,801	1,856	2,655	2,755	2,755	1,770
자가용	1,000	255,000	255,110	255,110	255,110	255,110	255,110
해양	1,000	255,000	255,110	255,110	255,110	255,110	255,110
사업용	119,360	143,150	411,313	937,701	1,513,962	1,603,937	1,905,946
자가용	77,152	97,962	364,985	873,968	1,447,578	1,537,553	1,860,096
바이오 ²	42,208	45,188	46,328	63,733	66,384	66,384	45,850
바이오가스	8,986	11,136	15,666	21,918	35,128	37,803	49,041
사업용	3,187	3,357	7,887	12,689	23,248	25,923	39,621
자가용	5,799	7,779	7,779	9,229	11,880	11,880	9,420
매립지가스	58,455	58,455	59,479	63,655	66,515	66,515	70,130
사업용	58,455	58,455	59,479	62,655	65,515	65,515	70,130
자가용	-	-	-	1,000	1,000	1,000	-
우드칩 ³	11,104	11,104	11,104	26,059	27,499	30,449	52,490
사업용	11,060	11,060	11,060	26,015	27,455	30,405	52,490
자가용	44	44	44	44	44	44	-
목재펠릿 ³	-	20,640	201,851	616,576	770,138	770,699	986,048
사업용	-	20,640	200,711	615,435	768,997	769,558	986,048
자가용	-	-	1,140	1,140	1,140	1,140	-
폐목재	2,950	2,950	2,950	17,905	17,905	17,905	-
사업용	2,950	2,950	2,950	2,950	2,950	2,950	-
자가용	-	-	-	14,955	14,955	14,955	-
흑액	36,365	36,365	36,365	36,365	36,365	36,365	36,430
자가용	36,365	36,365	36,365	36,365	36,365	36,365	36,430
하수슬러지 고품연료	-	-	81,398	120,306	120,306	120,306	123,238
사업용	-	-	81,398	120,306	120,306	120,306	123,238
Bio-SRF ³	1,500	2,500	2,500	34,917	83,886	163,325	229,219
사업용	1,500	1,500	1,500	33,917	82,886	162,325	229,219
자가용	-	1,000	1,000	1,000	1,000	1,000	-
바이오중유	-	-	-	-	356,220	360,570	359,350
사업용	-	-	-	-	356,220	360,570	359,350
폐기물 ²	4,129,541	4,136,739	4,151,214	4,722,996	5,030,856	5,078,806	3,793,908
사업용	870,228	870,528	884,788	1,455,556	1,746,666	1,780,701	1,759,904
자가용	3,259,313	3,266,211	3,266,426	3,267,440	3,284,190	3,298,105	2,034,004
폐가스 ⁴	4,026,340	4,026,340	4,026,355	4,557,955	4,793,055	4,820,305	3,476,480
사업용	816,780	816,780	816,780	1,348,380	1,583,480	1,599,980	1,548,100
자가용	3,209,560	3,209,560	3,209,575	3,209,575	3,209,575	3,220,325	1,928,380
산업폐기물	1,705	2,005	4,155	10,153	13,653	16,818	59,238
사업용	1,705	2,005	4,155	10,153	12,753	12,753	56,673
자가용	-	-	-	-	900	4,065	2,565
생활폐기물 ⁵	99,046	105,944	110,894	120,278	130,438	132,473	115,292
사업용	49,293	49,293	54,043	62,413	70,723	72,758	39,133
자가용	49,753	56,651	56,851	57,865	59,715	59,715	76,159
시멘트킬른보조연료	-	-	-	-	14,000	14,000	26,400
자가용	-	-	-	-	14,000	14,000	26,400
SRF ⁶	2,450	2,450	9,810	34,610	37,600	53,100	85,771
사업용	2,450	2,450	9,810	34,610	37,600	53,100	85,271
자가용	-	-	-	-	-	-	500
정제연료유 ⁴	-	-	-	-	42,110	42,110	30,727
사업용 ⁴	-	-	-	-	42,110	42,110	30,727
연료전지	37,633	57,840	60,843	128,670	164,956	171,317	218,064
사업용	36,450	56,100	58,900	126,360	162,400	168,400	214,520
자가용	1,183	1,740	1,943	2,310	2,556	2,917	3,544
IGCC ³	-	-	-	-	-	380,700	346,330
사업용	-	-	-	-	-	380,700	346,330

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

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

3. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류

4. 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정('19.10.01 시행)에 따라 폐기물에너지 중 폐가스, 정제연료유 보급용량 집계 제외

5. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

6. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

주 1. 각 연도별 산설 및 증설 용량임.

2. 보급년도는 자가용 준공, 사업용 상업운전개시 기준임

자료: 한국에너지공단

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

Unit: kW

2017	2018	2019	2020	2021	2022	2023	
16,304,748	19,870,125	24,152,458	25,974,393	30,211,816	33,234,434	37,370,626	Total
12,969,295	16,107,589	19,441,971	23,333,870	27,079,125	29,748,917	33,258,321	Business
3,335,453	3,762,536	4,710,487	2,640,523	3,132,691	3,485,517	4,112,305	Private
6,436,415	8,938,659	12,745,227	17,356,934	21,199,351	24,369,532	28,033,336	Solar photovoltaic
5,169,548	7,258,762	10,673,133	14,910,942	18,338,405	21,051,253	24,186,093	Business
1,266,867	1,679,897	2,072,094	2,445,992	2,860,946	3,318,279	3,847,242	Private
1,143,411	1,302,644	1,493,868	1,645,407	1,709,116	1,945,961	2,164,720	Wind power
1,130,166	1,289,354	1,480,555	1,632,055	1,695,655	1,932,395	2,151,064	Business
13,245	13,290	13,313	13,352	13,461	13,566	13,656	Private
1,794,121	1,797,764	1,809,488	1,807,291	1,821,374	1,813,392	1,816,585	Hydro power ¹
1,792,371	1,796,325	1,808,048	1,805,777	1,819,805	1,811,823	1,815,416	Business
1,750	1,439	1,439	1,514	1,569	1,569	1,169	Private
255,110	255,000	255,500	255,500	255,580	255,580	255,580	Ocean
255,110	255,000	255,500	255,500	255,580	255,580	255,580	Business
2,284,442	3,065,271	3,141,235	3,525,835	3,578,983	3,664,456	3,219,698	Bio ²
2,238,442	3,017,171	3,092,366	3,440,259	3,508,257	3,591,765	3,168,985	Business
46,000	48,100	48,869	85,576	70,726	72,691	50,713	Private
55,637	60,396	60,945	61,532	61,590	65,816	69,712	Bio gas
46,067	48,726	48,506	52,386	52,194	54,455	55,429	Business
9,570	11,670	12,439	9,146	9,396	11,361	14,283	Private
70,130	69,378	67,820	67,427	66,309	66,309	66,305	LFG
70,130	69,378	67,820	67,427	66,309	66,309	66,305	Business
-	-	-	-	-	-	-	Private
15,662	15,450	21,999	83,669	126,879	77,314	41,414	Wood chip ³
15,662	15,450	21,999	43,669	101,979	77,314	41,414	Business
-	-	-	40,000	24,900	-	-	Private
1,270,523	1,383,881	1,343,074	1,512,934	1,643,778	2,075,903	2,025,253	Wood pellet ³
1,270,523	1,383,881	1,343,074	1,512,934	1,643,778	2,075,903	2,025,253	Business
-	-	-	-	-	-	-	Private
-	-	-	-	-	-	-	Waste wood
-	-	-	-	-	-	-	Business
-	-	-	-	-	-	-	Private
36,430	36,430	36,430	36,430	36,430	36,430	36,430	Black liquor
36,430	36,430	36,430	36,430	36,430	36,430	36,430	Private
166,030	182,041	140,248	249,604	338,996	52,950	132,950	Sewage solid fuel
166,030	182,041	140,248	249,604	338,996	52,950	132,950	Business
310,680	338,345	450,369	563,890	424,651	369,384	453,284	Bio-SRF ³
310,680	338,345	450,369	563,890	424,651	344,484	453,284	Business
-	-	-	-	-	24,900	-	Private
359,350	979,350	1,020,350	950,350	880,350	394,350	394,350	Bio bunker
359,350	979,350	1,020,350	950,350	880,350	394,350	394,350	Business
3,794,445	3,813,059	3,888,166	422,064	507,374	473,322	471,702	Waste ²
1,790,428	1,800,956	1,321,683	338,193	333,288	407,221	286,883	Business
2,004,017	2,012,103	2,566,483	83,871	174,086	66,101	184,819	Private
3,475,180	3,475,180	3,505,480	-	-	-	-	Waste gas ⁴
1,548,100	1,548,100	1,022,900	-	-	-	-	Business
1,927,080	1,927,080	2,482,580	-	-	-	-	Private
65,630	62,200	100,197	109,608	199,435	168,042	163,442	Industrial wastes
60,502	56,186	94,183	105,794	105,701	152,128	64,908	Business
5,128	6,014	6,014	3,814	93,734	15,914	98,534	Private
107,762	108,142	120,952	173,520	173,020	167,813	173,393	Living wastes ⁵
38,953	36,133	50,063	100,463	100,163	121,626	91,603	Business
68,809	72,009	70,889	73,057	72,857	46,187	81,790	Private
-	-	-	-	-	-	-	Cement kiln fuel
-	-	-	-	-	-	-	Private
118,390	135,257	147,021	138,936	134,919	137,467	134,867	SRF ⁶
115,390	128,257	140,021	131,936	127,424	133,467	130,372	Business
3,000	7,000	7,000	7,000	7,495	4,000	4,495	Private
27,483	32,280	14,516	-	-	-	-	Refinery fuel oil ⁴
27,483	32,280	14,516	-	-	-	-	Business
250,474	351,398	472,644	615,031	793,708	891,860	1,062,675	Fuel cells
246,900	343,691	464,356	604,814	781,804	878,549	1,047,969	Business
3,574	7,707	8,288	10,217	11,904	13,311	14,706	Private
346,330	346,330	346,330	346,330	346,330	346,330	346,330	IGCC
346,330	346,330	346,330	346,330	346,330	346,330	346,330	Business

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

2. The issuance of RPS certificates for Bio and Waste co-firing power generation calculates the capacity by reflecting the blending ratio.

3. Since 2014, some of the wood chips and wood pellets have been classified as Bio-SRF.

4. The revision of 「Act on the promotion of the development, use and diffusion of new and renewable energy」 excludes the calculation of the waste gas and refinery fuel oil capacity from waste energy starting from 2020.

5. Since 2015, Municipal solid wastes has been classified as living wastes.

6. Since 2014, RDF/RPF/TDF have been surveyed for substitution with SRF.

Note 1. The new capacity represents the newly established and expanded capacity for each year.

2. The supply year is determined by the completion for private and the commencement of commercial operation for business.

Source: Korea Energy Agency

6. 신재생에너지 보급용량(발전외-신규)

	2010	2011	2012	2013	2014	2015	2016
태양열(㎡) ¹	69,805	54,732	63,775	48,473	32,043	29,033	28,972
지열(kW) ¹	89,226	73,515	123,838	121,465	124,915	174,347	127,349
수열(kW) ¹	-	-	-	-	-	48,509	39,005
바이오							
바이오가스(증기톤/시간) ¹	33	23	23	33	41	16	18
매립지가스(증기톤/시간) ¹	-	-	15	-	-	-	-
바이오디젤(kℓ/년) ²	1,104,400	1,204,400	1,204,400	1,177,468	887,087	854,687	854,687
우드칩(증기톤/시간) ^{1,6}	46	12	-	6	5	9	8
성형탄(톤/년) ³	54,888	58,551	56,802	55,992	59,349	37,685	36,744
임산연료(톤/년) ³	69,344	69,372	187,291	168,214	12,903	156,939	438,371
목재펠릿(증기톤/시간) ^{1,6}	0	72	127	128	469	75	962
폐목재(증기톤/시간) ¹	20	6	59	77	18	4	-
흑액(증기톤/시간) ¹	-	-	-	-	-	-	-
하수슬러지고형연료(증기톤/시간) ¹	2	-	1	4	3	40	-
Bio-SRF(증기톤/시간) ^{1,6}	-	70	18	6	44	-	-
폐기물							
폐가스(증기톤/시간) ^{1,8}	22	133	114	27	109	9	10
산업폐기물(증기톤/시간) ¹	139	253	255	171	145	102	23
생활폐기물(증기톤/시간) ^{1,7}	24	68	97	61	66	24	8
시멘트킬른보조연료(톤/년) ⁴	807,950	1,127,624	1,001,273	1,276,799	1,386,522	1,490,640	1,431,061
SRF(증기톤/시간) ^{1,5}	23	-	238	119	33	-	808
정제연료유(kℓ/년) ^{3,8}	273,087	273,579	246,097	204,924	201,656	173,877	170,625

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.

8. 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정(19.10.01 시행)으로 '20년부터 폐기물에너지 중 비재생폐기물인 폐가스, 정제연료유 보급용량 집계 제외
자료: 한국에너지공단

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

2017	2018	2019	2020	2021	2022	2023	
19,067	20,470	27,054	23,297	28,379	23,336	28,575	Solar Thermal(m ²) ¹
121,290	123,562	95,342	89,300	79,130	113,257	87,605	Geothermal(kW) ¹
58,778	59,095	36,770	78,111	46,402	71,160	42,730	Hydro thermal(kW) ¹
							Bio
49	17	34	13	12	7	49	Bio gas(steam ton/h) ¹
-	-	-	-	-	-	-	LFG(steam ton/h) ¹
1,008,630	2,283,370	1,441,330	1,237,630	1,259,230	1,325,880	1,277,580	Bio-diesel(kL/y) ²
31	50	48	-	35	-	35	Wood chip(steam ton/h) ^{1,6}
37,294	41,002	39,298	25,852	25,234	6,297	9,205	Wood briquette(ton/y) ³
2,301,934	2,396,789	457,174	499,748	336,035	554,966	741,298	Fire wood(ton/y) ³
187	27	34	-	14	10	5	Wood pellet(steam ton/h) ^{1,6}
39	-	-	-	-	-	-	Waste wood(steam ton/h) ¹
-	-	-	-	-	-	-	Black liquor(steam ton/h) ¹
5	-	-	-	-	-	-	Sewage solid fuel(steam ton/h) ¹
338	20	-	-	15	-	61	Bio-SRF(steam ton/h) ^{1,6}
							Waste
207	122	50	-	-	-	-	Waste gas(steam ton/h) ^{1,8}
569	31	107	15	75	106	189	Industrial wastes(steam ton/h) ¹
42	2	62	-	149	40	63	Living wastes(steam ton/h) ^{1,7}
1,490,397	1,597,882	1,676,440	1,711,594	2,025,596	2,519,747	3,227,127	Cement kiln fuel(ton/y) ⁴
437	131	-	-	102	-	34	SRF(steam ton/h) ^{1,5}
178,286	182,138	184,293	-	-	-	-	Refinery fuel oil(kL/y) ^{3,8}

1. The new capacity of each year.

2. Production capacity of each year.

3. Production(sales) of each year.

4. Consumption of each year.

5. Since 2014, RDF/RPF/TDF have been surveyed for substitution with SRF.

6. Since 2014, some of the wood chips and wood pellets have been classified as Bio-SRF.

7. Since 2015, Municipal solid wastes has been classified as living wastes.

8. The revision of 'Act on the promotion of the development, use and diffusion of new and renewable energy' excludes the calculation of the waste gas and refinery fuel oil capacity from waste energy starting from 2020.

Source: Korea Energy Agency

7. 신재생에너지 보급용량(발전외-누적)

	2010	2011	2012	2013	2014	2015	2016
태양열(㎡) ¹	1,376,027	1,163,980	723,680	673,220	625,649	614,343	626,048
지열(kW) ¹	233,828	307,343	431,181	552,646	677,561	851,907	979,221
수열(kW) ¹	-	-	-	-	-	48,509	87,513
바이오 ²							
바이오가스(증기톤/시간)	784	807	830	863	904	920	862
매립자가스(증기톤/시간)	28	28	43	43	43	43	44
우드칩(증기톤/시간) ⁴	393	405	405	411	416	425	425
목재펠릿(증기톤/시간) ⁴	76	148	275	403	872	947	1,568
폐목재(증기톤/시간)	183	189	248	325	343	347	362
흑액(증기톤/시간)	310	310	310	310	310	310	310
하수슬러지고형연료(증기톤/시간)	7	7	8	12	15	55	14
Bio-SRF(증기톤/시간) ⁴	4	74	92	98	142	142	202
폐기물 ²							
폐가스(증기톤/시간) ⁵	5,057	5,190	5,304	5,331	5,440	5,449	4,465
산업폐기물(증기톤/시간)	1,954	2,207	2,462	2,633	2,778	2,880	2,930
생활폐기물(증기톤/시간) ⁶	1,257	1,325	1,422	1,483	1,549	1,573	2,704
SRF(증기톤/시간) ³	66	66	304	423	456	456	1,488

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. 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정('19.10.01 시행)으로 '20년부터 폐기물에너지 중 비재생폐기물인 폐가스 보급용량 집계 제외

6. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

자료: 한국에너지공단

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

2017	2018	2019	2020	2021	2022	2023	
623,484	624,676	642,227	638,455	652,234	666,457	680,279	Solar Thermal(m ²) ¹
1,100,493	1,223,985	1,319,309	1,408,558	1,486,778	1,599,891	1,687,322	Geothermal(kW) ¹
146,292	205,386	242,156	320,267	366,669	437,829	480,559	Hydro thermal(kW) ¹
							Bio ²
691	640	625	625	644	705	723	Bio gas(steam ton/h)
44	44	44	152	147	147	147	LFG(steam ton/h)
367	409	392	438	436	515	280	Wood chip(steam ton/h) ⁴
1,715	1,742	1,706	2,134	2,068	2,122	2,091	Wood pellet(steam ton/h) ⁴
391	399	399	399	360	339	242	Waste wood(steam ton/h)
310	311	311	311	311	311	311	Black liquor(steam ton/h)
18	18	18	18	18	18	17	Sewage solid fuel(steam ton/h)
501	521	521	869	825	877	1,143	Bio-SRF(steam ton/h) ⁴
							Waste
4,503	4,748	4,783	-	-	-	-	Waste gas(steam ton/h) ⁵
3,444	3,418	3,513	3,796	3,728	3,993	4,020	Industrial wastes(steam ton/h)
2,687	2,689	2,747	2,961	3,100	3,314	3,323	Living wastes(steam ton/h) ⁶
1,835	1,961	1,871	2,188	2,199	2,496	2,427	SRF(steam ton/h) ³

1. Total is the simple sum of facility each year

2. It is operated facilities on each year.

3. Since 2014, RDF/RPF/TDF have been surveyed for substitution with SRF.

4. Since 2014, some of the wood chips and wood pellets have been classified as Bio-SRF.

5. The revision of 「Act on the promotion of the development, use and diffusion of new and renewable energy」 excludes the calculation of the waste gas capacity from waste energy starting from 2020.

6. Since 2015, Municipal solid wastes has been classified as living wastes.

Source: Korea Energy Agency

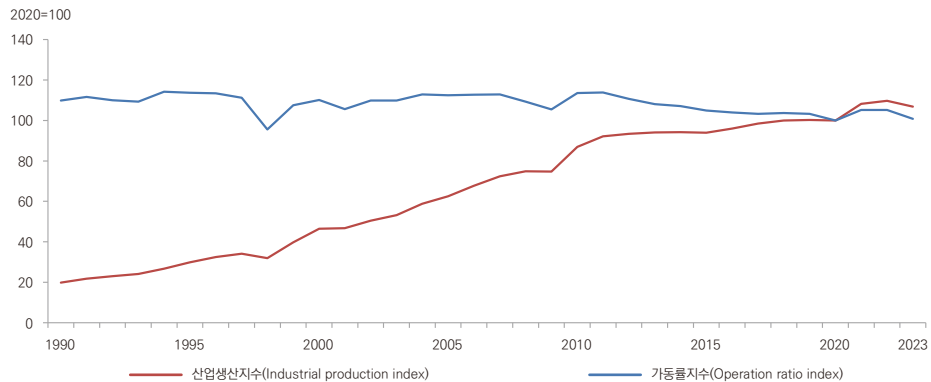
● 국내총생산, 경제성장률 GDP and Growth Rate of GDP

〈1990~2023〉



● 산업생산지수, 가동률지수 Industrial Production Index

〈1990~2023〉



● 수출입 Imports and Export

〈1990~2023〉



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	-	50,592	202,664	25.0
1982	39,326	1.56	-	58,429	219,826	26.6
1983	39,910	1.49	-	69,524	249,429	27.9
1984	40,406	1.24	-	80,396	275,960	29.1
1985	40,806	0.99	-	90,277	297,868	30.3
1986	41,214	1.00	-	105,745	332,132	31.8
1987	41,622	0.99	-	125,228	374,951	33.4
1988	42,031	0.98	-	150,300	420,444	35.7
1989	42,449	0.99	-	170,708	450,569	37.9
1990	42,869	0.99	-	206,713	495,738	41.7
1991	43,296	0.99	-	249,965	549,650	45.5
1992	43,748	1.04	-	286,437	584,561	49.0
1993	44,195	1.02	-	325,648	625,450	52.1
1994	44,642	1.01	-	384,997	684,066	56.3
1995	45,093	1.01	-	452,187	750,666	60.2
1996	45,525	0.96	-	507,768	810,647	62.6
1997	45,954	0.94	-	560,502	861,573	65.1
1998	46,287	0.72	-	556,787	819,021	68.0
1999	46,617	0.71	-	613,069	914,169	67.1
2000	47,008	0.84	14,507	675,733	998,289	67.7
2001	47,370	0.77	14,775	732,723	1,045,468	70.1
2002	47,645	0.58	15,110	813,225	1,126,429	72.2
2003	47,892	0.52	15,434	868,111	1,161,063	74.8
2004	48,083	0.40	15,732	942,885	1,221,249	77.2
2005	48,185	0.21	16,039	995,176	1,274,473	78.1
2006	48,438	0.53	16,322	1,045,663	1,341,320	78.0
2007	48,684	0.51	16,602	1,134,541	1,419,679	79.9
2008	49,055	0.76	16,883	1,202,973	1,462,332	82.3
2009	49,308	0.52	17,168	1,255,306	1,474,321	85.1
2010	49,554	0.50	17,495	1,379,460	1,577,253	87.5
2011	49,937	0.77	17,879	1,448,576	1,635,423	88.6
2012	50,200	0.53	18,119	1,504,674	1,677,088	89.7
2013	50,429	0.46	18,388	1,570,938	1,732,287	90.7
2014	50,747	0.63	18,705	1,638,485	1,787,975	91.6
2015	51,015	0.53	19,013	1,740,776	1,840,189	94.6
2016	51,218	0.40	19,281	1,833,027	1,898,551	96.5
2017	51,362	0.28	19,571	1,934,234	1,963,732	98.5
2018	51,585	0.43	19,876	2,006,975	2,026,102	99.1
2019	51,765	0.35	20,220	2,040,594	2,072,982	98.4
2020	51,836	0.14	20,731	2,058,467	2,058,467	100.0
2021	51,770	-0.13	21,271	2,221,913	2,153,423	103.2
2022	51,673	-0.19	21,663	2,323,782	2,212,159	105.0
2023	51,713	0.08	21,970	2,401,189	2,243,220	107.0

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	2020년 연쇄가격 At Chained 2020 Prices	성장율 Growth Rate		종가환율 Closing rate		
Bil. USD	Bil. KRW		%	USD	연평균 Average	연말 End of	
73	49,915	212,822	5.8	1,892	-	-	1981
79	57,900	233,904	9.9	2,013	-	-	1982
89	68,814	266,871	14.1	2,222	-	-	1983
98	79,284	295,190	10.6	2,434	-	-	1984
101	88,345	315,715	7.0	2,487	-	-	1985
117	103,531	360,212	14.1	2,850	-	-	1986
150	123,754	414,253	15.0	3,615	-	-	1987
204	149,170	470,221	13.5	4,858	-	-	1988
254	170,221	511,670	8.8	5,973	-	-	1989
292	206,512	560,880	9.6	6,804	712.1	716.7	1990
340	249,718	622,725	11.0	7,862	733.8	759.5	1991
366	286,069	661,776	6.3	8,374	781.1	786.9	1992
405	325,227	710,351	7.3	9,167	802.8	807.2	1993
478	384,058	777,416	9.4	10,706	803.5	788.5	1994
584	450,583	846,833	8.9	12,960	770.9	775.7	1995
629	506,047	904,244	6.8	13,812	805.1	844.9	1996
586	557,591	943,160	4.3	12,758	953.6	1,695.0	1997
393	549,834	872,464	-7.5	8,492	1,395.0	1,204.0	1998
510	606,546	967,269	10.9	10,939	1,188.7	1,138.0	1999
594	671,372	1,033,455	6.8	12,632.2	1,131.1	1,264.5	2000
564	727,938	1,073,365	3.9	11,904.8	1,291.0	1,313.5	2001
648	810,313	1,167,443	8.8	13,592.4	1,250.7	1,186.2	2002
726	865,189	1,198,481	2.7	15,156.8	1,191.9	1,192.6	2003
822	941,311	1,248,797	4.2	17,102.7	1,143.7	1,035.1	2004
965	988,413	1,282,430	2.7	20,026.2	1,024.1	1,011.6	2005
1,091	1,042,726	1,333,090	4.0	22,529.2	955.1	929.8	2006
1,218	1,131,778	1,407,233	5.6	25,019	929.2	936.1	2007
1,091	1,203,266	1,412,810	0.4	22,246.8	1,103.4	1,259.5	2008
982	1,253,438	1,449,570	2.6	19,915.9	1,276.4	1,164.5	2009
1,195	1,381,436	1,557,957	7.5	24,109.9	1,156.0	1,134.8	2010
1,315	1,457,173	1,584,315	1.7	26,333.5	1,108.0	1,151.8	2011
1,349	1,519,752	1,632,613	3.0	26,865.4	1,126.8	1,070.6	2012
1,443	1,580,504	1,696,556	3.9	28,621.1	1,095.0	1,055.4	2013
1,563	1,646,049	1,755,430	3.5	30,797.6	1,053.1	1,099.3	2014
1,543	1,745,962	1,870,222	6.5	30,247.3	1,131.5	1,172.5	2015
1,585	1,839,391	1,956,502	4.6	30,946.2	1,160.4	1,207.7	2016
1,717	1,941,717	2,019,724	3.2	33,430.5	1,130.5	1,070.5	2017
1,831	2,014,589	2,059,131	2.0	35,493.7	1,100.6	1,115.7	2018
1,765	2,057,204	2,072,357	0.6	34,093.7	1,166.1	1,156.4	2019
1,759	2,075,410	2,075,410	0.1	33,928.9	1,180.0	1,086.3	2020
1,962	2,245,327	2,154,357	3.8	37,898.3	1,144.6	1,188.8	2021
1,820	2,351,837	2,143,108	-0.5	35,229.1	1,292.2	1,264.5	2022
1,872	2,443,318	2,189,887	2.2	36,194.0	1,305.9	1,288.0	2023

Source: Statistics Korea, Bank of Korea

1. 주요 통계 지표(계속)

	수출	수입	경상수지	상품수지	외환보유액	총저축
	Export	Import	Current Account Balance	Goods Balance	International Reserves	Gross Saving
	Mil. USD					Bil. KRW
1981	21,254	26,131	-6,487	-6,265	6,891	12,689
1982	21,853	24,251	-5,631	-6,448	6,984	15,802
1983	24,445	26,192	-3,594	-4,464	6,910	21,352
1984	29,245	30,631	-1,847	-2,372	7,650	26,368
1985	30,283	31,136	-2,178	-2,351	7,749	29,576
1986	34,714	31,584	2,607	1,976	7,955	38,166
1987	47,281	41,020	8,631	5,779	9,193	49,848
1988	60,696	51,811	12,758	9,415	12,378	62,995
1989	62,377	61,465	3,766	2,410	15,245	66,911
1990	65,016	69,844	-2,804	-3,689	14,822	81,808
1991	71,870	81,525	-8,034	-7,153	13,733	98,801
1992	76,632	81,775	-2,901	-1,440	17,154	110,584
1993	82,236	83,800	1,688	2,683	20,262	125,658
1994	96,013	102,348	-4,794	-3,861	25,673	146,839
1995	125,058	135,119	-10,230	-7,004	32,712	171,274
1996	129,715	150,339	-24,461	-17,347	33,237	183,153
1997	136,164	144,616	-10,812	-6,745	20,405	202,235
1998	132,313	93,282	40,113	39,614	52,041	211,312
1999	143,685	119,752	21,785	25,446	74,055	218,573
2000	172,268	160,481	10,181	15,393	96,198	230,942
2001	150,439	141,098	2,165	9,407	102,821	237,112
2002	162,471	152,126	4,066	14,414	121,413	258,683
2003	193,817	178,827	11,308	22,138	155,352	287,843
2004	253,845	224,463	29,290	39,173	199,066	335,803
2005	284,419	261,238	12,209	32,493	210,391	337,699
2006	325,465	309,383	2,095	24,515	238,956	344,806
2007	371,489	356,846	10,473	32,436	262,224	380,866
2008	422,007	435,275	1,753	11,746	201,223	401,524
2009	363,534	323,085	33,088	48,056	269,995	417,639
2010	466,384	425,212	27,951	47,932	291,571	483,658
2011	555,214	524,413	16,638	28,014	306,402	499,139
2012	547,870	519,584	48,791	48,589	326,968	518,279
2013	559,632	515,586	77,259	80,259	346,460	544,154
2014	572,665	525,515	83,030	86,145	363,593	568,321
2015	526,757	436,499	105,119	120,275	367,962	625,189
2016	495,426	406,193	97,924	116,462	371,102	666,772
2017	573,694	478,478	75,231	113,593	389,267	706,477
2018	604,860	535,202	77,467	110,087	403,694	711,767
2019	542,233	503,343	59,676	79,812	408,816	701,071
2020	512,498	467,633	75,902	80,605	443,098	738,579
2021	644,400	615,093	85,228	75,731	463,118	815,799
2022	683,585	731,370	25,829	15,620	423,164	799,940
2023	632,226	642,572	35,488	34,092	420,148	817,586

자료: 통계청, 한국은행

1. Indicators of Major Statistics(Continued)

총투자 Gross Investment	총통화(연말) Money Supply (End of 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		2020=100	2020=100	
12,618	17,814	7.5	7.5	47.3	25.4	1981
15,790	24,414	7.8	7.8	49.5	27.3	1982
21,340	30,007	9.0	9.0	49.6	28.2	1983
26,282	35,704	10.4	10.4	50.0	28.8	1984
29,567	42,162	10.8	10.9	50.4	29.6	1985
38,151	54,620	13.1	13.2	49.7	30.4	1986
49,777	71,161	15.6	15.8	49.9	31.3	1987
62,920	92,387	17.7	17.9	51.3	33.5	1988
66,809	116,204	18.2	18.4	52.0	35.4	1989
81,721	145,604	19.8	19.9	54.2	38.5	1990
98,690	174,030	21.7	21.8	56.7	42.1	1991
110,451	211,469	23.0	23.0	58.0	44.7	1992
125,205	248,271	24.1	24.0	58.9	46.8	1993
146,750	300,658	26.7	26.6	60.5	49.8	1994
171,089	370,600	29.9	29.8	63.3	52.0	1995
182,934	432,316	32.5	32.3	65.3	54.6	1996
202,180	517,307	34.1	33.7	67.8	57.0	1997
210,488	639,664	31.9	31.5	76.1	61.3	1998
217,680	672,544	39.7	39.5	74.5	61.8	1999
229,955	707,699	46.4	46.3	76.1	63.2	2000
236,982	764,979	46.7	46.3	75.7	65.7	2001
258,437	872,076	50.4	50.1	75.5	67.5	2002
287,888	898,069	53.2	52.8	77.1	69.9	2003
335,012	954,723	58.8	58.5	81.8	72.4	2004
337,140	1,021,449	62.5	62.2	83.5	74.4	2005
344,266	1,149,262	67.7	67.6	84.3	76.1	2006
380,575	1,273,612	72.4	72.3	85.5	78.0	2007
401,223	1,425,888	74.8	74.7	92.8	81.7	2008
417,032	1,566,850	74.8	74.5	92.6	83.9	2009
483,658	1,660,530	86.9	87.0	96.2	86.4	2010
499,139	1,751,458	92.1	92.2	102.6	89.9	2011
518,279	1,835,642	93.4	93.4	103.3	91.8	2012
544,154	1,920,795	94.0	94.1	101.7	93.0	2013
568,321	2,077,234	94.2	94.3	101.1	94.2	2014
625,189	2,247,375	94.0	94.1	97.1	94.9	2015
666,772	2,407,459	96.0	96.2	95.3	95.8	2016
706,477	2,530,354	98.5	98.4	98.6	97.6	2017
711,767	2,700,362	99.9	99.8	100.4	99.1	2018
701,071	2,913,610	100.3	100.2	100.5	99.5	2019
738,579	3,199,836	100.0	100.0	100.0	100.0	2020
815,799	3,613,688	108.5	108.7	106.4	102.5	2021
799,940	3,758,236	109.6	109.7	115.3	107.7	2022
818,073	3,904,553	106.8	106.9	117.1	111.6	2023

Source: Statistics Korea, Bank of Korea

2. 경제활동별 국내 총생산(2020년 기준 연쇄가격)

단위: 십억 원

	농림어업 Agriculture, Forestry and Fisheries	광업 Mining & quarrying	제조업 Manufacturing	음식료품 제조업 Food, beverages products	섬유 및 가죽제품 제조업 Textile and leather products	목재, 종이, 인쇄 및 복제업 Wood and paper products, printing and reproduction of recorded media	코크스 및 석유정제품 제조업 Coke and refined petroleum products	화학물질 및 화학제품 제조업 Chemicals and chemical products
1981	19,099	4,205	31,505	6,773	12,284	2,931	3,478	6,015
1982	20,590	3,687	33,200	7,381	11,860	3,121	3,525	6,245
1983	22,507	3,940	38,901	8,049	12,666	3,703	3,721	6,951
1984	21,916	4,086	46,725	9,182	14,663	4,346	4,409	8,058
1985	23,219	4,292	50,145	9,685	15,430	4,546	4,641	8,895
1986	24,431	4,482	58,434	10,289	17,577	4,974	6,860	9,328
1987	23,366	4,434	70,309	10,879	20,305	5,796	5,515	11,389
1988	25,559	4,383	79,889	11,567	20,370	6,884	7,593	13,296
1989	25,521	4,212	83,468	11,830	19,241	7,866	7,044	14,151
1990	24,083	3,851	93,025	12,020	19,502	7,528	3,770	17,073
1991	24,852	3,924	106,445	13,231	19,015	8,192	12,726	17,602
1992	27,086	3,465	113,154	13,498	18,321	8,657	14,620	20,066
1993	25,941	3,452	121,346	14,005	16,611	8,720	18,213	21,420
1994	25,969	3,802	135,791	14,876	16,743	9,904	12,860	25,831
1995	27,746	3,740	153,983	15,173	16,037	10,328	13,513	29,414
1996	28,824	3,725	167,589	16,029	16,085	10,347	16,901	31,282
1997	30,065	3,674	177,930	16,281	16,503	10,852	31,177	32,570
1998	27,787	2,987	164,906	15,163	14,422	9,260	28,822	32,467
1999	29,223	3,190	197,154	15,592	17,764	10,946	25,986	37,693
2000	29,266	3,179	228,534	16,799	18,771	11,161	24,386	40,508
2001	29,374	3,220	235,202	16,812	18,764	10,790	23,884	43,713
2002	28,458	3,206	256,940	17,718	19,852	11,865	22,062	48,469
2003	26,710	3,287	269,225	17,468	18,143	11,748	22,653	48,633
2004	28,782	3,197	296,519	17,862	17,295	11,444	25,725	53,632
2005	28,958	3,129	311,370	17,824	17,476	11,525	24,314	54,811
2006	29,652	3,095	335,393	18,053	18,265	11,947	24,169	57,651
2007	31,172	2,880	361,881	18,414	18,842	12,073	21,686	61,696
2008	33,227	2,877	373,881	18,874	19,545	12,461	21,651	62,835
2009	34,759	2,811	367,654	18,437	18,405	13,040	18,205	65,183
2010	33,496	2,530	419,224	18,623	20,616	13,645	18,034	73,477
2011	33,149	2,209	440,819	18,484	20,825	13,772	18,747	75,416
2012	32,985	2,128	448,531	20,074	22,173	13,742	16,605	75,297
2013	34,374	2,222	464,239	21,971	22,986	13,711	15,930	78,470
2014	36,128	2,229	479,769	22,713	23,351	14,205	16,137	79,656
2015	36,036	2,025	488,241	23,139	21,683	14,210	16,051	82,686
2016	33,666	2,167	498,369	23,334	19,597	15,160	16,191	84,723
2017	34,087	2,069	519,574	24,369	19,911	14,369	15,806	87,699
2018	33,823	1,909	537,181	25,174	18,966	14,550	14,135	89,285
2019	34,809	1,795	539,843	26,389	17,681	14,353	11,162	88,822
2020	32,482	1,737	529,031	27,177	17,193	14,214	2,773	89,202
2021	33,599	1,975	563,295	28,567	16,743	14,383	8,175	91,237
2022	33,866	1,785	577,228	31,959	16,834	14,359	9,018	92,238
2023	32,973	1,809	587,009	31,471	16,221	13,640	9,022	92,388

자료: 한국은행

2. Gross Domestic Product by Economic Activity(At chained 2020 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	
1,491	3,810	2,051	858	629	1,391	2,505	2,023	1981
1,550	4,332	2,130	912	662	1,555	3,006	2,158	1982
2,013	4,944	2,880	1,190	890	2,061	3,754	2,603	1983
2,465	5,888	3,529	1,589	1,160	2,389	4,910	2,994	1984
2,640	6,421	4,287	1,647	1,175	2,585	5,491	3,094	1985
2,693	7,517	4,623	2,296	1,685	3,164	5,956	4,108	1986
3,102	9,028	4,592	3,268	2,416	4,211	7,302	5,164	1987
3,688	10,059	4,920	3,955	2,979	4,727	8,792	5,704	1988
4,110	11,021	5,994	4,012	3,018	5,276	9,290	5,789	1989
5,420	12,248	7,134	4,654	3,500	6,015	11,803	5,907	1990
5,975	13,097	8,680	4,991	3,695	7,335	13,726	6,200	1991
6,506	14,242	7,448	5,368	3,974	7,433	15,883	5,899	1992
6,576	14,561	9,892	6,138	4,524	8,170	18,022	5,958	1993
6,874	15,310	11,401	7,492	5,458	10,344	21,638	5,995	1994
6,437	17,600	13,330	9,839	6,391	13,899	24,029	5,943	1995
7,216	18,193	15,453	10,547	7,584	16,073	27,903	6,092	1996
7,095	18,445	16,323	10,895	8,287	16,419	29,625	6,105	1997
5,522	16,715	14,330	13,803	7,668	10,686	21,988	5,187	1998
6,764	18,595	15,983	17,666	10,356	14,063	29,001	6,016	1999
7,619	20,193	18,827	23,585	13,460	17,591	33,874	6,786	2000
8,071	21,282	19,020	25,203	13,555	17,196	34,355	6,300	2001
8,245	23,130	20,289	28,772	15,018	19,754	37,310	6,509	2002
8,712	22,950	22,816	32,587	16,073	21,693	38,910	6,651	2003
8,856	25,316	25,606	39,468	17,099	23,935	42,651	6,301	2004
8,814	25,314	28,555	43,605	18,297	25,605	46,062	6,635	2005
9,085	24,447	29,842	50,382	19,529	28,179	52,988	7,241	2006
9,473	25,466	32,403	57,823	20,819	30,922	58,813	8,008	2007
9,844	23,432	29,535	62,337	21,184	33,162	64,790	8,436	2008
9,949	23,388	26,842	66,200	22,200	30,725	55,786	8,332	2009
10,712	27,305	30,144	78,670	26,467	37,282	63,217	8,841	2010
10,720	28,321	31,270	85,696	26,709	39,650	69,132	9,413	2011
10,402	27,361	33,807	89,417	27,483	41,040	68,491	10,141	2012
11,007	28,059	33,268	95,242	28,631	42,068	69,328	10,765	2013
10,978	29,793	35,510	100,145	29,561	42,998	69,398	12,072	2014
11,583	29,915	38,373	103,763	28,383	43,174	68,447	13,009	2015
12,185	29,914	38,399	113,271	26,722	41,718	69,150	12,589	2016
13,524	30,533	38,522	121,003	29,782	49,983	64,497	13,820	2017
13,530	29,564	38,039	135,656	31,571	50,027	63,936	14,291	2018
12,786	29,956	37,716	142,236	31,970	49,502	64,434	12,898	2019
12,318	29,103	35,445	150,008	31,875	49,295	57,779	12,651	2020
12,335	27,581	30,688	169,273	35,120	55,209	61,377	12,606	2021
11,819	22,710	26,841	180,095	36,964	58,725	68,142	12,187	2022
11,012	22,845	26,710	189,702	36,990	56,374	75,250	11,533	2023

Source: Bank of Korea

2. 경제활동별 국내 총생산(2020년 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	1,830	25,845	110,803	31,057	8,605	3,880	16,275	1,418
1982	1,943	29,850	121,533	33,977	9,501	4,261	18,587	1,540
1983	2,524	36,286	133,654	37,220	10,110	4,719	20,821	1,815
1984	3,198	38,303	145,859	39,951	10,992	5,524	21,638	2,186
1985	3,842	40,352	158,634	42,323	11,450	6,746	23,662	2,401
1986	4,871	41,790	175,457	47,962	12,187	7,778	25,620	2,665
1987	5,474	45,981	196,948	53,965	13,466	9,877	27,854	3,144
1988	6,023	49,796	221,860	60,208	14,929	12,813	31,085	3,674
1989	6,732	55,931	242,734	64,748	15,888	14,817	33,936	4,362
1990	7,861	69,256	265,754	70,328	17,312	16,290	37,184	5,185
1991	8,730	77,289	293,738	76,702	18,751	18,932	41,387	6,152
1992	9,845	76,003	317,346	80,751	20,014	21,390	45,460	7,025
1993	11,105	82,761	343,890	86,169	20,567	25,141	49,895	7,992
1994	12,590	86,571	376,248	93,071	22,211	28,025	54,794	9,666
1995	13,488	91,158	410,290	99,847	24,328	31,874	60,062	11,377
1996	14,970	97,045	443,386	106,389	26,312	33,685	65,997	13,781
1997	16,412	97,921	476,377	110,389	28,945	34,792	73,881	15,962
1998	16,576	86,709	467,021	100,899	27,445	33,169	80,412	16,797
1999	18,366	80,225	513,657	117,692	32,051	35,847	84,371	21,015
2000	20,431	76,445	554,190	127,392	35,762	35,267	92,042	27,428
2001	21,677	80,596	585,737	134,101	37,643	38,253	94,546	32,815
2002	23,529	83,641	635,774	141,938	39,190	47,364	97,513	38,384
2003	24,543	91,105	651,045	138,354	39,934	47,169	100,817	40,947
2004	26,252	92,890	672,212	138,713	42,242	47,102	104,935	44,763
2005	28,195	93,000	703,075	141,427	43,951	50,239	110,054	49,133
2006	29,134	93,852	737,213	146,941	46,070	52,567	114,648	51,616
2007	30,340	96,250	780,807	155,238	49,401	59,164	117,486	53,454
2008	31,845	93,132	810,694	158,341	52,250	62,884	121,836	55,484
2009	33,635	94,542	824,841	158,213	50,205	66,531	123,018	57,398
2010	35,171	91,098	866,598	169,052	57,341	68,609	123,826	59,489
2011	35,655	86,752	899,788	176,932	60,348	70,259	127,563	62,559
2012	36,612	86,422	930,436	183,975	64,083	73,757	128,315	64,846
2013	36,149	90,260	963,220	190,956	65,562	76,791	128,856	68,188
2014	37,427	91,965	992,236	193,601	67,136	81,354	133,279	69,212
2015	39,952	97,544	1,023,286	199,431	68,980	87,195	136,409	70,109
2016	39,796	107,973	1,058,132	205,088	69,837	88,583	142,831	74,395
2017	42,052	115,098	1,088,066	209,812	72,166	92,106	147,477	77,209
2018	41,538	112,698	1,133,653	215,947	75,569	97,218	152,403	81,243
2019	43,129	110,744	1,176,690	224,177	77,008	100,168	155,442	85,576
2020	45,605	110,255	1,171,666	214,871	66,604	110,016	161,030	89,215
2021	46,403	109,318	1,222,603	219,693	73,635	117,412	163,741	97,514
2022	48,020	110,255	1,269,071	231,974	82,748	120,646	160,448	99,787
2023	46,649	113,618	1,295,453	228,939	92,819	121,705	160,759	100,881

자료: 한국은행

2. Gross Domestic Product by Economic Activity(At chained 2020 year prices)(Continued)

Unit: Billion Won

사업서비스업 Business activities	공공행정, 국방 및 사회보장 Public administration, defence and social security	교육서비스업 Education	의료, 보건업 및 사회복지서비스업 Medical, 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)	
6,503	24,244	24,114	4,406	5,357	185,478	202,664	1981
7,216	25,557	25,942	5,672	5,774	200,902	219,826	1982
8,562	27,077	27,287	7,336	6,495	226,781	249,429	1983
10,160	27,953	28,751	9,210	7,437	250,624	275,960	1984
12,060	29,395	30,205	11,493	8,470	270,873	297,868	1985
14,275	31,155	31,827	12,546	9,498	302,042	332,132	1986
17,658	33,078	33,320	13,425	10,517	339,509	374,951	1987
21,088	35,428	34,994	14,925	11,639	380,772	420,444	1988
24,123	37,985	36,847	16,149	13,092	407,811	450,569	1989
27,563	40,713	39,012	17,603	14,394	447,545	495,738	1990
32,003	43,677	40,691	19,486	16,014	497,101	549,650	1991
35,622	46,759	42,510	21,058	17,421	530,136	584,561	1992
38,950	49,924	44,224	22,657	19,013	568,757	625,450	1993
43,602	52,598	46,209	25,058	21,623	620,826	684,066	1994
48,595	54,797	48,134	27,149	24,098	681,183	750,666	1995
53,332	58,449	49,877	28,368	26,537	735,304	810,647	1996
59,246	61,973	51,432	30,632	28,741	782,149	861,573	1997
54,385	64,369	51,114	29,543	26,925	746,767	819,021	1998
55,675	67,931	52,770	31,265	30,085	830,274	914,169	1999
60,922	68,903	54,389	31,264	32,903	905,712	998,289	2000
63,535	70,335	57,436	30,088	35,778	947,783	1,045,468	2001
70,376	72,634	61,033	32,271	39,927	1,023,567	1,126,429	2002
76,391	75,211	64,434	34,443	39,547	1,056,314	1,161,063	2003
79,786	78,056	66,791	36,725	39,265	1,111,882	1,221,249	2004
83,432	81,403	68,777	39,357	40,703	1,160,377	1,274,473	2005
89,024	84,818	72,215	41,970	43,321	1,222,059	1,341,320	2006
96,246	87,552	74,783	45,797	46,287	1,297,657	1,419,679	2007
101,188	89,822	77,556	47,690	47,651	1,341,155	1,462,332	2008
101,712	93,532	78,420	51,542	47,997	1,352,853	1,474,321	2009
109,257	96,576	79,866	55,163	50,578	1,446,671	1,577,253	2010
113,717	99,460	82,041	59,046	50,657	1,499,369	1,635,423	2011
116,234	103,021	83,657	63,430	50,910	1,538,318	1,677,088	2012
124,016	105,567	85,700	67,563	51,311	1,591,989	1,732,287	2013
130,492	108,619	86,198	72,567	51,038	1,641,589	1,787,975	2014
137,233	111,737	86,636	76,074	50,425	1,688,389	1,840,189	2015
142,040	114,483	87,579	81,842	52,496	1,740,196	1,898,551	2016
144,385	117,515	88,424	87,351	52,463	1,801,131	1,963,732	2017
150,911	121,395	90,659	94,719	54,447	1,861,421	2,026,102	2018
156,316	126,186	91,936	104,356	56,332	1,907,158	2,072,982	2019
156,653	129,851	90,436	106,035	46,955	1,890,776	2,058,467	2020
159,604	134,868	95,484	112,371	48,283	1,977,193	2,153,423	2021
163,453	139,003	98,708	119,255	52,244	2,040,141	2,212,159	2022
166,386	142,043	99,516	124,697	56,120	2,079,116	2,243,220	2023

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
2022	114,314	25,503,078	20,952,759	723,961	3,696,317	130,041
2023	115,878	25,949,201	21,390,202	694,574	3,726,400	138,025

주: 자동차 대수는 이론차 제외
 자료: 국토교통부, 코레일

3. Transport Facilities and Equipments

철도키로 Railway	차량보유 Rolling Stock					항공기 Aircraft	선박 Vessels	
	고속차량 Express Train		기관차 Locomotive	동차 Diesel Rail Car	전동차 Electric Rail Car			
	KTX	SRT						
km	대(Each)					대(Unit)	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	-	519	397	2,381	590	13,060	2012
3,588	1,160	-	495	303	2,449	623	13,585	2013
3,590	1,160	-	509	204	2,458	655	13,918	2014
3,874	1,380	-	492	201	2,410	724	13,392	2015
3,979	1,420	100	483	178	2,546	761	13,067	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	12,700	2020
4,131	1,644	100	401	121	2,566	807	14,392	2021
4,131	1,644	100	395	80	2,699	818	16,872	2022
4,148	1,644	100	383	41	2,948	838	20,023	2023

Note: Excluding the two-wheeled vehicles

Source: Minister of Land, Infrastructure and Transport, KORAILL

4. 수송 실적

	여객 Passengers								
	공로 ¹ Highway ¹	철도 ² Railways ²	지하철 Subway	해운 Shipping	내항 Coastal	외항 Oversea	항공 Aircraft	국내선 Domestic Lines	국제선 International Lines
	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	10,410,069	837,268	2,235,221	10,701	9,702	999	41,967	22,515	19,452
2001	9,936,126	850,971	2,527,099	10,415	9,340	1,075	42,162	21,811	20,351
2002	9,783,595	851,716	2,012,386	10,713	9,460	1,253	43,965	21,248	22,717
2003	9,404,764	894,621	1,982,192	11,715	10,336	1,380	42,839	21,380	21,459
2004	9,169,560	921,223	2,033,411	12,470	10,648	1,822	45,824	18,893	26,931
2005	8,801,840	950,995	2,020,360	13,205	11,100	2,105	46,842	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	2,141,872	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
2021	30,168,830	1,170,749	2,759,948	11,464	11,464	-	36,356	33,147	3,209
2022	31,954,532	1,362,259	3,112,597	13,991	13,991	-	55,828	36,328	19,500

1. 2011년부터 승용차 통계 포함

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

3. 비영업용 화물차 포함

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

자료: 국토교통부, 코레일

4. Transport Performance

화물 Freight								
공로 ³ Highway ³	철도 Railways	해운 Shipping			항공 Aircraft	국내선 Domestic Lines	국제선 International Lines	
			내항 Coastal	외항 Oversea				
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
1,848,182	26,780	1,467,700	115,125	1,352,575	3,625	205	3,420	2021
1,785,562	23,623	1,429,674	122,032	1,307,642	3,550	229	3,320	2022

1. Including car from 2011

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

3. Including non-business trucks

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

Source: Minister of Land, Infrastructure and Transport, KORAIL

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

주: 원자료 제공기관의 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	식품· 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
2022	107.7	112.2	102.6	103.7	107.2	115.7	106.8	100.8
2023	111.6	118.3	103.6	110.7	112.6	138.7	112.6	102.4

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
116.7	103.8	100.0	103.3	102.2	110.5	108.3	2022
112.7	107.3	101.0	107.1	104.2	117.2	114.6	2023

Source: Statistics Korea

8. 생산자 물가지수

2020=100

	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	47.3	55.6	22.4	22.4	55.6	53.5	-	-
1982	49.5	58.5	22.6	24.9	58.5	58.0	-	-
1983	49.6	58.3	23.2	25.6	58.3	56.6	-	-
1984	50.0	58.7	23.3	27.1	58.7	56.3	-	-
1985	50.4	58.6	24.6	28.5	58.6	56.3	-	-
1986	49.7	57.6	24.4	30.0	57.6	54.6	-	-
1987	49.9	58.1	24.1	31.9	58.1	52.8	-	-
1988	51.3	58.5	28.1	33.0	58.5	48.3	-	-
1989	52.0	59.3	29.0	33.7	59.3	45.3	-	-
1990	54.2	60.7	33.2	34.9	60.7	42.7	-	-
1991	56.7	63.1	37.1	38.0	63.1	43.3	-	-
1992	58.0	64.2	38.4	38.5	64.2	46.3	-	-
1993	58.9	65.1	39.0	38.5	65.1	46.9	-	-
1994	60.5	66.1	43.8	39.5	66.1	47.1	-	-
1995	63.3	69.3	45.4	39.4	69.3	48.8	59.1	50.0
1996	65.3	70.8	46.2	39.8	70.8	51.0	63.1	52.9
1997	67.8	73.1	47.0	40.5	73.1	53.5	66.6	55.3
1998	76.1	83.9	48.8	43.7	83.9	59.4	71.9	64.1
1999	74.5	81.0	53.8	44.3	81.0	58.9	70.7	63.9
2000	76.1	82.9	52.4	45.3	82.9	64.0	71.8	66.1
2001	75.7	81.1	54.3	45.8	81.1	68.5	72.7	67.7
2002	75.5	79.7	55.7	49.6	79.7	66.7	74.3	70.0
2003	77.1	81.1	58.9	50.2	81.1	68.6	76.0	72.7
2004	81.8	87.3	66.0	54.1	87.3	69.3	78.2	76.9
2005	83.5	90.1	63.6	57.8	90.1	69.8	79.3	77.9
2006	84.3	90.1	62.0	56.5	90.1	74.3	81.1	79.9
2007	85.5	90.9	63.7	60.4	90.9	76.7	83.0	82.0
2008	92.8	101.9	64.4	65.9	101.9	79.7	85.1	87.0
2009	92.6	100.1	70.0	72.2	100.1	83.8	86.0	88.5
2010	96.2	104.4	76.3	80.1	104.4	86.8	87.5	89.4
2011	102.6	113.8	82.0	81.8	113.8	91.8	89.7	90.4
2012	103.3	113.3	82.7	84.6	113.3	98.3	91.1	92.7
2013	101.7	109.9	77.7	86.6	109.9	103.6	91.3	93.3
2014	101.1	107.6	78.2	88.5	107.6	109.1	92.7	94.8
2015	97.1	100.4	80.0	88.8	100.4	101.9	93.8	94.3
2016	95.3	96.8	84.7	92.3	96.8	96.1	94.8	94.6
2017	98.6	101.5	90.2	96.9	101.5	97.5	96.1	95.6
2018	100.4	103.7	93.4	101.6	103.7	98.0	97.5	97.0
2019	100.5	102.6	91.3	102.3	102.6	100.3	98.7	98.9
2020	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2021	106.4	110.4	108.1	106.5	110.4	100.6	102.3	103.2
2022	115.3	123.3	109.3	118.8	123.3	121.6	105.5	109.9
2023	117.1	122.2	112.6	131.0	122.2	140.9	108.1	110.7

자료: 통계청

8. Producer Price Indices

2020=100

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
53.4	84.5	92.9	65.4	33.6	73.8	-	-	-	1995
59.3	88.2	94.0	68.5	40.2	73.7	-	-	-	1996
62.8	90.8	93.4	71.7	45.3	78.6	-	-	-	1997
64.2	93.3	90.6	72.4	48.5	92.4	-	-	-	1998
64.9	94.5	97.7	70.4	47.6	80.8	-	-	-	1999
67.8	95.5	97.5	70.3	49.2	78.1	-	-	-	2000
72.4	96.3	93.3	71.4	51.3	75.3	-	-	-	2001
76.7	96.6	96.2	73.1	54.2	73.4	-	-	-	2002
76.7	96.1	96.5	75.5	57.3	71.9	-	-	-	2003
73.8	95.4	101.8	77.2	60.9	71.8	-	-	-	2004
73.4	95.4	107.0	77.8	63.1	70.9	-	-	-	2005
73.8	96.3	114.5	78.7	65.2	72.6	-	-	-	2006
74.0	96.8	122.5	80.4	66.9	74.0	-	-	-	2007
74.9	97.3	113.4	82.8	73.8	76.5	-	-	-	2008
75.8	98.1	108.2	84.9	76.1	77.2	-	-	-	2009
77.4	98.4	111.9	86.0	80.5	78.5	77.5	85.9	79.7	2010
82.5	98.4	114.8	87.9	83.1	80.6	80.2	87.7	82.7	2011
84.6	98.0	111.5	89.9	85.0	82.8	83.7	88.6	85.2	2012
86.0	97.2	105.0	91.6	85.0	83.8	86.9	89.9	86.7	2013
87.6	98.2	106.1	93.0	85.2	85.2	88.8	91.7	88.7	2014
89.4	99.4	106.8	94.4	87.3	87.3	90.7	93.0	90.3	2015
91.4	99.9	104.3	95.9	89.7	88.8	92.6	94.5	91.8	2016
93.5	99.9	105.1	97.3	92.6	90.4	93.9	96.3	94.0	2017
96.5	99.0	103.6	98.2	94.4	94.3	96.2	98.9	97.0	2018
98.9	98.6	99.6	99.0	97.8	97.1	98.2	100.0	98.7	2019
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2020
102.5	101.3	106.3	101.0	103.1	101.6	101.6	101.1	101.9	2021
110.3	102.1	99.9	102.0	106.5	105.9	104.1	106.0	106.7	2022
117.2	103.5	99.2	103.0	108.9	108.7	107.1	110.0	113.7	2023

Source: Statistics Korea

9. 특수 분류별 생산자 물가지수

2020=100

	총지수 All Items	식료품 Foods	식료품 이외 Excluding Foods	신선식품 Fresh Foods	신선식품 이외 Excluding Fresh Foods
1981	47.3	27.1	52.1	12.4	49.5
1982	49.5	27.3	55.3	11.4	52.0
1983	49.6	27.6	55.1	11.9	52.1
1984	50.0	27.7	55.6	12.0	52.4
1985	50.4	28.8	55.5	13.1	52.7
1986	49.7	28.8	54.5	13.1	51.9
1987	49.9	28.4	55.0	12.9	52.2
1988	51.3	31.1	55.4	17.1	53.0
1989	52.0	32.2	55.9	18.6	53.6
1990	54.2	35.8	56.9	21.3	55.5
1991	56.7	38.7	59.1	26.1	57.7
1992	58.0	40.4	60.1	27.3	58.9
1993	58.9	41.0	61.0	27.1	59.9
1994	60.5	44.5	61.9	34.2	60.9
1995	63.3	46.1	64.9	34.0	63.9
1996	65.3	47.5	67.1	32.4	66.1
1997	67.8	48.8	69.7	35.9	68.5
1998	76.1	54.4	78.3	36.6	77.1
1999	74.5	56.8	76.0	39.1	75.3
2000	76.1	55.4	78.1	36.2	77.1
2001	75.7	56.7	77.5	38.0	76.6
2002	75.5	57.8	77.1	40.5	76.3
2003	77.1	60.4	78.6	44.9	77.8
2004	81.8	65.6	83.1	52.4	82.3
2005	83.5	65.1	85.2	50.4	84.2
2006	84.3	64.4	86.1	50.3	85.0
2007	85.5	66.1	87.2	54.1	86.1
2008	92.8	69.2	95.0	48.6	93.8
2009	92.6	75.2	94.1	57.7	93.3
2010	96.2	79.6	97.5	73.7	96.5
2011	102.6	85.1	104.0	73.4	103.1
2012	103.3	87.3	104.6	81.5	103.6
2013	101.7	85.4	102.9	72.1	102.1
2014	101.1	86.1	102.3	68.8	101.7
2015	97.1	87.3	97.8	72.0	97.5
2016	95.3	90.2	95.7	86.8	95.4
2017	98.6	94.2	98.9	90.5	98.7
2018	100.4	96.0	100.8	92.6	100.6
2019	100.5	95.0	100.9	87.2	100.7
2020	100.0	100.0	100.0	100.0	100.0
2021	106.4	105.9	106.4	101.9	106.4
2022	115.3	110.2	115.7	106.5	115.4
2023	117.1	115.6	117.2	116.6	117.1

자료: 통계청

9. Producer Price Indices by Special Classification

2020=100

에너지 Energy	에너지 이외 Excluding Energy	IT Information Technology	IT 이외 Excluding IT	식료품·에너지 이외 Excluding Foods and Energy	산선식품·에너지 이외 Excluding Fresh Foods and Energy	
34.3	48.5	-	-	-	-	1981
37.7	50.1	-	-	-	-	1982
36.3	50.7	-	-	-	-	1983
35.7	51.4	-	-	-	-	1984
35.9	51.9	-	-	-	-	1985
32.5	51.8	-	-	-	-	1986
31.4	52.4	-	-	-	-	1987
27.6	54.9	-	-	-	-	1988
25.9	56.2	-	-	-	-	1989
25.5	58.9	-	-	-	-	1990
26.5	61.8	-	-	-	-	1991
28.2	62.8	-	-	-	-	1992
29.4	63.6	-	-	-	-	1993
29.4	65.5	-	-	-	-	1994
30.9	68.6	285.6	51.8	-	-	1995
34.8	70.3	264.1	54.2	-	-	1996
41.1	72.1	241.1	57.0	-	-	1997
53.4	79.7	245.4	64.6	-	-	1998
51.5	78.2	227.9	63.5	-	-	1999
59.2	78.7	215.2	65.3	81.3	79.9	2000
63.3	77.7	187.2	66.5	80.0	78.8	2001
63.0	77.5	169.4	67.3	79.6	78.5	2002
67.7	78.8	155.6	69.8	80.5	79.6	2003
72.9	83.4	151.1	74.8	85.0	84.0	2004
79.0	84.5	142.5	77.1	86.4	85.3	2005
86.3	84.6	133.3	79.0	86.6	85.4	2006
89.7	85.6	124.6	81.4	87.5	86.3	2007
107.1	91.8	123.4	89.7	94.1	92.8	2008
100.2	92.3	121.7	89.7	93.9	93.1	2009
109.1	95.3	119.2	93.9	96.6	95.6	2010
124.8	101.0	116.9	101.1	102.3	101.5	2011
132.7	101.1	114.7	102.0	102.2	101.4	2012
133.5	99.3	111.8	100.5	100.4	99.7	2013
132.6	98.7	109.6	100.2	99.8	99.3	2014
110.3	96.1	108.0	95.8	96.8	96.5	2015
98.9	95.1	104.1	94.3	95.5	95.2	2016
105.8	98.1	105.2	97.9	98.4	98.2	2017
111.1	99.7	101.8	100.3	100.0	99.8	2018
111.4	99.7	99.5	100.6	100.1	99.9	2019
100.0	100.0	100.0	100.0	100.0	100.0	2020
111.3	106.0	103.4	106.7	106.0	106.1	2021
154.6	112.6	103.1	116.8	112.8	112.7	2022
162.9	113.9	101.4	119.0	113.8	113.9	2023

Source: Statistics Korea

10. 주요 에너지 제품별 생산자 물가지수

2020=100

	무연탄	코크스	연탄	납사	휘발유	제트유	등유	경유	중유	빙커C유	프로판	부탄가스	윤활유
	Anthracite	Coke	Briquets	Naphtha	Gasoline	Jet oil	Kerosene	Diesel	Bunker B	Bunker C	Propane	Butane	Lubricants
1981	15.0	12.1	18.4	43.3	64.7	67.7	36.5	25.7	18.7	26.9	69.7	68.4	24.8
1982	17.3	13.5	21.0	39.3	69.5	71.0	41.9	29.5	20.5	29.1	70.1	68.7	24.8
1983	17.9	13.5	21.3	38.3	61.4	71.0	41.9	29.5	19.8	27.2	60.0	59.1	24.8
1984	18.5	13.5	21.3	41.2	60.4	71.0	41.7	29.3	19.4	26.0	60.2	59.1	24.8
1985	19.6	13.5	22.1	40.5	60.4	71.0	41.7	29.3	19.3	25.8	60.2	59.1	24.9
1986	20.8	14.0	23.5	24.3	53.4	59.8	35.0	24.8	15.9	20.4	44.6	43.8	24.1
1987	22.1	14.1	24.7	26.0	50.6	55.2	32.8	23.2	14.8	18.7	39.3	38.6	23.5
1988	23.3	14.1	25.8	21.0	39.3	42.7	26.4	18.8	11.7	14.1	28.5	28.0	23.4
1989	23.8	14.1	26.2	22.1	32.7	36.7	25.1	17.9	10.6	11.8	24.0	23.5	22.7
1990	23.8	14.1	26.2	30.1	32.9	41.0	25.7	17.9	10.6	11.7	24.0	23.6	23.4
1991	23.8	14.2	26.2	31.9	42.5	39.5	31.5	17.9	10.4	11.3	23.3	22.9	27.1
1992	23.8	14.4	26.2	29.8	49.7	34.7	32.5	19.6	11.1	11.6	23.7	23.3	27.1
1993	23.8	14.7	26.2	27.3	54.6	35.6	35.0	21.1	11.8	12.1	24.4	24.0	27.1
1994	23.8	14.7	26.2	24.1	52.5	30.7	34.2	22.2	12.9	12.0	23.9	23.5	27.1
1995	23.8	14.7	26.2	26.0	53.2	30.4	35.6	23.6	14.7	15.1	24.9	24.5	28.6
1996	23.8	14.9	26.2	29.4	60.7	40.4	43.4	30.0	18.5	18.5	26.5	26.0	29.5
1997	24.2	15.0	26.2	37.6	76.9	43.2	52.3	38.3	24.4	24.9	35.0	34.4	30.2
1998	26.7	15.0	26.2	42.6	103.1	47.0	69.6	56.1	35.3	32.9	55.7	54.8	43.7
1999	30.9	15.6	26.2	41.1	110.0	44.6	62.2	53.3	29.6	28.3	42.0	41.3	40.2
2000	35.4	16.3	26.2	59.6	115.7	68.8	75.9	64.2	38.9	36.0	55.6	54.7	42.6
2001	35.4	18.2	26.2	61.6	120.0	67.7	79.6	69.1	40.9	37.8	63.8	69.0	47.0
2002	35.5	18.3	26.2	59.0	119.2	62.5	78.2	74.9	42.0	40.2	52.9	70.5	46.5
2003	37.2	19.4	28.4	72.4	121.8	70.1	91.3	86.9	47.0	43.1	58.8	88.6	46.8
2004	39.1	23.5	28.8	94.3	127.9	94.4	109.4	98.6	54.4	46.5	63.9	99.8	52.0
2005	42.7	31.1	28.8	105.0	134.3	118.2	124.3	113.4	64.8	53.3	71.8	103.2	55.8
2006	46.2	31.7	28.8	118.5	139.1	134.2	132.5	128.6	74.1	62.3	80.6	107.3	65.3
2007	50.8	40.1	33.1	137.0	144.2	136.4	135.3	135.4	76.5	64.8	86.0	110.4	66.2
2008	57.2	37.4	42.4	188.5	162.3	226.0	177.6	171.5	115.7	99.2	131.3	146.8	86.7
2009	65.0	89.7	47.2	156.8	156.0	153.2	135.7	148.0	92.7	84.0	94.7	113.3	87.2
2010	68.8	81.2	58.5	187.2	169.1	178.9	156.8	163.2	106.7	98.2	118.2	130.7	88.5
2011	73.1	103.9	58.5	232.0	212.6	237.4	207.0	209.3	137.8	128.9	142.9	162.4	107.4
2012	79.1	100.4	58.5	235.9	225.4	247.4	215.7	219.8	148.7	142.9	148.7	167.0	112.3
2013	79.2	102.6	58.5	224.2	213.4	232.0	204.7	205.4	140.9	127.1	143.8	160.2	109.7
2014	79.8	96.6	58.5	201.2	189.5	208.4	178.5	181.4	132.2	121.8	142.5	156.5	114.1
2015	79.3	82.7	58.5	123.4	125.4	133.6	114.5	117.3	96.2	87.6	96.5	107.2	111.2
2016	80.9	72.9	61.3	102.8	105.2	107.4	96.7	98.2	87.3	79.7	84.1	93.4	96.3
2017	86.8	95.8	72.2	124.9	124.0	129.1	113.6	117.4	103.2	97.0	105.3	111.4	94.5
2018	93.8	103.1	86.3	150.8	143.8	163.4	141.3	143.1	121.6	114.6	117.8	119.6	101.3
2019	100.0	100.0	100.0	136.5	136.8	157.5	139.1	139.7	122.4	119.4	105.2	105.1	100.1
2020	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
2021	100.0	95.4	100.0	165.7	154.9	147.7	138.7	146.8	125.9	121.3	131.9	133.8	129.0
2022	99.9	166.6	100.0	221.7	235.4	294.7	240.0	260.5	195.2	175.8	176.3	177.2	160.6
2023	99.8	160.8	100.0	185.8	202.0	251.5	204.4	212.3	167.4	152.3	149.8	151.3	166.8

자료: 통계청

10. Producer Price Indices of Major Energy Products

2020=100

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	
23.2	16.4	-	-	-	90.7	45.5	-	-	-	-	-	1981
23.3	18.2	-	-	-	97.0	49.5	-	-	-	-	-	1982
23.3	17.5	-	-	-	89.8	49.5	-	-	-	-	-	1983
23.3	17.3	-	-	-	87.8	49.5	-	-	-	-	-	1984
23.6	17.3	-	-	-	87.8	49.5	42.5	44.3	44.9	-	-	1985
23.2	14.4	-	-	-	79.6	49.3	42.5	44.3	44.9	-	-	1986
23.1	13.5	-	-	-	77.0	47.5	41.3	43.0	43.7	-	-	1987
22.8	10.2	-	-	-	70.0	43.5	27.0	28.1	28.5	-	-	1988
22.3	8.5	-	-	-	62.1	41.5	24.0	25.0	25.4	-	-	1989
23.0	8.5	-	-	-	57.7	38.9	26.2	27.2	27.6	-	-	1990
26.6	8.5	-	-	-	58.1	38.7	27.5	28.7	29.1	-	-	1991
26.6	9.5	-	-	-	62.1	41.2	30.2	31.5	31.9	-	-	1992
26.6	9.7	-	-	-	62.4	41.4	31.6	32.9	33.4	-	-	1993
26.6	9.8	-	-	-	62.4	41.4	32.2	33.6	34.1	-	-	1994
29.9	15.7	-	-	86.8	64.4	42.7	32.9	34.3	34.8	-	-	1995
32.1	17.8	-	-	87.5	65.4	43.4	34.0	35.4	36.0	-	-	1996
33.4	19.3	-	-	90.1	67.3	44.7	39.0	40.6	41.2	-	-	1997
49.5	26.6	-	-	98.6	73.8	48.9	55.8	58.1	58.9	-	-	1998
48.4	29.8	-	-	98.6	74.5	49.6	50.4	52.5	53.3	-	-	1999
48.9	42.5	-	-	99.1	78.6	53.3	61.3	63.8	64.8	52.8	-	2000
51.9	44.8	-	-	101.8	80.6	55.5	75.5	78.6	79.8	57.3	-	2001
51.2	43.7	-	-	101.0	80.6	55.5	65.1	67.8	68.8	59.4	-	2002
51.2	43.8	-	-	98.2	79.0	56.8	71.6	74.6	75.7	61.3	-	2003
57.4	42.8	-	-	95.7	76.6	56.9	75.7	78.8	79.9	60.2	-	2004
60.6	45.0	-	89.9	95.3	76.2	56.9	78.1	81.3	82.5	65.2	82.7	2005
65.6	60.5	-	96.7	96.9	76.9	58.7	93.5	97.4	98.8	74.8	89.8	2006
65.0	67.3	-	95.3	98.1	78.7	61.7	97.7	101.7	103.2	73.4	91.2	2007
86.9	92.3	-	83.2	98.1	76.2	62.9	106.1	110.5	112.2	110.6	99.5	2008
91.4	101.5	-	107.7	101.3	77.3	69.3	117.1	121.9	123.7	103.2	107.4	2009
93.6	117.9	95.6	112.4	105.0	78.0	73.3	119.3	132.3	131.9	111.1	107.3	2010
111.2	136.2	118.4	126.8	106.6	79.7	77.5	130.9	143.3	143.9	129.5	105.5	2011
115.7	155.9	134.7	134.6	109.1	86.7	87.0	138.4	151.3	152.9	129.6	117.7	2012
106.9	151.9	128.8	130.5	113.2	94.9	94.5	144.1	157.3	159.6	109.4	123.2	2013
107.4	138.8	124.4	125.6	116.0	100.0	100.0	153.4	167.1	170.7	112.9	126.1	2014
106.6	89.2	106.4	100.0	114.3	100.0	99.5	126.3	131.5	133.5	108.3	126.1	2015
93.4	64.5	97.1	86.9	109.6	100.0	99.3	101.3	100.6	100.7	103.8	103.0	2016
92.0	92.4	101.0	94.5	102.7	100.0	100.0	105.2	105.3	106.2	104.6	100.2	2017
101.9	119.3	124.3	97.7	99.8	100.0	100.0	100.1	100.1	103.4	110.0	97.5	2018
99.2	125.6	111.6	101.4	100.0	100.0	100.0	104.3	105.3	110.0	113.5	99.3	2019
100.0	100.0	100.0	79.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2020
129.9	136.0	130.2	90.8	98.3	97.8	98.0	93.5	91.8	114.9	112.2	98.6	2021
174.3	185.5	163.7	0.0	107.1	111.6	111.8	110.7	111.3	211.7	178.8	112.0	2022
212.8	190.6	154.9	0.0	130.3	144.8	147.1	137.8	141.7	190.0	162.1	144.1	2023

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	5,149,905	2,945,181		-	97,278
2022	5,391,605	2,976,128		-	90,118
2023	5,635,384	3,074,878		-	88,320

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
-	106,225	-	-	2022
-	110,842	-	-	2023

1. At chained 2020 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

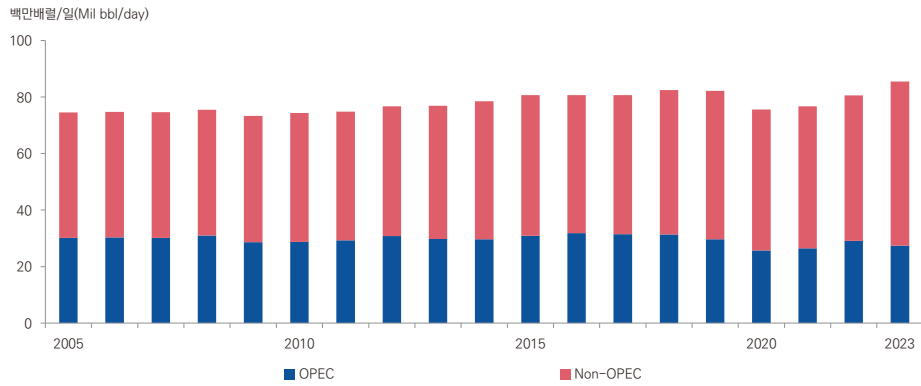
	평균기온 Average temperature	난방도일(18℃) Heating degree day	냉방도일(24℃) Cooling degree day	평균기온 증가율	난방도일 증가율	냉방도일 증가율
	℃	도일(Degree day)		%	%	%
1981	11.2	3,103.0	92.5	3.4	-0.4	916.5
1982	12.5	2,707.3	94.4	11.9	-12.8	2.1
1983	8.0	2,751.8	99.5	-36.2	1.6	5.4
1984	11.6	3,066.0	134.0	44.8	11.4	34.7
1985	11.6	3,054.7	137.3	-	-0.4	2.5
1986	11.2	3,017.7	53.1	-2.7	-1.2	-61.3
1987	11.9	2,807.6	42.9	6.2	-7.0	-19.2
1988	12.1	2,881.2	117.2	1.3	2.6	173.2
1989	13.0	2,473.1	91.1	7.2	-14.2	-22.3
1990	12.8	2,557.6	125.9	-1.3	3.4	38.2
1991	12.3	2,748.9	88.0	-3.6	7.5	-30.1
1992	12.5	2,636.2	84.4	1.1	-4.1	-4.1
1993	12.0	2,723.7	18.2	-3.5	3.3	-78.4
1994	13.5	2,510.8	276.4	12.5	-7.8	1,418.7
1995	12.2	2,738.9	109.1	-10.0	9.1	-60.5
1996	12.2	2,843.9	117.8	0.2	3.8	8.0
1997	12.9	2,625.4	204.1	5.5	-7.7	73.3
1998	13.8	2,322.9	103.8	6.9	-11.5	-49.1
1999	13.2	2,560.3	170.0	-4.1	10.2	63.8
2000	12.7	2,758.5	186.0	-4.0	7.7	9.4
2001	12.8	2,721.0	159.7	0.9	-1.4	-14.1
2002	12.9	2,545.8	92.5	0.5	-6.4	-42.1
2003	12.8	2,509.4	47.3	-0.3	-1.4	-48.9
2004	13.3	2,467.4	141.2	3.8	-1.7	198.5
2005	12.1	2,889.5	121.2	-9.3	17.1	-14.2
2006	13.0	2,524.1	116.3	7.5	-12.6	-4.0
2007	13.3	2,483.2	125.2	2.1	-1.6	7.7
2008	12.9	2,589.0	110.2	-2.6	4.3	-12.0
2009	12.9	2,585.4	100.2	-0.1	-0.1	-9.1
2010	12.1	2,953.4	167.2	-6.3	14.2	66.9
2011	12.0	2,882.6	113.1	-0.5	-2.4	-32.4
2012	12.2	2,967.7	187.9	1.5	3.0	66.1
2013	12.5	2,908.0	194.8	2.3	-2.0	3.7
2014	13.4	2,501.6	125.4	6.9	-14.0	-35.6
2015	13.6	2,459.1	151.8	1.6	-1.7	21.1
2016	13.6	2,589.7	238.1	-	5.3	56.9
2017	13.0	2,687.6	188.1	-4.1	3.8	-21.0
2018	12.9	2,763.4	286.2	-0.5	2.8	52.2
2019	13.5	2,525.5	178.4	4.6	-8.6	-37.7
2020	13.2	2,499.1	129.3	-2.2	-1.0	-27.5
2021	13.7	2,456.8	205.9	3.6	-1.7	59.2
2022	13.2	2,601.5	204.9	-3.4	5.9	-0.5
2023	14.0	2,380.1	235.6	6.1	-8.5	15.0

주: 서울시 기준
자료: 기상청

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

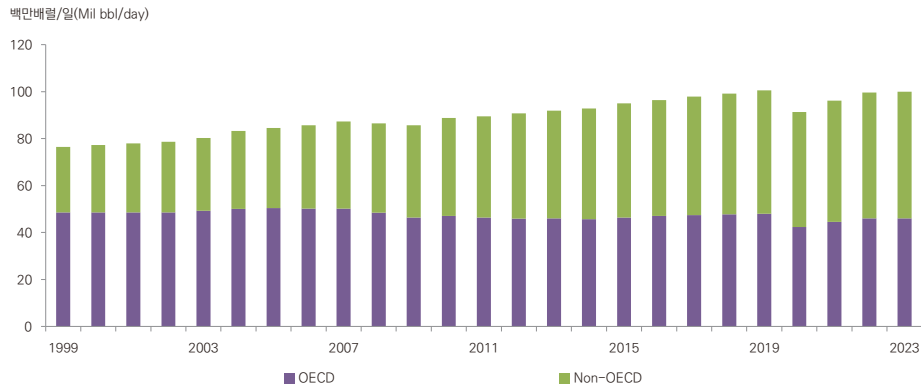
● 세계 원유 생산 World Crude Oil Production

〈2005~2023〉



● 세계 석유 수요 World Oil Demand

〈1999~2023〉



● 국제 석유 가격 International Oil Prices

〈1999~2023〉



1. 주요 에너지 지표

1-1. OECD 국가별 경제활동별 부가가치(USD, 2022년)

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	37,818	76,917	102,002	190,576	407,313	227,317	50,795
오 스 트 리 아	5,038	81,269	19,598	92,588	198,493	79,639	17,342
벨 기 에	3,074	60,342	22,941	67,904	154,260	88,553	23,761
캐 나 다	32,426	163,789	127,414	285,642	609,272	282,673	94,659
칠 레	10,013	26,036	15,887	50,704	102,640	49,881	11,628
콜 럼 비 아	20,964	42,776	15,983	66,506	146,229	63,335	11,156
코 스타 리 카	2,955	9,501	2,487	11,658	26,602	10,599	3,612
체 코	4,360	53,154	7,613	60,619	125,746	35,801	15,133
덴 마 크	3,190	54,674	15,231	62,631	135,726	65,302	17,801
에 스토 니 아	330	3,741	1,901	4,599	10,572	5,012	2,123
핀 란 드	5,536	36,830	13,360	44,562	100,289	33,081	15,173
프 랑 스	33,204	261,978	117,451	289,564	702,197	381,655	154,730
독 일	29,025	746,090	112,392	793,628	1,681,136	538,635	184,274
그 리 스	8,035	20,892	4,028	29,280	62,235	41,924	6,617
헝 가 리	3,479	28,646	6,278	31,368	69,772	27,145	9,942
아 이 슬 랜드	1,183	2,049	1,370	3,145	7,747	3,649	1,055
아 일 랜드	4,036	219,940	7,668	223,080	454,724	42,443	84,906
이 스 라 엘	4,870	52,482	20,670	59,066	137,088	55,709	41,380
이 탈 리 아	34,799	289,029	99,095	330,638	753,562	384,070	71,600
일 본	47,042	987,250	223,992	1,131,792	2,390,075	861,256	238,848
한 국	27,464	506,283	81,269	553,599	1,168,614	273,396	86,698
라 트 비 아	914	3,535	1,334	4,255	10,039	7,676	1,803
리 투 아 니 아	1,453	9,816	3,306	11,029	25,604	14,469	2,398
룩셈부르크	129	3,081	2,886	3,781	9,877	8,800	4,312
멕시코	42,963	267,829	64,057	315,283	690,132	373,777	34,157
네덜란드	15,425	105,255	41,567	126,543	288,790	168,468	47,915
뉴질랜드	8,604	19,837	13,908	26,651	69,000	35,594	6,345
노르웨이	6,702	26,792	25,593	108,255	167,342	54,613	18,864
폴란드	11,222	107,653	41,504	136,572	296,950	140,871	33,941
포르투갈	3,953	27,981	9,101	35,039	76,074	47,971	9,336
슬로바키아	1,723	17,276	6,740	19,582	45,322	17,163	4,941
슬로베니아	800	11,064	2,808	12,504	27,175	9,701	2,308
스페인	28,078	149,226	68,456	187,695	433,455	288,477	58,084
스웨덴	5,968	86,412	31,289	101,139	224,807	89,990	45,503
스위스	4,522	172,526	35,347	185,879	398,275	130,815	35,910
튀르키예	66,414	207,303	62,980	240,868	577,566	298,453	42,424
영국	18,521	280,719	169,967	372,912	842,119	449,127	267,351
미국	-	-	-	-	-	-	-

주: 1. 4차 국제표준산업분류 기준

2. 2015년 불변가격, 불변환율 기준

자료: OECD Data explorer

1. Energy Indicators

1-1. Gross Value Added by Economic Activity by OECD Countries(USD, 2022)

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	
116,184	174,537	167,391	277,769	36,591	1,370,927	1,465,797	Australia
20,334	34,601	40,465	65,045	9,446	382,775	427,236	Austria
26,154	47,275	78,472	101,509	9,005	468,000	520,746	Belgium
127,697	207,874	124,594	337,980	32,410	1,652,591	1,761,102	Canada
13,726	21,055	27,844	49,805		248,381	279,120	Chile
17,113	30,900	24,690	53,033	13,530	317,350	354,623	Colombia
4,294	5,294	8,855	12,195	2,139	64,089	69,550	Costa Rica
10,828	16,779	15,462	28,766	4,471	199,144	220,137	Czech Republic
15,478	30,986	29,409	59,056	9,387	308,071	355,650	Denmark
1,072	2,780	2,793	3,476	681	24,746	28,434	Estonia
8,244	30,263	21,173	45,826	6,881	224,137	257,560	Finland
110,135	326,210	354,347	514,808	70,399	2,352,994	2,646,451	France
136,553	351,938	412,207	639,108	114,780	3,310,025	3,702,231	Germany
9,316	35,248	11,755	34,815	6,566	187,479	214,953	Greece
5,326	11,357	16,484	18,564	4,187	133,319	157,619	Hungary
1,457	2,048	1,562	3,837	623	19,961	22,131	Iceland
18,146	19,940	47,617	40,111	5,517	487,309	514,904	Ireland
20,404	46,924	37,817	66,672	9,445	363,323	408,205	Israel
92,436	236,093	213,553	283,981	65,222	1,810,216	1,997,043	Italy
230,765	533,275	379,722	771,884	165,370	4,582,257	4,529,855	Japan
107,198	131,276	126,175	285,930	41,684	1,713,391	1,850,344	South Korea
899	2,483	2,173	4,412	783	26,678	30,834	Latvia
1,099	3,054	4,153	5,585	843	47,259	52,485	Lithuania
17,948	5,479	9,494	11,259	1,077	65,274	71,655	Luxembourg
53,110	132,905	50,110	126,963	24,714	1,214,145	1,287,850	Mexico
59,378	44,005	139,755	165,714	20,529	828,763	916,513	Netherlands
11,712	30,819	25,246	31,701	7,315	197,880	216,564	New Zealand
20,902	29,970	30,385	84,520	7,589	385,771	433,485	Norway
26,953	33,627	52,482	77,206	8,900	562,933	637,150	Poland
10,615	22,703	17,908	37,606	5,470	199,680	230,003	Portugal
2,817	9,409	10,374	15,482	2,666	91,199	102,984	Slovak Republic
2,030	3,213	4,618	7,118	1,107	46,247	53,387	Slovenia
46,873	154,554	126,674	215,566	52,928	1,225,457	1,345,297	Spain
26,768	41,225	62,326	94,929	14,432	511,589	575,505	Sweden
81,787	50,302	76,952	145,727	22,101	767,747	790,319	Switzerland
42,708	83,475	62,347	134,311	30,338	1,069,408	1,194,402	Türkiye
233,772	379,133	374,111	524,207	89,050	2,888,211	3,223,545	United Kingdom
-	-	-	-	-	-	21,236,309	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 Data explorer

1-2. 세계 에너지·경제통계(2022년)

	인 구 Population	국내총생산 GDP		에너지 생산 Energy prod.	에너지 순수입 Net imports	일차에너지 공급 TPES ¹	최종에너지 소비 TFEC ²	전력소비 Electricity consumption		가정에너지 소비 Residen. energy con.	수송에너지 소비 Transport. energy con.
		(PPP)						TWh	Mil.toe		
		Millions	Bil. USD(2015)								
세 계	7,946.93	90146.14	137200.03	15071.94	-51.26	14859.96	10075.89	27231.30	2,113.23	2,045.27	2,802.46
O E C D	1,379.24	53871.56	61570.54	4633.43	736.51	5189.78	3687.25	10671.60	845.67	705.60	1235.18
중 동	264.51	2453.12	5250.03	2065.74	-1185.09	836.05	568.62	1159.69	90.68	100.82	143.94
비OECD 유럽 및 유라시아	336.43	2634.11	6816.07	1922.80	-688.57	1189.42	779.62	1632.75	113.74	215.61	154.78
중 국 (홍 콩 포 함)	1,419.52	16721.03	26813.31	3138.40	808.45	3811.05	2296.67	8678.23	653.20	375.10	320.00
비OECD 아시아(중국제외)	2,667.37	7916.35	23290.85	1651.24	534.78	2098.38	1401.41	3336.10	266.81	318.56	320.00
비OECD 아메리카	455.08	3671.70	6283.16	629.05	-35.91	575.71	435.12	989.40	80.53	75.26	155.28
아 프 리 카	1,424.79	2895.45	6283.16	1031.29	-221.44	796.24	435.12	763.52	62.61	254.29	128.74
알 바 니 아	2.78	14.32	42.24	1.61	0.70	2.17	1.99	6.97	0.57	0.52	0.67
알 제 리	44.90	206.84	594.88	155.56	-86.73	68.23	45.26	79.89	5.80	14.04	15.40
앙 골 라	35.59	108.99	191.91	69.02	-53.37	15.08	12.58	13.99	1.17	7.80	2.75
아 르 헨 티 나	46.24	646.32	872.38	82.17	1.62	82.14	57.73	128.65	10.70	15.12	18.76
아 르 메 니 아	2.78	14.23	39.32	1.08	3.08	4.00	2.94	7.14	0.58	1.00	0.89
호 주	26.01	1458.56	1314.72	434.37	-301.16	127.20	79.05	258.41	18.99	11.37	30.35
오 스 트 리 아	9.05	422.28	476.53	11.65	24.16	31.11	26.13	74.69	5.49	6.37	7.62
아 제 르 바 이 잔	10.18	56.61	153.98	64.04	-45.68	17.45	12.65	23.99	1.74	4.07	3.09
바 레 인	1.47	35.90	72.28	24.24	-7.42	16.32	7.30	34.60	2.96	0.84	1.29
방 글 라 데 시	171.19	57.12	1116.95	28.67	22.30	50.33	33.22	102.08	8.26	14.36	4.67
벨 라 루 스	9.21	516.39	173.60	6.18	20.36	26.41	18.60	36.02	2.68	5.50	3.48
벨 기 에	11.68	16.77	581.88	16.33	43.90	50.61	36.39	85.06	6.58	7.07	8.56
베 닝	13.35	38.60	44.95	3.05	2.12	5.17	4.15	1.45	0.13	1.87	1.50
불 리 비 아	12.22	20.28	90.04	16.22	-6.49	0.10	8.06	10.38	0.82	1.11	4.32
보스니아헤르체고비나	3.23	17.51	51.53	5.31	1.92	7.28	4.38	12.09	0.91	1.84	1.32
보 츠 와 나	2.63	1897.24	40.04	2.18	0.67	2.84	2.00	3.71	0.29	0.81	0.76
브 라 질	215.31	13.00	3177.54	329.38	-21.61	300.53	243.70	586.28	47.37	28.96	90.34
브 루 나 이	0.45	13.00	26.09	12.08	-7.49	4.34	1.44	5.10	0.39	0.15	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 Data explorer

1-2. Energy Indicators by Country(2022)

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		
34,116.78	1.87	3,427.00	20.97	0.16	0.11	2.30	4.29	0.38	0.25	World
10,796.73	3.76	23,971.55	22.93	0.10	0.08	2.08	7.83	0.20	0.18	OECD
1,933.73	3.16	4,384.35	15.95	0.34	0.16	2.31	7.31	0.79	0.37	Middle East
2,509.55	3.54	4,853.24	14.59	0.45	0.17	2.11	7.46	0.95	0.37	Non-OECD Europe and Eurasia
10,644.28	2.68	6,113.49	28.44	0.23	0.14	2.79	7.50	0.64	0.40	China (P.R. of China and Hong Kong)
4,914.55	0.79	1,250.71	19.04	0.27	0.09	2.34	1.84	0.62	0.21	Non-OECD Asia(excluding China)
924.89	1.27	2,174.13	18.51	0.16	0.09	1.61	2.03	0.25	0.15	Non-OECD Americas
1,218.49	0.56	535.89	14.39	0.27	0.13	1.53	0.86	0.42	0.19	Africa
3.61	0.78	2,509.85	28.46	0.15	0.05	1.67	1.30	0.25	0.09	Albania
151.01	1.52	1,703.67	12.82	0.33	0.11	2.21	3.36	0.73	0.25	Algeria
21.58	0.42	431.60	9.29	0.14	0.08	1.43	0.61	0.20	0.11	Angola
174.32	1.78	2,911.01	18.53	0.13	0.09	2.12	3.77	0.27	0.20	Argentina
7.05	1.44	2,400.68	19.67	0.28	0.10	1.76	2.53	0.50	0.18	Armenia
354.78	4.89	9,828.44	24.02	0.09	0.10	2.79	13.64	0.24	0.27	Australia
56.80	3.44	8,381.81	21.02	0.07	0.07	1.83	6.27	0.13	0.12	Austria
36.38	1.71	2,388.94	13.77	0.31	0.11	2.09	3.58	0.64	0.24	Azerbaijan
34.41	11.09	22,482.38	40.57	0.45	0.23	2.11	23.38	0.96	0.48	Bahrain
103.89	0.29	550.50	24.86	0.88	0.05	2.06	0.61	1.82	0.09	Bangladesh
50.55	2.87	3,911.00	14.42	0.05	0.15	1.91	5.49	0.10	0.29	Belarus
78.81	4.33	7,283.00	18.09	3.02	0.09	1.56	6.75	4.70	0.14	Belgium
5.79	0.39	116.90	3.07	0.13	0.12	1.12	0.43	0.15	0.13	Benin
21.59	0.01	820.02	10.14	0.01	0.00	207.64	1.77	1.06	0.24	Bolivia
20.60	2.25	3,805.26	20.84	0.42	0.14	2.83	6.37	1.18	0.40	Bosnia and Herzegovina
6.46	1.08	1,380.71	14.58	0.00	0.07	2.28	2.46	0.00	0.16	Botswana
413.94	1.40	2,663.27	19.44	23.11	0.09	1.38	1.92	31.84	0.13	Brazil
9.13	9.67	11,655.71	27.19	0.33	0.17	2.10	20.33	0.70	0.35	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 Data explorer

1-2. 세계 에너지·경제통계(2022년)(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	6.47	61.69	160.42	13.02	7.29	19.19	10.11	35.79	2.66	2.14	3.47
캄 보 디 아	16.77	34.65	100.79	3.48	5.19	8.63	7.58	13.99	0.98	2.03	2.25
카 메 룬	27.92	40.47	99.40	13.68	-3.05	10.16	8.68	7.84	0.52	5.46	1.23
캐 나 다	38.94	1,761.11	1,804.55	560.43	-260.60	297.17	197.63	568.17	45.11	32.97	59.22
칠 레	19.83	279.14	466.53	14.55	27.53	41.41	29.94	86.47	6.56	4.92	10.47
중 국	1,412.18	16,403.07	26,390.62	3,138.25	788.23	3,799.54	2,289.93	8,631.41	651.85	373.62	317.93
콜 롬 비 아	50.50	354.62	761.70	105.00	-64.87	40.13	30.20	80.12	6.03	7.78	13.04
콩 고	5.97	10.16	19.24	17.06	-13.16	3.79	2.05	2.77	0.13	1.23	0.42
코 스 타 리 카	5.21	69.55	102.10	2.59	2.72	5.13	3.85	10.80	0.89	0.53	1.91
코 트 디 부 아르	28.16	67.99	160.37	12.53	2.06	14.34	9.91	9.84	0.76	5.61	2.46
크 로 아 티 아	3.85	64.05	123.85	3.69	5.14	8.31	6.89	17.26	1.42	2.27	2.23
쿠 바	11.21	83.53	259.45	3.71	5.67	9.02	4.90	12.19	1.19	1.10	0.42
퀴 라 소	0.15	2.61	3.28	0.02	2.68	0.87	0.74	0.77	0.06	0.08	0.38
키 프 로 스	0.91	27.89	37.92	0.21	2.62	2.24	1.60	5.12	0.40	0.35	0.65
체 코	10.69	215.93	410.65	25.34	17.49	41.59	26.49	67.91	5.16	6.85	6.85
북 한	26.07	28.57	107.28	16.04	0.83	16.86	13.76	21.85	1.64	1.53	1.28
콩고 민주공화국	99.01	53.67	97.73	39.47	0.64	40.03	25.79	13.38	1.05	22.61	1.56
덴 마 크	5.91	356.23	328.16	9.53	7.36	15.52	12.81	34.65	2.76	3.72	3.97
도미니카공화국	11.23	98.17	208.82	1.14	10.08	10.67	7.88	19.28	1.66	1.58	2.98
에 콰 도 르	18.00	109.58	197.89	28.16	-11.19	16.13	13.44	28.33	2.39	1.86	6.86
이 집 트	110.99	482.62	1,546.72	92.66	9.38	101.40	61.68	161.37	14.54	12.47	18.88
엘 살 바 도 르	6.34	27.32	56.01	2.12	2.87	4.83	3.07	6.97	0.58	0.58	1.39
에 리 트 레 아	3.68	2.45	6.45	0.77	0.25	0.99	0.67	0.35	0.03	0.53	0.08
에 스 토 니 아	1.33	28.52	47.82	4.69	0.33	4.80	2.86	8.72	0.61	0.96	0.85
에 티 오 피 아	123.38	105.69	280.01	43.23	5.11	47.38	38.64	11.59	0.96	33.26	2.41
핀 란 드	5.56	259.24	257.44	19.34	13.36	31.57	23.81	81.95	6.61	4.95	3.84
프 랑 스	68.46	2,637.67	2,940.19	104.03	114.77	211.16	140.99	454.50	35.66	33.85	44.58
가 봉	2.39	15.87	31.58	14.92	-9.56	5.09	4.28	2.59	0.20	1.22	0.07
조 지 아	3.71	21.30	64.14	1.27	4.56	5.73	5.19	13.67	1.15	1.58	1.59

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2. TFC: 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 Data explorer

1-2. Energy Indicators by Country(2022)(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		
42.83	2.97	5,537.00	26.34	0.31	0.12	2.23	6.63	0.69	0.27	Bulgaria
14.66	0.51	834.00	12.88	0.25	0.09	1.70	0.87	0.42	0.15	Cambodia
6.74	0.36	281.00	6.02	0.25	0.10	0.66	0.24	0.17	0.07	Cameroon
523.33	7.63	14,591.00	22.83	0.17	0.16	1.76	13.44	0.30	0.29	Canada
86.59	2.09	4,361.00	21.92	0.15	0.09	2.09	4.37	0.31	0.19	Chile
10,613.17	2.69	6,112.00	28.47	0.23	0.14	2.79	7.52	0.65	0.40	People's Rep. of China
73.29	0.79	1,587.00	19.98	0.11	0.05	1.83	1.45	0.21	0.10	Colombia
4.40	0.63	464.00	6.49	0.37	0.20	1.16	0.74	0.43	0.23	Congo
7.58	0.98	2,073.00	23.14	0.07	0.05	1.48	1.45	0.11	0.07	Costa Rica
15.99	0.51	349.00	7.66	0.21	0.09	1.12	0.57	0.24	0.10	Côte d'Ivoire
15.67	2.16	4,477.00	20.59	0.13	0.07	1.89	4.07	0.24	0.13	Croatia
19.19	0.80	1,087.00	24.33	0.11	0.03	2.13	1.71	0.23	0.07	Cuba
2.28	5.80	5,145.00	8.56	0.33	0.27	2.62	15.17	0.87	0.69	Curacao
6.08	2.48	5,662.00	24.99	0.08	0.06	2.71	6.72	0.22	0.16	Cyprus
90.70	3.89	6,353.00	19.47	0.19	0.10	2.18	8.49	0.42	0.22	Czech Republic
56.61	0.65	838.00	11.94	0.59	0.16	3.36	2.17	1.98	0.53	DPR of Korea
4.83	0.40	135.00	4.05	0.75	0.41	0.12	0.05	0.09	0.05	Dem. Rep. of the Congo
26.77	2.63	5,867.00	21.54	0.04	0.05	1.72	4.53	0.08	0.08	Denmark
29.19	0.95	1,717.00	21.07	0.11	0.05	2.74	2.60	0.30	0.14	Dominican Republic
38.35	0.90	1,574.00	17.78	0.15	0.08	2.38	2.13	0.35	0.19	Ecuador
217.81	0.91	1,454.00	23.57	0.21	0.07	2.15	1.96	0.45	0.14	Egypt
7.85	0.76	1,100.00	18.87	0.18	0.09	1.62	1.24	0.29	0.14	El Salvador
0.67	0.27	95.00	4.22	0.40	0.15	0.67	0.18	0.27	0.10	Eritrea
9.92	3.60	6,546.00	21.47	0.17	0.10	2.07	7.45	0.35	0.21	Estonia
14.64	0.38	94.00	2.49	0.45	0.17	0.31	0.12	0.14	0.05	Ethiopia
34.02	5.68	14,747.00	27.76	0.12	0.12	1.08	6.12	0.13	0.13	Finland
282.96	3.08	6,638.00	25.29	0.08	0.07	1.34	4.13	0.11	0.10	France
2.55	2.13	1,084.00	4.76	0.32	0.16	0.50	1.07	0.16	0.08	Gabon
11.02	1.54	3,682.00	22.18	0.27	0.09	1.92	2.97	0.52	0.17	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 Data explorer

1-2. 세계 에너지·경제통계(2022년)(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		83.79	3633.90	4209.84	95.73	194.40	271.23	224.47	526.69	41.08	55.73	50.79
가 나		33.48	68.05	199.56	14.71	-2.66	11.91	8.77	18.32	1.51	3.25	3.32
지 브 롤 터		0.03	-	-	0.00	4.79	0.25	0.22	0.20	0.02	0.01	0.17
그 리 스		10.58	211.56	313.12	4.98	19.01	20.46	15.62	50.39	4.14	4.22	6.08
과 테 말 라		17.36	78.18	160.38	10.71	6.08	15.97	13.57	12.05	0.97	8.24	3.36
아 이 티		11.59	14.44	30.18	3.40	0.97	4.34	3.35	0.86	0.08	2.55	0.45
온 두 라 스		10.43	25.95	54.38	2.70	3.33	6.00	4.39	7.92	0.66	1.67	1.54
홍 콩		7.35	317.96	422.69	0.15	20.22	11.51	6.74	46.83	3.85	1.48	2.07
형 가 리		9.68	157.53	332.06	10.77	16.55	25.67	19.80	45.15	3.56	5.79	5.25
아 이 슬 란 드		0.37	22.09	20.53	5.33	1.10	6.06	3.17	19.58	1.62	0.48	0.34
인 도		1,417.17	2973.52	10120.69	664.23	363.15	1015.25	671.83	1532.11	120.26	168.30	113.18
인 도 네 시 아		275.50	1122.26	3451.70	492.59	-221.42	260.92	162.45	350.56	30.52	22.52	56.44
이 란		88.55	487.79	1351.27	384.46	-95.01	292.40	222.80	328.04	27.08	64.94	49.38
이 라 크		44.50	208.43	433.58	234.00	-171.00	62.21	28.13	60.51	4.84	6.09	13.75
아 일 랜 드		5.12	499.02	555.57	3.04	11.65	13.55	11.10	31.65	2.65	2.63	3.92
이 스 라 엘		9.55	408.20	404.32	19.36	6.19	23.86	15.91	65.40	5.47	2.55	6.25
이 탈 리 아		59.01	1966.69	2400.00	31.95	119.02	142.32	113.88	307.80	24.68	29.27	36.68
자 메 이 카		2.83	14.74	26.48	0.18	3.10	2.75	1.99	3.26	0.27	0.24	0.91
일 본		124.95	4529.93	5300.36	49.54	352.94	392.37	258.60	976.38	77.96	41.53	64.29
요 르 단		11.29	43.98	99.82	0.88	8.18	8.49	6.31	20.16	1.74	1.65	2.62
카 자 흐 스 탄		19.62	220.25	486.66	160.27	-87.08	71.37	41.80	105.61	7.33	13.92	8.34
케냐		54.03	95.13	238.39	23.33	6.59	29.29	16.77	10.27	0.88	10.98	3.54
한 국		51.63	1740.89	2296.40	57.80	239.10	279.72	181.16	593.87	46.58	21.19	36.56
코 소 보		1.76	8.25	21.93	1.80	0.86	2.65	1.52	6.68	0.49	0.55	0.43
쿠 웨 이 트		4.27	119.35	188.66	165.36	-118.62	41.90	24.47	76.05	5.36	2.98	5.80
키 르 기 스 스 탄		6.80	8.23	30.93	2.72	1.52	4.50	3.59	13.75	1.13	2.27	0.48
라 트 비 아		1.89	31.98	57.94	2.92	1.75	4.24	3.92	6.95	0.56	1.11	1.02
레 바논		5.49	31.47	62.03	0.35	3.44	3.55	3.08	3.91	0.34	0.44	2.17
리 비아		6.81	50.63	142.62	64.46	-45.81	18.34	10.34	28.74	2.39	1.94	5.98
리 투 아 니 아		2.83	52.49	106.13	1.95	5.22	6.88	5.92	12.51	0.92	1.48	2.09
룩셈부르크		0.66	71.66	73.30	0.32	3.50	3.18	3.06	7.60	0.53	0.45	1.56

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2. TFEC: 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 Data explorer

1-2. Energy Indicators by Country(2022)(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		
612.00	3.24	6,285.00	18.30	0.07	0.06	2.26	7.30	0.17	0.15	Germany
19.88	0.36	547.00	17.18	0.18	0.06	1.67	0.59	0.29	0.10	Ghana
0.64	7.58	6,194.00	7.86	#VALUE!	#VALUE!	2.54	19.24	#VALUE!	#VALUE!	Gibraltar
50.82	1.93	4,763.00	26.49	0.10	0.07	2.48	4.80	0.24	0.16	Greece
17.04	0.92	694.00	7.13	0.20	0.10	1.07	0.98	0.22	0.11	Guatemala
3.04	0.37	74.00	2.25	0.30	0.14	0.70	0.26	0.21	0.10	Haiti
9.85	0.58	759.00	15.10	0.23	0.11	1.64	0.94	0.38	0.18	Honduras
31.11	1.57	6,375.00	57.14	0.04	0.03	2.70	4.24	0.10	0.07	Hong Kong(China)
42.54	2.65	4,662.00	17.96	0.16	0.08	1.66	4.39	0.27	0.13	Hungary
1.59	16.38	52,920.00	51.19	0.27	0.30	0.26	4.30	0.07	0.08	Iceland
2516.97	0.72	1,081.00	17.90	0.34	0.10	2.48	1.78	0.85	0.25	India
651.67	0.95	1,272.00	18.79	0.23	0.08	2.50	2.37	0.58	0.19	Indonesia
696.37	3.30	3,705.00	12.15	0.60	0.22	2.38	7.86	1.43	0.52	Islamic Rep. of Iran
170.19	1.40	1,360.00	17.20	0.30	0.14	2.74	3.82	0.82	0.39	Iraq
32.96	2.65	6,187.00	23.83	0.03	0.02	2.43	6.44	0.07	0.06	Ireland
59.60	2.50	6,847.00	34.37	0.06	0.06	2.50	6.24	0.15	0.15	Israel
310.29	2.41	5,216.00	21.67	0.07	0.06	2.18	5.26	0.16	0.13	Italy
7.06	0.97	1,152.00	13.70	0.19	0.10	2.57	2.50	0.48	0.27	Jamaica
973.67	3.14	7,814.00	30.15	0.09	0.07	2.48	7.79	0.21	0.18	Japan
21.35	0.75	1,786.00	27.54	0.19	0.09	2.51	1.89	0.49	0.21	Jordan
225.92	3.64	5,382.00	17.54	0.32	0.15	3.17	11.51	1.03	0.46	Kazakhstan
17.76	0.54	190.00	5.27	0.31	0.12	0.61	0.33	0.19	0.07	Kenya
549.31	5.42	11,503.00	25.71	0.16	0.12	1.96	10.64	0.32	0.24	South Korea
8.46	1.50	3,789.00	32.32	0.32	0.12	3.19	4.80	1.03	0.39	Kosovo
94.13	9.81	17,815.00	21.90	0.35	0.22	2.25	22.05	0.79	0.50	Kuwait
9.12	0.66	2,021.00	31.46	0.55	0.15	2.03	1.34	1.11	0.29	Kyrgyzstan
5.98	2.25	3,684.00	14.17	0.13	0.07	1.41	3.17	0.19	0.10	Latvia
9.43	0.65	712.00	10.92	0.11	0.06	2.66	1.72	0.30	0.15	Lebanon
44.68	2.69	3,793.18	23.16	0.36	0.13	2.44	6.56	0.88	0.31	Libya
11.03	2.43	4,416.00	15.49	0.13	0.06	1.60	3.90	0.21	0.10	Lithuania
6.75	4.85	11,597.00	17.26	0.04	0.04	2.12	10.30	0.09	0.09	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 Data explorer

1-2. 세계 에너지·경제통계(2022년)(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	
말 레 이 시 아	33.94	386.88	963.84	96.61	-0.58	99.47	59.48	173.00	14.12	4.26	18.96
몰 타	0.52	16.34	24.56	0.03	3.01	0.77	0.59	2.75	0.23	0.10	0.25
모 리 셔 스	1.26	13.35	27.71	0.15	1.94	1.38	0.85	2.95	0.25	0.15	0.38
멕시코	128.58	1285.06	2446.09	157.64	29.72	182.60	108.77	302.45	25.79	19.34	44.47
몰 도 바	2.59	9.00	30.55	0.55	3.11	3.60	2.75	5.70	0.44	1.10	0.75
몽 골	3.40	14.44	39.68	23.51	-14.70	6.49	4.55	8.74	0.70	1.00	1.02
몬 테 네 그 로	0.62	4.87	12.21	0.74	0.31	1.04	0.78	2.71	0.22	0.25	0.30
모 로 코	37.46	125.54	306.74	2.16	21.16	22.51	16.36	36.52	3.10	4.49	5.74
모 잠 비 크	32.97	19.46	42.61	24.20	-12.46	11.71	8.65	12.99	1.08	5.31	1.43
미 안 마	54.18	68.02	234.79	25.53	-4.09	21.48	18.85	19.04	1.84	10.98	4.32
나 미 비 아	2.57	11.30	24.29	0.89	1.21	2.00	1.52	3.56	0.30	0.13	0.65
네 팔	30.55	33.08	109.93	11.32	4.24	15.45	15.31	9.54	0.82	9.42	1.59
네 델 란 드	17.70	894.81	995.86	23.87	62.63	63.30	49.50	112.68	8.92	8.30	9.19
뉴 질 란 드	5.14	215.54	208.61	14.14	5.51	19.09	13.24	41.44	3.32	1.54	4.89
니 카 라 과	6.95	14.73	38.04	2.37	1.90	4.09	2.73	4.59	0.34	1.18	0.80
니 제 르	26.21	14.35	33.94	3.97	0.22	4.10	3.74	1.58	0.12	2.97	0.52
나 이 지 리 아	218.54	534.70	1067.26	127.50	-49.27	74.32	59.45	30.26	2.77	24.82	20.66
노 르 웨 이	5.46	433.49	352.05	216.04	-189.59	25.27	21.06	127.55	9.89	3.84	5.13
오 만	4.58	86.29	167.51	89.79	-59.29	27.75	25.34	38.59	3.11	1.63	4.50
파 키 스 탄	235.83	397.38	1281.05	69.54	45.65	114.72	89.69	147.63	10.35	39.19	19.35
파 나 마	4.41	70.31	130.61	1.11	8.01	4.68	3.81	11.21	0.96	0.62	1.86
파 라 과 이	6.78	42.04	89.19	6.78	0.40	7.07	6.27	14.96	1.26	1.64	2.22
페 루	34.05	226.01	419.97	24.58	3.37	27.67	22.17	53.17	4.48	4.37	9.49
필 리 핀	115.56	407.69	976.32	31.65	34.16	62.77	35.87	100.82	7.85	10.31	12.37
폴 란 드	37.83	629.86	1346.38	58.99	48.27	103.23	76.28	169.26	12.16	20.28	23.87
포 르 투 갈	10.30	230.34	354.98	5.89	16.58	20.33	16.23	53.06	4.18	2.66	5.74
카 타 르	2.70	170.93	252.08	222.60	-175.60	44.33	23.82	51.50	4.14	2.10	3.85
루 마 니 아	18.96	232.15	559.40	22.23	10.24	31.54	24.33	51.77	3.67	7.87	7.46
러 시 아	143.56	1482.44	3853.05	1443.78	-607.02	807.88	531.12	1036.26	70.75	140.91	102.87
사우디아라비아	36.41	782.02	1842.88	683.85	-431.72	242.27	161.07	380.80	27.59	14.18	45.97
세 네 갈	16.88	25.34	61.74	2.02	3.87	5.58	3.90	7.05	0.58	1.48	1.60

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 Data explorer

1-2. Energy Indicators by Country(2022)(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		
241.14	2.93	5,097.00	23.74	0.26	0.10	2.42	7.11	0.62	0.25	Malaysia
1.78	1.47	5,255.00	39.52	0.05	0.03	2.32	3.41	0.11	0.07	Malta
4.02	1.09	2,333.00	29.11	0.10	0.05	2.91	3.18	0.30	0.15	Mauritius
379.68	1.42	2,352.00	23.72	0.14	0.07	2.08	2.95	0.30	0.16	Mexico
7.54	1.39	2,201.00	16.07	0.40	0.12	2.09	2.91	0.84	0.25	Republic of Moldova
23.64	1.91	2,572.00	15.30	0.45	0.16	3.64	6.96	1.64	0.60	Mongolia
2.65	1.69	4,400.00	28.89	0.21	0.09	2.54	4.29	0.54	0.22	Montenegro
67.17	0.60	975.00	18.93	0.18	0.07	2.98	1.79	0.54	0.22	Morocco
7.80	0.36	394.00	12.46	0.60	0.27	0.67	0.24	0.40	0.18	Mozambique
25.95	0.40	351.00	9.74	0.32	0.09	1.21	0.48	0.38	0.11	Myanmar
3.21	0.78	1,386.00	19.93	0.18	0.08	1.61	1.25	0.28	0.13	Namibia
12.76	0.51	312.00	5.33	0.47	0.14	0.83	0.42	0.39	0.12	Nepal
121.49	3.58	6,365.46	18.03	0.07	0.06	1.92	6.86	0.14	0.12	Netherlands
28.69	3.71	8,059.99	25.05	0.09	0.09	1.50	5.58	0.13	0.14	New Zealand
4.86	0.59	661.02	12.29	0.28	0.11	1.19	0.70	0.33	0.13	Nicaragua
2.92	0.16	60.28	3.21	0.29	0.12	0.71	0.11	0.20	0.09	Niger
100.39	0.34	138.46	4.66	0.14	0.07	1.35	0.46	0.19	0.09	Nigeria
35.60	4.63	23,374.08	46.97	0.06	0.07	1.41	6.52	0.08	0.10	Norway
74.92	6.06	8,432.43	12.28	0.32	0.17	2.70	16.37	0.87	0.45	Oman
201.27	0.49	626.02	11.54	0.29	0.09	1.75	0.85	0.51	0.16	Pakistan
11.09	1.06	2,541.76	25.33	0.07	0.04	2.37	2.52	0.16	0.08	Panama
7.37	1.04	2,206.35	20.10	0.17	0.08	1.04	1.09	0.18	0.08	Paraguay
56.82	0.81	1,561.65	20.22	0.12	0.07	2.05	1.67	0.25	0.14	Peru
137.53	0.54	872.48	21.89	0.15	0.06	2.19	1.19	0.34	0.14	Philippines
284.99	2.73	4,474.57	15.95	0.16	0.08	2.76	7.53	0.45	0.21	Poland
35.71	1.97	5,152.07	25.79	0.09	0.06	1.76	3.47	0.16	0.10	Portugal
90.67	16.45	19,110.19	17.40	0.26	0.18	2.05	33.64	0.53	0.36	Qatar
66.52	1.66	2,730.65	15.10	0.14	0.06	2.11	3.51	0.29	0.12	Romania
1623.23	5.63	7,218.51	13.32	0.54	0.21	2.01	11.31	1.09	0.42	Russia
532.88	6.65	10,459.06	17.13	0.31	0.13	2.20	14.64	0.68	0.29	Saudi Arabia
11.32	0.33	407.26	14.96	0.22	0.09	2.03	0.67	0.45	0.18	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 Data explorer

1-2. 세계 에너지·경제통계(2022년)(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	49.94	49.94	133.42	9.62	7.37	16.27	10.03	34.08	2.49	3.43	2.67
싱 가 포 르	383.03	383.03	598.68	0.69	90.67	37.38	18.39	57.18	4.72	0.77	2.25
슬 로 바 키 아	102.55	102.55	188.07	6.94	11.57	16.77	11.03	26.93	1.97	2.61	2.68
슬 로 베 니 아	53.55	53.55	81.08	3.08	3.45	6.42	4.82	14.22	1.12	0.99	1.97
남 아 프 리 카	360.66	360.66	789.54	138.30	-13.49	123.30	59.04	209.46	16.02	7.87	16.02
남 수 단	11.54	11.54	12.61	7.38	-6.54	0.76	0.58	0.52	0.04	0.21	0.29
스 페 인	47.81	1323.71	1795.07	34.72	95.29	115.00	81.42	247.52	19.29	14.03	32.17
스 리 랑 카	22.18	88.41	265.98	4.84	6.31	10.51	8.94	15.17	1.29	2.71	2.91
수 단	46.87	61.25	161.90	16.70	3.84	20.34	13.83	13.77	1.15	6.32	3.99
수 리 남	0.62	4.41	8.29	0.94	0.19	1.08	0.73	1.84	0.15	0.10	0.32
스 웨 덴	10.49	586.16	558.54	35.74	13.01	45.37	31.32	130.23	10.56	7.06	6.60
스 위 스	8.78	790.56	615.82	11.94	11.67	22.74	16.80	64.16	4.90	4.61	5.27
시 리 아	22.13	3.81	-	4.24	6.26	10.21	5.23	15.49	1.24	1.21	1.66
대 만	23.89	675.86	1393.45	10.43	110.41	116.95	73.06	278.54	22.40	6.37	13.11
타 지 키 스 탄	9.95	12.82	41.27	2.81	1.07	3.82	3.21	15.03	1.26	0.87	0.74
탄 자 니 아	65.50	71.01	175.74	22.97	3.39	26.22	22.72	7.99	0.66	14.85	3.30
태 국	71.70	450.10	1219.44	61.17	76.50	133.24	98.22	205.70	16.98	8.59	27.78
토 고	8.85	7.96	19.48	3.12	0.84	3.87	2.40	1.74	0.15	1.61	0.41
트리니다드토바고	1.53	21.67	32.60	26.72	-11.38	15.08	11.34	9.00	0.74	0.37	0.85
튀 니 지	12.36	48.41	127.97	5.23	6.16	11.59	8.64	19.34	1.59	2.33	2.76
튀 르 키 예	84.98	1194.06	2795.50	51.10	113.78	156.50	112.83	302.04	24.27	24.99	30.16
투르크메니스탄	6.43	46.01	97.92	85.40	-44.65	40.67	27.31	20.46	1.31	0.42	4.12
우 크 라 이 나	38.00	71.88	344.29	47.12	15.44	61.28	32.61	100.18	6.92	11.32	1.05
아랍에미레이트	9.37	431.44	724.23	252.95	-144.02	83.98	58.63	147.98	12.06	3.80	12.03
영 국	67.79	3210.18	3034.15	103.30	60.45	153.01	113.67	293.08	23.58	31.61	38.23
미 국	333.57	21236.52	21236.52	2318.51	-141.27	2172.99	1578.77	4331.59	344.47	275.97	618.68
우 루 과 이	3.42	62.34	80.58	3.16	2.55	5.51	4.96	12.17	1.01	0.85	1.42
우즈베키스탄	35.65	123.06	300.35	48.28	0.75	48.28	33.57	73.16	4.87	12.85	7.04
베 네 수 엘 라	28.30	38.95	161.33	69.16	-30.82	41.70	16.83	56.12	4.09	2.51	5.02
베 트 남	98.19	355.54	1051.40	66.04	34.67	101.98	72.62	261.60	20.71	10.06	14.69
예 멘	33.70	34.54	55.70	3.02	-0.29	2.63	2.44	2.06	0.23	0.96	0.92
잠 비 아	20.02	26.18	67.12	14.71	1.46	16.14	10.63	14.19	1.18	6.99	0.83
짐 바 브 웨	16.32	22.16	41.10	5.72	1.14	6.69	5.69	8.66	0.74	2.90	0.79

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

자료: OECD Data explorer

1-2. Energy Indicators by Country(2022)(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		
45.01	0.33	5,041.35	24.83	0.33	0.12	2.77	0.90	0.90	0.34	Serbia
46.60	0.10	10,143.50	25.66	0.10	0.06	1.25	0.12	0.12	0.08	Singapore
28.13	0.16	4,905.99	17.83	0.16	0.09	1.68	0.27	0.27	0.15	Slovak Republic
11.95	0.12	6,740.68	23.28	0.12	0.08	1.86	0.22	0.22	0.15	Slovenia
394.07	0.34	3,497.22	27.12	0.34	0.16	3.20	1.09	1.09	0.50	South Africa
1.67	0.07	47.32	7.67	0.07	0.06	2.20	0.14	0.14	0.13	South Sudan
217.10	2.41	5,177.40	23.69	0.09	0.06	1.89	4.54	0.16	0.12	Spain
18.36	0.47	684.04	14.39	0.12	0.04	1.75	0.83	0.21	0.07	Sri Lanka
18.03	0.43	293.75	8.31	0.33	0.13	0.89	0.38	0.29	0.11	Sudan
2.83	1.75	2,981.17	21.12	0.24	0.13	2.62	4.58	0.64	0.34	Suriname
32.45	4.33	12,418.33	33.70	0.08	0.08	0.72	3.09	0.06	0.06	Sweden
31.84	2.59	7,309.58	29.20	0.03	0.04	1.40	3.63	0.04	0.05	Switzerland
27.52	0.46	700.00	23.67	2.68	-	2.70	1.24	7.22	-	Syrian Arab Republic
269.51	4.90	11,659.72	30.65	0.17	0.08	2.30	11.28	0.40	0.19	Chinese Taipei
7.59	0.38	1,509.70	39.36	0.30	0.09	1.99	0.76	0.59	0.18	Tajikistan
17.52	0.40	121.99	2.89	0.37	0.15	0.67	0.27	0.25	0.10	United Rep. of Tanzania
250.04	1.86	2,868.96	17.29	0.30	0.11	1.88	3.49	0.56	0.21	Thailand
1.92	0.44	197.09	6.20	0.49	0.20	0.50	0.22	0.24	0.10	Togo
13.71	9.85	5,879.58	6.56	0.70	0.46	0.91	8.96	0.63	0.42	Trinidad and Tobago
26.39	0.94	1,564.98	18.39	0.24	0.09	2.28	2.14	0.55	0.21	Tunisia
389.98	1.84	3,554.23	21.51	0.13	0.06	2.49	4.59	0.33	0.14	Türkiye
94.98	6.32	3,180.78	4.80	0.88	0.42	2.34	14.77	2.06	0.97	Turkmenistan
101.29	1.61	2,636.18	21.22	0.85	0.18	1.65	2.67	1.41	0.29	Ukraine
173.64	8.97	15,674.22	20.57	0.19	0.12	2.07	18.54	0.40	0.24	U.A.E
309.42	2.26	4,323.35	20.75	0.05	0.05	2.02	4.56	0.10	0.10	United Kingdom
4607.59	6.51	12,985.63	21.82	0.10	0.10	2.12	13.81	0.22	0.22	United States
7.18	1.61	3,556.24	20.44	0.09	0.07	1.30	2.10	0.12	0.09	Uruguay
113.41	1.35	2,052.39	14.50	0.39	0.16	2.35	3.18	0.92	0.38	Uzbekistan
63.64	1.47	1,982.98	24.29	1.07	0.26	1.53	2.25	1.63	0.39	Venezuela
286.65	1.04	2,664.32	28.53	0.29	0.10	2.81	2.92	0.81	0.27	Viet Nam
8.22	0.08	61.23	9.22	0.08	0.05	3.12	0.24	0.24	0.15	Yemen
9.04	0.81	708.74	11.14	0.62	0.24	0.56	0.45	0.35	0.13	Zambia
10.12	0.41	530.47	12.93	0.30	0.16	1.51	0.62	0.46	0.25	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 Data explorer

2. 에너지통계

2-1. 세계 일차에너지 공급

Primary Energy Supply of World

단위: 백만 toe

Unit: Million toe

	합계 Total	증감율 Growth Rate(%)	석 유 Oil	천연가스 Natural Gas	석탄 Coal	원자력 Nuclear	수 력 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	8.9	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	5.1	4,399.9	3,471.6	3,824.0	604.6	961.6	953.3
2022	14,506.3	1.5	4,576.7	3,446.9	3,858.1	576.4	969.2	1,079.1
2023	14,799.6	1.4	4,691.7	3,448.1	3,917.9	586.8	947.0	1,208.1

주: 일차에너지는 발전에 사용된 신재생에너지를 포함한 상업적 거래 연료로 구성됨.
 자료: EI 2024 Energy Institute Statistical Review of World Energy

Note: Primary energy comprises commercially traded fuels,
 including modern renewables used to generate electricity.
 Source: EI 2024 Energy Institute Statistical Review of World Energy

2. Energy Statistics

2-2. 국별 일차에너지 공급(2023년)

Primary Energy Supply by Country(2023)

단위: 엑사줄

Unit: EJ(Exajoules)

	합계 Total	석유 Oil	천연가스 Natural Gas	석탄 Coal	원자력 Nuclear	수력 Hydro	신재생 Renewables	
전세계	619.63	196.43	144.37	164.03	24.57	39.651	50.58	Total World
Non-OECD	389.73	109.29	81.11	138.88	8.13	26.69	25.62	Non-OECD
OECD	229.90	87.15	63.25	25.15	16.44	12.96	24.96	OECD
중국	170.74	32.73	14.57	91.94	3.90	11.46	16.13	China
미국	94.28	35.86	31.91	8.20	7.32	2.21	8.78	US
유럽연합	77.85	28.33	16.68	8.39	6.60	5.97	11.86	European Union
인도	39.02	10.57	2.25	21.98	0.43	1.39	2.38	India
러시아연합	31.29	7.21	16.32	3.83	1.95	1.88	0.10	Russian Federation
일본	17.40	6.65	3.33	4.54	0.70	0.70	1.49	Japan
캐나다	13.95	4.35	4.35	0.37	0.80	3.41	0.68	Canada
독일	11.41	4.01	2.72	1.83	0.06	0.18	2.60	Germany
한국	12.43	5.36	2.16	2.69	1.62	0.03	0.56	South Korea
브라질	13.87	5.11	1.08	0.57	0.13	4.01	2.97	Brazil
이란	12.71	3.50	8.84	0.08	0.06	0.21	0.02	Iran
사우디아라비아	11.60	7.43	4.11	^	-	-	0.05	Saudi Arabia
프랑스	8.66	2.76	1.22	0.18	3.03	0.52	0.95	France
인도네시아	10.11	3.10	1.64	4.32	-	0.23	0.83	Indonesia
영국	6.95	2.69	2.29	0.18	0.37	0.05	1.38	United Kingdom
튀르키예	7.00	2.30	1.74	1.65	-	0.60	0.71	Türkiye
멕시코	8.45	3.84	3.51	0.26	0.11	0.19	0.54	Mexico
이탈리아	5.95	2.47	2.11	0.22	-	0.36	0.78	Italy
호주	6.02	2.17	1.44	1.51	-	0.14	0.76	Australia
스페인	5.66	2.57	1.05	0.12	0.51	0.24	1.17	Spain
태국	5.01	2.31	1.70	0.60	-	0.06	0.33	Thailand
남아프리카공화국	4.85	1.09	0.17	3.33	0.08	0.02	0.18	South Africa
대만	4.53	1.63	1.01	1.49	0.16	0.04	0.20	Taiwan
아랍에미레이트	5.13	2.20	2.41	0.10	0.29	-	0.13	United Arab Emirates
폴란드	4.12	1.41	0.70	1.51	-	0.02	0.48	Poland
베트남	4.89	1.20	0.26	2.32	-	0.76	0.36	Vietnam
말레이시아	4.81	1.79	1.66	0.98	-	0.29	0.08	Malaysia
파키스탄	3.37	0.78	1.36	0.62	0.20	0.35	0.06	Pakistan
이집트	3.94	1.49	2.16	0.05	-	0.13	0.10	Egypt
네덜란드	3.44	1.70	0.93	0.16	0.04	^	0.61	Netherlands
싱가포르	3.47	2.99	0.44	0.01	-	-	0.02	Singapore
아르헨티나	1.39	0.49	0.25	0.10	-	0.36	0.19	Argentina
우크라이나	2.22	0.39	0.67	0.49	0.47	0.12	0.08	Ukraine
카자흐스탄	2.98	0.69	0.77	1.39	-	0.08	0.05	Kazakhstan

주: 1. 일차에너지는 발전에 사용된 신재생에너지를 포함한 상업적 거래 연료로 구성됨.

2. ^는 0.005 이하

자료: EI 2024 Energy Institute Statistical Review of World Energy

Note: 1. Primary energy comprises commercially traded fuels, including modern renewables used to generate electricity.

2. ^ Less than 0.005

Source: EI 2024 Energy Institute Statistical Review of World Energy

2-3. 지역별 일차에너지 공급

단위: 엑사줄

	1970	1980	1990	2000	2010	2012	2013	2014	2015
전세계	205.80	280.81	343.96	397.33	509.25	528.28	537.48	543.21	547.33
Non-OECD	61.09	104.09	145.41	164.91	272.18	295.78	302.66	310.32	313.89
OECD	144.71	176.73	198.55	232.41	237.06	232.50	234.81	232.88	233.43
유럽연합	45.28	58.63	62.79	64.89	65.82	63.19	62.74	60.54	61.38
북미	73.72	87.73	96.97	114.79	114.59	112.30	115.09	116.04	115.10
미국	65.54	74.71	81.39	95.57	93.43	90.17	92.62	93.59	92.69
캐나다	6.73	9.76	10.83	13.13	13.51	14.06	14.40	14.43	14.47
멕시코	1.45	3.26	4.75	6.10	7.65	8.07	8.07	8.03	7.94
중남미	6.40	11.27	14.40	20.82	26.94	28.81	29.32	29.71	29.57
브라질	1.63	4.15	5.64	8.48	11.47	12.21	12.51	12.83	12.66
아르헨티나	1.27	1.70	1.85	2.52	3.18	3.40	3.53	3.53	3.59
유럽	57.84	72.51	90.40	88.20	89.50	87.22	86.47	83.23	84.05
독일	13.00	15.26	15.09	14.36	13.85	13.54	13.93	13.36	13.61
프랑스	6.59	8.38	9.54	11.22	10.80	10.42	10.53	10.07	10.16
영국	9.18	8.57	9.03	9.59	8.93	8.57	8.56	8.09	8.21
이탈리아	5.05	6.21	6.68	7.56	7.33	7.00	6.69	6.34	6.53
독립국가연합	31.72	48.43	45.92	31.89	35.36	37.45	36.81	37.21	36.27
러시아	-	-	36.27	25.97	28.13	29.26	28.92	29.01	28.55
카자흐스탄	-	-	3.09	1.33	2.20	2.63	2.63	2.77	2.29
우즈베키스탄	-	-	1.87	2.14	1.89	1.95	1.96	2.04	1.94
중동	2.54	5.27	10.76	17.17	29.37	31.64	32.67	33.81	34.82
이란	0.60	1.46	2.92	5.03	8.75	9.19	9.55	9.97	9.85
사우디아라비아	0.95	1.51	3.34	4.81	8.82	9.77	9.83	10.55	11.00
이라크	0.14	0.36	0.86	1.16	1.37	1.54	1.69	1.64	1.61
아프리카	3.21	6.09	9.39	11.51	16.04	16.83	17.31	17.78	18.16
남아공	1.52	2.33	3.71	4.27	5.27	5.13	5.15	5.21	5.10
이집트	0.33	0.76	1.41	2.05	3.22	3.53	3.50	3.46	3.51
아시아태평양	30.36	49.50	76.12	112.96	197.44	214.03	219.80	225.42	229.36
중국	8.50	17.38	28.58	42.48	104.60	117.45	121.87	125.02	126.49
인도	2.75	4.39	8.28	13.41	22.50	25.02	25.84	27.59	28.55
일본	12.31	15.47	18.66	22.51	21.54	20.22	20.07	19.55	19.31
한국	0.60	1.63	3.84	8.08	10.93	11.58	11.61	11.71	11.91
인도네시아	0.39	1.10	2.16	4.19	6.26	6.82	6.52	6.62	6.72

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

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-3. Primary Energy Supply by Region

Unit: EJ(Exajoules)

2016	2017	2018	2019	2020	2021	2022	2023	'23년 점유율 Share of total 2023	
552.99	566.11	581.47	588.05	567.60	596.62	607.35	619.63	100.0%	Total World
318.36	328.98	340.81	349.52	345.69	364.07	373.80	389.73	62.9%	Non-OECD
234.62	237.13	240.65	238.53	221.91	232.56	233.55	229.90	37.1%	OECD
62.01	62.98	62.79	61.76	57.11	60.21	57.85	56.38	9.1%	European Union
115.07	115.76	119.25	118.40	109.75	115.20	117.90	116.68	18.8%	Total North America
92.62	92.97	96.37	95.68	88.64	93.44	95.42	94.28	15.2%	United States
14.34	14.54	14.72	14.64	13.76	13.92	14.30	13.95	2.3%	Canada
8.11	8.26	8.15	8.07	7.35	7.83	8.18	8.45	1.4%	Mexico
29.44	29.65	29.37	29.19	26.92	28.99	30.37	31.28	5.0%	Total S. & Cent. America
12.36	12.47	12.51	12.72	12.22	12.85	13.44	13.87	2.2%	Brazil
3.57	3.57	3.54	3.34	3.13	3.45	3.71	3.67	0.6%	Argentina
85.06	86.19	86.21	84.90	79.16	83.01	79.60	77.85	12.6%	Total Europe
13.83	14.00	13.64	13.30	12.40	12.76	12.29	11.41	1.8%	Germany
9.96	9.92	10.04	9.83	8.79	9.34	8.27	8.66	1.4%	France
8.08	8.10	8.09	7.92	7.10	7.17	7.27	6.95	1.1%	United Kingdom
6.56	6.64	6.67	6.55	5.95	6.37	6.19	5.95	1.0%	Italy
37.15	37.52	39.05	38.82	37.78	39.25	40.43	40.72	6.6%	Total CIS
29.11	29.29	30.36	30.13	29.08	30.01	31.08	31.29	5.0%	Russia
2.56	2.75	2.84	2.88	2.65	2.96	2.95	2.98	0.5%	Kazakhstan
1.88	1.93	1.94	1.95	1.94	2.04	2.12	2.10	0.3%	Uzbekistan
36.05	36.59	36.65	37.17	36.51	37.27	39.29	40.46	6.5%	Total Middle East
10.39	10.78	11.15	11.75	12.20	11.96	12.48	12.71	2.1%	Iran
11.45	11.45	11.17	10.68	10.39	10.73	11.34	11.60	1.9%	Saudi Arabia
1.75	2.04	2.13	2.30	2.06	2.13	2.39	2.51	0.4%	Iraq
18.67	19.29	19.77	20.20	19.14	20.75	20.95	20.87	3.4%	Total Africa
5.34	5.32	5.12	5.35	5.01	5.06	4.87	4.85	0.8%	South Africa
3.71	3.85	3.86	3.78	3.56	3.81	3.98	3.94	0.6%	Egypt
231.54	241.10	251.16	259.38	258.34	272.15	278.81	291.77	47.1%	Total Asia Pacific
127.00	131.94	138.27	144.68	149.38	157.85	160.26	170.74	27.6%	China
29.83	30.96	32.72	33.54	31.78	34.51	36.37	39.02	6.3%	India
19.06	19.28	19.14	18.74	17.37	18.13	18.02	17.40	2.8%	Japan
12.27	12.40	12.61	12.47	12.05	12.62	12.75	12.43	2.0%	South Korea
6.83	7.08	7.75	8.28	7.79	7.97	10.05	10.11	1.6%	Indonesia

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

Source: EI 2024 Energy Institute Statistical Review of World Energy

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 2020	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
트리니다드토바고	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: EI 2024 Energy Institute Statistical Review of World Energy

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 2020	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: EI 2024 Energy Institute Statistical Review of World Energy

2-5. 국별 원유 생산

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2020	2021	2022	2023	23년 점유율 Share of total 2023	
전세계	57,344.6	67,841.0	81,823.7	91,717.4	88,928.2	90,282.2	94,291.8	96,376.1	100.0%	Total World
Non-OECD	37,041.8	46,489.2	61,378.7	67,112.7	60,683.8	61,767.8	64,677.4	65,045.9	67.5%	Non-OECD
Non-OPEC	41,899.7	41,188.1	47,634.9	55,375.3	57,821.3	58,354.4	60,044.4	62,327.8	64.7%	Non-OPEC
OPEC	15,444.9	26,652.9	34,188.8	36,342.0	31,107.0	31,927.8	34,247.4	34,048.3	35.3%	OPEC
OECD	20,302.9	21,351.8	20,445.0	24,604.7	28,244.5	28,514.3	29,614.5	31,330.1	32.5%	OECD
유럽연합	749.4	780.7	867.2	534.2	391.8	369.5	345.6	328.0	0.3%	European Union
북미	15,305.2	13,778.5	13,707.3	19,756.4	23,533.3	24,032.7	25,361.4	27,050.4	28.1%	Total North America
미국	10,580.4	8,321.6	6,900.8	12,781.7	16,493.1	16,692.6	17,843.8	19,358.1	20.1%	United States
캐나다	1,812.8	2,402.1	3,040.9	4,388.1	5,130.3	5,413.8	5,574.6	5,652.5	5.9%	Canada
멕시코	2,912.0	3,054.8	3,765.6	2,586.5	1,909.9	1,926.3	1,943.0	2,039.8	2.1%	Mexico
중남미	3,721.4	5,779.0	7,337.4	7,991.5	6,085.9	6,110.6	6,625.7	7,367.8	7.6%	Total S. & Cent. America
브라질	561.0	714.9	1,705.6	2,525.0	3,030.3	2,991.3	3,112.5	3,502.3	3.6%	Brazil
베네수엘라	1,744.0	2,959.0	3,302.1	2,863.9	679.7	678.5	735.2	853.3	0.9%	Venezuela
유럽	4,564.9	6,643.3	5,850.7	3,601.7	3,612.1	3,435.5	3,213.8	3,224.9	3.3%	Total Europe
노르웨이	823.0	2,903.0	2,983.4	1,952.6	2,018.3	2,035.6	1,905.7	2,021.9	2.1%	Norway
영국	2,695.4	2,769.2	1,837.8	963.5	1,048.7	874.1	808.8	715.0	0.7%	United Kingdom
독립국가연합	11,870.2	7,168.5	11,686.6	13,966.0	13,467.7	13,806.1	13,932.5	13,868.3	14.4%	Total CIS
러시아	10,862.6	6,235.8	9,597.7	11,086.8	10,665.8	10,999.8	11,202.4	11,075.2	11.5%	Russian Federation
카자흐스탄	484.8	450.4	1,294.3	1,672.0	1,796.4	1,805.3	1,770.8	1,891.4	2.0%	Kazakhstan
중동	10,596.5	20,150.4	25,479.8	29,900.8	27,782.1	28,171.3	30,843.8	30,362.4	31.5%	Total Middle East
사우디아라비아	3,601.0	8,973.5	10,838.6	11,997.9	11,039.0	10,953.8	12,190.9	11,389.0	11.8%	Saudi Arabia
이라크	1,425.3	530.3	1,833.0	3,986.0	4,113.7	4,102.4	4,519.7	4,355.3	4.5%	Iraq
아랍에미레이트	1,211.1	2,444.0	2,945.5	3,875.8	3,679.5	3,640.4	4,020.1	3,921.5	4.1%	U.A.E
이란	2,205.2	3,743.8	4,217.5	3,852.8	3,230.0	3,766.0	3,945.0	4,662.0	4.8%	Iran
쿠웨이트	1,127.0	2,130.0	2,669.2	3,069.4	2,721.3	2,706.4	3,035.7	2,908.2	3.0%	Kuwait
카타르	315.2	460.9	1,147.9	1,844.1	1,714.6	1,697.1	1,742.8	1,771.5	1.8%	Qatar
아프리카	5,368.8	7,050.2	9,770.7	8,123.1	6,998.0	7,360.2	7,063.0	7,227.6	7.5%	Total Africa
나이지리아	1,498.9	1,948.6	2,482.0	2,198.9	1,894.2	1,678.2	1,445.0	1,540.3	1.6%	Nigeria
알제리아	1,087.0	1,309.5	1,989.9	1,557.7	1,332.2	1,353.1	1,442.7	1,408.2	1.5%	Algeria
앙골라	232.5	632.9	1,269.0	1,795.6	1,325.1	1,177.3	1,190.7	1,150.1	1.2%	Angola
아시아-태평양	5,917.7	7,271.1	7,991.1	8,377.9	7,449.1	7,365.8	7,251.6	7,274.6	7.5%	Total Asia Pacific
중국	2,508.3	2,992.6	3,642.0	4,308.8	3,900.7	3,994.0	4,111.3	4,197.7	4.4%	China
인도네시아	1,342.0	1,578.0	1,095.7	837.6	742.0	691.6	646.9	637.8	0.7%	Indonesia

주: 원유, 셰일유, 오일샌드, NGL 포함. 바이오매스와 석탄 파생물 등의 다른 에너지원의 액체연료는 제외.

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-5. Crude Oil Production by Country

단위: 백만 톤

Unit: Million tonnes

	1985	1995	2005	2015	2020	2021	2022	2023	23년 점유율 Share of total 2023	
전세계	2,791.5	3,279.1	3,932.5	4,363.9	4,188.2	4,237.9	4,424.1	4,514.1	100.0%	Total World
OECD	968.2	1,007.1	955.4	1,140.5	1,282.6	1,290.6	1,335.7	3,102.9	68.7%	OECD
Non-OECD	1,823.3	2,271.9	2,977.1	3,223.5	2,905.6	2,947.3	3,088.4	2,916.3	64.6%	Non-OECD
OPEC	750.5	1,294.7	1,646.3	1,731.1	1,468.0	1,501.5	1,611.8	1,597.8	35.4%	OPEC
Non-OPEC	2,041.0	1,984.4	2,286.2	2,632.8	2,720.3	2,736.4	2,812.3	1,411.2	31.3%	Non-OPEC
유럽연합	36.1	37.7	42.1	26.1	19.2	18.0	16.8	16.0	0.4%	European Union
북미	730.2	645.7	638.2	910.6	1,060.4	1,079.0	1,133.6	1,207.5	26.8%	Total North America
미국	498.7	383.6	309.0	567.0	713.3	715.9	762.1	827.1	18.3%	United States
캐나다	85.7	111.9	142.7	216.1	252.0	266.6	273.9	277.9	6.2%	Canada
멕시코	145.9	150.2	186.5	127.5	95.1	96.4	97.6	102.5	2.3%	Mexico
중남미	192.6	300.1	374.7	410.7	313.0	313.5	339.7	378.1	8.4%	Total S. & Cent. America
브라질	29.5	37.5	89.0	132.2	159.3	156.9	163.2	183.7	4.1%	Brazil
베네수엘라	91.5	155.3	169.4	147.6	34.6	34.5	37.5	43.7	1.0%	Venezuela
유럽	217.3	315.2	274.3	166.9	168.4	160.9	151.4	152.1	3.4%	Total Europe
노르웨이	39.2	138.4	139.5	88.0	92.7	94.3	89.2	94.7	2.1%	Norway
영국	127.6	129.9	84.7	45.3	49.0	40.9	37.8	33.4	0.7%	United Kingdom
독립국가연합	589.9	354.3	575.6	683.4	659.1	673.2	679.2	675.2	15.0%	Total CIS
러시아	542.3	310.7	474.8	544.6	524.4	538.8	548.5	541.7	12.0%	Russia
카자흐스탄	22.7	20.6	61.5	79.5	85.7	85.9	84.2	90.0	2.0%	Kazakhstan
중동	514.1	975.4	1,222.5	1,406.5	1,300.3	1,314.7	1,442.1	1413.9	31.3%	Total Middle East
사우디아라비아	172.1	431.3	516.6	568.0	519.6	515.0	574.2	531.7	11.8%	Saudi Arabia
이라크	69.8	26.0	89.9	195.6	202.0	200.8	221.3	213.0	4.7%	Iraq
아랍에미리트	56.0	114.4	136.6	175.1	165.9	163.4	181.1	176.1	3.9%	U.A.E
이란	110.4	185.5	207.9	180.2	147.7	172.2	180.2	214.3	4.7%	Iran
쿠웨이트	55.5	104.9	130.4	148.2	131.2	130.0	145.9	139.8	3.1%	Kuwait
카타르	15.3	21.8	52.6	77.4	72.2	70.8	72.7	74.1	1.6%	Qatar
아프리카	258.0	336.3	464.5	386.4	333.9	348.4	333.6	341.5	7.6%	Total Africa
나이지리아	73.8	95.1	121.1	105.7	91.4	80.7	69.3	73.9	1.6%	Nigeria
알제리아	47.1	55.8	86.4	67.2	57.6	58.2	62.1	60.4	1.3%	Algeria
앙골라	11.5	31.2	62.4	88.2	64.6	57.1	57.8	55.8	1.2%	Angola
아시아-태평양	289.4	352.3	382.8	399.4	353.1	348.2	344.5	345.7	7.7%	Total Asia Pacific
중국	124.9	149.0	181.4	214.6	194.8	198.9	204.7	209.0	4.6%	China
인도네시아	66.3	76.5	53.7	40.6	36.3	33.7	31.5	31.1	0.7%	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: EI 2024 Energy Institute Statistical Review of World Energy

2-6. 국별 석유제품 소비

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2020	2021	2022	2023	23년 점유율 Share of total 2023	
전세계	59,293.7	70,050.9	84,139.5	92,766.9	89,447.6	94,731.7	97,683.3	100,220.6	100.0%	Total World
Non-OECD	21,039.9	24,470.1	33,755.9	47,471.4	48,561.1	50,924.5	52,913.4	55,489.2	55.4%	Non-OECD
OECD	38,253.8	45,580.8	50,383.6	45,295.5	40,886.5	43,807.2	44,769.9	44,731.4	44.6%	OECD
유럽연합	11,444.1	12,539.1	13,170.1	10,981.6	9,855.1	10,390.4	10,686.5	10,488.0	10.5%	European Union
북미	18,782.3	21,303.0	25,098.0	22,967.8	20,906.5	22,773.5	23,105.6	23,296.3	23.2%	Total North America
미국	15,726.4	17,634.4	20,531.5	18,499.2	17,183.3	18,784.7	18,862.2	18,983.6	18.9%	United States
캐나다	1,699.0	1,898.9	2,342.6	2,430.8	2,121.2	2,219.0	2,312.0	2,351.2	2.3%	Canada
멕시코	1,356.9	1,769.7	2,223.9	2,037.8	1,602.0	1,769.8	1,931.4	1,961.6	2.0%	Mexico
중남미	3,148.6	4,174.5	5,161.2	6,439.9	5,183.8	5,804.7	6,244.2	6,444.9	6.4%	Total S. & Cent. America
브라질	1,107.3	1,531.4	1,962.6	2,583.1	2,218.5	2,394.2	2,512.2	2,566.9	2.6%	Brazil
아르헨티나	412.3	459.0	481.3	695.4	504.3	612.7	723.5	689.7	0.7%	Argentina
베네수엘라	418.1	484.0	580.6	711.3	229.7	247.3	310.3	396.4	0.4%	Venezuela
유럽	15,593.8	16,057.8	16,714.8	14,357.6	12,925.6	13,591.1	14,009.2	13,903.8	13.9%	Total Europe
독일	2,643.5	2,859.6	2,549.9	2,269.1	2,046.7	2,038.3	2,072.4	1,954.7	2.0%	Germany
프랑스	1,769.1	1,897.0	1,927.3	1,579.3	1,275.4	1,372.8	1,360.3	1,347.8	1.3%	France
영국	1,616.0	1,765.8	1,807.0	1,529.5	1,183.3	1,217.3	1,309.5	1,324.8	1.3%	United Kingdom
독립국가연합	6,588.1	3,855.3	3,348.3	4,085.0	4,234.8	4,493.9	4,583.5	4,635.8	4.6%	Total CIS
러시아	4,943.7	3,058.0	2,645.9	3,276.7	3,303.7	3,523.3	3,614.6	3,635.0	3.6%	Russia
카자흐스탄	421.1	242.4	186.0	273.9	263.8	326.8	322.7	349.0	0.3%	Kazakhstan
중동	2,968.8	4,447.2	6,367.1	8,861.2	8,322.9	8,786.4	9,399.0	9,645.5	9.6%	Total Middle East
사우디아라비아	993.2	1,354.3	2,203.3	3,964.2	3,437.3	3,600.3	3,854.2	4,051.9	4.0%	Saudi Arabia
이란	888.0	1,210.6	1,594.9	1,552.1	1,722.4	1,793.8	1,853.0	1,816.8	1.8%	Iran
아랍에미리트	169.1	395.8	496.0	918.9	909.3	965.7	1,110.0	1,139.4	1.1%	U.A.E
아프리카	1,724.8	2,178.4	2,878.7	3,895.8	3,694.1	4,032.2	4,231.3	4,233.0	4.2%	Total Africa
이집트	406.2	462.6	606.4	816.9	606.6	654.3	755.7	741.9	0.7%	Egypt
남아공	295.5	417.6	516.8	603.3	465.3	501.6	511.9	522.4	0.5%	South Africa
아시아-태평양	10,487.3	18,034.7	24,571.4	32,159.6	34,179.9	35,249.9	36,110.5	38,061.1	38.0%	Total Asia Pacific
중국	1,734.5	3,220.4	6,815.7	11,889.8	14,403.7	14,888.3	14,970.0	16,576.5	16.5%	China
인도	896.0	1,585.1	2,625.4	4,180.6	4,738.0	4,841.1	5,208.7	5,446.1	5.4%	India
일본	4,465.0	5,764.6	5,548.9	4,235.2	3,412.3	3,485.2	3,503.9	3,365.8	3.4%	Japan
한국	537.3	2,016.9	2,287.0	2,568.3	2,630.2	2,816.3	2,856.0	2,797.0	2.8%	South Korea
인도네시아	464.9	852.0	1,265.0	1,507.8	1,402.9	1,463.7	1,597.4	1,603.8	1.6%	Indonesia
싱가포르	230.0	605.8	773.5	1,231.9	1,262.2	1,247.5	1,203.4	1,359.3	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: EI 2024 Energy Institute Statistical Review of World Energy

2-6. Petroleum Products Consumption by Country

단위: 백만 톤

Unit: Million tonnes

	1985	1995	2005	2015	2020	2021	2022	2023	23년 점유율 Share of total 2023	
전세계	2,815.4	3,286.7	3,912.4	4,234.5	4,051.2	4,277.6	4,422.1	4,530.5	100.0%	Total World
OECD	1,776.4	2,105.9	2,323.9	2,043.8	1,825.4	1,954.1	2,002.4	2,536.6	56.0%	OECD
Non-OECD	1,039.0	1,180.8	1,588.5	2,190.7	2,225.8	2,323.5	2,419.6	1,993.9	44.0%	Non-OECD
유럽연합	555.9	603.4	634.0	519.3	465.6	489.4	504.4	494.0	10.9%	European Union
북미	841.9	955.1	1,134.6	1,008.3	900.8	983.4	1,000.3	1,005.1	22.2%	Total North America
미국	706.3	792.0	927.0	811.6	739.6	808.2	813.4	815.6	18.0%	United States
캐나다	74.6	84.7	104.4	106.2	91.5	95.2	99.2	99.8	2.2%	Canada
멕시코	60.9	78.5	103.1	90.5	69.7	80.0	87.7	89.7	2.0%	Mexico
중남미	152.3	198.5	245.2	301.0	242.8	271.1	291.1	301.2	6.6%	Total S. & Cent. America
브라질	52.3	71.3	92.5	120.2	102.6	110.7	116.0	118.4	2.6%	Brazil
아르헨티나	20.1	21.9	22.5	32.8	24.4	29.5	34.5	32.8	0.7%	Argentina
베네수엘라	20.4	22.6	26.8	32.6	11.4	12.2	15.0	19.8	0.4%	Venezuela
유럽	759.6	769.7	798.5	677.0	609.3	639.1	660.5	653.6	14.4%	Total Europe
독일	126.3	135.1	120.4	106.7	96.2	95.0	97.0	91.6	2.0%	Germany
영국	77.5	82.2	82.9	70.3	54.2	56.3	60.8	63.5	1.4%	United Kingdom
프랑스	84.3	90.1	91.9	74.7	60.2	64.7	64.4	61.7	1.4%	France
독립국가연합	330.5	190.8	158.9	186.5	191.9	202.8	207.0	210.1	4.6%	Total CIS
러시아	247.4	150.6	125.0	149.7	149.7	159.2	163.4	165.3	3.6%	Russian Federation
카자흐스탄	20.7	12.0	9.1	12.8	12.4	15.2	14.9	15.8	0.3%	Kazakhstan
중동	143.2	211.8	291.1	391.3	362.5	382.9	411.6	421.4	9.3%	Total Middle East
사우디아라비아	46.8	60.2	93.5	172.9	146.6	153.3	165.3	172.4	3.8%	Saudi Arabia
이란	43.4	58.7	75.6	68.7	75.1	78.4	81.5	79.8	1.8%	Iran
아랍에미리트	8.7	20.6	24.6	40.7	40.0	42.9	49.3	50.6	1.1%	U.A.E
아프리카	84.3	104.7	136.7	182.8	169.7	185.1	195.0	194.8	4.3%	Total Africa
이집트	20.8	23.3	29.2	38.7	27.4	29.7	35.3	34.3	0.8%	Egypt
남아공	14.1	20.0	24.8	28.7	22.1	23.8	24.4	24.9	0.6%	South Africa
아시아-태평양	503.6	856.0	1,147.4	1,487.6	1,574.2	1,613.0	1,656.6	1,744.3	38.5%	Total Asia Pacific
중국	85.7	153.5	323.6	557.0	675.7	691.6	695.1	768.6	17.0%	China
인도	43.3	75.2	121.8	195.4	215.5	218.3	238.0	249.3	5.5%	India
일본	210.6	269.8	256.0	193.8	155.1	157.9	159.4	151.4	3.3%	Japan
한국	26.1	94.8	103.4	112.9	114.6	122.1	123.7	121.4	2.7%	South Korea
인도네시아	22.4	40.9	59.5	67.3	61.5	64.0	70.2	70.3	1.6%	Indonesia
싱가폴	12.1	32.0	40.3	64.2	66.1	65.5	63.2	70.7	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: EI 2024 Energy Institute Statistical Review of World Energy

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
2022	99.93	96.38	101.32	94.58	96.54
2023	82.98	82.10	82.17	77.60	82.16

1. 1972-1985년은 Arabian Light 가격, 1986-2023년은 Dubai 가격

2. 1976-1983년 Forties 가격, 1984-2023년은 Brent 가격

3. 1976-1983년은 공시가격, 1984-2023년은 현물가격

자료: 한국석유공사, EI 2024 Energy Institute Statistical Review of World Energy

1. 1972 - 1985 Arabian Light, 1986 - 2023 Dubai dated

2. 1976 - 1983 Forties, 1984 - 2023 Brent dated

3. 1976 - 1983 Posted WTI prices, 1984 - 2023 Spot WTI (Cushing) prices

Source: KNOC, EI 2024 Energy Institute Statistical Review of World Energy

2-8. 국별 석유 정제 능력

Refinery Capacities by Country

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2021	2022	2023	'23년 점유율 Share of total 2023	
전세계	73,387	76,800	88,040	98,167	101,367	101,902	103,498	100%	Total World
Non-OECD	31,902	34,555	42,292	53,397	57,713	58,486	59,844	57.8%	Non-OECD
OECD	41,485	42,245	45,748	44,771	43,654	43,416	43,654	42.2%	OECD
미국	15,459	15,333	17,339	18,317	17,941	18,061	18,429	17.8%	United States
중국	2,348	4,386	8,463	15,024	16,990	17,259	18,484	17.9%	China
유럽연합	14,241	13,476	14,387	12,871	12,313	12,210	12,154	11.7%	European Union
러시아	7,072	6,612	5,313	6,472	6,861	6,821	6,781	6.6%	Russia
인도	867	1,133	2,558	4,307	5,005	5,045	5,085	4.9%	India
한국	751	1,727	2,598	3,128	3,363	3,363	3,363	3.2%	South Korea
일본	4,724	5,006	4,531	3,721	3,285	3,164	3,069	3.0%	Japan
사우디아라비아	1,510	1,692	2,102	2,899	2,977	3,312	3,289	3.2%	Saudi Arabia
이란	1,085	1,405	1,692	2,075	2,610	2,670	2,604	2.5%	Iran
브라질	1,435	1,481	1,942	2,281	2,303	2,304	2,290	2.2%	Brazil
독일	2,198	2,104	2,322	2,049	2,121	2,121	2,076	2.0%	Germany
캐나다	1,880	1,792	1,896	1,931	1,954	1,954	1,954	1.9%	Canada
이탈리아	2,585	2,359	2,515	1,900	1,900	1,794	1,794	1.7%	Italy
스페인	1,312	1,308	1,377	1,562	1,591	1,591	1,591	1.5%	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	1,461	1,302	1,302	1.3%	Singapore
아랍에미리트	180	220	711	1,149	1,246	1,246	1,259	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	1,251	1,251	1,219	1.2%	United Kingdom
프랑스	2,184	1,728	1,978	1,375	1,140	1,140	1,145	1.1%	France
태국	166	477	1,078	1,252	1,245	1,244	1,244	1.2%	Thailand
네덜란드	1,478	1,257	1,274	1,298	1,238	1,241	1,241	1.2%	Netherlands
대만	570	732	1,159	988	1,131	1,083	1,083	1.0%	Taiwan
인도네시아	824	941	1,004	1,111	1,094	1,104	1,242	1.2%	Indonesia
말레이시아	209	365	522	612	955	955	955	0.9%	Malaysia
이라크	660	648	728	763	919	919	1,219	1.2%	Iraq
튀르키예	466	713	613	596	822	822	822	0.8%	Türkiye
쿠웨이트	584	824	936	936	800	1,118	1,309	1.3%	Kuwait
이집트	433	633	810	810	795	825	795	0.8%	Egypt
벨기에	569	669	756	776	645	645	645	0.6%	Belgium
알제리	440	434	443	651	657	657	657	0.6%	Algeria
폴란드	361	341	507	581	581	581	583	0.6%	Poland
아르헨티나	677	639	615	657	580	580	580	0.6%	Argentina

자료: EI 2024 Energy Institute Statistical Review of World Energy

Source: EI 2024 Energy Institute Statistical Review of World Energy

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
트리니다드토바고	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 나눔

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

자료: EI 2024 Energy Institute Statistical Review of World Energy

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: EI 2024 Energy Institute Statistical Review of World Energy

2-10. 국별 천연가스 생산

단위: 액사줄

	1970	1980	1990	2000	2010	2016	2017
전세계	35.14	51.42	70.91	86.43	113.41	126.28	132.15
Non-OECD	9.05	21.43	40.90	48.44	72.70	79.84	84.34
OECD	26.09	29.99	30.01	37.99	40.71	46.43	47.81
유럽연합	3.35	5.94	5.13	4.67	4.52	2.96	2.76
북미	22.91	22.37	22.08	26.22	27.93	33.70	34.41
미국	20.57	18.90	17.40	18.67	20.71	26.18	26.86
캐나다	1.94	2.56	3.72	6.35	5.39	5.94	6.17
멕시코	0.40	0.90	0.95	1.20	1.84	1.57	1.38
중남미	0.67	1.27	2.17	3.66	5.78	6.41	6.53
아르헨티나	0.21	0.29	0.62	1.31	1.40	1.34	1.34
트리니다드토바고	0.06	0.10	0.20	0.50	1.45	1.13	1.15
베네수엘라	0.31	0.59	0.88	1.12	1.10	1.34	1.39
유럽	3.78	8.23	8.76	11.16	11.16	9.36	9.46
노르웨이	-	0.90	0.91	1.78	3.82	4.17	4.46
영국	0.39	1.31	1.71	4.08	2.08	1.50	1.51
네덜란드	1.01	2.88	2.28	2.21	2.71	1.59	1.37
독립국가연합	6.75	14.84	26.31	23.19	26.62	27.19	28.88
러시아	-	-	21.59	19.33	21.54	21.21	22.88
투르크메니스탄	-	-	2.85	1.53	1.44	2.28	2.11
우즈베키스탄	-	-	1.33	1.83	2.06	1.91	1.93
중동	0.37	1.23	3.63	7.35	17.09	22.47	22.78
이란	0.13	0.16	0.89	2.03	5.18	7.18	7.70
카타르	0.04	0.18	0.23	0.93	4.43	6.29	6.14
사우디아라비아	0.06	0.33	1.15	1.70	3.00	3.79	3.93
아랍에미레이트	0.03	0.26	0.71	1.35	1.80	2.14	1.90
아프리카	0.11	0.89	2.60	4.86	7.25	7.55	8.28
알제리	0.09	0.55	1.86	3.31	2.79	3.29	3.35
이집트	^	0.08	0.28	0.73	2.12	1.45	1.76
나이지리아	^	0.06	0.14	0.40	1.11	1.53	1.70
아시아-태평양	0.54	2.58	5.37	9.99	17.57	19.60	21.82
중국	0.10	0.52	0.56	0.99	3.48	4.97	5.37
말레이시아	-	0.09	0.65	1.79	2.34	2.76	2.86
인도네시아	0.05	0.68	1.60	2.54	3.13	2.70	2.62

주 : ^는 0.005 이하, ◆는 0.05% 이하

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-10. Natural Gas Production by Country

Unit: EJ(Exajoules)

2018	2019	2020	2021	2022	2023	'23년 점유율 Share of total 2023	
138.43	142.71	139.18	145.57	145.75	146.13	100.0%	Total World
86.79	88.09	85.28	90.93	88.16	87.36	59.8%	Non-OECD
51.64	54.61	53.90	54.65	57.59	58.77	40.2%	OECD
2.48	2.19	1.72	1.60	1.47	1.24	0.8%	European Union
38.00	40.84	40.53	41.36	43.63	45.40	31.1%	Total North America
30.27	33.41	33.29	34.00	35.76	37.27	25.5%	United States
6.36	6.11	5.96	6.20	6.65	6.85	4.7%	Canada
1.36	1.32	1.28	1.15	1.21	1.28	0.9%	Mexico
6.33	6.19	5.64	5.71	5.89	5.83	4.0%	Total S. & Cent. America
1.42	1.50	1.38	1.39	1.50	1.50	1.0%	Argentina
1.22	1.24	1.06	0.89	0.94	0.90	0.6%	Trinidad & Tobago
1.14	0.92	0.78	1.01	1.05	1.07	0.7%	Venezuela
9.05	8.46	7.89	7.60	7.93	7.36	5.0%	Total Europe
4.37	4.12	4.02	4.12	4.43	4.20	2.9%	Norway
1.46	1.41	1.42	1.18	1.37	1.24	0.8%	United Kingdom
1.17	1.00	0.72	0.65	0.54	0.35	0.2%	Netherlands
30.50	30.87	29.10	32.08	29.07	27.85	19.1%	Total CIS
24.09	24.44	22.98	25.28	22.26	21.11	14.4%	Russia
2.21	2.27	2.38	2.85	2.82	2.75	1.9%	Turkmenistan
2.10	2.07	1.70	1.83	1.76	1.59	1.1%	Uzbekistan
23.25	23.80	24.05	24.74	25.26	25.66	17.6%	Total Middle East
7.92	8.22	8.49	8.74	8.92	9.06	6.2%	Iran
6.31	6.38	6.30	6.37	6.43	6.52	4.5%	Qatar
4.04	4.00	4.07	4.12	4.20	4.11	2.8%	Saudi Arabia
1.67	1.93	1.93	1.91	1.95	2.00	1.4%	U.A.E
8.73	8.84	8.35	9.60	9.21	9.13	6.2%	Total Africa
3.38	3.13	2.93	3.64	3.51	3.66	2.5%	Algeria
2.11	2.34	2.10	2.44	2.32	2.06	1.4%	Egypt
1.74	1.77	1.78	1.89	1.70	1.57	1.1%	Nigeria
22.57	23.71	23.63	24.48	24.76	24.91	17.0%	Total Asia Pacific
5.81	6.36	6.98	7.53	7.99	8.43	5.8%	China
2.74	2.79	2.63	2.84	2.99	2.92	2.0%	Malaysia
2.62	2.43	2.33	2.32	2.26	2.31	1.6%	Indonesia

Note : ^ Less than 0.005, ◆ Less than 0.05%

Source: EI 2024 Energy Institute Statistical Review of World Energy

2-11. 국별 천연가스 소비

단위: 액사출

	1970	1980	1990	2000	2010	2016	2017
전세계	34.61	51.25	70.13	86.38	113.74	126.83	131.46
Non-OECD	8.96	19.31	34.18	37.87	57.82	67.19	71.05
OECD	25.66	31.94	35.95	48.51	55.92	59.64	60.41
유럽연합	3.44	8.24	10.49	12.92	15.24	13.27	13.89
북미	22.30	21.81	21.87	27.13	29.01	33.76	33.68
미국	20.70	19.21	18.61	22.62	23.33	26.97	26.64
캐나다	1.25	1.79	2.30	3.21	3.30	3.80	3.95
멕시코	0.36	0.80	0.97	1.29	2.38	2.99	3.10
중남미	0.68	1.30	2.14	3.54	5.30	6.27	6.34
아르헨티나	0.21	0.40	0.71	1.16	1.52	1.74	1.74
브라질	^	0.04	0.11	0.35	0.99	1.34	1.35
유럽	3.91	10.11	17.38	20.11	22.44	19.34	20.13
독일	0.58	2.20	2.29	2.99	3.17	3.06	3.16
영국	0.43	1.69	1.98	3.65	3.55	2.88	2.82
이탈리아	0.44	0.94	1.64	2.44	2.85	2.43	2.58
튀르키예	-	-	0.12	0.50	1.29	1.60	1.86
프랑스	0.34	0.91	1.09	1.50	1.78	1.60	1.61
네덜란드	0.64	1.27	1.33	1.48	1.68	1.27	1.31
독립국가연합	6.82	13.57	18.40	16.26	19.05	19.37	19.84
러시아	-	-	14.91	13.18	15.26	15.14	15.52
우즈베키스탄	-	-	1.26	1.75	1.59	1.56	1.61
중동	0.34	1.14	3.44	6.60	13.70	18.04	18.35
이란	0.09	0.16	0.82	2.14	5.20	7.07	7.38
사우디아라비아	0.06	0.33	1.15	1.70	3.00	3.79	3.93
아랍에미레이트	0.03	0.17	0.59	1.10	2.13	2.59	2.36
아프리카	0.06	0.67	1.44	2.00	3.53	4.86	5.24
이집트	^	0.08	0.28	0.69	1.56	1.78	2.01
알제리아	0.04	0.39	0.70	0.69	0.91	1.39	1.42
아시아 태평양	0.51	2.64	5.46	10.74	20.71	25.19	27.87
중국	0.10	0.52	0.56	0.89	3.92	7.54	8.69
일본	0.13	0.91	1.81	2.72	3.60	4.19	4.21
인도	0.02	0.04	0.42	0.91	2.12	1.83	1.93
한국	-	-	0.11	0.71	1.62	1.72	1.79

주 : ^는 0.005 이하, ◆는 0.05% 이하

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-11. Natural Gas Consumption by Country

Unit: EJ(Exajoules)

2018	2019	2020	2021	2022	2023	'23년 점유율 Share of total 2023	
137.96	140.70	139.37	144.86	144.31	144.37	100.0%	Total World
74.27	75.50	75.62	79.77	79.75	81.11	56.2%	Non-OECD
63.68	65.20	63.75	65.09	64.56	63.25	43.8%	OECD
13.63	14.13	13.68	14.29	12.38	11.50	8.0%	European Union
37.08	38.27	37.52	37.68	39.40	39.77	27.5%	Total North America
29.59	30.64	30.04	30.11	31.67	31.91	22.1%	United States
4.24	4.27	4.15	4.27	4.46	4.35	3.0%	Canada
3.25	3.36	3.32	3.30	3.27	3.51	2.4%	Mexico
6.08	5.85	5.35	6.07	5.85	5.82	4.0%	Total S. & Cent. America
1.75	1.68	1.58	1.65	1.65	1.62	1.1%	Argentina
1.29	1.29	1.13	1.46	1.15	1.08	0.7%	Brazil
19.74	20.00	19.50	20.61	17.92	16.68	11.6%	Total Europe
3.09	3.21	3.14	3.30	2.79	2.72	1.9%	Germany
2.84	2.80	2.63	2.77	2.55	2.29	1.6%	United Kingdom
2.49	2.55	2.43	2.61	2.35	2.11	1.5%	Italy
1.70	1.56	1.66	2.06	1.84	1.74	1.2%	Türkiye
1.54	1.57	1.46	1.55	1.38	1.22	0.8%	France
1.28	1.34	1.30	1.25	0.99	0.93	0.6%	Netherlands
20.88	20.62	19.98	20.66	21.35	21.46	14.9%	Total CIS
16.36	16.00	15.25	15.54	16.14	16.32	11.3%	Russia
1.60	1.61	1.57	1.67	1.74	1.68	1.2%	Uzbekistan
18.64	19.25	19.90	19.77	20.38	20.80	14.4%	Total Middle East
7.66	7.86	8.52	8.26	8.62	8.84	6.1%	Iran
4.04	4.00	4.07	4.12	4.20	4.11	2.8%	Saudi Arabia
2.14	2.42	2.44	2.36	2.38	2.41	1.7%	U.A.E
5.59	5.68	5.55	6.36	6.29	6.16	4.3%	Total Africa
2.15	2.13	2.10	2.24	2.18	2.16	1.5%	Egypt
1.56	1.62	1.56	1.73	1.81	1.67	1.2%	Algeria
29.94	31.04	31.57	33.72	33.13	33.67	23.3%	Total Asia Pacific
10.22	11.10	12.12	13.69	13.60	14.57	10.1%	China
4.17	3.89	3.75	3.73	3.61	3.33	2.3%	Japan
2.09	2.13	2.17	2.25	2.10	2.25	1.6%	India
2.08	2.02	2.07	2.25	2.25	2.16	1.5%	South Korea

Note : ^ Less than 0.005, ◆ Less than 0.05%

Source: EI 2024 Energy Institute Statistical Review of World Energy

2-12. 석탄 매장량

단위: 백만 톤

	무연탄/역청탄 Anthracite & bituminous	아역청탄/갈탄 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
튀르키예	550	10,975	11,525	1.1%	168	Türkiye
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: EI 2024 Energy Institute Statistical Review of World Energy

2-12. Proven Reserves of Coal

Unit: Million tonnes

	무연탄/역청탄 Anthracite & bituminous	아역청탄/갈탄 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: EI 2024 Energy Institute Statistical Review of World Energy

2-13. 국별 석탄 생산

단위: 엑사줄

	1981	1990	2000	2010	2016	2017
전세계	77.20	94.84	96.52	150.60	151.88	155.49
Non-OECD	36.15	48.72	54.11	106.61	114.03	117.16
OECD	41.05	46.12	42.41	43.99	37.85	38.33
유럽연합	14.80	13.41	8.27	6.48	5.47	5.42
북미	19.46	24.35	24.65	23.88	16.33	17.30
미국	18.42	22.54	22.79	22.09	14.70	15.66
캐나다	0.97	1.67	1.64	1.48	1.37	1.33
멕시코	0.07	0.14	0.23	0.31	0.25	0.31
중남미	0.28	0.81	1.48	2.35	2.84	2.80
콜롬비아	0.12	0.59	1.10	2.14	2.62	2.63
브라질	0.12	0.07	0.11	0.11	0.11	0.09
유럽	18.86	20.59	11.67	9.65	7.58	7.28
폴란드	4.31	4.19	3.01	2.32	2.18	2.08
독일	6.23	5.24	2.54	1.92	1.66	1.65
튀르키예	0.29	0.49	0.52	0.73	0.65	0.63
우크라이나	-	3.63	1.52	1.35	0.76	0.57
체코	1.79	1.52	1.05	0.87	0.67	0.64
세르비아	-	-	-	0.30	0.30	0.30
독립국가연합	14.50	10.34	6.50	8.39	10.00	10.68
러시아	-	7.77	5.09	6.32	8.12	8.62
카자흐스탄	-	2.39	1.36	1.99	1.75	1.92
중동	0.02	0.02	0.03	0.03	0.04	0.04
아프리카	3.28	4.40	5.47	6.15	6.32	6.49
남아공	3.13	4.19	5.30	6.03	6.01	5.97
아시아-태평양	20.80	34.32	46.73	100.16	108.78	110.91
중국	13.01	22.61	29.61	69.72	70.82	73.17
인도네시아	0.01	0.26	1.90	6.33	9.87	9.69
인도	2.67	4.45	6.38	10.57	11.89	11.99
호주	2.84	4.80	7.19	10.49	12.83	12.50
베트남	0.14	0.12	0.27	1.05	0.91	0.90
몽골	0.08	0.14	0.10	0.48	0.67	0.94
태국	0.02	0.15	0.22	0.21	0.18	0.17

주: 상업용 연료이며, ◆는 0.05% 이하

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-13. Coal Production by Country

Unit: EJ(Exajoules)

2018	2019	2020	2021	2022	2023	'23년 점유율 Share of total 2023	
162.52	164.82	156.54	162.73	174.09	179.24	100.0%	Total World
124.31	128.45	126.59	131.78	143.16	149.04	83.1%	Non-OECD
38.21	36.37	29.95	30.95	30.93	30.21	16.9%	OECD
5.16	4.42	3.67	3.96	4.04	3.31	1.8%	European Union
16.90	15.72	12.07	12.97	13.40	13.21	7.4%	Total North America
15.40	14.29	10.73	11.62	12.07	11.84	6.6%	United States
1.22	1.20	1.15	1.21	1.19	1.24	0.7%	Canada
0.28	0.23	0.19	0.14	0.14	0.14	0.1%	Mexico
2.67	2.61	1.69	1.83	1.80	1.69	0.9%	Total S. & Cent. America
2.50	2.47	1.57	1.70	1.67	1.57	0.9%	Colombia
0.10	0.09	0.10	0.12	0.11	0.10	0.1%	Brazil
7.08	6.36	5.47	5.82	5.92	4.88	2.7%	Total Europe
1.98	1.87	1.68	1.76	1.71	1.48	0.8%	Poland
1.58	1.19	0.98	1.15	1.19	0.92	0.5%	Germany
0.69	0.73	0.66	0.75	0.83	0.58	0.3%	Türkiye
0.61	0.60	0.53	0.57	0.53	0.51	0.3%	Ukraine
0.62	0.56	0.43	0.44	0.48	0.58	0.3%	Czech Republic
0.28	0.29	0.30	0.26	0.25	0.23	0.1%	Serbia
11.37	11.28	10.43	11.34	11.50	11.34	6.3%	Total CIS
9.23	9.23	8.42	9.25	9.35	9.21	5.1%	Russia
1.98	1.88	1.86	1.92	1.95	1.92	1.1%	Kazakhstan
0.05	0.04	0.04	0.04	0.06	0.09	◆	Total Middle East
6.63	6.48	6.29	6.06	6.15	6.15	3.4%	Total Africa
6.01	6.02	5.88	5.53	5.44	5.41	3.0%	South Africa
117.83	122.33	120.55	124.66	135.26	141.88	79.2%	Total Asia Pacific
76.87	79.76	80.51	83.44	91.32	93.10	51.9%	China
11.44	12.84	11.78	12.68	13.95	15.73	8.8%	Indonesia
12.80	12.60	12.59	13.38	15.05	16.75	9.3%	India
13.10	13.18	12.09	11.75	11.24	11.66	6.5%	Australia
0.99	1.09	1.05	1.13	1.17	1.13	0.6%	Vietnam
1.04	1.09	0.82	0.62	0.75	1.59	0.9%	Mongolia
0.16	0.15	0.14	0.15	0.14	0.13	0.1%	Thailand

Note: Commercial solid fuels only, * More than 500 years, ◆ Less than 0.05%
Source: IEA 2024 Energy Institute Statistical Review of World Energy

2-14. 국별 석탄 소비

단위: 액사줄

	1970	1980	1990	2000	2010	2016	2017
전세계	61.41	75.16	93.30	98.79	151.16	153.85	155.50
Non-OECD	24.93	34.49	47.67	52.30	105.17	115.85	117.77
OECD	36.48	40.67	45.63	46.49	45.99	38.01	37.73
유럽연합	15.98	17.40	16.40	11.88	10.46	9.59	9.47
북미	13.05	16.48	20.49	24.18	22.45	15.55	15.30
미국	12.29	15.46	19.22	22.63	20.88	14.26	13.87
캐나다	0.71	0.93	1.14	1.28	1.03	0.77	0.80
멕시코	0.05	0.10	0.14	0.27	0.53	0.52	0.64
중남미	0.30	0.45	0.66	0.88	1.17	1.43	1.40
브라질	0.10	0.25	0.40	0.54	0.61	0.67	0.70
칠레	0.05	0.05	0.11	0.13	0.19	0.31	0.32
유럽	20.61	21.26	24.03	16.58	15.34	13.74	13.29
독일	6.24	5.92	5.51	3.57	3.23	3.20	3.01
폴란드	2.94	4.26	3.28	2.35	2.31	2.07	2.08
튀르키예	0.19	0.29	0.67	0.94	1.32	1.61	1.65
우크라이나	-	-	3.48	1.61	1.60	1.36	1.08
체코	1.55	1.61	1.25	0.89	0.79	0.69	0.67
이탈리아	0.41	0.53	0.61	0.52	0.57	0.46	0.40
영국	4.02	2.98	2.72	1.54	1.28	0.51	0.41
독립국가연합	13.07	14.13	9.62	5.28	5.29	5.25	5.16
러시아	-	-	7.63	4.43	3.79	3.74	3.51
카자흐스탄	-	-	1.62	0.75	1.40	1.34	1.47
중동	0.01	0.05	0.13	0.32	0.42	0.38	0.38
아프리카	1.30	1.96	3.16	3.47	4.20	4.29	4.29
남아공	1.15	1.79	2.82	3.12	3.89	3.78	3.72
아시아-태평양	13.07	20.82	35.20	48.07	102.30	113.21	115.67
중국	6.95	12.74	22.08	29.56	73.23	78.03	78.90
인도	1.57	2.37	4.59	6.88	12.05	16.52	17.05
일본	2.53	2.44	3.27	4.00	4.87	5.02	5.10
인도네시아	^	0.01	0.14	0.55	1.55	1.96	2.04
한국	0.24	0.55	1.01	1.80	3.23	3.41	3.61
베트남	0.05	0.10	0.09	0.20	0.61	1.19	1.19
호주	0.83	1.17	1.60	2.13	2.19	1.94	1.88

주: 상업용 연료이며, ◆는 0.05% 이하

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-14. Coal Consumption by Country

Unit: EJ(Exajoules)

2018	2019	2020	2021	2022	2023	'23년 점유율 Share of total 2023	
157.87	156.95	152.27	160.56	161.53	164.03	100.0%	Total World
121.47	124.67	124.69	130.60	132.65	138.88	84.7%	Non-OECD
36.40	32.28	27.58	29.96	28.88	25.15	15.3%	OECD
9.08	7.31	6.03	6.89	6.89	5.48	3.3%	European Union
14.50	12.49	9.97	11.24	10.54	8.83	5.4%	Total North America
13.28	11.34	9.20	10.57	9.91	8.20	5.0%	United States
0.65	0.61	0.53	0.47	0.39	0.37	0.2%	Canada
0.57	0.54	0.24	0.20	0.24	0.26	0.2%	Mexico
1.38	1.39	1.27	1.38	1.19	1.16	0.7%	Total S. & Cent. America
0.69	0.65	0.59	0.71	0.59	0.57	0.3%	Brazil
0.31	0.31	0.26	0.29	0.24	0.18	0.1%	Chile
12.98	11.06	9.57	10.44	10.02	8.39	5.1%	Total Europe
2.90	2.25	1.85	2.24	2.31	1.83	1.1%	Germany
2.09	1.86	1.72	1.90	1.78	1.51	0.9%	Poland
1.71	1.76	1.70	1.74	1.76	1.65	1.0%	Türkiye
1.17	1.09	0.96	0.95	0.54	0.49	0.3%	Ukraine
0.67	0.60	0.52	0.54	0.56	0.47	0.3%	Czech Republic
0.37	0.28	0.21	0.23	0.31	0.22	0.1%	Italy
0.35	0.25	0.23	0.23	0.21	0.18	0.1%	United Kingdom
5.38	5.23	4.88	5.05	5.49	5.49	3.3%	Total CIS
3.63	3.57	3.29	3.43	3.84	3.83	2.3%	Russia
1.52	1.44	1.37	1.40	1.41	1.39	0.8%	Kazakhstan
0.37	0.38	0.37	0.38	0.38	0.38	0.2%	Total Middle East
4.21	4.45	4.30	4.31	4.12	4.08	2.5%	Total Africa
3.53	3.76	3.68	3.59	3.38	3.33	2.0%	South Africa
119.05	121.94	121.91	127.75	129.80	135.70	82.7%	Total Asia Pacific
80.47	82.52	84.25	87.54	87.83	91.94	56.0%	China
17.93	17.96	16.97	19.27	20.03	21.98	13.4%	India
4.99	4.91	4.57	4.93	4.92	4.54	2.8%	Japan
2.36	2.88	2.76	2.75	4.38	4.32	2.6%	Indonesia
3.63	3.44	3.02	3.04	2.87	2.69	1.6%	South Korea
1.58	2.09	2.20	2.09	1.90	2.32	1.4%	Vietnam
1.83	1.75	1.69	1.63	1.54	1.51	0.9%	Australia

Note: Commercial solid fuels only, ◆ less than 0.05%
Source: EI 2024 Energy Institute Statistical Review of World Energy

2-15. 국별 원자력 소비

단위: 역사출

	1970	1980	1990	2000	2010	2016	2017
전세계	0.81	7.27	20.43	26.36	26.55	24.17	24.25
OECD	0.75	6.32	17.71	22.98	22.08	18.25	18.02
Non-OECD	0.06	0.95	2.73	3.38	4.47	5.93	6.23
유럽연합	0.17	1.89	7.45	8.79	8.19	7.10	6.98
북미	0.25	3.09	6.97	8.93	9.06	8.87	8.81
미국	0.23	2.70	6.20	8.11	8.14	7.84	7.79
캐나다	0.01	0.39	0.74	0.74	0.86	0.93	0.92
멕시코	-	-	0.03	0.08	0.06	0.10	0.10
중남미	^	0.02	0.10	0.12	0.21	0.22	0.20
브라질	-	-	0.02	0.06	0.14	0.15	0.14
아르헨티나	-	0.02	0.07	0.06	0.07	0.08	0.06
유럽	0.46	2.42	9.14	10.71	9.90	8.71	8.61
프랑스	0.06	0.63	3.21	4.24	4.11	3.73	3.66
우크라이나	-	-	0.78	0.79	0.85	0.75	0.79
독일	0.07	0.57	1.56	1.73	1.35	0.78	0.70
스페인	0.01	0.05	0.55	0.64	0.59	0.54	0.53
스웨덴	^	0.27	0.70	0.59	0.55	0.58	0.60
영국	0.27	0.38	0.67	0.87	0.60	0.66	0.65
벨기에	^	0.13	0.44	0.49	0.46	0.40	0.39
체코	-	-	0.13	0.14	0.27	0.22	0.26
스위스	0.02	0.15	0.24	0.27	0.25	0.20	0.19
핀란드	-	0.07	0.19	0.23	0.22	0.22	0.21
독립국가연합	0.04	0.76	1.21	1.36	1.66	1.84	1.89
러시아	-	-	1.21	1.34	1.63	1.82	1.87
중동	-	-	-	-	-	0.06	0.06
이란	-	-	-	-	-	0.06	0.06
아프리카	-	-	0.09	0.13	0.13	0.14	0.13
남아공	-	-	0.09	0.13	0.13	0.14	0.13
아시아-태평양	0.06	0.99	2.93	5.11	5.59	4.33	4.54
중국	-	-	-	0.17	0.72	1.97	2.28
한국	-	0.04	0.54	1.11	1.42	1.50	1.36
인도	0.01	0.03	0.07	0.16	0.22	0.35	0.34
일본	0.05	0.84	1.99	3.26	2.80	0.16	0.27

주: ^은 0.05 이하

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-15. Nuclear Energy Consumption by Country

Unit: EJ(Exajoules)

2018	2019	2020	2021	2022	2023	'23년 점유율 Share of total 2023	
24.68	25.46	24.40	25.33	24.13	24.57	100.0%	Total World
18.00	18.16	16.99	17.29	16.12	16.44	66.9%	OECD
6.68	7.30	7.41	8.05	8.01	8.13	49.5%	Non-OECD
6.97	6.97	6.20	6.62	5.48	5.56	68.4%	European Union
8.80	8.78	8.53	8.36	8.19	8.23	33.5%	Total North America
7.76	7.76	7.54	7.42	7.31	7.32	29.8%	United States
0.91	0.92	0.88	0.83	0.78	0.80	3.3%	Canada
0.12	0.10	0.10	0.11	0.10	0.11	0.5%	Mexico
0.21	0.22	0.22	0.22	0.20	0.21	0.9%	Total S. & Cent. America
0.14	0.15	0.13	0.13	0.13	0.13	0.5%	Brazil
0.06	0.08	0.09	0.09	0.07	0.08	0.3%	Argentina
8.56	8.47	7.56	7.98	6.68	6.60	26.9%	Total Europe
3.77	3.63	3.21	3.43	2.65	3.03	12.4%	France
0.77	0.76	0.69	0.78	0.56	0.47	1.9%	Ukraine
0.69	0.68	0.58	0.62	0.31	0.06	0.3%	Germany
0.51	0.53	0.53	0.51	0.53	0.51	2.1%	Spain
0.63	0.60	0.45	0.48	0.46	0.43	1.8%	Sweden
0.59	0.51	0.46	0.41	0.43	0.37	1.5%	United Kingdom
0.26	0.40	0.31	0.46	0.39	0.30	1.2%	Belgium
0.27	0.28	0.27	0.28	0.28	0.27	1.1%	Czech Republic
0.22	0.23	0.21	0.17	0.21	0.21	0.9%	Switzerland
0.21	0.22	0.21	0.22	0.23	0.31	1.3%	Finland
1.89	1.92	1.99	2.08	2.08	2.08	8.5%	Total CIS
1.87	1.90	1.96	2.01	2.01	1.95	7.9%	Russia
0.06	0.06	0.07	0.13	0.24	0.35	1.4%	Total Middle East
0.06	0.06	0.06	0.03	0.06	0.06	0.2%	Iran
0.11	0.12	0.09	0.11	0.09	0.08	0.3%	Total Africa
0.11	0.12	0.09	0.11	0.09	0.08	0.3%	South Africa
5.06	5.89	5.94	6.46	6.65	7.01	28.5%	Total Asia Pacific
2.70	3.18	3.32	3.68	3.76	3.90	15.9%	China
1.22	1.33	1.45	1.43	1.59	1.62	6.6%	South Korea
0.36	0.41	0.40	0.40	0.42	0.43	1.8%	India
0.45	0.60	0.39	0.55	0.47	0.70	2.8%	Japan

Note: ^ less than 0.05

Source: IEA 2024 Energy Institute Statistical Review of World Energy

2-16. 국별 수력 소비

단위: 엑사줄

	1970	1980	1990	2000	2010	2016	2017
전세계	12.50	18.43	22.98	28.17	34.27	38.70	38.98
Non-OECD	3.32	6.57	9.86	13.26	20.22	24.64	25.03
OECD	9.19	11.86	13.12	14.91	14.06	14.06	13.95
유럽연합	2.50	3.17	3.03	3.79	3.74	3.32	2.81
북미	4.54	5.86	6.52	7.05	6.45	6.55	6.92
캐나다	1.68	2.67	3.15	3.80	3.51	3.71	3.78
미국	2.70	3.00	3.11	2.90	2.57	2.54	2.84
멕시코	0.16	0.18	0.26	0.35	0.37	0.29	0.30
중남미	0.70	2.14	3.84	5.86	6.93	6.55	6.72
브라질	0.42	1.37	2.20	3.24	4.03	3.67	3.55
콜롬비아	0.06	0.15	0.29	0.33	0.41	0.45	0.55
베네수엘라	0.04	0.16	0.39	0.67	0.77	0.61	0.67
아르헨티나	0.02	0.16	0.19	0.30	0.33	0.29	0.30
페루	0.04	0.07	0.11	0.17	0.20	0.23	0.28
유럽	3.68	4.95	5.35	6.58	6.50	6.30	5.62
노르웨이	0.62	0.89	1.29	1.51	1.17	1.38	1.36
스웨덴	0.44	0.63	0.77	0.84	0.67	0.60	0.62
프랑스	0.60	0.74	0.57	0.71	0.63	0.58	0.47
이탈리아	0.43	0.48	0.34	0.47	0.51	0.41	0.35
스위스	0.31	0.36	0.32	0.39	0.36	0.33	0.33
독립국가연합	1.32	1.96	2.25	2.22	2.17	2.27	2.30
러시아	-	-	1.78	1.75	1.66	1.78	1.77
카자흐스탄	n/a	n/a	0.07	0.08	0.08	0.11	0.11
중동	0.04	0.10	0.16	0.11	0.17	0.19	0.20
이란	0.03	0.06	0.08	0.04	0.10	0.15	0.17
아프리카	0.29	0.51	0.61	0.80	1.08	1.15	1.20
동아프리카	0.12	0.19	0.23	0.33	0.54	0.59	0.62
아시아-태평양	1.92	2.91	4.25	5.55	10.97	15.69	16.02
중국	0.26	0.62	1.35	2.37	7.11	11.11	11.16
인도	0.32	0.59	0.71	0.82	1.09	1.24	1.30
일본	0.80	0.94	0.93	0.90	0.88	0.77	0.76
베트남	0.01	0.02	0.06	0.15	0.29	0.62	0.82
한국	0.01	0.02	0.05	0.04	0.04	0.03	0.03

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-16. Hydro Energy Consumption by Country

Unit: EJ(Exajoules)

2018	2019	2020	2021	2022	2023	'23년 점유율 Share of total 2023	
39.89	40.27	41.22	40.40	40.58	39.65	100.0%	Total World
25.71	26.46	27.08	26.75	27.49	26.70	67.3%	Non-OECD
14.18	13.81	14.14	13.66	13.09	12.96	32.7%	OECD
3.26	3.01	3.27	3.27	2.57	3.05	7.7%	European Union
6.74	6.56	6.58	6.27	6.43	5.81	14.6%	Total North America
3.68	3.62	3.65	3.60	3.73	3.41	8.6%	Canada
2.76	2.71	2.67	2.35	2.36	2.21	5.6%	United States
0.31	0.22	0.25	0.33	0.33	0.19	0.5%	Mexico
6.83	6.70	6.59	6.30	6.99	7.01	17.7%	Total S. & Cent. America
3.70	3.78	3.75	3.42	4.01	4.01	10.1%	Brazil
0.54	0.52	0.47	0.57	0.60	0.56	1.4%	Colombia
0.62	0.60	0.64	0.64	0.64	0.61	1.5%	Venezuela
0.31	0.26	0.22	0.19	0.21	0.28	0.7%	Argentina
0.29	0.30	0.29	0.30	0.28	0.27	0.7%	Peru
6.16	5.96	6.25	6.16	5.29	5.97	15.1%	Total Europe
1.32	1.19	1.33	1.35	1.20	1.27	3.2%	Norway
0.59	0.62	0.68	0.70	0.66	0.62	1.6%	Sweden
0.61	0.53	0.58	0.55	0.42	0.52	1.3%	France
0.47	0.44	0.45	0.43	0.27	0.36	0.9%	Italy
0.33	0.36	0.35	0.34	0.28	0.35	0.9%	Switzerland
2.33	2.36	2.48	2.49	2.33	2.37	6.0%	Total CIS
1.82	1.84	2.01	2.02	1.86	1.88	4.7%	Russia
0.10	0.09	0.09	0.09	0.09	0.08	0.2%	Kazakhstan
0.12	0.39	0.28	0.18	0.17	0.26	0.7%	Total Middle East
0.09	0.32	0.22	0.13	0.13	0.21	0.5%	Iran
1.28	1.31	1.40	1.44	1.47	1.51	3.8%	Total Africa
0.65	0.65	0.69	0.73	0.75	0.77	1.9%	Eastern Africa
16.44	17.00	17.64	17.55	17.90	16.72	42.2%	Total Asia Pacific
11.42	12.08	12.50	12.25	12.18	11.46	28.9%	China
1.33	1.54	1.55	1.51	1.64	1.39	3.5%	India
0.77	0.70	0.74	0.75	0.70	0.70	1.8%	Japan
0.79	0.63	0.69	0.74	0.90	0.76	1.9%	Vietnam
0.03	0.03	0.04	0.03	0.03	0.03	0.1%	South Korea

Source: IEA 2024 Energy Institute Statistical Review of World Energy

2-17. 국별 발전 전력량

단위: TWh

	1985	1990	1995	2000	2005	2010	2016	2017
전세계	9,886.1	11,961.0	13,381.9	15,564.5	18,464.5	21,590.6	24,984.3	25,738.0
Non-OECD	3,321.9	4,145.6	4,660.3	5,650.3	7,720.5	10,519.1	13,854.7	14,555.5
OECD	6,564.1	7,815.4	8,721.5	9,914.2	10,744.0	11,071.5	11,129.6	11,182.5
유럽연합	2,023.1	2,274.0	2,409.0	2,659.5	2,927.7	2,981.6	2,919.1	2,951.4
북미	3,212.4	3,831.0	4,275.6	4,859.7	5,191.2	5,276.8	5,337.4	5,302.5
미국	2,657.2	3,232.8	3,567.3	4,052.3	4,322.8	4,394.3	4,348.9	4,303.8
캐나다	459.0	480.6	557.9	603.8	620.5	607.0	668.2	669.6
멕시코	96.2	117.6	150.4	203.6	248.0	275.6	320.3	329.1
중남미	408.7	508.6	646.4	808.8	943.3	1,140.5	1,306.6	1,305.8
브라질	193.7	222.8	275.6	348.9	403.1	515.8	578.9	589.3
아르헨티나	45.3	51.0	67.2	89.0	105.8	126.0	147.2	145.6
유럽	2,883.9	3,211.6	3,278.9	3,619.4	3,958.6	4,064.8	4,022.0	4,061.9
독일	522.5	549.9	536.8	576.6	622.7	632.8	649.2	652.3
프랑스	344.5	420.8	494.3	540.0	576.1	569.3	556.2	554.0
영국	298.1	319.7	337.4	377.1	398.4	382.1	339.2	338.2
튀르키예	34.2	57.5	86.2	124.9	162.0	211.2	274.4	297.3
이탈리아	185.7	216.6	241.5	276.6	303.7	302.1	289.8	295.8
독립국가연합	1,213.7	1,363.7	1,068.3	1,071.7	1,180.6	1,284.0	1,369.3	1,383.0
러시아	962.0	1,082.2	860.0	877.8	954.1	1,038.0	1,091.0	1,091.2
카자흐스탄	81.3	87.4	66.7	51.6	67.9	82.6	94.6	103.1
중동	183.5	258.2	354.4	478.3	658.5	892.6	1,166.8	1,246.2
사우디아라비아	51.7	79.9	109.9	138.7	191.1	248.8	357.7	395.0
이란	38.9	57.7	84.4	119.3	177.1	235.7	286.1	305.2
아프리카	259.0	318.8	362.7	440.2	560.5	672.9	799.6	826.6
남아공	143.5	167.2	186.7	210.7	244.9	259.6	253.1	255.4
이집트	30.3	42.0	50.7	73.3	104.9	144.4	188.2	193.2
아시아-태평양	1,724.9	2,469.2	3,395.6	4,286.5	5,971.8	8,259.0	10,982.6	11,611.9
중국	410.7	621.2	1,007.0	1,355.6	2,500.3	4,207.2	6,133.2	6,604.4
인도	186.4	287.8	427.1	571.4	704.5	937.5	1,401.7	1,471.3
일본	672.0	881.5	1,010.9	1,099.7	1,153.1	1,156.0	1,063.7	1,076.9
한국	62.7	118.5	203.5	290.4	389.5	495.0	561.0	576.4
인도네시아	16.4	33.1	54.1	93.3	127.6	169.8	247.9	254.7
대만	55.6	90.2	133.1	184.8	227.5	247.1	264.1	270.3

주: 출력기준

자료: EI 2024 Energy Institute Statistical Review of World Energy

2-17. Power Generation by Country

Unit: TWh

2018	2019	2020	2021	2022	2023	'23년 점유율 Share of total 2023	
26,783.3	27,147.3	27,032.5	28,548.5	29,188.1	29,924.8	100.0%	Total World
15,406.7	15,911.6	16,090.5	17,295.1	17,836.8	18,746.2	62.6%	Non-OECD
11,376.6	11,235.7	10,942.0	11,253.4	11,351.2	11,178.6	37.4%	OECD
2,936.0	2,894.4	2,780.6	2,901.7	2,812.4	2,737.2	9.1%	European Union
5,475.3	5,414.7	5,267.2	5,380.9	5,536.8	5,482.0	18.3%	Total North America
4,464.5	4,414.1	4,287.6	4,400.9	4,537.7	4,494.0	15.0%	United States
661.5	656.0	653.9	649.9	658.9	633.2	2.1%	Canada
349.3	344.6	325.7	330.0	340.1	354.9	1.2%	Mexico
1,314.9	1,332.4	1,321.6	1,379.3	1,407.7	1,464.5	4.9%	Total S. & Cent. America
601.4	633.3	628.8	656.1	677.2	710.0	2.4%	Brazil
146.8	139.5	144.6	153.2	145.6	146.4	0.5%	Argentina
4,065.0	3,997.2	3,884.2	4,041.3	3,899.4	3,805.1	12.7%	Total Europe
641.4	608.2	574.7	587.1	577.9	513.7	1.7%	Germany
573.9	562.7	524.3	547.2	466.5	519.7	1.7%	France
333.7	327.1	314.7	308.9	322.0	285.6	1.0%	United Kingdom
304.8	303.9	306.7	334.7	328.4	328.0	1.1%	Türkiye
289.7	293.9	280.5	289.1	284.0	265.3	0.9%	Italy
1,416.4	1,426.4	1,400.0	1,491.2	1,505.8	1,524.8	5.1%	Total CIS
1,109.2	1,118.1	1,085.4	1,157.1	1,166.9	1,178.2	3.9%	Russia
107.3	106.5	108.6	115.1	113.5	113.0	0.4%	Kazakhstan
1,254.7	1,295.9	1,309.8	1,361.9	1,392.2	1,463.4	4.9%	Total Middle East
374.8	378.5	380.9	392.9	401.3	422.9	1.4%	Saudi Arabia
312.4	318.9	337.2	356.4	367.1	382.9	1.3%	Iran
849.7	869.2	852.1	891.1	902.7	902.9	3.0%	Total Africa
256.3	252.6	239.5	244.3	234.8	224.4	0.7%	South Africa
199.4	200.6	198.6	209.7	216.7	220.1	0.7%	Egypt
12,407.3	12,811.6	12,997.7	14,002.9	14,543.4	15,282.0	51.1%	Total Asia Pacific
7,166.1	7,503.4	7,779.1	8,534.2	8,848.7	9,456.4	31.6%	China
1,579.2	1,622.1	1,581.9	1,695.5	1,829.3	1,958.2	6.5%	India
1,082.9	1,047.4	1,011.0	1,034.7	1,040.6	1,013.3	3.4%	Japan
592.9	586.8	577.1	607.8	624.6	617.9	2.1%	South Korea
283.8	295.4	291.8	309.1	333.5	350.6	1.2%	Indonesia
275.5	274.2	280.0	291.0	288.2	282.1	0.9%	Taiwan

Note. Based on gross output

Source: EI 2024 Energy Institute Statistical Review of World Energy

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. 전기가 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, 세일오일, 역청샌드)에서 추출한 광물 석유나 석탄액화오일 등을 말함.

석유제품 (Petroleum)

■ 정제가스 (Refinery gas)

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

■ 프로판 (Propane)

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

■ 부탄 (Butane)

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

■ 휘발유 (Motor gasoline)

휘발유는 촉매를 이용하여 납사를 개질한 후 첨가제, 산소성분, 옥탄향상제 등을 혼합한 제품으로 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 이차 전기 에너지와 수력, 풍력, 태양광 등과 같은 자연자원에서 얻는 일차 전기 에너지로 구분할 수 있음. 생산된 전기 에너지는 국내 또는 국제 송배전망을 통해 최종소비자에게 전달됨.

열 (Heat)

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

총에너지 (Total of all energy)

모든 에너지 상품의 합계.

메모: 신재생 (Memo: New and renewables)

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

C. 기타 에너지 용어

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

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

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

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

아랍 라이트(Arab light) : 사우디아라비아산 원유 중 API도(미국 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 둬.

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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