



승인 (협의) 번호  
제 339001 호

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# 에너지통계연보 2021

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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

**BPSD** : Barrel per Stream Day

**CIF** : Cost, Insurance and Freight

**FOB** : Free on Board

- Nil(없음)

**p** Preliminary(잠정값)

... Not available(해당없음)

**e** Estimate(추정값)

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### 열량환산계수 적용안내

에너지법 시행규칙 제5조제1항에 의거

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



에너지경제연구원  
Korea Energy Economics Institute

주소: 울산광역시 중구 중가로 405-11(성안동)

전화: 052-714-2114

팩스: 052-714-2028

전자우편: EnergyStat@keei.re.kr

홈페이지: <http://www.keei.re.kr>

국가에너지통계종합정보시스템: <http://www.kesis.net>

# 1. 일러두기 Explanatory Notes

## 가. 에너지밸런스 변경 사항

### 1) 개요

- 일부 에너지원의 에너지소비 업종 및 용도 분류 방법 개선, 과거 석유제품 시계열의 갱신(2018년 5월 기준의 석유류수급통계 기준 일괄 적용), 국내 에너지열량 환산 기준이 존재하지 않는 일부 에너지원의 열량 산정 기준 명확화 (IEA 기준 적용), LNG 적도입사 소비량 최종에너지소비에 반영, 지역 냉·난방 열에너지 포함범위 현실화 등을 통해 1990년 이후의 에너지밸런스의 신뢰성을 제고.

### 2) 석탄

- 아래 변경사항을 반영함에 따라 2017년 이전의 에너지통계연보와 2018년 이후의 에너지통계연보의 1990~2016년 수치 다름.

① **(유연탄)** 일부 연료용 유연탄 소비업종의 분류 수정(섬유·의복→석유·화학)

- 2000년 수치부터 적용

② **(무연탄)** 발전용 수입무연탄 소비량 산정방법 변경

- 2007년 수치부터 적용

\* 기존: 발전용 수입무연탄 소비량 = 수입무연탄 소비량 × 수입무연탄 소비실태조사 결과의 발전용 비중

\* 변경: 발전용 수입무연탄 소비량 = 한전의 발전용 무연탄 소비량 - 석탄협회의 발전용 국내무연탄 소비량

③ **(무연탄)** 산업부문 소비량 수치 변경

- 2007년 수치부터 적용

\* 산업부문 무연탄 소비량은 국내 및 수입 무연탄 총소비량에서 발전용과 가정용 무연탄 소비량을 제외한 값으로 산정하기 때문에 상기 발전용 수입무연탄 소비량 수정으로 인해 조정됨.

④ **(무연탄)** 산업부문 수입무연탄 열량환산 방법 개선

- 2012년 수치부터 적용

\* 기존: 원료용 수입무연탄 발열량을 적용

\* 변경: 산업용 무연탄 소비용도를 원료용(PCI탄)과 연료용으로 구분하여 각각의 열량을 적용(2012년부터 열량을 구분하여 공표)

⑤ **(전체)** 유·무연탄 수급 자료의 월간 수치 합계와 연간수치 사이의 정합성 보정

- 1990년 수치부터 적용

### 3) 석유

- 아래 변경사항을 반영함에 따라 2017년 이전의 에너지통계연보와 2018년 이후의 에너지통계연보의 1994~2016년 수치 다름.

① **(전체)** 2018년 5월 기준의 한국석유공사 PEDSIS(석유류수급통계)자료 기준으로 1994년 이후의 시계열 갱신

- ② **(전체)** PEDSIS(석유류수급통계)의 “석유정제업” 항목을 “기타에너지”에서 “석유·화학”으로 이동
  - 1994년 수치부터 적용
- ③ **(경유)** 육상수송 소비량에서 바이오디젤 소비량 제외
  - 2004년 수치부터 적용(2004년부터 바이오디젤 데이터 집계)
- ④ **(파라핀왁스)** 열량 환산 기준 변경
  - 1994년 수치부터 적용
  - \* IEA 기준인 10,030kcal/kg 사용
  - \* 열량 환산 기준 단위를 l 에서 kg으로 변경함에 따라 7.72bbl/ton(한국석유공사 석유류수급통계 기준)을 적용하여 단위를 환산
- ⑤ **(기타 석유제품)** 열량 환산 기준 변경
  - 1994년 수치부터 적용
  - 기타 석유제품에는 부생연료유(등유형), 부생연료유(중유형), 기타제품, 정제가스가 포함됨.
  - 기존에는 부생연료1호 열량환산기준(리터당 8,800kcal)을 일괄 적용하였으나, 각 제품별로 열량환산기준을 각각 적용하여 시계열 수정
    - \* 부생연료유(등유형): 8,850kcal/ l ('11년 이전)→ 8,800kcal/ l ('12~'16년)→ 8,860kcal/ l ('17년 이후)
    - \* 부생연료유(중유형): 9,700kcal/ l ('11년 이전)→ 9,550kcal/ l ('12~'16년)→ 9,530kcal/ l ('17년 이후)
    - \* 기타제품: 10,101kcal/kg(IEA 기준) 적용
    - \* 정제가스: 12,418kcal/kg(IEA 기준) 적용
    - \* 기타제품과 정제가스의 열량 환산 기준 단위를 l 에서 kg으로 변경함에 따라 각각 6.50bbl/ton, 13.98bbl/ton (한국석유공사 석유류수급통계 기준)을 적용하여 단위를 환산

#### 4) 천연가스

- 아래 변경사항을 반영함에 따라 2019년 이전의 에너지통계연보와 2020년 이후의 에너지통계연보의 2005~2018년 수치 다름.
- LNG 직도입사중 비발전사의 발전용 소비량을 최종에너지 소비량으로 재분류
  - 2005년 수치부터 적용
  - 현행 에너지밸런스에서는 전력·열에너지 자가생산자의 연료투입량은 해당 업체의 최종에너지 소비로 정의 및 분류
    - \* 기존: LNG 직도입사의 발전용 소비량을 천연가스의 전환부문 발전에 계상
    - \* 변경: LNG 직도입사중 비발전사의 발전용 소비량을 천연가스의 최종에너지 업종별 소비에 계상

#### 5) 열에너지

- 아래 변경사항을 반영함에 따라 2017년 이전의 에너지통계연보와 2018년 이후의 에너지통계연보의 1998~2016년 수치 다름.

# 1. 일러두기 Explanatory Notes

- 집계 대상 범위 확대
  - 1998년 수치부터 적용
    - \* 기존: 3개 집단에너지사업자(한국지역난방공사, 서울에너지공사, GS파워)의 지역냉·난방 열 생산 및 판매량 자료만 반영
    - \* 변경: 「집단에너지사업편람」(한국에너지공단)의 지역냉·난방부문 열생산 및 판매량을 모두 반영
- 2019년 부문별 열 소비량 변경
  - 2019년 시구군별 열 판매량 자료 수집에 따라, 부문별 열 소비량 변경

## 6) 신재생에너지

- 아래 변경사항을 반영함에 따라 2017년 이전의 에너지통계연보와 2018년 이후의 에너지통계연보의 2011~2016년 수치 다름.
  - 발전 및 최종에너지 소비의 부문별 소비량을 재분류
  - 2011년 수치부터 적용
- 「신에너지 및 재생에너지 개발·이용·보급·촉진법」 개정(2019.10)에 따라 신재생에너지를 “신재생 및 기타”로 표기
  - 2019년 수치부터 적용
  - 법 개정에 따라 비재생 폐기물(석유, 석탄 등 화석연료에 기원한 화학석유, 인조가죽, 비닐 등으로서 생물 기원이 아닌 폐기물)로부터 생산된 에너지는 신재생에너지에 포함되지 않으나, 2019년 이후 수치는 법 개정 이전과 동일하게 비재생 폐기물을 포함하였으며 따라서 “신재생 및 기타”로 표기

## 나. 단위

- 에너지수급통계에서 사용하는 단위는 고유(물량) 단위와 열량 단위가 있으며, 고유(물량) 단위의 환산은 “2. 단위 및 열량표” 참조
- 열량 단위는 kcal, toe를 사용하며 참고로 IEA에서는 줄(joule)을 사용하고 있음.
- 1톤(T)은 1메트릭톤(M/T), 1,000kg과 같은 개념이며, 에너지통계의 고유단위로 사용함. 메트릭톤은 미터법상의 1톤과 롱톤(L/T), 숏톤(S/T)의 상대되는 개념임.

## 다. 열량

- 에너지수급통계는 에너지법 시행령 제15조제1항에 따라 정하는 에너지열량환산기준 중 총발열량을 적용하며, IEA 등 일부 국가에서는 목적에 따라 순발열량을 적용하는 경우도 있음.
- 에너지열량환산기준은 1980년 이후 6차에 걸친 개정이 있었으며, 2007년부터는 2006년에 제정된 에너지법에 따라 매 5년마다 작성·공포함(에너지법 시행규칙 제5조 제2항).

- 작성·공표된 시점 이후부터 해당 에너지열량환산기준을 적용하여 통계를 작성(에너지법 시행규칙 제5조 제1항)
- 2007년 이전까지는 일부 에너지원이 추가되는 수준의 열량개정이 이루어져 통계에 큰 영향을 주지 못했으나 2007년부터는 동일 에너지원이라도 열량차이가 커서 시행 첫년도에는 단층현상 발생

## 라. 통계청 가계동향조사 통합작성으로 「8. 주요 경제통계 - 11. 가계동향」 변경

- 「2020년 1/4분기 가계동향조사 보도참고자료」참조\*

## 마. 「10. 개정에너지밸런스」는 시범작성한 결과로, 확정 이후에는 수치가 변동될 수 있음.

### 바. 주요 용어

#### 1) 1차에너지

- 생산, 수출입 및 재고증감에 의해 국내 공급된 에너지이며, 타 에너지로 전환되기 위해 투입되는 에너지와 산업, 수송, 가정, 상업·공공용으로 소비되는 최종에너지의 합으로 계산
- 현행 에너지밸런스에서는 원유의 투입과 석유제품의 생산에 해당하는 석유정제를 전환부문에 포함하지 않음에 따라 원유 역시 포함되지 않으며 대신 생산된 석유제품을 1차에너지 공급 중 수입에 계상

#### 2) 최종에너지

- 산업, 수송, 가정 및 상업·공공부문 등 최종에너지 소비 부문에서 사용하는 에너지로, 최종소비자가 직접 사용한 1차에너지와 전환과정을 거친 2차에너지가 여기에 해당
- 현행 에너지수급통계 및 에너지밸런스에서는 전력과 열에너지는 한전 및 지역난방 사업자가 공급하는 양만 최종에너지소비에 포함
- 자가생산자가 생산한 전력과 열에너지는 1차에너지 공급 중 생산부문 및 해당 업종의 연료소비로 최종소비에 포함되나, 전력거래소에 판매된 자가발전량은 전력으로 최종소비에 포함

#### 3) 에너지전환

- 에너지전환은 사용하기 편리한 에너지로 변환하는 과정을 말하며 발전, 석유정제, 지역난방, 가스제조 등이 해당
- 발전은 사업자 및 자가 생산을 모두 포함하여야 하나, 현재 국가통계는 자가발전 투입연료를 자가발전사업자의 소비에 포함
- 석유정제는 원유의 투입과 석유제품의 산출 과정을 의미하나, 현행 에너지밸런스에서는 정제과정을 거쳐 생산된 석유제품을 1차에너지로 간주하고 투입된 원유량은 반영하지 않으며, 따라서 석유정제 항목이 없음.
- 지역난방에는 지역난방 사업자가 열에너지 생산을 위해 투입한 연료량과 열생산량을 계상
- 가스제조에는 도시가스 사업자가 가스 생산을 위해 투입한 연료량과 도시가스 생산량을 계상

#### 4) 1인당 에너지소비

- 1년 동안 공급된 1차에너지를 인구수로 나눈 값이며, 이때 인구수는 연앙 인구를 사용

# 1. 일러두기 Explanatory Notes

## 5) 수입의존도

- 1차에너지 대비 순수입량 비율로 계산하는 것이 일반적이나, 우리나라는 1차에너지 중에서 수입에너지가 차지하는 비중으로 계산
- 원자력의 원료인 우라늄을 수입에너지로 간주하여 수입의존도를 발표하고 있으나, 국제기준에 의해 국내생산에 포함한 수입의존도를 병기함.

## 6) GDP 단위당 에너지 소비

- 에너지원단위는 총부가가치(GDP) 대비 1차에너지 공급량의 비율로 정의되며, 경제활동에 투입된 에너지소비의 효율성을 평가하는 지표로써 산업구조, 부가가치, 에너지절약 및 이용효율 수준 등에 영향을 받음.
- 총부가가치는 불변가격 기준이며, 미 달러화 표시는 환율을 이용하여 재계산함. 2010년 이전은 국제재무통계(IFS, IMF)의 연평균환율 적용, 최근 환율은 한국은행의 연평균환율 적용

## 7) 에너지 소비의 GDP 탄력성

- 경제활동 변화에 대한 에너지소비 변화의 탄력도를 의미함. 경제활동을 나타내는 자료는 GDP를 이용하며, 1차에너지 공급 증감율을 GDP 증감율로 나누어서 계산



## 2. 단위 및 열량환산표 Unit Conversion Factors

### 가. 부피

Units	m <sup>3</sup>	cm <sup>3</sup>	liter	in <sup>3</sup>	ft <sup>3</sup>	미gal	영gal	bbl
1 m <sup>3</sup>	1	10 <sup>6</sup>	10 <sup>3</sup>	6.102374×10 <sup>4</sup>	35.31467	264.1721	219.969	6.2892
1 cm <sup>3</sup>	10 <sup>-6</sup>	1	10 <sup>-3</sup>	0.06102374	3.531467×10 <sup>-5</sup>	2.641721×10 <sup>-4</sup>	2.19969×10 <sup>-1</sup>	0.62892×10 <sup>-5</sup>
1 liter	10 <sup>-3</sup>	1000	1	61.02374	0.03531467	0.2641721	0.219969	6.2892×10 <sup>-3</sup>
1 in <sup>3</sup>	1.638706×10 <sup>-5</sup>	16.38706	0.01638706	1	5.787037×10 <sup>-4</sup>	4.329004×10 <sup>-3</sup>	3.60465×10 <sup>-3</sup>	0.10306×10 <sup>-3</sup>
1 ft <sup>3</sup>	2.831685×10 <sup>-2</sup>	28316.85	28.31685	1728	1	7.480520	6.2288	0.178
1 gal(U.S)	3.785412×10 <sup>-3</sup>	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 <sup>-3</sup>	0.03527396	2.204623×10 <sup>-3</sup>	10 <sup>-6</sup>	1.102311×10 <sup>-6</sup>	9.842×10 <sup>-7</sup>
1 kg	1000.	1	36.27396	2.204623	10 <sup>-3</sup>	1.102311×10 <sup>-3</sup>	9.842×10 <sup>-4</sup>
1 oz(avdp)	28.34952	0.02834952	1	0.0625	2.834952×10 <sup>-5</sup>	5×10 <sup>-1</sup>	2.790×10 <sup>-5</sup>
1 lb(avdp)	453.5924	0.4535924	16	1	4.535924×10 <sup>-4</sup>	0.0005	4.464×10 <sup>-4</sup>
1 metric Ton	10 <sup>6</sup>	1000	35273.96	2204.623	1	1.102311	0.9842
1 Ton(U.S)	907184.7	907.1847	32000.	2000	0.9071847	1	7.8927
1 Ton(U.K)	1016.0×10 <sup>3</sup>	1016.0	35.838×10 <sup>3</sup>	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 <sup>-4</sup>	2.778236×10 <sup>-7</sup>	3.725676×10 <sup>-7</sup>	0.7376839
1 cal	4.186109	1	3.968321×10 <sup>-3</sup>	1.163000×10 <sup>-6</sup>	1.559609×10 <sup>-6</sup>	3.088025
1 Btu	1054.882	251.9958*	1	2.930711×10 <sup>-4</sup>	3.930148×10 <sup>-4</sup>	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 <sup>-3</sup>	3.766161×10 <sup>-7</sup>	5.050505...×10 <sup>-7</sup>	1

## 2. 단위 및 열량환산표 Unit Conversion Factors

### 라. 비중과 톤당 용적(60°F 기준)

API	비중	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

명칭	기호	크기
Tera	T	10 <sup>12</sup>
Giga	G	10 <sup>9</sup>
Mega	M	10 <sup>6</sup>
Kilo	k	10 <sup>3</sup>
Hecta	h	10 <sup>2</sup>
Deca	da	10 <sup>1</sup>
Deci	d	10 <sup>-1</sup>
Centi	c	10 <sup>-2</sup>
Milli	m	10 <sup>-3</sup>
Micro	μ	10 <sup>-6</sup>
Nano	n	10 <sup>-9</sup>
Pico	p	10 <sup>-12</sup>
Femto	f	10 <sup>-15</sup>
Atto	a	10 <sup>-18</sup>

### 바. 석유제품환산표

구분	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

## 사. 원유환산표

구 분	톤 (메트릭톤)	롱 톤	숏 톤	배럴	입방미터 (m <sup>3</sup> )	1천 갤런 (영)	1천 갤런 (미)
톤 (메트릭톤)	1	0.984	1.102	7.33	1.16	0.256	0.308
롱톤	1.016	1	1.120	7.45	1.18	0.261	0.313
숏톤	0.907	0.893	1	6.65	1.05	0.233	0.279
배럴	0.136	0.134	0.150	1	0.159	0.035	0.042
입방미터(m <sup>3</sup> )	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

### 3. 에너지 열량 환산기준 Energy Conversion Factors

가. 7차 에너지열량 환산기준(2017년 1월 통계부터 적용)

2017년 12월 28일 개정(2017년 1월부터 적용)

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

- 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 10<sup>7</sup>kcal을 말한다.
- 4) 석탄의 발열량은 인수식을 기준으로 한다.
- 5) 최종에너지사용자가 사용하는 전기에너지를 열에너지로 환산할 경우에는 1kWh=860kcal를 적용한다.
- 6) 1cal=4.1868J, Nm<sup>3</sup>은 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.

## 나. 총발열량 추이 Trend of Gross Calorific Value

에너지원	단위	총발열량(㎉)							'12년 대비 열량 증감	
		1980	1981	1987	1990	2007	2012	2017		
석유 (17종)	원유	kg	10,000	10,000	10,000	10,000	10,750	10,730	10,750	-
	휘발유	ℓ	8,300	8,300	8,300	8,300	8,000	7,780	7,810	↑ 30
	실내등유	ℓ	8,700	8,700	8,700	8,700	8,800	8,790	8,770	↓ 20
	보일러등유	ℓ	-	-	-	-	8,950	-	-	-
	경유	ℓ	9,200	9,200	9,200	9,200	9,050	9,010	9,030	↑ 20
	B-A	ℓ	9,500	9,400	9,400	9,400	9,300	9,290	9,310	↑ 20
	B-B	ℓ	9,200	9,700	9,700	9,700	9,650	9,670	9,670	-
	B-C	ℓ	9,900	9,900	9,900	9,900	9,900	9,950	9,960	↑ 10
	프로판	kg	12,000	12,000	12,000	12,000	12,050	12,050	12,040	↓ 10
	부탄	kg	11,800	11,800	11,800	11,800	11,850	11,850	11,820	↓ 30
	나프타	ℓ	8,000	8,000	8,000	8,000	8,050	7,710	7,710	-
	용제	ℓ	-	-	-	(8,200)	7,950	7,950	7,830	↓ 120
	항공유(JA-1)	ℓ	-	8,700	8,700	8,700	8,750	8,730	8,720	↓ 10
	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	↓ 20
	윤활유	ℓ	-	-	-	(9,400)	9,250	9,500	9,550	↑ 50
석유코크스	kg	-	-	-	(10,800)	8,100	8,000	8,360	↑ 360	
부생연료유 1호	ℓ	-	-	-	-	8,850	8,800	8,860	↑ 60	
부생연료유 2호	ℓ	-	-	-	-	9,700	9,550	9,530	↓ 20	
가스 (3종)	액화천연가스(LNG)	kg	-	9,500	12,980	13,000	13,000	13,040	13,060	↑ 20
	액화천연가스(LNG)	Nm³	7,000	7,000	7,000	10,500	10,550	10,430	10,290	↓ 140
	액화석유가스(LPG)	Nm³	-	-	-	15,000	15,000	15,000	15,190	↑ 190
석탄 (7종)	국내 무연탄	kg	4,600	4,600	4,500	4,500	4,650	4,500	4,730	↑ 230
	연료용 수입 무연탄	kg	-	-	-	6,000	6,550	5,020	5,060	↑ 40
	원료용 수입 무연탄	kg	-	-	-	-	-	5,900	6,020	↑ 120
	연료용 유연탄(역청탄)	kg	6,600	6,600	6,600	6,600	6,200	6,160	5,920	↓ 240
	원료용 유연탄(역청탄)	kg	-	-	-	-	7,000	7,000	6,970	↓ 30
	아역청탄	kg	-	-	-	-	5,350	5,420	5,110	↓ 310
	코크스	kg	6,500	6,500	6,500	6,500	7,050	6,960	6,930	↓ 30
전기 등 (3종)	전기(발전기준)	kWh	2,500	2,500	2,500	2,500	2,150	2,110	2,130	↑ 20
	전기(소비기준)	kWh	-	-	-	-	-	2,300	2,290	↓ 10
	신탄	kg	4,500	4,500	4,500	4,500	4,500	4,500	4,500	-

## 4. 에너지수급통계 작성 개요 Energy Statistics System Description

### 가. 통계작성 승인내용

- 통계의 명칭 : 에너지수급통계
- 통계작성기관 : 에너지경제연구원(<http://www.keei.re.kr>)
- 통계의 종류 : 일반, 보고통계
- 작성주기: 매월
- 통계작성 승인번호 : 제339001호(2002.04.02.)
- 통계작성 목적 : 에너지 수요와 공급에 영향을 미치는 여러가지 요인을 비교분석함으로써 에너지 수요전망, 에너지 효율 분석 등 각종 에너지 정책 수립을 위한 기초자료 제공

### 나. 연혁

- 1982. 11. : 에너지통계연보 초안 작성
- 1983. 11. ~ 2001. 9. : 에너지통계연보 작성 발간(20호)
- 2002. 4. : 통계작성 승인(제339001호, 2002.04.02)
- 2008. 2. : 작성기관 변경(산업자원부 → 지식경제부)
- 2008. 6. : 작성기관 변경(지식경제부 → 에너지경제연구원)

### 다. 작성 방법

- “에너지통계의 작성등에 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

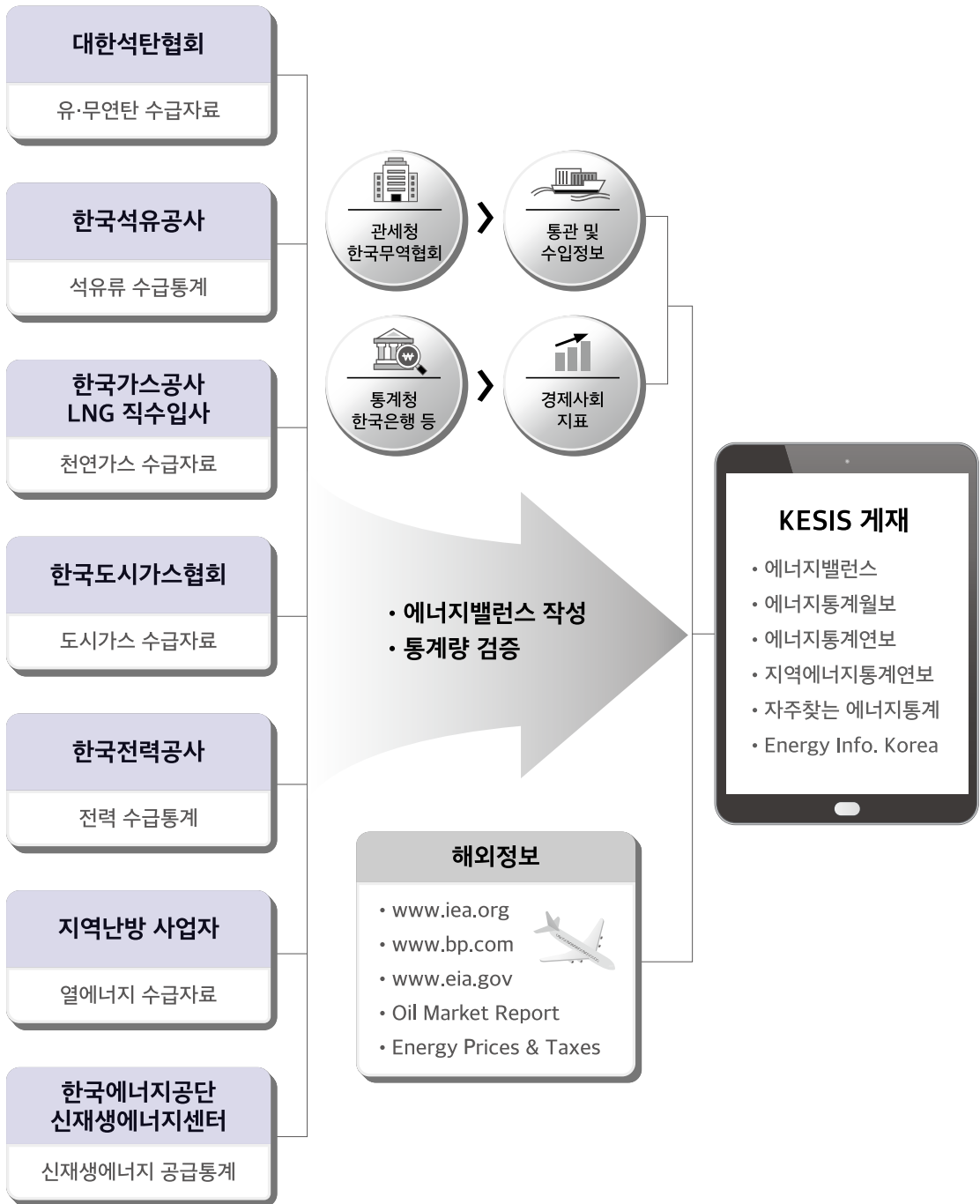
### 라. 작성 내용

- 에너지생산 및 수·출입 : 국내생산, 수입, 수출, 국제버커링, 재고 등
- 1차에너지 공급 및 전환(발전, 지역난방, 가스제조, 자가소비 및 손실)
- 최종에너지 소비
  - 산업부문 : 농림어업, 광업, 제조업(11개업종), 건설업
  - 수송부문 : 철도운수, 육상운수, 수상운수, 항공운수
  - 가정·상업·공공 : 가정, 상업, 공공

### 마. 결과 공표

- 간행물 : 에너지통계월보(매월), 에너지통계연보(매년)
  - 「에너지통계월보」 발간 : 매월 15일 경
  - 「에너지통계연보」 발간 : 매년 12월 경
- 웹사이트 : 국가에너지통계종합정보시스템(KESIS: Korea Energy Statistics Information System)
  - [www.kesis.net](http://www.kesis.net)

## 바. 에너지수급통계 작성 체계







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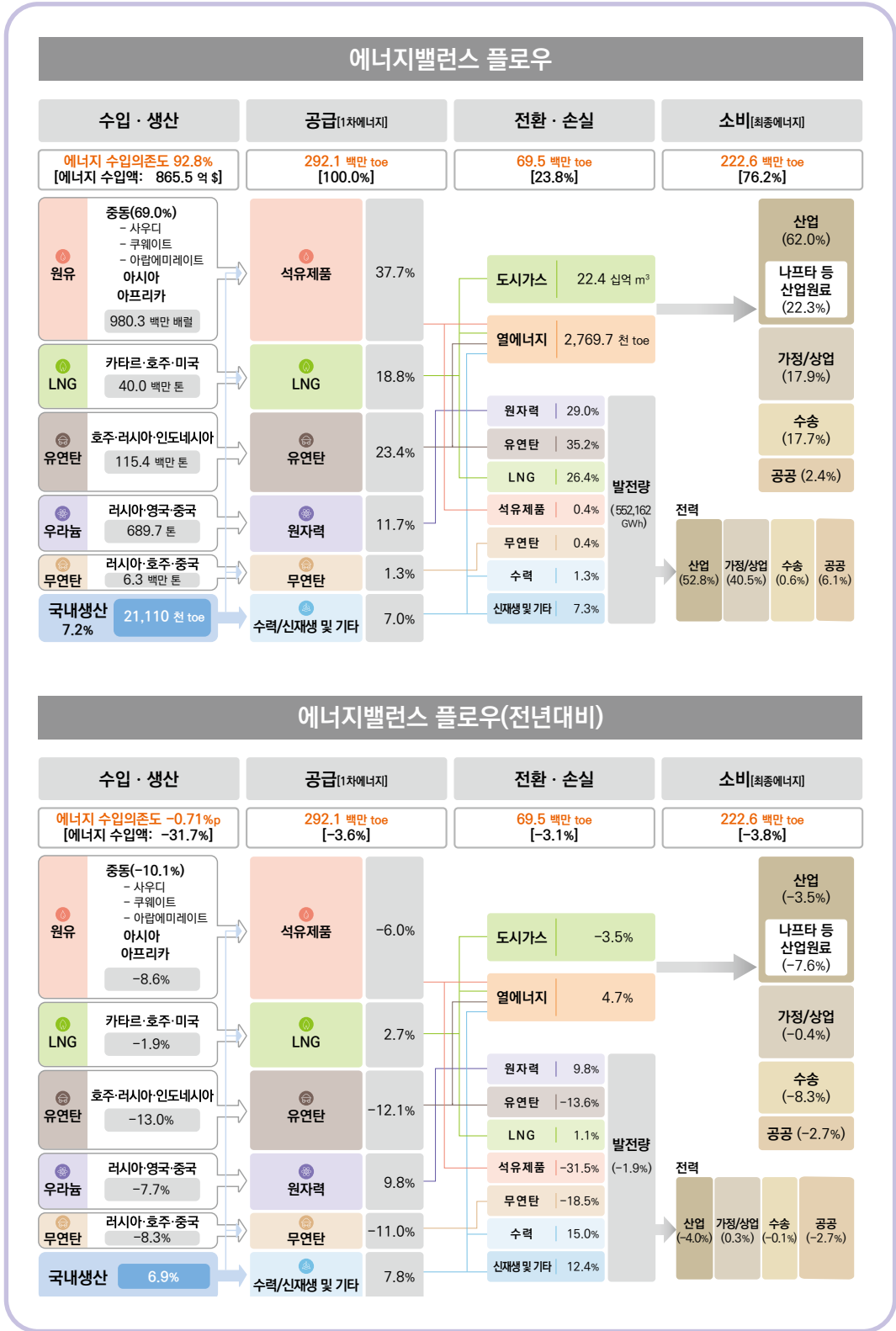
# 통계도표

## Statistics in Charts

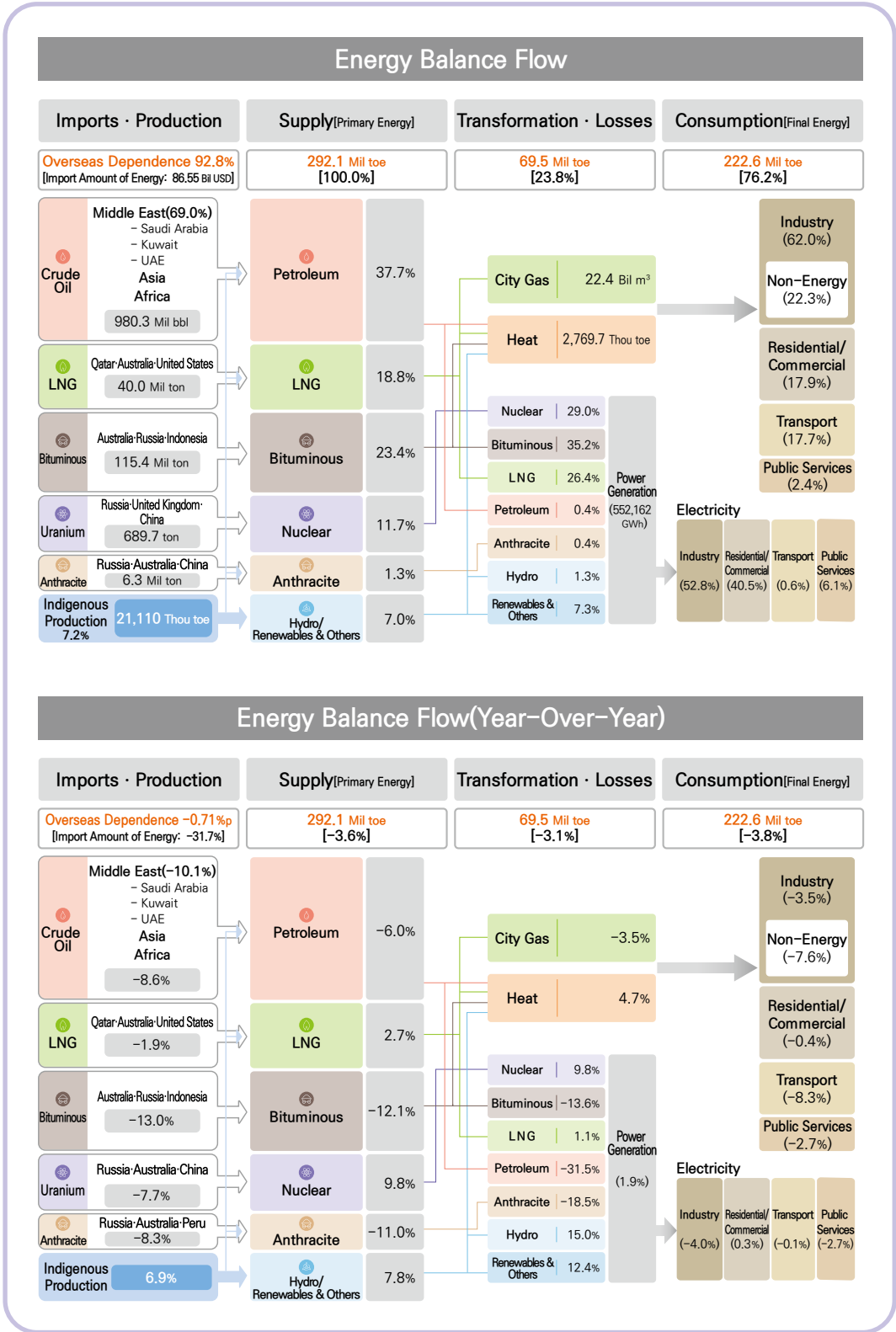
### 2020년 연간 에너지밸런스 플로우

1. 경제성장과 에너지소비  
Economic Growth and Energy Consumption
2. 에너지 생산·수입  
Domestic & Imported Energy
3. 에너지 수급  
Energy Supply & Demand
4. 에너지 수입가격  
Energy Imports Prices
5. 정유 현황  
Refinery Capacities
6. 발전설비 추이  
Trends of Generating Facilities





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

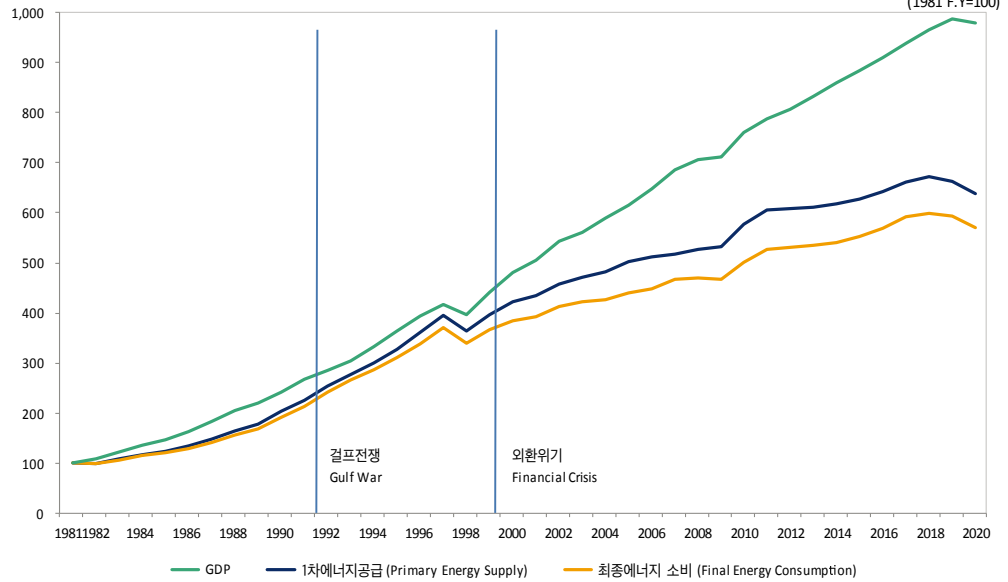


※ Renewables & Others: Solar Thermal, Solar Photovoltaic, Wind, Ocean, Geothermal, Hydro thermal, Bio, Waste, Fuel Cells, IGCC

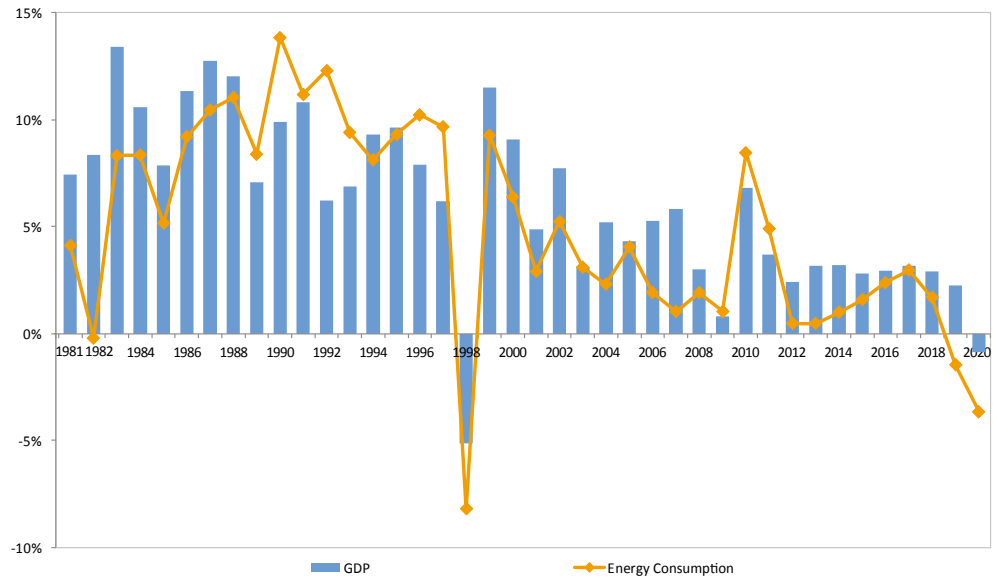
## 1. 경제성장과 에너지소비 Economic Growth and Energy Consumption

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

백만(Mil)toe

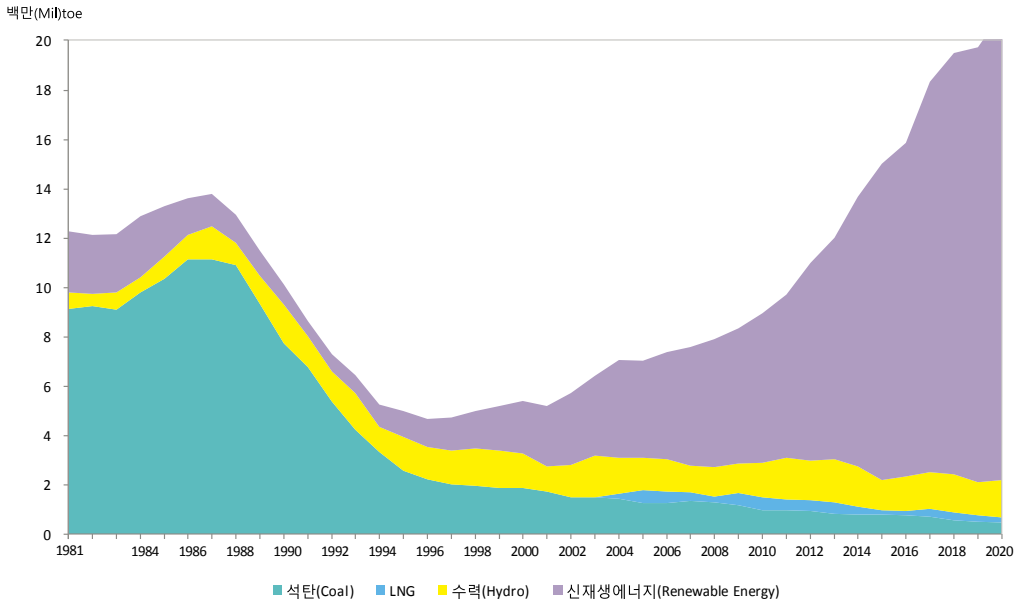


### ● GDP와 에너지소비 증가율 Growth Rate of GDP and Energy Consumption

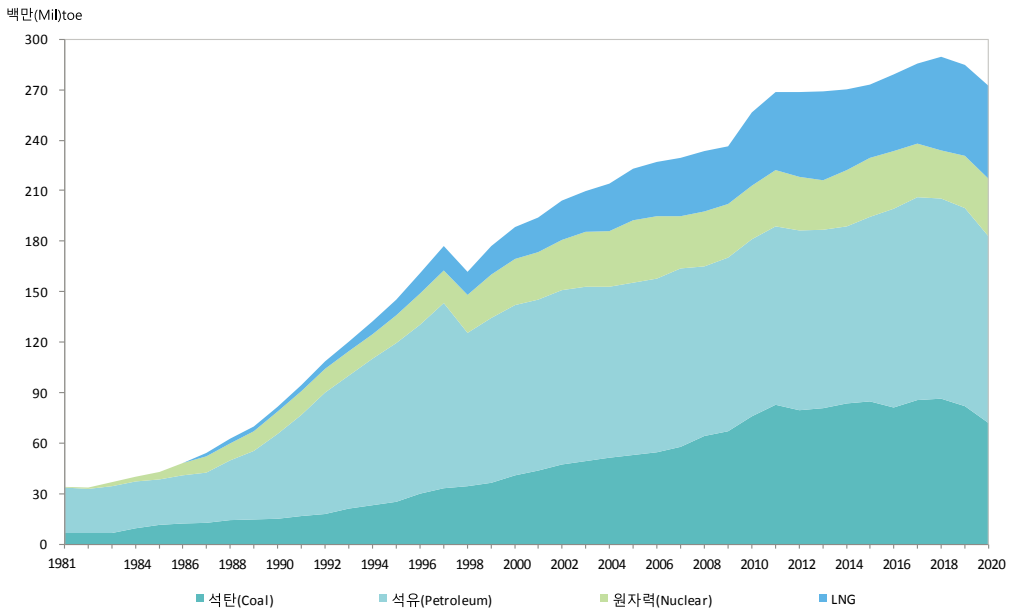


## 2. 에너지 생산·수입 Domestic & Imported Energy

### ● 1차 에너지 공급 : 국내생산 TPES : Domestic Energy

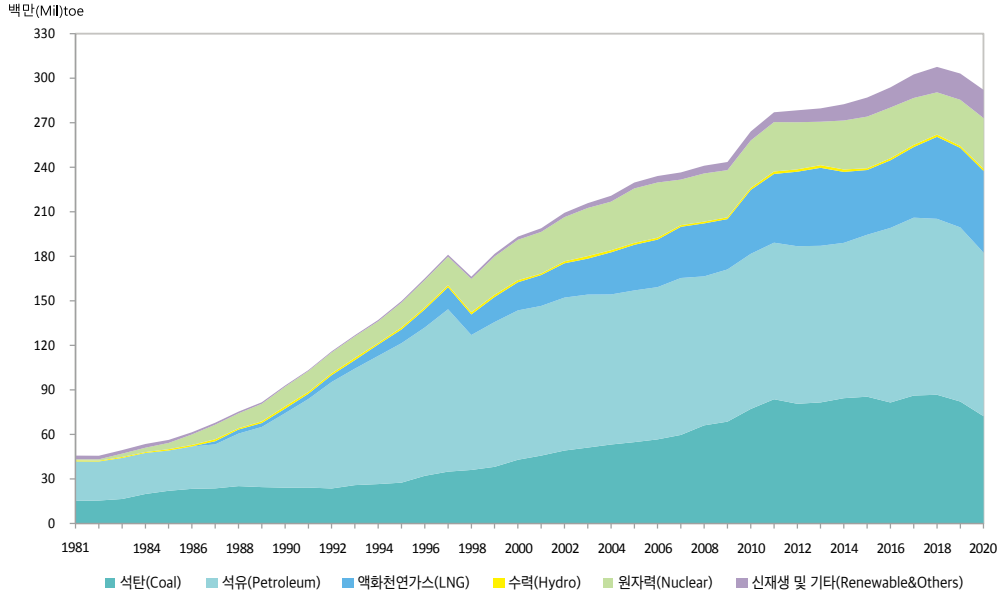


### ● 1차 에너지 공급 : 수입 에너지 TPES : Imported Energy

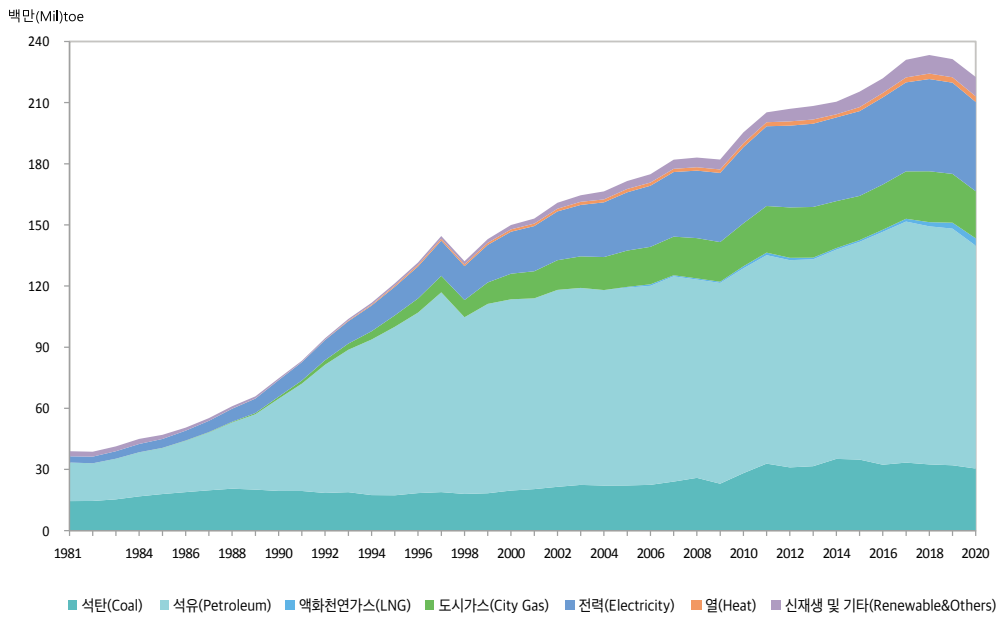


### 3. 에너지 수급 Energy Supply & Demand

#### ● 1차에너지 공급 Primary Energy Supply

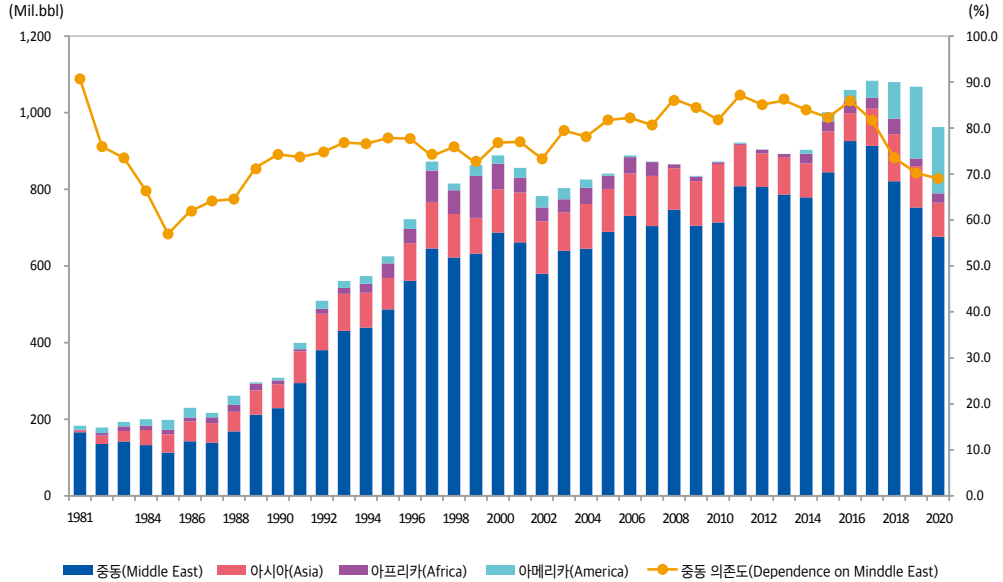


#### ● 최종에너지 소비 Final Energy Consumption

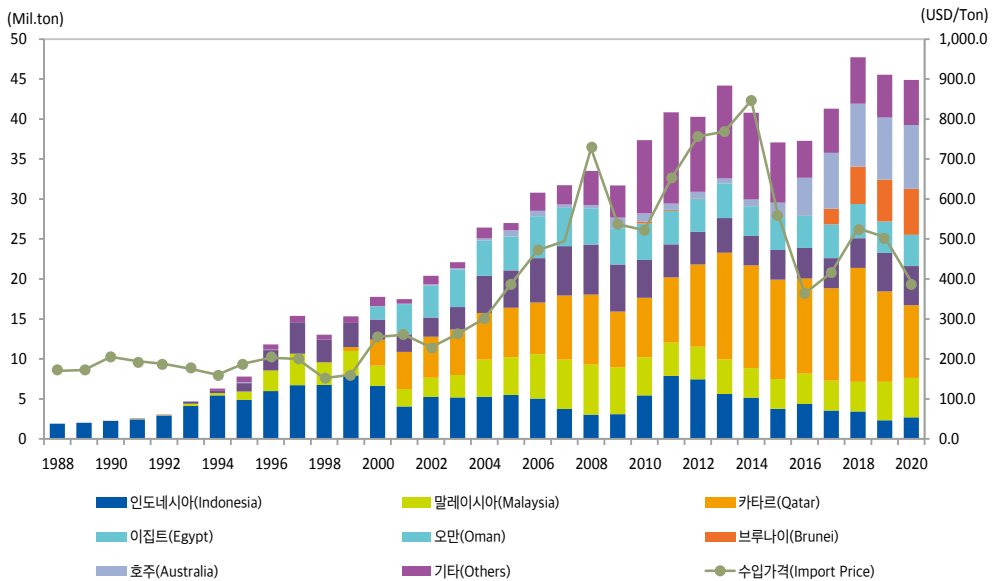


#### 4. 에너지 수입가격 Energy Imports Prices

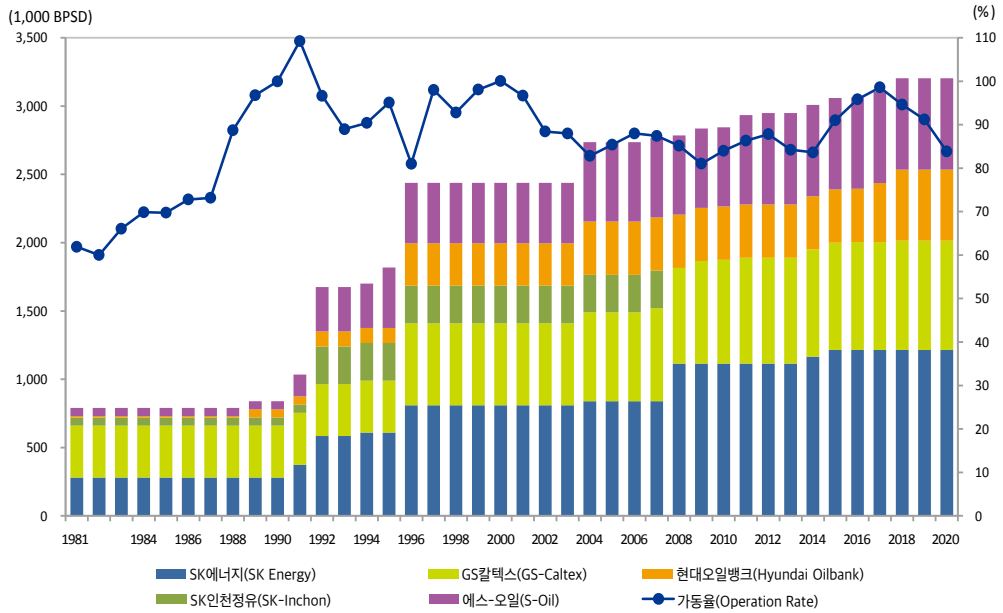
##### ● 원유 수입 Crude Oil Imports by Region



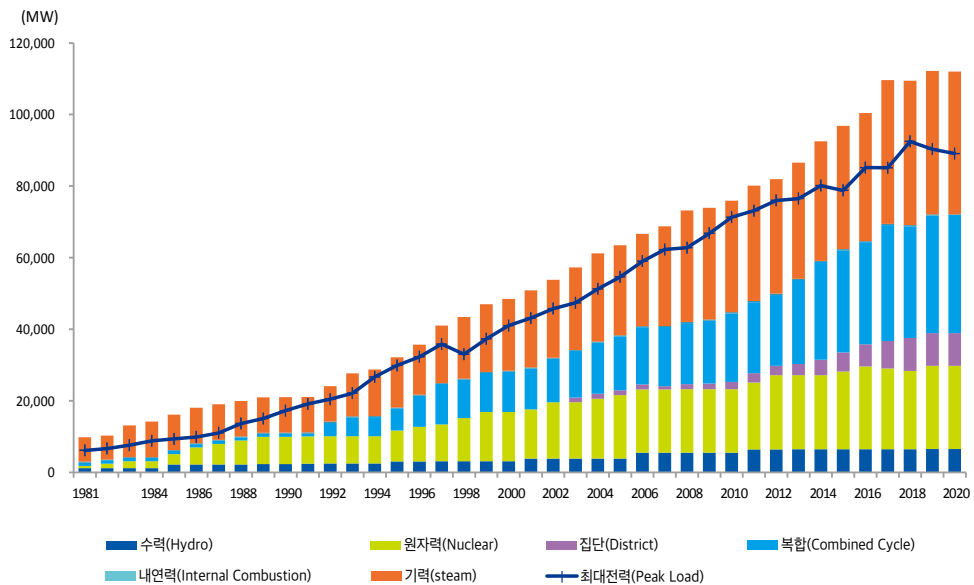
##### ● 액화천연가스 수입 LNG Imports and Prices



### 5. 정유 현황 Refinery Capacities



### 6. 발전설비 추이 Trends of Generating Facilities





# 1. 에너지 개요

## Energy Overview

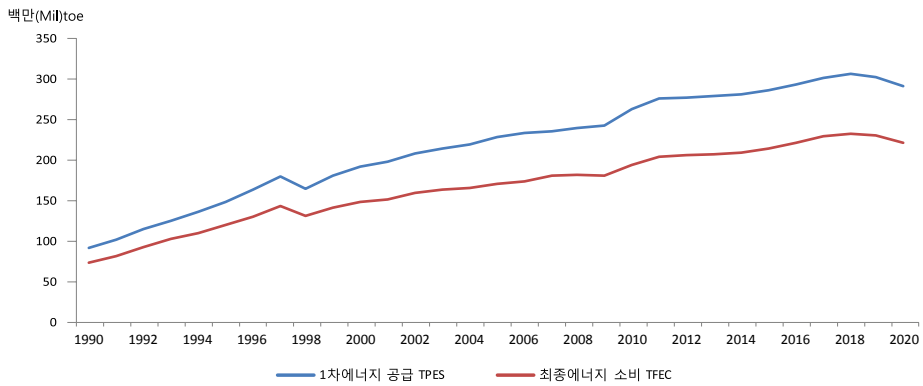
1. 주요 에너지 지표  
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Energy Exports and Imports
3. 에너지 수입액  
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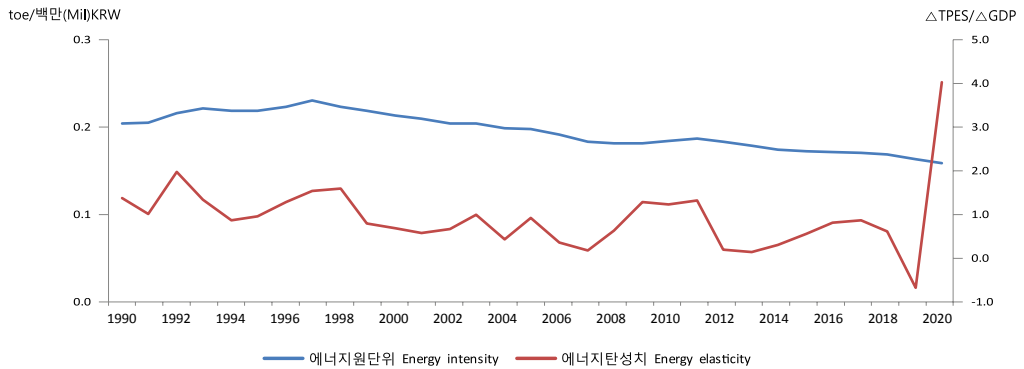
● 1차에너지 공급, 최종에너지 소비 Primary Energy Supply, Final Energy Consumption

<1990~2020>



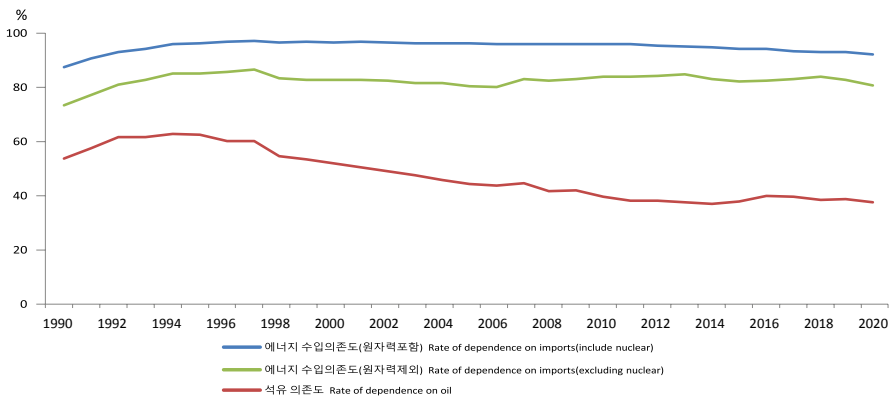
● 에너지원단위, 에너지탄성치 Energy Intensity, Energy Elasticity

<1990~2020>



● 에너지 수입의존도, 석유 의존도 Rate of Dependence on Imports, Rate of Dependence on Oil

<1990~2020>



## 1. 주요 에너지 지표

	에너지수급 Energy Supply & Demand		1차에너지원별 구성비 Shares of Primary Energy					
	1차에너지 Primary Energy	최종에너지 Final Energy	석탄 Coal	석유 Petroleum	액화천연가스 LNG	수력 Hydro	원자력 Nuclear	신재생 및 기타 <sup>3)</sup> Renewables & Others <sup>3)</sup>
	1,000 toe		%					
1981	45,718	38,952	33.3	58.1	-	1.5	1.6	5.5
1982	45,625	38,711	33.9	57.7	-	1.1	2.1	5.3
1983	49,420	41,337	33.4	55.9	-	1.4	4.5	4.8
1984	53,535	44,998	37.1	51.6	-	1.1	5.5	4.7
1985	56,296	46,998	39.1	48.2	-	1.6	7.4	3.6
1986	61,462	50,524	38.0	46.4	0.1	1.6	11.5	2.4
1987	67,878	55,197	34.8	43.7	3.1	2.0	14.5	1.9
1988	75,351	61,033	33.4	47.0	3.6	1.2	13.3	1.5
1989	81,660	65,875	30.0	49.6	3.2	1.4	14.5	1.3
1990	92,931	74,701	26.0	54.0	3.3	1.7	14.2	0.9
1991	103,294	83,336	23.4	57.7	3.4	1.2	13.6	0.6
1992	115,962	94,403	20.3	61.9	4.0	1.0	12.2	0.6
1993	126,836	103,850	20.4	61.9	4.5	1.2	11.5	0.6
1994	137,108	111,787	19.4	63.0	5.6	0.7	10.7	0.7
1995	149,927	121,400	18.3	62.7	6.1	0.9	11.2	0.7
1996	165,136	131,573	19.4	60.5	7.4	0.8	11.2	0.7
1997	181,058	144,541	19.3	60.4	8.2	0.7	10.6	0.7
1998	166,265	132,177	21.7	54.7	8.3	0.9	13.5	0.9
1999	181,651	143,027	21.0	53.7	9.3	0.8	14.2	1.0
2000	193,240	149,958	22.2	52.1	9.8	0.7	14.1	1.1
2001	198,865	153,103	23.0	50.7	10.5	0.5	14.1	1.2
2002	209,290	160,876	23.5	49.2	11.0	0.6	14.2	1.4
2003	215,772	164,550	23.7	47.8	11.2	0.8	15.0	1.5
2004	220,756	166,452	24.1	45.8	12.8	0.7	14.8	1.8
2005	229,667	171,543	23.9	44.5	13.4	0.6	16.0	1.7
2006	234,062	174,873	24.2	43.8	13.7	0.6	15.9	1.9
2007	236,486	182,015	25.2	44.7	14.6	0.5	13.0	2.0
2008	240,994	183,054	27.4	41.6	14.8	0.5	13.5	2.2
2009	243,500	182,080	28.2	42.1	13.9	0.5	13.0	2.3
2010	264,053	195,401	29.2	39.6	16.3	0.5	12.1	2.3
2011	276,997	205,239	30.2	38.1	16.7	0.6	12.0	2.4
2012	278,325	206,968	29.0	38.1	18.0	0.6	11.4	2.9
2013	279,623	208,362	29.2	37.7	18.8	0.6	10.5	3.2
2014	282,423	210,448	29.9	37.1	16.9	0.6	11.7	3.9
2015	286,921	215,389	29.8	38.0	15.2	0.4	12.1	4.5
2016	293,778	221,936	27.7	40.0	15.5	0.5	11.6	4.6
2017	302,490	231,023	28.5	39.6	15.7	0.5	10.5	5.2
2018	307,557	233,368	28.2	38.5	18.0	0.5	9.2	5.6
2019	303,092	231,353	27.1	38.7	17.7	0.4	10.3	5.8
2020	292,076	222,563	24.7	37.7	18.8	0.5	11.7	6.5

1. GDP는 연쇄가격기준

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

3. 기타: 폐기물을 이용하여 제조한 것

## 1. Major Energy Indicators

1인당 에너지소비량 Per Capita Energy	GDP단위당 1차에너지(2015년 기준) <sup>1</sup>			지수 Index 2015=100	수입의존도 <sup>2</sup> Overseas Dependence <sup>2</sup> %	
	TPES/GDP <sup>1</sup>		2015=100			
	toe/Mil.KRW	toe/1,000 USD				
1.18	0.244	0.276	140.8	75.0 (73.4)	1981	
1.16	0.225	0.254	129.7	74.3 (72.2)	1982	
1.24	0.214	0.243	124.0	74.6 (70.1)	1983	
1.32	0.210	0.238	121.5	75.2 (69.7)	1984	
1.38	0.205	0.232	118.4	76.2 (68.8)	1985	
1.49	0.201	0.227	116.1	78.2 (66.7)	1986	
1.63	0.197	0.223	113.8	80.0 (65.6)	1987	
1.79	0.195	0.221	112.8	83.2 (69.9)	1988	
1.92	0.198	0.224	114.2	85.5 (71.0)	1989	
2.17	0.205	0.232	118.2	87.8 (73.6)	1990	
2.39	0.205	0.232	118.6	91.2 (77.6)	1991	
2.65	0.217	0.246	125.4	93.6 (81.4)	1992	
2.87	0.222	0.251	128.4	94.7 (83.3)	1993	
3.07	0.220	0.249	127.0	96.4 (85.7)	1994	
3.32	0.219	0.248	126.7	96.8 (85.6)	1995	
3.63	0.224	0.253	129.3	97.3 (86.1)	1996	
3.94	0.231	0.262	133.5	97.6 (87.0)	1997	
3.59	0.224	0.253	129.3	97.1 (83.6)	1998	
3.90	0.219	0.248	126.7	97.2 (83.0)	1999	
4.11	0.214	0.242	123.6	97.2 (83.1)	2000	
4.20	0.210	0.238	121.3	97.3 (83.2)	2001	
4.39	0.205	0.232	118.5	97.1 (82.9)	2002	
4.51	0.205	0.232	118.4	96.9 (81.9)	2003	
4.59	0.199	0.226	115.2	96.6 (81.8)	2004	
4.77	0.199	0.225	114.9	96.6 (80.7)	2005	
4.83	0.192	0.218	111.2	96.5 (80.6)	2006	
4.86	0.184	0.208	106.2	96.6 (83.6)	2007	
4.91	0.182	0.206	105.1	96.5 (83.0)	2008	
4.94	0.182	0.206	105.3	96.5 (83.4)	2009	
5.33	0.185	0.209	107.0	96.5 (84.4)	2010	
5.55	0.187	0.212	108.2	96.5 (84.5)	2011	
5.54	0.184	0.208	106.2	96.0 (84.6)	2012	
5.54	0.179	0.202	103.4	95.7 (85.2)	2013	
5.57	0.175	0.198	101.2	95.2 (83.5)	2014	
5.62	0.173	0.196	100.0	94.8 (82.7)	2015	
5.74	0.172	0.195	99.5	94.6 (83.0)	2016	
5.89	0.172	0.194	99.3	94.0 (83.5)	2017	
5.96	0.170	0.192	98.1	93.7 (84.4)	2018	
5.86	0.164	0.185	94.5	93.5 (83.2)	2019	
5.64	0.159	0.180	91.9	92.8 (81.1)	2020	

1. GDP is based on chained prices.

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

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

## 2. 에너지 수출입

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

자료: 한국무역협회, 한국석유공사

## 2. Energy Exports and Imports

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

Source: Korea International Trade Association, Korea National Oil Corporation

## 3. 에너지 수입액

단위: 백만 달러(CIF)

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

1. 기타석탄에 갈탄, 토탄 포함.

자료: 한국무역협회



## 3. Import Amount of Energy

Unit : Million USD(CIF)

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

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

## 4. 1차에너지 공급구조

	1차에너지 공급 TPES		생산 Production				
			소계 Subtotal	무연탄 Anthracite	액화천연가스 LNG	수 력 Hydro	신재생 및 기타 <sup>1)</sup> Renewables & Others <sup>1)</sup>
	1,000 toe	1,000 toe	1,000 ton		GWh	1,000 toe	
1981	45,718	11,418 (12,142)	17,932	-	-	2,709	2,492
1982	45,625	11,726 (12,670)	19,148	-	-	2,004	2,417
1983	49,420	12,533 (14,774)	20,596	-	-	2,723	2,378
1984	53,535	13,277 (16,225)	22,143	-	-	2,399	2,492
1985	56,296	13,393 (17,579)	22,711	-	-	3,659	2,031
1986	61,462	13,375 (20,453)	23,674	-	-	4,019	1,480
1987	67,878	13,553 (23,381)	23,692	-	-	5,344	1,319
1988	75,351	12,669 (22,694)	23,586	-	-	3,566	1,164
1989	81,660	11,827 (23,668)	21,455	-	-	4,558	1,033
1990	92,931	11,298 (24,520)	19,802	-	-	6,361	797
1991	103,294	9,048 (23,126)	15,928	-	-	5,051	618
1992	115,962	7,467 (21,600)	12,287	-	-	4,863	722
1993	126,836	6,672 (21,206)	9,840	-	-	6,006	742
1994	137,108	4,998 (19,661)	6,817	-	-	4,098	906
1995	149,927	4,835 (21,592)	5,367	-	-	5,478	1,050
1996	165,136	4,444 (22,925)	4,406	-	-	5,201	1,161
1997	181,058	4,342 (23,613)	3,659	-	-	5,404	1,344
1998	166,265	4,766 (27,188)	3,812	-	-	6,099	1,526
1999	181,651	5,034 (30,800)	3,803	-	-	6,066	1,806
2000	193,240	5,404 (32,645)	4,159	-	-	5,610	2,130
2001	198,865	5,305 (33,339)	4,027	-	-	4,151	2,456
2002	209,290	5,966 (35,742)	3,808	-	-	5,309	2,925
2003	215,772	6,728 (39,146)	3,924	-	-	6,887	3,241
2004	220,756	7,397 (40,075)	3,871	163	-	5,861	3,977
2005	229,667	7,732 (44,427)	4,347	398	-	5,189	3,961
2006	234,062	8,192 (45,380)	4,596	355	-	5,219	4,358
2007	236,486	8,141 (38,873)	4,035	271	-	5,042	4,828
2008	240,994	8,553 (41,008)	4,134	181	-	5,563	5,198
2009	243,500	8,639 (40,410)	3,114	383	-	5,641	5,480
2010	264,053	9,161 (41,109)	2,508	415	-	6,472	6,064
2011	276,997	9,794 (43,059)	2,239	347	-	7,831	6,617
2012	278,325	11,116 (42,835)	2,288	334	-	7,652	8,036
2013	279,623	12,145 (41,429)	2,054	355	-	8,394	8,987
2014	282,423	13,667 (46,668)	1,642	247	-	7,820	10,956
2015	286,921	14,944 (49,709)	1,541	144	-	5,796	12,839
2016	293,778	15,747 (49,928)	1,373	118	-	6,634	13,575
2017	302,490	18,267 (49,882)	1,244	261	-	6,995	15,848
2018	307,557	19,493 (47,929)	1,099	234	-	7,270	17,119
2019	303,092	19,754 (50,833)	1,008	198	-	6,247	17,688
2020	292,076	21,110 (55,229)	886	142	-	7,148	18,983

1. 기타: 폐기물을 이용하여 제조한 것

주: ( )안 수치는 원자력발전을 국내생산에 포함한 수치임.

## 4. Primary Energy Supply Structure

수입 Import						
소계 Subtotal	석탄 Coal	석 유 Petroleum	원자력 Nuclear	액화천연가스 LNG		
1,000 toe	1,000 ton	1,000 bbl	GWh	1,000 ton		
34,300 (33,576)	10,916	180,053	2,897	-		1981
33,898 (32,954)	10,221	178,894	3,776	-		1982
36,887 (34,646)	10,732	189,308	8,965	-		1983
40,258 (37,310)	14,861	191,049	11,792	-		1984
42,903 (38,717)	17,822	189,190	16,745	-		1985
48,087 (41,009)	19,204	200,591	28,311	54		1986
54,325 (44,497)	19,612	210,512	39,314	1,621		1987
62,682 (52,657)	22,320	250,558	40,101	2,094		1988
69,833 (57,992)	22,683	287,150	47,365	2,027		1989
81,633 (68,411)	23,168	356,339	52,887	2,329		1990
94,246 (80,168)	25,907	424,667	56,311	2,694		1991
108,495 (94,362)	27,444	514,224	56,530	3,524		1992
120,165 (105,630)	32,531	564,575	58,138	4,402		1993
132,110 (117,447)	35,602	621,471	58,651	5,860		1994
145,092 (128,335)	38,058	677,187	67,029	7,087		1995
160,693 (142,211)	45,715	721,038	73,924	9,363		1996
176,717 (157,445)	50,497	793,877	77,086	11,379		1997
161,499 (139,077)	52,099	670,232	89,689	10,645		1998
176,617 (150,851)	55,329	719,656	103,064	12,961		1999
187,836 (160,595)	62,387	742,556	108,964	14,557		2000
193,560 (165,527)	66,817	743,666	112,133	15,990		2001
203,323 (173,548)	72,201	762,867	119,102	17,766		2002
209,043 (176,625)	75,209	762,940	129,672	18,610		2003
213,359 (180,680)	78,362	750,303	130,715	21,645		2004
221,935 (185,240)	80,486	761,065	146,779	23,234		2005
225,870 (188,683)	83,174	765,483	148,749	24,264		2006
228,345 (197,613)	90,092	794,879	142,937	26,245		2007
232,442 (199,986)	100,126	760,390	150,958	27,258		2008
234,862 (203,091)	105,261	778,222	147,771	25,699		2009
254,892 (222,944)	118,610	794,030	148,596	32,669		2010
267,203 (233,938)	128,703	801,409	154,723	35,256		2011
267,208 (235,489)	125,899	825,167	150,327	38,151		2012
267,478 (238,194)	127,530	821,374	138,784	39,923		2013
268,757 (235,755)	131,682	818,290	156,407	36,389		2014
271,977 (237,212)	133,544	853,096	164,762	33,293		2015
278,031 (243,850)	127,936	921,082	161,995	34,788		2016
284,223 (252,608)	138,506	939,785	148,427	36,138		2017
288,064 (259,627)	139,951	931,787	133,505	42,051		2018
283,338 (252,259)	131,999	927,062	145,910	40,792		2019
270,966 (236,847)	115,685	872,362	160,184	41,949		2020

1. Others: The energy source is manufactured from the waste.  
Note: Figures in parentheses ( ) are including nuclear generation in domestic production.

## 5. 1차에너지 공급(고유단위)

	석탄 Coal			석유 Petroleum			
	소계 Subtotal	무연탄 Anthracite	유연탄 Bituminous	소계 Subtotal	에너지유 Energy Use	액화석유가스 LPG	비에너지유 Non-Energy Use
	1,000 ton			1,000 bbl			
1981	28,848	21,414	7,434	180,053	152,306	4,962	22,785
1982	29,369	20,866	8,503	178,894	149,276	7,225	22,393
1983	31,328	21,695	9,633	189,308	153,582	9,930	25,796
1984	37,004	24,259	12,745	191,049	150,388	12,201	28,460
1985	40,533	25,836	14,697	189,190	145,488	14,247	29,456
1986	42,878	27,588	15,290	200,591	150,000	17,585	33,007
1987	43,304	27,086	16,218	210,512	154,368	21,216	34,927
1988	45,906	26,632	19,274	250,558	187,057	25,904	37,596
1989	44,138	23,670	20,468	287,150	218,770	30,329	38,051
1990	42,970	21,091	21,878	356,339	267,514	35,712	53,114
1991	41,835	17,424	24,411	424,667	308,488	43,131	73,048
1992	39,731	13,490	26,242	514,224	352,828	53,917	107,479
1993	42,371	10,819	31,552	564,575	386,698	59,437	118,440
1994	42,419	7,360	35,059	621,471	424,648	63,452	133,371
1995	43,425	5,999	37,426	677,187	468,988	66,468	141,731
1996	50,121	5,312	44,809	721,038	499,935	68,441	152,662
1997	54,156	4,444	49,712	793,877	507,196	71,623	215,059
1998	55,911	4,650	51,261	670,232	370,807	67,992	231,433
1999	59,132	4,995	54,137	719,656	405,863	77,007	236,786
2000	66,546	6,200	60,346	742,556	409,671	84,688	248,196
2001	70,843	7,141	63,703	743,666	404,726	84,377	254,563
2002	76,009	7,735	68,274	762,867	402,143	91,415	269,310
2003	79,133	8,584	70,549	762,940	395,123	88,606	279,211
2004	82,233	8,249	73,984	750,303	369,285	88,375	292,643
2005	84,833	9,037	75,796	761,065	367,039	91,668	302,359
2006	87,770	9,769	78,001	765,483	355,843	93,451	316,189
2007	94,127	9,690	84,438	794,879	352,888	97,143	344,848
2008	104,260	10,247	94,013	760,390	319,902	101,881	338,607
2009	108,375	9,585	98,789	778,222	319,607	106,320	352,295
2010	121,118	9,956	111,162	794,030	326,168	105,175	362,688
2011	130,942	11,072	119,870	801,409	312,369	99,201	389,839
2012	128,187	10,315	117,872	825,167	312,704	95,473	416,990
2013	129,584	10,506	119,078	821,374	308,117	93,057	420,201
2014	133,324	9,925	123,399	818,290	295,804	89,577	432,908
2015	135,085	10,539	124,547	853,096	318,724	89,866	444,506
2016	129,309	10,801	118,509	921,082	345,909	108,961	466,212
2017	139,750	8,260	131,490	937,095	338,523	105,145	493,427
2018	141,050	9,272	131,779	931,787	336,162	109,370	486,255
2019	133,007	7,923	125,084	927,062	329,616	122,138	475,308
2020	116,572	7,189	109,382	872,362	302,344	121,294	448,724

1. 기타: 폐기물을 이용하여 제조한 것

## 5. Primary Energy Supply(Original Unit)

액화천연가스 LNG	수 력 Hydro			원자력 Nuclear	신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>	
	소계 Subtotal	일반·소수력 General· Micro hydro	양수 Pumping			
1,000 ton	GWh				1,000 toe	
-	2,709	2,598	111	2,897	2,492	1981
-	2,004	1,715	290	3,776	2,417	1982
-	2,723	2,294	428	8,965	2,378	1983
-	2,399	1,998	401	11,792	2,492	1984
-	3,659	3,185	474	16,745	2,031	1985
54	4,019	3,110	910	28,311	1,480	1986
1,621	5,344	3,965	1,379	39,314	1,319	1987
2,094	3,566	1,987	1,579	40,101	1,164	1988
2,027	4,558	2,964	1,594	47,365	1,033	1989
2,329	6,361	4,684	1,677	52,887	797	1990
2,694	5,051	3,486	1,565	56,311	618	1991
3,524	4,863	3,097	1,766	56,530	722	1992
4,402	6,006	4,228	1,779	58,138	742	1993
5,860	4,098	2,346	1,752	58,651	906	1994
7,087	5,478	2,760	2,718	67,029	1,050	1995
9,363	5,201	2,424	2,777	73,924	1,161	1996
11,379	5,404	2,814	2,590	77,086	1,344	1997
10,645	6,099	4,279	1,820	89,689	1,526	1998
12,961	6,066	4,159	1,907	103,064	1,806	1999
14,557	5,610	4,010	1,600	108,964	2,130	2000
15,990	4,151	2,330	1,821	112,133	2,456	2001
17,766	5,309	3,233	2,078	119,102	2,925	2002
18,610	6,887	4,886	2,001	129,672	3,241	2003
21,809	5,861	4,311	1,550	130,715	3,977	2004
23,632	5,189	3,673	1,516	146,779	3,961	2005
24,619	5,219	3,468	1,751	148,749	4,358	2006
26,516	5,042	3,632	1,411	142,937	4,828	2007
27,439	5,563	3,070	2,493	150,958	5,198	2008
26,083	5,641	2,813	2,828	147,771	5,480	2009
33,083	6,472	3,682	2,790	148,596	6,064	2010
35,603	7,831	4,598	3,233	154,723	6,617	2011
38,485	7,652	3,969	3,683	150,327	8,036	2012
40,278	8,394	4,289	4,105	138,784	8,987	2013
36,636	7,820	2,751	5,068	156,407	10,956	2014
33,438	5,796	2,146	3,650	164,762	12,839	2015
34,906	6,634	2,846	3,787	161,995	13,575	2016
36,398	6,995	2,809	4,186	148,427	15,848	2017
42,285	7,270	3,359	3,911	133,505	17,119	2018
40,991	6,247	2,789	3,458	145,910	17,688	2019
42,091	7,148	3,877	3,271	160,184	18,983	2020

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

## 6. 1차에너지 공급(열량)

단위: 천 toe

	합계		석탄 Coal						석유 Petroleum			
	TFEC	증가율 Growth Rate (%)	소계		무연탄		유연탄		소계		에너지유	
			Subtotal	%	Anthracite	%	Bituminous	%	Subtotal	%	Energy Use	%
1981	45,718	4.1	15,244	33.3	10,338	22.6	4,906	10.7	26,580	58.1	23,110	50.5
1982	45,625	-0.2	15,451	33.9	9,839	21.6	5,612	12.3	26,312	57.7	22,649	49.6
1983	49,420	8.3	16,491	33.4	10,133	20.5	6,358	12.9	27,629	55.9	23,250	47.0
1984	53,535	8.3	19,867	37.1	11,455	21.4	8,412	15.7	27,629	51.6	22,663	42.3
1985	56,296	5.2	22,022	39.1	12,322	21.9	9,700	17.2	27,142	48.2	21,836	38.8
1986	61,462	9.2	23,330	38.0	13,239	21.5	10,091	16.4	28,499	46.4	22,408	36.5
1987	67,878	10.4	23,639	34.8	12,935	19.1	10,704	15.8	29,653	43.7	22,958	33.8
1988	75,351	11.0	25,162	33.4	12,441	16.5	12,721	16.9	35,390	47.0	27,869	37.0
1989	81,660	8.4	24,493	30.0	10,984	13.5	13,509	16.5	40,524	49.6	32,506	39.8
1990	92,931	13.8	24,124	26.0	9,685	10.4	14,440	15.5	50,175	54.0	39,653	42.7
1991	103,294	11.2	24,206	23.4	8,065	7.8	16,141	15.6	59,627	57.7	45,773	44.3
1992	115,962	12.3	23,570	20.3	6,251	5.4	17,319	14.9	71,740	61.9	52,311	45.1
1993	126,836	9.4	25,840	20.4	5,016	4.0	20,824	16.4	78,495	61.9	57,139	45.0
1994	137,108	8.1	26,532	19.4	3,394	2.5	23,139	16.9	86,364	63.0	62,677	45.7
1995	149,927	9.3	27,495	18.3	2,794	1.9	24,701	16.5	94,042	62.7	68,946	46.0
1996	165,136	10.2	32,100	19.4	2,526	1.5	29,574	17.9	99,923	60.5	73,261	44.4
1997	181,058	9.6	34,927	19.3	2,118	1.2	32,810	18.1	109,372	60.4	74,141	40.9
1998	166,265	-8.2	36,051	21.7	2,218	1.3	33,832	20.3	90,904	54.7	53,946	32.4
1999	181,651	9.3	38,157	21.0	2,426	1.3	35,731	19.7	97,556	53.7	59,007	32.5
2000	193,240	6.4	42,925	22.2	3,096	1.6	39,829	20.6	100,618	52.1	59,743	30.9
2001	198,865	2.9	45,724	23.0	3,680	1.9	42,044	21.1	100,827	50.7	59,049	29.7
2002	209,290	5.2	49,131	23.5	4,070	1.9	45,061	21.5	103,034	49.2	58,602	28.0
2003	215,772	3.1	51,124	23.7	4,562	2.1	46,563	21.6	103,073	47.8	57,605	26.7
2004	220,756	2.3	53,198	24.1	4,369	2.0	48,829	22.1	101,085	45.8	53,794	24.4
2005	229,667	4.0	54,795	23.9	4,770	2.1	50,025	21.8	102,197	44.5	53,415	23.3
2006	234,062	1.9	56,652	24.2	5,172	2.2	51,480	22.0	102,555	43.8	51,795	22.1
2007	236,486	1.0	59,653	25.2	5,580	2.4	54,073	22.9	105,718	44.7	50,728	21.5
2008	240,994	1.9	66,100	27.4	5,927	2.5	60,173	25.0	100,373	41.6	45,668	18.9
2009	243,500	1.0	68,595	28.2	5,687	2.3	62,908	25.8	102,534	42.1	45,569	18.7
2010	264,053	8.4	77,142	29.2	6,044	2.3	71,097	26.9	104,499	39.6	46,385	17.6
2011	276,997	4.9	83,687	30.2	6,827	2.5	76,860	27.7	105,459	38.1	44,263	16.0
2012	278,325	0.5	80,636	29.0	5,382	1.9	75,254	27.0	106,134	38.1	43,968	15.8
2013	279,623	0.5	81,544	29.2	5,500	2.0	76,044	27.2	105,515	37.7	43,171	15.4
2014	282,423	1.0	84,399	29.9	5,226	1.9	79,173	28.0	104,643	37.1	41,218	14.6
2015	286,921	1.6	85,401	29.8	5,593	1.9	79,808	27.8	109,090	38.0	44,501	15.5
2016	293,778	2.4	81,499	27.7	5,687	1.9	75,812	25.8	117,605	40.0	48,463	16.5
2017	302,490	2.8	86,177	28.5	4,524	1.5	81,653	27.0	119,400	39.5	47,298	15.7
2018	307,557	1.8	86,707	28.2	5,059	1.6	81,648	26.5	118,521	38.5	46,920	15.3
2019	303,092	-1.5	82,147	27.1	4,426	1.5	77,720	25.6	117,314	38.7	45,789	15.1
2020	292,076	-3.6	72,241	24.7	3,938	1.3	68,303	23.4	110,240	37.7	41,993	14.4

1. 기타: 폐기물을 이용하여 제조한 것

주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

### 6. Primary Energy Supply(Calorific Unit)

Unit: Thousand toe

석유 Petroleum				액화천연가스 LNG		수력 Hydro						원자력 Nuclear		신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>		
액화석유가스		비에너지유			%	소계		일반·소수력		양수			%		%	
LPG	%	Non-Energy Use	%			Subtotal	%	General-Microhydro	%	Pumping	%					
511	1.1	2,959	6.5	-	-	677	1.5	649	1.4	28	0.1	724	1.6	2,492	5.5	1981
750	1.6	2,913	6.4	-	-	501	1.1	429	0.9	72	0.2	944	2.1	2,417	5.3	1982
1,031	2.1	3,347	6.8	-	-	681	1.4	574	1.2	107	0.2	2,241	4.5	2,378	4.8	1983
1,262	2.4	3,703	6.9	-	-	600	1.1	500	0.9	100	0.2	2,948	5.5	2,492	4.7	1984
1,467	2.6	3,839	6.8	-	-	915	1.6	796	1.4	119	0.2	4,186	7.4	2,031	3.6	1985
1,799	2.9	4,292	7.0	71	0.1	1,005	1.6	777	1.3	227	0.4	7,078	11.5	1,480	2.4	1986
2,161	3.2	4,533	6.7	2,104	3.1	1,336	2.0	991	1.5	345	0.5	9,829	14.5	1,319	1.9	1987
2,629	3.5	4,892	6.5	2,718	3.6	892	1.2	497	0.7	395	0.5	10,025	13.3	1,164	1.5	1988
3,066	3.8	4,951	6.1	2,630	3.2	1,140	1.4	741	0.9	398	0.5	11,841	14.5	1,033	1.3	1989
3,601	3.9	6,921	7.4	3,023	3.3	1,590	1.7	1,171	1.3	419	0.5	13,222	14.2	797	0.9	1990
4,339	4.2	9,515	9.2	3,503	3.4	1,263	1.2	872	0.8	391	0.4	14,078	13.6	618	0.6	1991
5,441	4.7	13,988	12.1	4,581	4.0	1,216	1.0	774	0.7	441	0.4	14,133	12.2	722	0.6	1992
5,990	4.7	15,366	12.1	5,723	4.5	1,502	1.2	1,057	0.8	445	0.4	14,535	11.5	742	0.6	1993
6,398	4.7	17,289	12.6	7,618	5.6	1,025	0.7	587	0.4	438	0.3	14,663	10.7	906	0.7	1994
6,740	4.5	18,356	12.2	9,213	6.1	1,369	0.9	690	0.5	679	0.5	16,757	11.2	1,050	0.7	1995
6,874	4.2	19,787	12.0	12,172	7.4	1,300	0.8	606	0.4	694	0.4	18,481	11.2	1,161	0.7	1996
7,201	4.0	28,030	15.5	14,792	8.2	1,351	0.7	703	0.4	647	0.4	19,271	10.6	1,344	0.7	1997
6,877	4.1	30,081	18.1	13,838	8.3	1,525	0.9	1,070	0.6	455	0.3	22,422	13.5	1,526	0.9	1998
7,808	4.3	30,741	16.9	16,849	9.3	1,517	0.8	1,040	0.6	477	0.3	25,766	14.2	1,806	1.0	1999
8,644	4.5	32,231	16.7	18,924	9.8	1,402	0.7	1,002	0.5	400	0.2	27,241	14.1	2,130	1.1	2000
8,676	4.4	33,102	16.6	20,787	10.5	1,038	0.5	582	0.3	455	0.2	28,033	14.1	2,456	1.2	2001
9,398	4.5	35,035	16.7	23,096	11.0	1,327	0.6	808	0.4	520	0.2	29,776	14.2	2,925	1.4	2002
9,140	4.2	36,327	16.8	24,194	11.2	1,722	0.8	1,221	0.6	500	0.2	32,418	15.0	3,241	1.5	2003
9,186	4.2	38,105	17.3	28,351	12.8	1,465	0.7	1,078	0.5	388	0.2	32,679	14.8	3,977	1.8	2004
9,484	4.1	39,299	17.1	30,722	13.4	1,297	0.6	918	0.4	379	0.2	36,695	16.0	3,961	1.7	2005
9,689	4.1	41,071	17.5	32,004	13.7	1,305	0.6	867	0.4	438	0.2	37,187	15.9	4,358	1.9	2006
10,127	4.3	44,863	19.0	34,471	14.6	1,084	0.5	781	0.3	303	0.1	30,731	13.0	4,828	2.0	2007
10,647	4.4	44,059	18.3	35,671	14.8	1,196	0.5	660	0.3	536	0.2	32,456	13.5	5,198	2.2	2008
11,079	4.5	45,886	18.8	33,908	13.9	1,213	0.5	605	0.2	608	0.2	31,771	13.0	5,480	2.3	2009
10,924	4.1	47,190	17.9	43,008	16.3	1,391	0.5	792	0.3	600	0.2	31,948	12.1	6,064	2.3	2010
10,303	3.7	50,893	18.4	46,284	16.7	1,684	0.6	988	0.4	695	0.3	33,265	12.0	6,617	2.4	2011
9,912	3.6	52,254	18.8	50,185	18.0	1,615	0.6	837	0.3	777	0.3	31,719	11.4	8,036	2.9	2012
9,701	3.5	52,643	18.8	52,523	18.8	1,771	0.6	905	0.3	866	0.3	29,283	10.5	8,987	3.2	2013
9,343	3.3	54,083	19.1	47,773	16.9	1,650	0.6	581	0.2	1,069	0.4	33,002	11.7	10,956	3.9	2014
9,303	3.2	55,287	19.3	43,603	15.2	1,223	0.4	453	0.2	770	0.3	34,765	12.1	12,839	4.5	2015
11,166	3.8	57,977	19.7	45,518	15.5	1,400	0.5	601	0.2	799	0.3	34,181	11.6	13,575	4.6	2016
10,729	3.6	61,373	20.3	47,536	15.7	1,490	0.5	598	0.2	892	0.3	31,615	10.5	15,848	5.2	2017
11,160	3.6	60,442	19.7	55,224	18.0	1,549	0.5	716	0.2	833	0.3	28,437	9.2	17,119	5.6	2018
12,386	4.1	59,140	19.5	53,534	17.7	1,331	0.4	594	0.2	737	0.2	31,079	10.3	17,688	5.8	2019
12,251	4.2	55,997	19.2	54,970	18.8	1,523	0.5	826	0.3	697	0.2	34,119	11.7	18,983	6.5	2020

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

## 7. 최종에너지 소비(고유단위)

	석탄 Coal			석유 Petroleum		
	소계 Subtotal	무연탄 Anthracite	유연탄 Bituminous	소계 Subtotal	에너지유 Energy Use	액화석유가스 LPG
	1,000 ton			1,000 bbl		
1981	26,970	19,536	7,434	131,230	103,732	4,852
1982	27,042	18,539	8,503	128,898	99,607	7,080
1983	28,708	19,621	9,087	140,176	104,859	9,718
1984	31,411	22,008	9,403	152,559	112,363	11,996
1985	33,615	24,058	9,557	159,929	117,008	13,804
1986	35,230	25,303	9,927	179,142	129,645	16,938
1987	36,418	24,642	11,776	202,088	146,764	20,697
1988	37,920	24,225	13,695	231,911	169,312	25,208
1989	36,473	21,232	15,241	263,974	197,112	29,101
1990	35,263	19,108	16,154	323,972	237,771	33,307
1991	33,988	15,354	18,634	378,588	267,001	38,540
1992	31,401	11,545	19,857	455,528	300,617	47,432
1993	31,088	8,544	22,544	506,290	337,176	50,674
1994	27,928	5,168	22,760	553,673	367,005	53,298
1995	27,273	3,599	23,674	600,231	404,717	53,783
1996	28,595	2,805	25,790	643,626	434,299	56,664
1997	29,140	2,142	26,998	718,228	439,378	63,791
1998	27,778	2,199	25,579	641,854	346,603	63,818
1999	28,283	2,443	25,840	688,307	379,026	72,495
2000	30,391	3,350	27,042	698,107	368,424	81,488
2001	31,553	4,451	27,101	697,052	359,991	82,499
2002	33,308	5,177	28,131	721,390	362,342	89,739
2003	34,792	5,874	28,918	721,519	354,633	87,679
2004	34,365	5,893	28,472	717,176	337,055	87,482
2005	34,627	6,683	27,944	727,886	335,259	90,272
2006	35,215	7,413	27,802	733,947	325,173	92,617
2007	36,191	7,240	28,951	762,720	321,577	96,376
2008	38,930	7,708	31,222	740,032	301,801	99,679
2009	34,594	6,895	27,698	751,654	295,644	103,868
2010	42,040	7,552	34,488	766,756	304,012	100,279
2011	48,891	9,414	39,477	778,666	296,414	92,692
2012	47,255	8,518	38,736	793,982	289,244	88,100
2013	48,163	8,778	39,386	795,247	284,330	91,359
2014	53,052	7,880	45,172	805,329	284,434	88,844
2015	52,606	8,413	44,193	838,448	305,990	88,972
2016	49,019	8,272	40,747	899,308	326,294	107,873
2017	50,363	7,182	43,181	929,313	332,766	103,616
2018	49,295	8,280	41,014	920,044	327,027	107,169
2019	48,205	6,758	41,447	918,481	323,446	120,116
2020	45,829	6,218	39,611	865,768	298,053	119,431

1. 기타: 폐기물을 이용하여 제조한 것



## 7. Final Energy Consumption(Original Unit)

비에너지유 Non-Energy Use	액화천연가스	도시가스	전 력	열에너지	신재생 및 기타 <sup>1</sup>	
	LNG	City Gas	Electricity	Heat	Renewables & Others <sup>1</sup>	
	1,000 bbl	1,000 ton	mil.m <sup>3</sup>	GWh	1,000 toe	
22,646	-	21	35,424	-	2,492	1981
22,210	-	25	37,880	-	2,417	1982
25,599	-	34	42,620	-	2,378	1983
28,199	-	47	47,051	-	2,492	1984
29,117	-	77	50,733	-	2,031	1985
32,559	-	120	56,310	-	1,480	1986
34,627	-	181	64,169	10	1,319	1987
37,392	-	308	74,317	63	1,164	1988
37,761	-	590	82,192	71	1,033	1989
52,894	-	963	94,313	75	797	1990
73,048	-	1,467	104,374	80	618	1991
107,479	-	2,114	115,244	143	722	1992
118,440	-	2,883	127,734	360	742	1993
133,371	-	3,864	146,540	460	906	1994
141,731	-	5,327	163,270	641	1,050	1995
152,662	-	6,607	182,470	811	1,161	1996
215,059	-	7,708	200,784	909	1,344	1997
231,433	-	8,024	193,470	882	1,526	1998
236,786	-	10,012	214,215	1,033	1,806	1999
248,196	0	11,963	239,535	1,167	2,130	2000
254,563	-	12,657	257,731	1,218	2,456	2001
269,309	-	13,873	278,451	1,316	2,925	2002
279,207	-	14,734	293,599	1,523	3,210	2003
292,639	-	15,422	312,096	1,449	3,928	2004
302,355	282	16,963	332,413	1,652	3,896	2005
316,157	567	17,504	348,719	1,549	4,092	2006
344,767	398	17,967	368,605	1,576	4,491	2007
338,552	434	18,734	385,070	1,668	4,747	2008
352,142	453	18,445	394,475	1,709	4,867	2009
362,465	761	19,982	434,163	1,939	5,346	2010
389,560	963	21,679	455,070	1,976	4,850	2011
416,638	886	23,776	466,593	2,102	6,156	2012
419,558	623	23,890	474,849	2,070	6,639	2013
432,050	590	22,091	477,592	1,528	6,175	2014
443,487	653	20,785	483,655	1,967	7,595	2015
465,140	801	21,271	497,039	2,183	7,173	2016
492,931	1,049	22,603	507,746	2,441	8,638	2017
485,848	1,560	24,275	526,149	2,682	9,110	2018
474,919	2,227	23,268	520,499	2,647	8,910	2019
448,285	2,758	22,449	509,270	2,770	9,493	2020

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

## 8. 최종에너지 소비(열량)

단위: 천 toe

	합계		석탄 Coal						석유 Petroleum			
	TFEC	증가율 Growth Rate (%)	소계		무연탄		유연탄		소계		에너지유	
			Subtotal	%	Anthracite	%	Bituminous	%	Subtotal	%	Energy Use	%
1981	38,952	3.6	14,478	37.2	9,571	24.6	4,906	12.6	18,912	48.6	15,471	39.7
1982	38,711	-0.6	14,548	37.6	8,937	23.1	5,612	14.5	18,460	47.7	14,835	38.3
1983	41,337	6.8	15,336	37.1	9,338	22.6	5,997	14.5	19,921	48.2	15,589	37.7
1984	44,998	8.9	16,806	37.3	10,600	23.6	6,206	13.8	21,602	48.0	16,690	37.1
1985	46,998	4.4	17,940	38.2	11,632	24.8	6,308	13.4	22,580	48.0	17,360	36.9
1986	50,524	7.5	18,887	37.4	12,336	24.4	6,552	13.0	25,181	49.8	19,211	38.0
1987	55,197	9.2	19,778	35.8	12,006	21.8	7,772	14.1	28,372	51.4	21,767	39.4
1988	61,033	10.6	20,565	33.7	11,527	18.9	9,039	14.8	32,511	53.3	25,083	41.1
1989	65,875	7.9	20,116	30.5	10,057	15.3	10,059	15.3	36,967	56.1	29,106	44.2
1990	74,701	13.4	19,454	26.0	8,792	11.8	10,662	14.3	45,252	60.6	34,991	46.8
1991	83,336	11.6	19,447	23.3	7,119	8.5	12,328	14.8	52,675	63.2	39,266	47.1
1992	94,403	13.3	18,469	19.6	5,363	5.7	13,105	13.9	62,939	66.7	44,139	46.8
1993	103,850	10.0	18,860	18.2	3,981	3.8	14,879	14.3	69,876	67.3	49,369	47.5
1994	111,787	7.6	17,423	15.6	2,401	2.1	15,022	13.4	76,339	68.3	53,637	48.0
1995	121,400	8.6	17,327	14.3	1,702	1.4	15,625	12.9	82,747	68.2	58,898	48.5
1996	131,573	8.4	18,406	14.0	1,385	1.1	17,021	12.9	88,566	67.3	63,046	47.9
1997	144,541	9.9	18,891	13.1	1,072	0.7	17,819	12.3	98,036	67.8	63,564	44.0
1998	132,177	-8.6	17,993	13.6	1,111	0.8	16,882	12.8	86,712	65.6	50,159	37.9
1999	143,027	8.2	18,325	12.8	1,271	0.9	17,055	11.9	92,928	65.0	54,817	38.3
2000	149,958	4.8	19,661	13.1	1,813	1.2	17,848	11.9	93,839	62.6	53,275	35.5
2001	153,103	2.1	20,357	13.3	2,470	1.6	17,887	11.7	93,617	61.1	52,021	34.0
2002	160,876	5.1	21,485	13.4	2,919	1.8	18,566	11.5	96,635	60.1	52,366	32.6
2003	164,550	2.3	22,428	13.6	3,342	2.0	19,086	11.6	96,669	58.7	51,292	31.2
2004	166,452	1.2	22,100	13.3	3,309	2.0	18,791	11.3	95,942	57.6	48,739	29.3
2005	171,543	3.1	22,154	12.9	3,711	2.2	18,443	10.8	97,076	56.6	48,430	28.2
2006	174,873	1.9	22,461	12.8	4,112	2.4	18,349	10.5	97,665	55.8	46,990	26.9
2007	182,015	4.1	24,056	13.2	4,385	2.4	19,671	10.8	100,720	55.3	45,816	25.2
2008	183,054	0.6	25,879	14.1	4,636	2.5	21,243	11.6	97,316	53.2	42,833	23.4
2009	182,080	-0.5	23,015	12.6	4,183	2.3	18,832	10.3	98,516	54.1	41,812	23.0
2010	195,401	7.3	28,189	14.4	4,629	2.4	23,560	12.1	100,519	51.4	42,913	22.0
2011	205,239	5.0	32,860	16.0	5,844	2.8	27,017	13.2	102,294	49.8	41,766	20.3
2012	206,968	0.8	31,017	15.0	4,511	2.2	26,507	12.8	101,683	49.1	40,279	19.5
2013	208,362	0.7	31,603	15.2	4,649	2.2	26,954	12.9	101,522	48.7	39,424	18.9
2014	210,448	1.0	35,198	16.7	4,212	2.0	30,985	14.7	102,664	48.8	39,423	18.7
2015	215,389	2.3	34,849	16.2	4,539	2.1	30,310	14.1	106,854	49.6	42,488	19.7
2016	221,936	3.0	32,342	14.6	4,431	2.0	27,911	12.6	114,264	51.5	45,372	20.4
2017	231,023	4.1	33,360	14.4	3,986	1.7	29,374	12.7	118,289	51.2	46,364	20.1
2018	233,368	1.2	32,480	13.9	4,565	2.0	27,915	12.0	116,831	50.1	45,496	19.5
2019	231,353	-0.9	32,057	13.9	3,850	1.7	28,207	12.2	116,125	50.2	44,847	19.4
2020	222,563	-3.8	30,457	13.7	3,459	1.6	26,998	12.1	109,344	49.1	41,334	18.6

1. 기타: 폐기물을 이용하여 제조한 것

주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

## 8. Final Energy Consumption(Calorific Unit)

Unit: Thousand toe

석유 Petroleum				액화천연가스 LNG		도시가스 City Gas		전력 Electricity		열에너지 Heat		신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>		
액화석유가스		비에너지유			%		%		%		%		%	
LPG	%	Non-Energy Use	%											
500	1.3	2,942	7.6	-	-	23	0.1	3,046	7.8	-	-	2,492	6.4	1981
735	1.9	2,890	7.5	-	-	28	0.1	3,258	8.4	-	-	2,417	6.2	1982
1,010	2.4	3,322	8.0	-	-	37	0.1	3,665	8.9	-	-	2,378	5.8	1983
1,242	2.8	3,670	8.2	-	-	52	0.1	4,046	9.0	-	-	2,492	5.5	1984
1,424	3.0	3,795	8.1	-	-	84	0.2	4,363	9.3	-	-	2,031	4.3	1985
1,736	3.4	4,235	8.4	-	-	132	0.3	4,843	9.6	-	-	1,480	2.9	1986
2,110	3.8	4,495	8.1	-	-	199	0.4	5,519	10.0	10	0.0	1,319	2.4	1987
2,561	4.2	4,866	8.0	-	-	339	0.6	6,391	10.5	63	0.1	1,164	1.9	1988
2,947	4.5	4,914	7.5	-	-	619	0.9	7,069	10.7	71	0.1	1,033	1.6	1989
3,368	4.5	6,893	9.2	-	-	1,011	1.4	8,111	10.9	75	0.1	797	1.1	1990
3,894	4.7	9,515	11.4	-	-	1,540	1.8	8,976	10.8	80	0.1	618	0.7	1991
4,812	5.1	13,988	14.8	-	-	2,219	2.4	9,911	10.5	143	0.2	722	0.8	1992
5,141	5.0	15,366	14.8	-	-	3,027	2.9	10,985	10.6	360	0.3	742	0.7	1993
5,414	4.8	17,289	15.5	-	-	4,057	3.6	12,602	11.3	460	0.4	906	0.8	1994
5,493	4.5	18,356	15.1	-	-	5,593	4.6	14,041	11.6	641	0.5	1,050	0.9	1995
5,733	4.4	19,787	15.0	-	-	6,937	5.3	15,692	11.9	811	0.6	1,161	0.9	1996
6,442	4.5	28,030	19.4	-	-	8,093	5.6	17,267	11.9	909	0.6	1,344	0.9	1997
6,472	4.9	30,081	22.8	-	-	8,425	6.4	16,638	12.6	882	0.7	1,526	1.2	1998
7,371	5.2	30,741	21.5	-	-	10,513	7.4	18,422	12.9	1,033	0.7	1,806	1.3	1999
8,333	5.6	32,231	21.5	0	0.0	12,561	8.4	20,600	13.7	1,167	0.8	2,130	1.4	2000
8,493	5.5	33,102	21.6	-	-	13,290	8.7	22,165	14.5	1,218	0.8	2,456	1.6	2001
9,235	5.7	35,034	21.8	-	-	14,567	9.1	23,947	14.9	1,316	0.8	2,925	1.8	2002
9,050	5.5	36,327	22.1	-	-	15,470	9.4	25,250	15.3	1,523	0.9	3,210	2.0	2003
9,099	5.5	38,104	22.9	-	-	16,193	9.7	26,840	16.1	1,449	0.9	3,928	2.4	2004
9,348	5.4	39,298	22.9	366	0.2	17,811	10.4	28,588	16.7	1,652	1.0	3,896	2.3	2005
9,608	5.5	41,067	23.5	738	0.4	18,379	10.5	29,990	17.1	1,549	0.9	4,092	2.3	2006
10,052	5.5	44,851	24.6	518	0.3	18,955	10.4	31,700	17.4	1,576	0.9	4,491	2.5	2007
10,432	5.7	44,050	24.1	564	0.3	19,765	10.8	33,116	18.1	1,668	0.9	4,747	2.6	2008
10,840	6.0	45,864	25.2	589	0.3	19,459	10.7	33,925	18.6	1,709	0.9	4,867	2.7	2009
10,448	5.3	47,158	24.1	989	0.5	21,081	10.8	37,338	19.1	1,939	1.0	5,346	2.7	2010
9,670	4.7	50,858	24.8	1,252	0.6	22,871	11.1	39,136	19.1	1,976	1.0	4,850	2.4	2011
9,194	4.4	52,209	25.2	1,156	0.6	24,728	11.9	40,127	19.4	2,102	1.0	6,156	3.0	2012
9,536	4.6	52,563	25.2	813	0.4	24,878	11.9	40,837	19.6	2,070	1.0	6,639	3.2	2013
9,271	4.4	53,971	25.6	769	0.4	23,041	10.9	41,073	19.5	1,528	0.7	6,175	2.9	2014
9,214	4.3	55,151	25.6	851	0.4	21,678	10.1	41,594	19.3	1,967	0.9	7,595	3.5	2015
11,059	5.0	57,833	26.1	1,044	0.5	22,186	10.0	42,745	19.3	2,183	1.0	7,173	3.2	2016
10,579	4.6	61,346	26.6	1,370	0.6	23,258	10.1	43,666	18.9	2,441	1.1	8,638	3.7	2017
10,945	4.7	60,389	25.9	2,038	0.9	24,979	10.7	45,249	19.4	2,682	1.1	9,110	3.9	2018
12,188	5.3	59,091	25.5	2,909	1.3	23,943	10.3	44,763	19.3	2,647	1.1	8,910	3.9	2019
12,069	5.4	55,941	25.1	3,602	1.6	23,100	10.4	43,797	19.7	2,770	1.2	9,493	4.3	2020

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

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

## 9. 부문별 최종에너지 소비

단위: 천 toe

	1990	1995	2000	2005	2010	2011	2012	2013
산업	36,144	62,707	84,237	95,578	116,590	125,332	126,368	128,920
석유제품	20,014	36,843	48,522	51,746	57,576	59,977	60,073	60,369
무연탄	144	348	1,277	2,799	3,729	4,973	3,679	3,776
유연탄	10,662	15,625	17,848	18,443	23,560	27,017	26,507	26,954
전력	5,089	8,293	11,374	14,346	19,193	20,830	21,426	22,088
액화천연가스	-	-	0	366	989	1,252	1,156	813
도시가스	235	863	3,308	4,656	7,329	8,383	9,501	9,903
신재생 및 기타 <sup>1</sup>	-	736	1,908	3,222	4,215	2,900	4,028	5,017
가정·상업	21,572	29,131	32,153	36,336	37,425	38,265	38,603	37,765
석유제품	8,876	17,472	13,407	8,955	6,397	5,937	5,371	4,999
무연탄	8,627	1,355	536	912	901	871	832	872
전력	2,421	4,801	7,891	12,233	15,636	15,758	16,049	16,077
도시가스	777	4,606	9,024	12,503	12,489	13,201	13,797	13,578
열에너지	75	632	1,146	1,609	1,898	1,932	2,055	2,023
신재생 및 기타 <sup>1</sup>	797	265	148	123	105	565	498	215
수송	14,173	27,146	30,945	35,534	36,903	36,842	36,783	36,961
석유제품	14,086	27,008	30,770	34,958	35,246	35,139	34,982	34,928
도시가스	-	-	-	339	1,112	1,174	1,248	1,299
전력	87	138	175	224	188	193	194	186
신재생 및 기타 <sup>1</sup>	-	-	-	13	357	336	360	548
공공	2,812	2,415	2,623	4,095	4,482	4,800	5,214	4,716
석유제품	2,276	1,424	1,140	1,417	1,299	1,241	1,258	1,227
무연탄	21	-	-	-	-	-	-	-
전력	514	808	1,160	1,785	2,321	2,355	2,459	2,485
도시가스	-	125	229	313	152	112	181	98
열에너지	1	10	20	42	41	44	47	46
신재생 및 기타 <sup>1</sup>	-	49	74	538	669	1,048	1,270	859
<b>최종에너지</b>	<b>74,701</b>	<b>121,400</b>	<b>149,958</b>	<b>171,543</b>	<b>195,401</b>	<b>205,239</b>	<b>206,968</b>	<b>208,362</b>

1. 기타: 폐기물을 이용하여 제조한 것

## 9. Final Energy Consumption by Sector

Unit: Thousand toe

2014	2015	2016	2017	2018	2019	2020	
132,897	133,416	135,698	142,519	143,498	142,903	137,964	Industry
61,343	62,156	66,820	69,871	69,294	69,216	66,483	Petroleum
3,467	3,867	3,860	3,473	4,133	3,544	3,217	Anthracite
30,985	30,310	27,911	29,374	27,915	28,207	26,998	Bituminous
22,757	22,844	23,218	23,794	24,399	24,060	23,108	Electricity
769	851	1,044	1,370	2,038	2,909	3,602	LNG
9,050	7,644	7,537	8,010	9,028	8,540	7,813	City Gas
4,526	5,743	5,309	6,627	6,691	6,426	6,743	Renewables & Others <sup>1</sup>
35,627	37,021	38,721	39,860	41,334	40,056	39,912	Residential & Commercial
4,707	5,320	5,684	5,693	5,325	4,824	4,354	Petroleum
745	672	571	513	432	306	242	Anthracite
15,706	16,020	16,650	16,932	17,801	17,666	17,727	Electricity
12,599	12,661	13,292	13,918	14,614	14,109	14,119	City Gas
1,501	1,931	2,133	2,386	2,621	2,572	2,703	Heat
368	417	391	417	540	579	767	Renewables & Others <sup>1</sup>
37,241	39,851	42,271	43,183	42,969	42,996	39,436	Transport
35,308	37,928	40,328	41,255	40,782	40,809	37,376	Petroleum
1,307	1,288	1,270	1,253	1,238	1,216	1,099	City Gas
172	191	231	246	265	271	271	Electricity
454	445	443	428	683	700	690	Renewables & Others <sup>1</sup>
4,683	5,101	5,246	5,461	5,567	5,399	5,251	Public
1,306	1,450	1,432	1,470	1,429	1,276	1,130	Petroleum
-	-	-	-	-	-	-	Anthracite
2,438	2,540	2,646	2,694	2,784	2,766	2,692	Electricity
85	85	88	77	99	78	70	City Gas
27	36	50	55	61	74	66	Heat
827	990	1,030	1,166	1,195	1,205	1,292	Renewables & Others <sup>1</sup>
<b>210,448</b>	<b>215,389</b>	<b>221,936</b>	<b>231,023</b>	<b>233,368</b>	<b>231,353</b>	<b>222,563</b>	<b>Total</b>

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

## 10. 산업별 에너지투입액(2015)

단위: 백만원

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

주: 2015년 기준

자료: 한국은행

## 10. Amount of Energy Input by Industry(2015)

Unit: Million Won

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

Note: Based on 2015.  
Source: Bank of Korea

### 11. 에너지밸런스(1990)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	17,217	-	-	-	6,361	52,887	-	-	797	23,357
수입	23,916	405,743	2,291	-	-	-	-	-	-	76,040
(석유생산)	-	304,496	-	-	-	-	-	-	-	43,942
(석유수입)	-	101,248	-	-	-	-	-	-	-	13,403
수출	-	-27,184	-	-	-	-	-	-	-	-3,997
국제병커링	-	-15,115	-	-	-	-	-	-	-	-2,280
재고증감	2,035	-5,126	38	-	-	-	-	-	-	365
연초재고	10,048	14,450	84	-	-	-	-	-	-	6,939
연말재고	-8,013	-19,576	-46	-	-	-	-	-	-	-6,574
통계오차	-199	-1,980	-	-	-	-	-	-	-	-553
1차에너지 공급	42,970	356,339	2,329	-	6,361	52,887	-	-	797	92,931
에너지전환	-7,707	-32,367	-2,329	963	-6,361	-52,887	94,313	75	-	-18,230
발전	-7,707	-29,721	-1,741	-	-6,361	-52,887	107,670	79	-	-17,062
지역난방	-	0	-	-	-	-	-	0	-	0
가스제조	-	-2,646	-576	968	-	-	-	-	-	5
자가소비 및 손실	-	-	-12	-5	-	-	-13,357	-4	-	-1,174
최종에너지 소비	35,263	323,972	-	963	-	-	94,313	75	797	74,701
산업부문	16,438	139,263	-	223	-	-	59,177	-	-	36,144
농림어업	-	11,603	-	-	-	-	1,458	-	-	1,813
광업	-	787	-	-	-	-	1,011	-	-	205
제조업	16,438	118,082	-	-	-	-	56,709	-	-	32,535
음식·담배	23	6,895	-	-	-	-	3,469	-	-	1,378
섬유·의복	92	10,291	-	-	-	-	9,505	-	-	2,491
목재·나무	-	461	-	-	-	-	623	-	-	126
펄프·인쇄	88	5,395	-	-	-	-	3,877	-	-	1,238
석유·화학	173	65,975	-	-	-	-	10,922	-	-	9,953
비금속	4,116	8,150	-	-	-	-	5,633	-	-	4,417
1차금속	11,810	6,174	-	-	-	-	10,064	-	-	9,597
비철금속	-	1,306	-	-	-	-	-	-	-	187
조립금속	-	5,845	-	-	-	-	12,091	-	-	1,906
기타제조	136	7,449	-	-	-	-	525	-	-	1,221
기타에너지	-	140	-	-	-	-	-	-	-	21
건설업	-	8,791	-	-	-	-	-	-	-	1,356
수송부문	-	101,145	-	-	-	-	1,012	-	-	14,173
철도운수	-	2,082	-	-	-	-	1,012	-	-	392
육상운수	-	81,709	-	-	-	-	-	-	-	11,205
수상운수	-	10,833	-	-	-	-	-	-	-	1,669
항공운수	-	6,521	-	-	-	-	-	-	-	908
가정부문	18,779	40,613	-	433	-	-	17,735	68	731	16,366
상업부문	-	26,888	-	307	-	-	10,413	6	66	5,206
공공부문	46	16,064	-	-	-	-	5,975	1	-	2,812

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



## 11. Energy Balance(1990)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
7,748	-	-	-	1,590	13,222	-	-	797	23,357	Domestic Production
15,721	57,345	2,974	-	-	-	-	-	-	76,040	Imports
-	43,942	-	-	-	-	-	-	-	43,942	(Petroleum Products)
-	13,403	-	-	-	-	-	-	-	13,403	(Petroleum Imports)
-	-3,997	-	-	-	-	-	-	-	-3,997	Exports
-	-2,280	-	-	-	-	-	-	-	-2,280	Int'l Bunkers
948	- 633	49	-	-	-	-	-	-	365	Stock Change(+/-)
4,779	2,051	109	-	-	-	-	-	-	6,939	Former Stock
-3,831	-2,683	-60	-	-	-	-	-	-	-6,574	Ending Stock
- 292	-261	-	-	-	-	-	-	-	-553	Statistical Difference
24,124	50,175	3,023	-	1,590	13,222	-	-	797	92,931	Primary Supply
-4,670	-4,923	-3,023	1,011	-1,590	-13,222	8,111	75	-	-18,230	Transformation
-4,670	-4,658	-2,260	-	-1,590	-13,222	9,260	79	-	-17,062	Electric Generation
-	0	-	-	-	-	-	0	-	0	District Heating
-	-265	-747	1,017	-	-	-	-	-	5	Gas Manufacturing
-	-	-16	-5	-	-	-1,149	-4	-	-1,174	Own Use & Loss
19,454	45,252	-	1,011	-	-	8,111	75	797	74,701	Final Consumption
10,806	20,014	-	235	-	-	5,089	-	-	36,144	Industry
-	1,687	-	-	-	-	125	-	-	1,813	Agri. Fishery
-	119	-	-	-	-	87	-	-	205	Mining
10,806	16,852	-	-	-	-	4,877	-	-	32,535	Manufacturing
15	1,064	-	-	-	-	298	-	-	1,378	Food Tobacco
61	1,612	-	-	-	-	817	-	-	2,491	Textile & Apparel
-	72	-	-	-	-	54	-	-	126	Wood & Wood Pro.
58	847	-	-	-	-	333	-	-	1,238	Pulp & Publications
114	8,900	-	-	-	-	939	-	-	9,953	Petro. Chemical
2,698	1,234	-	-	-	-	484	-	-	4,417	Non-Metallic
7,780	952	-	-	-	-	865	-	-	9,597	Iron & Steel
-	187	-	-	-	-	-	-	-	187	Non-ferrous
-	866	-	-	-	-	1,040	-	-	1,906	Fabricated Metal
80	1,096	-	-	-	-	45	-	-	1,221	Other Manufacturing
-	21	-	-	-	-	-	-	-	21	Other Energy
-	1,356	-	-	-	-	-	-	-	1,356	Construction
-	14,086	-	-	-	-	87	-	-	14,173	Transport
-	305	-	-	-	-	87	-	-	392	Rail
-	11,205	-	-	-	-	-	-	-	11,205	Land
-	1,669	-	-	-	-	-	-	-	1,669	Water
-	908	-	-	-	-	-	-	-	908	Air
8,627	4,960	-	455	-	-	1,525	68	731	16,366	Residential
-	3,916	-	322	-	-	896	6	66	5,206	Commercial
21	2,276	-	-	-	-	514	1	-	2,812	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(1991)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	15,058	-	-	-	5,051	56,311	-	-	618	22,734
수입	29,427	518,257	2,758	-	-	-	-	-	-	96,612
(석유생산)	-	408,215	-	-	-	-	-	-	-	59,202
(석유수입)	-	110,041	-	-	-	-	-	-	-	14,487
수출	-	-69,744	-	-	-	-	-	-	-	-10,418
국제병커링	-	-20,714	-	-	-	-	-	-	-	-3,149
재고증감	-259	-681	-64	-	-	-	-	-	-	-356
연초재고	8,013	19,576	46	-	-	-	-	-	-	6,574
연말재고	-8,272	-20,257	-110	-	-	-	-	-	-	-6,930
통계오차	-2,391	-2,451	0	-	-	-	-	-	-	-2,159
1차에너지 공급	41,835	424,667	2,694	-	5,051	56,311	-	-	618	103,294
에너지전환	-7,847	-46,079	-2,694	1,467	-5,051	-56,311	104,374	80	-	-19,954
발전	-7,847	-41,424	-1,800	-	-5,051	-56,311	118,619	80	-	-18,655
지역난방	-	-28	-	-	-	-	-	3	-	-1
가스제조	-	-4,626	-879	1,450	-	-	-	-	-	-71
자가소비 및 손실	-	-	-15	17	-	-	-14,244	-4	-	-1,230
최종에너지 소비	33,988	378,588	-	1,467	-	-	104,374	80	618	83,336
산업부문	19,002	170,654	-	298	-	-	65,183	-	-	42,701
농림어업	-	12,716	-	0	-	-	1,778	-	-	2,002
광업	-	809	-	-	-	-	1,005	-	-	208
제조업	19,002	146,508	-	298	-	-	62,400	-	-	38,842
음식·담배	15	7,016	-	14	-	-	3,785	-	-	1,434
섬유·의복	45	10,011	-	16	-	-	9,906	-	-	2,466
목재·나무	-	504	-	0	-	-	687	-	-	168
펄프·인쇄	-	5,959	-	3	-	-	4,231	-	-	1,302
석유·화학	220	89,200	-	16	-	-	12,828	-	-	13,205
비금속	4,833	9,011	-	47	-	-	6,544	-	-	5,140
1차금속	13,621	6,833	-	81	-	-	10,440	-	-	11,016
비철금속	5	1,323	-	-	-	-	-	-	-	190
조립금속	-	6,649	-	108	-	-	13,391	-	-	2,249
기타제조	263	9,819	-	12	-	-	589	-	-	1,643
기타에너지	-	182	-	-	-	-	-	-	-	28
건설업	-	10,621	-	-	-	-	-	-	-	1,649
수송부문	-	115,144	-	-	-	-	1,091	-	-	16,156
철도운수	-	2,118	-	-	-	-	1,091	-	-	404
육상운수	-	93,561	-	-	-	-	-	-	-	12,855
수상운수	-	12,604	-	-	-	-	-	-	-	1,947
항공운수	-	6,861	-	-	-	-	-	-	-	950
가정부문	14,986	49,219	-	771	-	-	19,482	72	538	16,091
상업부문	-	28,100	-	333	-	-	12,289	7	80	5,574
공공부문	-	15,473	-	64	-	-	6,329	1	-	2,813

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(1991)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
6,776	-	-	-	1,263	14,078	-	-	618	22,734	Domestic Production
19,337	73,689	3,586	-	-	-	-	-	-	96,612	Imports
-	59,202	-	-	-	-	-	-	-	59,202	(Petroleum Products)
-	14,487	-	-	-	-	-	-	-	14,487	(Petroleum Imports)
-	-10,418	-	-	-	-	-	-	-	-10,418	Exports
-	-3,149	-	-	-	-	-	-	-	-3,149	Int'l Bunkers
- 104	- 170	-83	-	-	-	-	-	-	-356	Stock Change(+/-)
3,831	2,683	60	-	-	-	-	-	-	6,574	Former Stock
-3,934	-2,853	-143	-	-	-	-	-	-	-6,930	Ending Stock
- 1,833	-326	0	-	-	-	-	-	-	-2,159	Statistical Difference
24,206	59,627	3,503	-	1,263	14,078	-	-	618	103,294	Primary Supply
-4,759	-6,948	-3,503	1,540	-1,263	-14,078	8,976	80	-	-19,954	Transformation
-4,759	-6,498	-2,340	-	-1,263	-14,078	10,201	80	-	-18,655	Electric Generation
-	-4	-	-	-	-	-	3	-	-1	District Heating
-	-450	-1,143	1,522	-	-	-	-	-	-71	Gas Manufacturing
-	-	-20	18	-	-	-1,225	-4	-	-1,230	Own Use & Loss
19,447	52,675	-	1,540	-	-	8,976	80	618	83,336	Final Consumption
12,532	24,251	-	313	-	-	5,606	-	-	42,701	Industry
-	1,849	-	0	-	-	153	-	-	2,002	Agri. Fishery
-	121	-	-	-	-	86	-	-	208	Mining
12,532	20,631	-	313	-	-	5,366	-	-	38,842	Manufacturing
10	1,084	-	14	-	-	325	-	-	1,434	Food Tobacco
30	1,567	-	17	-	-	852	-	-	2,466	Textile & Apparel
30	79	-	0	-	-	59	-	-	168	Wood & Wood Pro.
-	935	-	3	-	-	364	-	-	1,302	Pulp & Publications
145	11,940	-	17	-	-	1,103	-	-	13,205	Petro. Chemical
3,178	1,350	-	50	-	-	563	-	-	5,140	Non-Metallic
8,980	1,053	-	86	-	-	898	-	-	11,016	Iron & Steel
3	187	-	-	-	-	-	-	-	190	Non-ferrous
-	984	-	114	-	-	1,152	-	-	2,249	Fabricated Metal
156	1,423	-	13	-	-	51	-	-	1,643	Other Manufacturing
-	28	-	-	-	-	-	-	-	28	Other Energy
-	1,649	-	-	-	-	-	-	-	1,649	Construction
-	16,062	-	-	-	-	94	-	-	16,156	Transport
-	310	-	-	-	-	94	-	-	404	Rail
-	12,855	-	-	-	-	-	-	-	12,855	Land
-	1,947	-	-	-	-	-	-	-	1,947	Water
-	950	-	-	-	-	-	-	-	950	Air
6,916	6,081	-	810	-	-	1,675	72	538	16,091	Residential
-	4,080	-	350	-	-	1,057	7	80	5,574	Commercial
-	2,201	-	68	-	-	544	1	-	2,813	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(1992)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	11,969	-	-	-	4,863	56,530	-	-	722	21,456
수입	30,016	641,571	3,425	-	-	-	-	-	-	114,946
(석유생산)	-	504,560	-	-	-	-	-	-	-	73,147
(석유수입)	-	137,011	-	-	-	-	-	-	-	17,585
수출	-	-91,653	-	-	-	-	-	-	-	-13,769
국제병커링	-	-26,099	-	-	-	-	-	-	-	-3,976
재고증감	547	-5,445	43	-	-	-	-	-	-	-345
연초재고	8,272	25,385	110	-	-	-	-	-	-	7,695
연말재고	-7,725	-30,829	-67	-	-	-	-	-	-	-8,040
통계오차	-2,800	-4,151	55	-	-	-	-	-	-	-2,351
1차에너지 공급	39,731	514,224	3,524	-	4,863	56,530	-	-	722	115,962
에너지전환	-8,330	-58,695	-3,524	2,114	-4,863	-56,530	115,244	143	-	-21,559
발전	-8,330	-51,828	-2,225	-	-4,863	-56,530	130,963	121	-	-20,071
지역난방	-	-317	-	-	-	-	-	42	-	-8
가스제조	-	-6,550	-1,256	2,139	-	-	-	-	-	-25
자가소비 및 손실	-	-	-43	-25	-	-	-15,719	-20	-	-1,455
최종에너지 소비	31,401	455,529	-	2,114	-	-	115,244	143	722	94,403
산업부문	20,332	218,372	-	359	-	-	70,505	-	482	50,818
농림어업	-	14,471	-	0	-	-	2,157	-	-	2,286
광업	-	753	-	-	-	-	923	-	-	193
제조업	20,332	190,080	-	359	-	-	67,426	-	482	46,293
음식·담배	37	7,555	-	15	-	-	4,036	-	-	1,556
섬유·의복	114	9,219	-	19	-	-	10,410	-	-	2,434
목재·나무	-	494	-	0	-	-	754	-	-	142
펄프·인쇄	9	6,833	-	4	-	-	4,662	-	-	1,485
석유·화학	198	129,055	-	24	-	-	14,470	-	-	18,360
비금속	5,225	10,187	-	57	-	-	7,160	-	-	5,644
1차금속	14,602	8,409	-	98	-	-	10,767	-	-	11,949
비철금속	8	941	-	-	-	-	-	-	-	142
조립금속	-	7,072	-	123	-	-	14,442	-	-	2,419
기타제조	139	10,067	-	19	-	-	726	-	482	2,124
기타에너지	-	248	-	-	-	-	-	-	-	37
건설업	-	13,067	-	-	-	-	-	-	-	2,047
수송부문	-	132,198	-	-	-	-	1,175	-	-	18,531
철도운수	-	2,155	-	-	-	-	1,175	-	-	417
육상운수	-	106,719	-	-	-	-	-	-	-	14,644
수상운수	-	14,785	-	-	-	-	-	-	-	2,288
항공운수	-	8,539	-	-	-	-	-	-	-	1,182
가정부문	11,069	60,682	-	1,251	-	-	21,796	134	210	16,227
상업부문	-	33,238	-	425	-	-	15,114	7	29	6,581
공공부문	-	11,040	-	78	-	-	6,654	1	1	2,247

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(1992)

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
5,386	-	-	-	1,216	14,133	-	-	722	21,456	Domestic Production
19,762	90,732	4,453	-	-	-	-	-	-	114,946	Imports
-	73,147	-	-	-	-	-	-	-	73,147	(Petroleum Products)
-	17,585	-	-	-	-	-	-	-	17,585	(Petroleum Imports)
-	-13,769	-	-	-	-	-	-	-	-13,769	Exports
-	-3,976	-	-	-	-	-	-	-	-3,976	Int'l Bunkers
305	-706	56	-	-	-	-	-	-	-345	Stock Change(+/-)
3,934	3,618	143	-	-	-	-	-	-	7,695	Former Stock
-3,629	-4,324	-87	-	-	-	-	-	-	-8,040	Ending Stock
-1,883	-541	72	-	-	-	-	-	-	-2,351	Statistical Difference
23,570	71,740	4,581	-	1,216	14,133	-	-	722	115,962	Primary Supply
-5,102	-8,800	-4,581	2,219	-1,216	-14,133	9,911	143	-	-21,559	Transformation
-5,102	-8,113	-2,892	-	-1,216	-14,133	11,263	121	-	-20,071	Electric Generation
-	-50	-	-	-	-	-	42	-	-8	District Heating
-	-638	-1,633	2,246	-	-	-	-	-	-25	Gas Manufacturing
-	-	-56	-27	-	-	-1,352	-20	-	-1,455	Own Use & Loss
18,469	62,939	-	2,219	-	-	9,911	143	722	94,403	Final Consumption
13,381	30,514	-	377	-	-	6,063	-	482	50,818	Industry
-	2,101	-	0	-	-	185	-	-	2,286	Agri. Fishery
-	113	-	-	-	-	79	-	-	193	Mining
13,381	26,254	-	377	-	-	5,799	-	482	46,293	Manufacturing
24	1,169	-	15	-	-	347	-	-	1,556	Food Tobacco
75	1,443	-	20	-	-	895	-	-	2,434	Textile & Apparel
-	78	-	0	-	-	65	-	-	142	Wood & Wood Pro.
6	1,073	-	5	-	-	401	-	-	1,485	Pulp & Publications
131	16,960	-	25	-	-	1,244	-	-	18,360	Petro. Chemical
3,442	1,526	-	60	-	-	616	-	-	5,644	Non-Metallic
9,615	1,305	-	103	-	-	926	-	-	11,949	Iron & Steel
5	137	-	-	-	-	-	-	-	142	Non-ferrous
-	1,048	-	130	-	-	1,242	-	-	2,419	Fabricated Metal
82	1,477	-	20	-	-	62	-	482	2,124	Other Manufacturing
-	37	-	-	-	-	-	-	-	37	Other Energy
-	2,047	-	-	-	-	-	-	-	2,047	Construction
-	18,430	-	-	-	-	101	-	-	18,531	Transport
-	316	-	-	-	-	101	-	-	417	Rail
-	14,644	-	-	-	-	-	-	-	14,644	Land
-	2,288	-	-	-	-	-	-	-	2,288	Water
-	1,182	-	-	-	-	-	-	-	1,182	Air
5,087	7,607	-	1,314	-	-	1,874	134	210	16,227	Residential
-	4,798	-	446	-	-	1,300	7	29	6,581	Commercial
-	1,590	-	82	-	-	572	1	1	2,247	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(1993)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	9,407	-	-	-	6,006	58,138	-	-	742	21,011
수입	35,636	707,745	4,454	-	-	-	-	-	-	129,051
(석유생산)	-	539,986	-	-	-	-	-	-	-	78,320
(석유수입)	-	167,759	-	-	-	-	-	-	-	21,468
수출	-	-103,493	-	-	-	-	-	-	-	-15,385
국제병커링	-	-30,539	-	-	-	-	-	-	-	-4,678
재고증감	770	-2,679	-29	-	-	-	-	-	-	-22
연초재고	7,725	31,256	68	-	-	-	-	-	-	8,104
연말재고	-6,955	-33,934	-97	-	-	-	-	-	-	-8,126
통계오차	-3,442	-6,459	-22	-	-	-	-	-	-	-3,140
1차에너지 공급	42,371	564,575	4,402	-	6,006	58,138	-	-	742	126,836
에너지전환	-11,283	-58,286	-4,402	2,883	-6,006	-58,138	127,734	360	-	-22,832
발전	-11,283	-48,728	-2,518	-35	-6,006	-58,138	144,437	265	-	-21,130
지역난방	-	-734	-	-35	-	-	-	125	-	-26
가스제조	-	-8,824	-1,847	3,071	-	-	-	-	-	-36
자가소비 및 손실	-	-	-37	-118	-	-	-16,703	-31	-	-1,639
최종에너지 소비	31,088	506,290	-	2,883	-	-	127,734	360	742	103,850
산업부문	23,257	234,365	-	438	-	-	76,525	-	569	55,563
농림어업	-	16,329	-	0	-	-	2,220	-	-	2,560
광업	-	645	-	-	-	-	868	-	-	171
제조업	23,257	204,856	-	438	-	-	73,437	-	569	50,870
음식·담배	43	7,657	-	15	-	-	4,100	-	-	1,584
섬유·의복	133	9,427	-	26	-	-	10,017	-	-	2,453
목재·나무	-	484	-	0	-	-	810	-	-	146
펄프·인쇄	11	7,439	-	7	-	-	5,107	-	-	1,622
석유·화학	233	141,426	-	27	-	-	16,248	-	-	20,156
비금속	6,179	10,499	-	68	-	-	7,936	-	-	6,394
1차금속	16,445	8,949	-	120	-	-	12,596	-	-	13,417
비철금속	-	963	-	-	-	-	-	-	-	140
조립금속	-	8,019	-	152	-	-	15,995	-	-	2,723
기타제조	213	9,680	-	24	-	-	628	-	569	2,192
기타에너지	-	313	-	-	-	-	-	-	-	45
건설업	-	12,535	-	-	-	-	-	-	-	1,962
수송부문	-	150,695	-	-	-	-	1,257	-	-	21,119
철도운수	-	2,277	-	-	-	-	1,257	-	-	441
육상운수	-	120,581	-	-	-	-	-	-	-	16,529
수상운수	-	17,607	-	-	-	-	-	-	-	2,733
항공운수	-	10,230	-	-	-	-	-	-	-	1,416
가정부문	7,831	69,700	-	1,920	-	-	23,916	354	148	16,947
상업부문	-	40,852	-	413	-	-	18,679	2	24	7,924
공공부문	-	10,678	-	112	-	-	7,357	4	1	2,296

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(1993)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
4,233	-	-	-	1,502	14,535	-	-	742	21,011	Domestic Production
23,473	99,788	5,790	-	-	-	-	-	-	129,051	Imports
-	78,320	-	-	-	-	-	-	-	78,320	(Petroleum Products)
-	21,468	-	-	-	-	-	-	-	21,468	(Petroleum Imports)
-	-15,385	-	-	-	-	-	-	-	-15,385	Exports
-	-4,678	-	-	-	-	-	-	-	-4,678	Int'l Bunkers
376	-360	-38	-	-	-	-	-	-	-22	Stock Change(+/-)
3,629	4,386	88	-	-	-	-	-	-	8,104	Former Stock
-3,253	-4,746	-126	-	-	-	-	-	-	-8,126	Ending Stock
-2,242	-869	-29	-	-	-	-	-	-	-3,140	Statistical Difference
25,840	78,495	5,723	-	1,502	14,535	-	-	742	126,836	Primary Supply
-6,825	-8,620	-5,723	3,027	-1,502	-14,535	10,985	360	-	-22,832	Transformation
-6,825	-7,646	-3,273	-37	-1,502	-14,535	12,422	265	-	-21,130	Electric Generation
-	-115	-	-36	-	-	-	125	-	-26	District Heating
-	-858	-2,402	3,224	-	-	-	-	-	-36	Gas Manufacturing
-	-	-48	-124	-	-	-1,436	-31	-	-1,639	Own Use & Loss
18,860	69,876	-	3,027	-	-	10,985	360	742	103,850	Final Consumption
15,299	32,654	-	460	-	-	6,581	-	569	55,563	Industry
-	2,369	-	0	-	-	191	-	-	2,560	Agri. Fishery
-	96	-	-	-	-	75	-	-	171	Mining
15,299	28,227	-	460	-	-	6,316	-	569	50,870	Manufacturing
29	1,186	-	16	-	-	353	-	-	1,584	Food Tobacco
88	1,476	-	27	-	-	861	-	-	2,453	Textile & Apparel
-	76	-	0	-	-	70	-	-	146	Wood & Wood Pro.
7	1,169	-	7	-	-	439	-	-	1,622	Pulp & Publications
154	18,577	-	28	-	-	1,397	-	-	20,156	Petro. Chemical
4,072	1,568	-	71	-	-	682	-	-	6,394	Non-Metallic
10,821	1,386	-	126	-	-	1,083	-	-	13,417	Iron & Steel
-	140	-	-	-	-	-	-	-	140	Non-ferrous
-	1,188	-	159	-	-	1,376	-	-	2,723	Fabricated Metal
128	1,416	-	25	-	-	54	-	569	2,192	Other Manufacturing
-	45	-	-	-	-	-	-	-	45	Other Energy
-	1,962	-	-	-	-	-	-	-	1,962	Construction
-	21,011	-	-	-	-	108	-	-	21,119	Transport
-	333	-	-	-	-	108	-	-	441	Rail
-	16,529	-	-	-	-	-	-	-	16,529	Land
-	2,733	-	-	-	-	-	-	-	2,733	Water
-	1,416	-	-	-	-	-	-	-	1,416	Air
3,561	8,811	-	2,016	-	-	2,057	354	148	16,947	Residential
-	5,858	-	434	-	-	1,606	2	24	7,924	Commercial
-	1,541	-	117	-	-	633	4	1	2,296	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(1994)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	7,398	-	-	-	4,098	58,651	-	-	906	19,922
수입	39,249	759,241	5,928	-	-	-	-	-	-	140,427
(석유생산)	-	568,452	-	-	-	-	-	-	-	82,344
(석유수입)	-	190,790	-	-	-	-	-	-	-	24,514
수출	-	-93,132	-	-	-	-	-	-	-	-13,791
국제병커링	-	-33,304	-	-	-	-	-	-	-	-5,098
재고증감	-814	-2,418	-60	-	-	-	-	-	-	-911
연초재고	6,955	33,934	97	-	-	-	-	-	-	8,127
연말재고	-7,769	-36,352	-157	-	-	-	-	-	-	-9,037
통계오차	-3,414	-8,917	-8	-	-	-	-	-	-	-3,441
1차에너지 공급	42,419	621,471	5,860	-	4,098	58,651	-	-	906	137,108
에너지전환	-14,491	-67,797	-5,860	3,864	-4,098	-58,651	146,540	460	-	-25,321
발전	-14,491	-55,972	-3,215	-37	-4,098	-58,651	164,993	391	-	-23,212
지역난방	-	-1,656	-114	-41	-	-	-	104	-	-349
가스제조	-	-10,170	-2,451	3,917	-	-	-	-	-	-60
자가소비 및 손실	-	-	-80	25	-	-	-18,452	-35	-	-1,700
최종에너지 소비	27,928	553,673	-	3,864	-	-	146,540	460	906	111,787
산업부문	23,244	258,593	-	572	-	-	73,308	-	626	58,741
농림어업	-	18,704	-	0	-	-	2,916	-	-	2,964
광업	-	574	-	0	-	-	885	-	-	161
제조업	23,240	227,024	-	571	-	-	69,506	-	626	53,669
음식·담배	47	8,320	-	19	-	-	4,675	-	-	1,737
섬유·의복	145	9,545	-	42	-	-	11,436	-	-	2,619
목재·나무	-	707	-	1	-	-	687	-	-	171
펄프·인쇄	12	8,269	-	16	-	-	5,890	-	-	1,830
석유·화학	254	158,508	-	34	-	-	642	-	-	21,015
비금속	6,709	11,247	-	81	-	-	17,359	-	-	7,676
1차금속	15,788	10,344	-	161	-	-	8,781	-	-	12,935
비철금속	-	1,260	-	-	-	-	-	-	-	181
조립금속	-	8,178	-	186	-	-	18,906	-	-	3,026
기타제조	285	10,253	-	33	-	-	1,130	-	626	2,421
기타에너지	-	393	-	-	-	-	-	-	-	56
건설업	-	12,291	-	-	-	-	-	-	-	1,948
수송부문	-	170,365	-	-	-	-	1,444	-	-	23,857
철도운수	-	2,205	-	-	-	-	1,444	-	-	447
육상운수	-	136,382	-	-	-	-	-	-	-	18,669
수상운수	-	20,167	-	-	-	-	-	-	-	3,134
항공운수	-	11,610	-	-	-	-	-	-	-	1,606
가정부문	4,684	73,074	-	2,637	-	-	26,553	440	190	17,061
상업부문	-	41,099	-	518	-	-	36,496	14	48	9,667
공공부문	-	10,543	-	136	-	-	8,739	6	42	2,462

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



## 11. Energy Balance(1994)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
3,329	-	-	-	1,025	14,663	-	-	906	19,922	Domestic Production
25,863	106,857	7,707	-	-	-	-	-	-	140,427	Imports
-	82,344	-	-	-	-	-	-	-	82,344	(Petroleum Products)
-	24,514	-	-	-	-	-	-	-	24,514	(Petroleum Imports)
-	-13,791	-	-	-	-	-	-	-	-13,791	Exports
-	-5,098	-	-	-	-	-	-	-	-5,098	Int'l Bunkers
-390	-443	-78	-	-	-	-	-	-	-911	Stock Change(+/-)
3,253	4,747	126	-	-	-	-	-	-	8,127	Former Stock
-3,643	-5,190	-204	-	-	-	-	-	-	-9,037	Ending Stock
-2,269	-1,161	-11	-	-	-	-	-	-	-3,441	Statistical Difference
26,532	86,364	7,618	-	1,025	14,663	-	-	906	137,108	Primary Supply
-9,110	-10,025	-7,618	4,057	-1,025	-14,663	12,602	460	-	-25,321	Transformation
-9,110	-8,777	-4,179	-38	-1,025	-14,663	14,189	391	-	-23,212	Electric Generation
-	-261	-149	-43	-	-	-	104	-	-349	District Heating
-	-987	-3,186	4,113	-	-	-	-	-	-60	Gas Manufacturing
-	-	-104	26	-	-	-1,587	-35	-	-1,700	Own Use & Loss
17,423	76,339	-	4,057	-	-	12,602	460	906	111,787	Final Consumption
15,305	35,906	-	600	-	-	6,304	-	626	58,741	Industry
-	2,713	-	0	-	-	251	-	-	2,964	Agri. Fishery
-	85	-	0	-	-	76	-	-	161	Mining
15,302	31,160	-	600	-	-	5,978	-	626	53,669	Manufacturing
31	1,285	-	20	-	-	402	-	-	1,737	Food Tobacco
96	1,495	-	44	-	-	984	-	-	2,619	Textile & Apparel
-	110	-	1	-	-	59	-	-	171	Wood & Wood Pro.
8	1,299	-	16	-	-	507	-	-	1,830	Pulp & Publications
168	20,757	-	35	-	-	55	-	-	21,015	Petro. Chemical
4,425	1,673	-	85	-	-	1,493	-	-	7,676	Non-Metallic
10,405	1,607	-	169	-	-	755	-	-	12,935	Iron & Steel
-	181	-	-	-	-	-	-	-	181	Non-ferrous
-	1,206	-	195	-	-	1,626	-	-	3,026	Fabricated Metal
173	1,492	-	35	-	-	97	-	626	2,421	Other Manufacturing
-	56	-	-	-	-	-	-	-	56	Other Energy
-	1,948	-	-	-	-	-	-	-	1,948	Construction
-	23,732	-	-	-	-	124	-	-	23,857	Transport
-	323	-	-	-	-	124	-	-	447	Rail
-	18,669	-	-	-	-	-	-	-	18,669	Land
-	3,134	-	-	-	-	-	-	-	3,134	Water
-	1,606	-	-	-	-	-	-	-	1,606	Air
2,118	9,260	-	2,769	-	-	2,284	440	190	17,061	Residential
-	5,923	-	544	-	-	3,139	14	48	9,667	Commercial
-	1,518	-	143	-	-	752	6	42	2,462	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(1995)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	5,720	-	-	-	5,478	67,029	-	-	1,050	21,751
수입	43,324	848,530	7,060	-	-	-	-	-	-	156,749
(석유생산)	-	643,102	-	-	-	-	-	-	-	92,703
(석유수입)	-	205,428	-	-	-	-	-	-	-	26,317
수출	-	-122,630	-	-	-	-	-	-	-	-17,749
국제병커링	-	-37,092	-	-	-	-	-	-	-	-5,671
재고증감	-723	-1,284	27	-	-	-	-	-	-	-509
연초재고	7,769	36,352	130	-	-	-	-	-	-	9,002
연말재고	-8,492	-37,636	-103	-	-	-	-	-	-	-9,511
통계오차	-4,896	-10,337	-	-	-	-	-	-	-	-4,650
1차에너지 공급	43,425	677,187	7,087	-	5,478	67,029	-	-	1,050	149,927
에너지전환	-16,152	-76,956	-7,087	5,327	-5,478	-67,029	163,270	641	-	-28,527
발전	-16,152	-62,201	-3,562	-	-5,478	-67,029	184,661	514	-	-26,253
지역난방	-	-2,059	-	-109	-	-	-	175	-	-263
가스제조	-	-12,696	-3,417	5,383	-	-	-	-	-	-39
자가소비 및 손실	-	-	-108	53	-	-	-21,391	-47	-	-1,972
최종에너지 소비	27,273	600,231	-	5,327	-	-	163,270	641	1,050	121,400
산업부문	24,268	266,039	-	822	-	-	96,436	-	736	62,707
농림어업	-	20,247	-	0	-	-	3,370	-	-	3,225
광업	-	543	-	0	-	-	1,020	-	-	168
제조업	24,268	232,936	-	821	-	-	92,046	-	736	57,363
음식·담배	48	8,935	-	29	-	-	5,079	-	-	1,870
섬유·의복	149	9,877	-	63	-	-	12,286	-	-	2,768
목재·나무	-	567	-	3	-	-	786	-	-	157
펄프·인쇄	12	8,472	-	21	-	-	6,236	-	-	1,894
석유·화학	262	161,910	-	52	-	-	18,904	-	-	23,015
비금속	6,854	10,756	-	103	-	-	9,325	-	-	7,019
1차금속	16,669	10,372	-	199	-	-	16,101	-	-	14,171
비철금속	-	1,569	-	-	-	-	-	-	-	227
조립금속	-	8,621	-	265	-	-	22,117	-	-	3,442
기타제조	274	11,653	-	87	-	-	1,211	-	736	2,769
기타에너지	-	204	-	-	-	-	-	-	-	31
건설업	-	12,314	-	-	-	-	-	-	-	1,951
수송부문	-	193,688	-	-	-	-	1,607	-	-	27,146
철도운수	-	2,228	-	-	-	-	1,607	-	-	464
육상운수	-	154,844	-	-	-	-	-	-	-	21,219
수상운수	-	23,275	-	-	-	-	-	-	-	3,618
항공운수	-	13,342	-	-	-	-	-	-	-	1,845
가정부문	3,005	84,527	-	3,588	-	-	28,303	610	212	19,229
상업부문	-	46,014	-	799	-	-	27,524	22	53	9,902
공공부문	-	9,962	-	119	-	-	9,401	10	49	2,415

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(1995)

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
2,574	-	-	-	1,369	16,757	-	-	1,050	21,751	Domestic Production
28,550	119,020	9,178	-	-	-	-	-	-	156,749	Imports
-	92,703	-	-	-	-	-	-	-	92,703	(Petroleum Products)
-	26,317	-	-	-	-	-	-	-	26,317	(Petroleum Imports)
-	-17,749	-	-	-	-	-	-	-	-17,749	Exports
-	-5,671	-	-	-	-	-	-	-	-5,671	Int'l Bunkers
-339	-205	35	-	-	-	-	-	-	-509	Stock Change(+/-)
3,643	5,190	169	-	-	-	-	-	-	9,002	Former Stock
-3,982	-5,395	-134	-	-	-	-	-	-	-9,511	Ending Stock
-3,290	-1,361	-	-	-	-	-	-	-	-4,650	Statistical Difference
27,495	94,042	9,213	-	1,369	16,757	-	-	1,050	149,927	Primary Supply
-10,168	-11,295	-9,213	5,593	-1,369	-16,757	14,041	641	-	-28,527	Transformation
-10,168	-9,722	-4,631	-	-1,369	-16,757	15,881	514	-	-26,253	Electric Generation
-	-324	-	-114	-	-	-	175	-	-263	District Heating
-	-1,249	-4,442	5,652	-	-	-	-	-	-39	Gas Manufacturing
-	-	-140	55	-	-	-1,840	-47	-	-1,972	Own Use & Loss
17,327	82,747	-	5,593	-	-	14,041	641	1,050	121,400	Final Consumption
15,972	36,843	-	863	-	-	8,293	-	736	62,707	Industry
-	2,934	-	0	-	-	290	-	-	3,225	Agri. Fishery
-	80	-	0	-	-	88	-	-	168	Mining
15,972	31,877	-	862	-	-	7,916	-	736	57,363	Manufacturing
32	1,371	-	31	-	-	437	-	-	1,870	Food Tobacco
98	1,548	-	66	-	-	1,057	-	-	2,768	Textile & Apparel
-	87	-	3	-	-	68	-	-	157	Wood & Wood Pro.
8	1,328	-	22	-	-	536	-	-	1,894	Pulp & Publications
173	21,162	-	54	-	-	1,626	-	-	23,015	Petro. Chemical
4,519	1,590	-	108	-	-	802	-	-	7,019	Non-Metallic
10,978	1,599	-	209	-	-	1,385	-	-	14,171	Iron & Steel
-	227	-	-	-	-	-	-	-	227	Non-ferrous
-	1,262	-	278	-	-	1,902	-	-	3,442	Fabricated Metal
165	1,673	-	92	-	-	104	-	736	2,769	Other Manufacturing
-	31	-	-	-	-	-	-	-	31	Other Energy
-	1,951	-	-	-	-	-	-	-	1,951	Construction
-	27,008	-	-	-	-	138	-	-	27,146	Transport
-	326	-	-	-	-	138	-	-	464	Rail
-	21,219	-	-	-	-	-	-	-	21,219	Land
-	3,618	-	-	-	-	-	-	-	3,618	Water
-	1,845	-	-	-	-	-	-	-	1,845	Air
1,355	10,851	-	3,767	-	-	2,434	610	212	19,229	Residential
-	6,621	-	839	-	-	2,367	22	53	9,902	Commercial
-	1,424	-	125	-	-	808	10	49	2,415	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(1996)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	4,951	-	-	-	5,201	73,924	-	-	1,161	23,170
수입	46,011	939,252	9,595	-	-	-	-	-	-	174,277
(석유생산)	-	724,128	-	-	-	-	-	-	-	104,079
(석유수입)	-	215,124	-	-	-	-	-	-	-	27,411
수출	-	-158,329	-	-	-	-	-	-	-	-22,690
국제병커링	-	-42,080	-	-	-	-	-	-	-	-6,437
재고증감	-445	-4,844	-251	-	-	-	-	-	-	-1,198
연초재고	8,492	37,636	118	-	-	-	-	-	-	9,526
연말재고	-8,937	-42,480	-369	-	-	-	-	-	-	-10,724
통계오차	-396	-12,961	19	-	-	-	-	-	-	-1,986
1차에너지 공급	50,121	721,038	9,363	-	5,201	73,924	-	-	1,161	165,136
에너지전환	-21,526	-77,412	-9,363	6,607	-5,201	-73,924	182,470	811	-	-33,563
발전	-21,526	-63,640	-4,449	-	-5,201	-73,924	205,494	607	-	-30,881
지역난방	-	-1,983	-173	-166	-	-	-	240	-	-471
가스제조	-	-11,789	-4,561	6,739	-	-	-	-	-	3
자가소비 및 손실	-	-	-179	34	-	-	-23,023	-36	-	-2,213
최종에너지 소비	28,595	643,626	-	6,607	-	-	182,470	811	1,161	131,573
산업부문	26,634	281,565	-	1,139	-	-	106,737	-	912	67,751
농림어업	-	22,735	-	0	-	-	3,857	-	-	3,626
광업	-	481	-	1	-	-	1,049	-	-	162
제조업	26,650	244,854	-	1,139	-	-	101,831	-	912	61,830
음식·담배	56	8,929	-	38	-	-	5,489	-	-	1,919
섬유·의복	172	9,375	-	89	-	-	12,846	-	-	2,781
목재·나무	-	603	-	2	-	-	883	-	-	172
펄프·인쇄	14	9,184	-	24	-	-	7,425	-	-	2,111
석유·화학	302	173,439	-	76	-	-	20,942	-	-	24,780
비금속	5,763	10,490	-	112	-	-	9,589	-	-	6,287
1차금속	17,844	9,659	-	269	-	-	18,088	-	-	14,764
비철금속	-	1,100	-	-	-	-	-	-	-	439
조립금속	-	9,406	-	412	-	-	25,268	-	-	3,978
기타제조	2,499	12,412	-	116	-	-	1,301	-	912	4,559
기타에너지	-	258	-	-	-	-	-	-	-	39
건설업	-	13,495	-	-	-	-	-	-	-	2,143
수송부문	-	212,720	-	-	-	-	1,682	-	-	29,789
철도운수	-	2,203	-	-	-	-	1,682	-	-	467
육상운수	-	170,068	-	-	-	-	-	-	-	23,288
수상운수	-	25,894	-	-	-	-	-	-	-	4,020
항공운수	-	14,554	-	-	-	-	-	-	-	2,013
가정부문	1,961	93,866	-	4,300	-	-	30,642	762	182	21,000
상업부문	-	44,801	-	1,022	-	-	32,891	33	10	10,375
공공부문	-	10,674	-	145	-	-	10,517	15	57	2,659

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(1996)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
2,228	-	-	-	1,300	18,481	-	-	1,161	23,170	Domestic Production
30,314	131,489	12,473	-	-	-	-	-	-	174,277	Imports
-	104,079	-	-	-	-	-	-	-	104,079	(Petroleum Products)
-	27,411	-	-	-	-	-	-	-	27,411	(Petroleum Imports)
-	-22,690	-	-	-	-	-	-	-	-22,690	Exports
-	-6,437	-	-	-	-	-	-	-	-6,437	Int'l Bunkers
-196	-677	-326	-	-	-	-	-	-	-1,198	Stock Change(+/-)
3,982	5,390	154	-	-	-	-	-	-	9,526	Former Stock
-4,178	-6,067	-480	-	-	-	-	-	-	-10,724	Ending Stock
-247	-1,763	24	-	-	-	-	-	-	-1,986	Statistical Difference
32,100	99,923	12,172	-	1,300	18,481	-	-	1,161	165,136	Primary Supply
-13,694	-11,356	-12,172	6,937	-1,300	-18,481	15,692	811	-	-33,563	Transformation
-13,694	-9,902	-5,784	-	-1,300	-18,481	17,672	607	-	-30,881	Electric Generation
-	-311	-225	-175	-	-	-	240	-	-471	District Heating
-	-1,143	-5,930	7,076	-	-	-	-	-	3	Gas Manufacturing
-	-	-233	36	-	-	-1,980	-36	-	-2,213	Own Use & Loss
18,406	88,566	-	6,937	-	-	15,692	811	1,161	131,573	Final Consumption
17,523	38,940	-	1,196	-	-	9,179	-	912	67,751	Industry
-	3,294	-	0	-	-	332	-	-	3,626	Agri. Fishery
-	71	-	1	-	-	90	-	-	162	Mining
17,523	33,433	-	1,195	-	-	8,757	-	912	61,821	Manufacturing
37	1,370	-	40	-	-	472	-	-	1,919	Food Tobacco
113	1,469	-	93	-	-	1,105	-	-	2,781	Textile & Apparel
-	93	-	3	-	-	76	-	-	172	Wood & Wood Pro.
9	1,438	-	25	-	-	639	-	-	2,111	Pulp & Publications
199	22,699	-	80	-	-	1,801	-	-	24,780	Petro. Chemical
3,802	1,543	-	118	-	-	825	-	-	6,287	Non-Metallic
11,735	1,468	-	282	-	-	1,556	-	-	15,040	Iron & Steel
-	157	-	-	-	-	-	-	-	157	Non-ferrous
-	1,372	-	432	-	-	2,173	-	-	3,978	Fabricated Metal
1,627	1,783	-	122	-	-	112	-	912	4,556	Other Manufacturing
-	39	-	-	-	-	-	-	-	39	Other Energy
-	2,143	-	-	-	-	-	-	-	2,143	Construction
-	29,644	-	-	-	-	145	-	-	29,789	Transport
-	323	-	-	-	-	145	-	-	467	Rail
-	23,288	-	-	-	-	-	-	-	23,288	Land
-	4,020	-	-	-	-	-	-	-	4,020	Water
-	2,013	-	-	-	-	-	-	-	2,013	Air
883	12,022	-	4,515	-	-	2,635	762	182	21,000	Residential
-	6,429	-	1,073	-	-	2,829	33	10	10,375	Commercial
-	1,530	-	153	-	-	904	15	57	2,659	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(1997)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	4,512	-	-	-	5,404	77,086	-	-	1,344	23,997
수입	50,034	1,097,273	11,629	-	-	-	-	-	-	200,894
(석유생산)	-	911,462	-	-	-	-	-	-	-	129,691
(석유수입)	-	185,811	-	-	-	-	-	-	-	23,106
수출	-	-231,050	-	-	-	-	-	-	-	-33,143
국제병커링	-	-46,130	-	-	-	-	-	-	-	-7,067
재고증감	-783	-5,846	-236	-	-	-	-	-	-	-1,337
연초재고	8,937	42,940	369	-	-	-	-	-	-	10,799
연말재고	-9,720	-48,785	-605	-	-	-	-	-	-	-12,135
통계오차	393	-20,374	-14	-	-	-	-	-	-	-2,286
1차에너지 공급	54,156	793,877	11,379	-	5,404	77,086	-	-	1,344	181,058
에너지전환	-25,016	-75,649	-11,379	7,708	-5,404	-77,086	200,784	909	-	-36,517
발전	-25,016	-65,480	-5,198	-104	-5,404	-77,086	224,445	691	-	-33,742
지역난방	-	-2,328	-179	-82	-	-	-	250	-	-434
가스제조	-	-7,842	-5,770	7,857	-	-	-	-	-	-12
자가소비 및 손실	-	-	-232	37	-	-	-23,661	-32	-	-2,330
최종에너지 소비	29,140	718,228	-	7,708	-	-	200,784	909	1,344	144,541
산업부문	27,751	348,501	-	1,425	-	-	116,383	-	1,123	78,322
농림어업	-	25,193	-	0	-	-	4,176	-	-	4,004
광업	-	391	-	1	-	-	1,000	-	-	145
제조업	27,751	307,791	-	1,423	-	-	111,207	-	1,123	71,774
음식·담배	55	8,211	-	40	-	-	5,711	-	-	1,825
섬유·의복	149	9,478	-	130	-	-	13,310	-	-	2,865
목재·나무	-	599	-	3	-	-	1,007	-	-	182
펄프·인쇄	11	9,212	-	30	-	-	7,953	-	-	2,165
석유·화학	270	237,038	-	109	-	-	23,231	-	-	32,963
비금속	6,598	10,068	-	138	-	-	9,913	-	-	6,824
1차금속	18,726	5,935	-	330	-	-	20,936	-	-	15,358
비철금속	-	985	-	-	-	-	-	-	-	139
조립금속	-	10,789	-	472	-	-	27,770	-	-	4,475
기타제조	1,943	12,223	-	172	-	-	1,377	-	1,123	4,485
기타에너지	-	3,252	-	-	-	-	-	-	-	494
건설업	-	15,125	-	-	-	-	-	-	-	2,400
수송부문	-	219,604	-	-	-	-	1,761	-	-	30,736
철도운수	-	2,196	-	-	-	-	1,761	-	-	473
육상운수	-	172,190	-	-	-	-	-	-	-	23,509
수상운수	-	28,874	-	-	-	-	-	-	-	4,493
항공운수	-	16,344	-	-	-	-	-	-	-	2,261
가정부문	1,389	88,697	-	5,045	-	-	32,515	850	146	20,956
상업부문	-	51,283	-	1,085	-	-	38,301	42	8	11,812
공공부문	-	10,142	-	154	-	-	11,824	17	67	2,715

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(1997)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
2,030	-	-	-	1,351	19,271	-	-	1,344	23,997	Domestic Production
32,979	152,797	15,118	-	-	-	-	-	-	200,894	Imports
-	129,691	-	-	-	-	-	-	-	129,691	(Petroleum Products)
-	23,106	-	-	-	-	-	-	-	23,106	(Petroleum Imports)
-	-33,143	-	-	-	-	-	-	-	-33,143	Exports
-	-7,067	-	-	-	-	-	-	-	-7,067	Int'l Bunkers
-343	-687	-307	-	-	-	-	-	-	-1,337	Stock Change(+/-)
4,178	6,141	480	-	-	-	-	-	-	10,799	Former Stock
-4,520	-6,829	-786	-	-	-	-	-	-	-12,135	Ending Stock
261	-2,528	-19	-	-	-	-	-	-	-2,286	Statistical Difference
34,927	109,372	14,792	-	1,351	19,271	-	-	1,344	181,058	Primary Supply
-16,036	-11,336	-14,792	8,093	-1,351	-19,271	17,267	909	-	-36,517	Transformation
-16,036	-10,210	-6,757	-109	-1,351	-19,271	19,302	691	-	-33,742	Electric Generation
-	-365	-232	-86	-	-	-	250	-	-434	District Heating
-	-761	-7,501	8,250	-	-	-	-	-	-12	Gas Manufacturing
-	-	-302	39	-	-	-2,035	-32	-	-2,330	Own Use & Loss
18,891	98,036	-	8,093	-	-	17,267	909	1,344	144,541	Final Consumption
18,266	47,429	-	1,496	-	-	10,009	-	1,123	78,322	Industry
-	3,644	-	0	-	-	359	-	-	4,004	Agri. Fishery
-	57	-	1	-	-	86	-	-	145	Mining
18,266	41,327	-	1,494	-	-	9,564	-	1,123	71,774	Manufacturing
36	1,256	-	42	-	-	491	-	-	1,825	Food Tobacco
98	1,486	-	136	-	-	1,145	-	-	2,865	Textile & Apparel
-	93	-	3	-	-	87	-	-	182	Wood & Wood Pro.
7	1,442	-	32	-	-	684	-	-	2,165	Pulp & Publications
178	30,673	-	114	-	-	1,998	-	-	32,963	Petro. Chemical
4,353	1,473	-	145	-	-	852	-	-	6,824	Non-Metallic
12,323	889	-	346	-	-	1,800	-	-	15,358	Iron & Steel
-	139	-	-	-	-	-	-	-	139	Non-ferrous
-	1,592	-	495	-	-	2,388	-	-	4,475	Fabricated Metal
1,270	1,792	-	181	-	-	118	-	1,123	4,485	Other Manufacturing
-	494	-	-	-	-	-	-	-	494	Other Energy
-	2,400	-	-	-	-	-	-	-	2,400	Construction
-	30,584	-	-	-	-	151	-	-	30,736	Transport
-	321	-	-	-	-	151	-	-	473	Rail
-	23,509	-	-	-	-	-	-	-	23,509	Land
-	4,493	-	-	-	-	-	-	-	4,493	Water
-	2,261	-	-	-	-	-	-	-	2,261	Air
625	11,241	-	5,297	-	-	2,796	850	146	20,956	Residential
-	7,329	-	1,139	-	-	3,294	42	8	11,812	Commercial
-	1,453	-	161	-	-	1,017	17	67	2,715	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

## 11. 에너지밸런스(1998)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	4,361	-	-	-	6,099	89,689	-	-	1,526	27,435
수입	51,355	1,040,741	10,600	-	-	-	-	-	-	191,456
(석유생산)	-	864,845	-	-	-	-	-	-	-	122,331
(석유수입)	-	175,895	-	-	-	-	-	-	-	21,498
수출	-	-296,682	-	-	-	-	-	-	-	-42,232
국제병커링	-	-45,991	-	-	-	-	-	-	-	-7,069
재고증감	-549	2,377	78	-	-	-	-	-	-	215
연초재고	9,720	48,804	605	-	-	-	-	-	-	12,139
연말재고	-10,269	-46,427	-527	-	-	-	-	-	-	-11,924
통계오차	744	-30,231	-34	-	-	-	-	-	-	-3,542
1차에너지 공급	55,911	670,232	10,645	-	6,099	89,689	-	-	1,526	166,265
에너지전환	-28,133	-28,378	-10,645	8,024	-6,099	-89,689	193,470	882	-	-34,088
발전	-28,133	-21,772	-4,030	-95	-6,099	-89,689	215,300	675	-	-31,558
지역난방	-	-2,420	-160	-84	-	-	-	258	-	-417
가스제조	-	-4,186	-6,233	8,080	-	-	-	-	-	-25
자가소비 및 손실	-	-	-222	123	-	-	-21,830	-50	-	-2,088
최종에너지 소비	27,778	641,854	-	8,024	-	-	193,470	882	1,526	132,177
산업부문	26,549	345,804	-	1,725	-	-	108,828	-	1,287	76,353
농림어업	-	22,100	-	0	-	-	4,024	-	-	3,553
광업	-	293	-	1	-	-	973	-	-	129
제조업	26,549	311,151	-	1,724	-	-	103,831	-	1,287	70,730
음식·담배	48	6,868	-	64	-	-	5,425	-	-	1,614
섬유·의복	147	10,306	-	219	-	-	13,129	-	-	3,061
목재·나무	-	423	-	3	-	-	819	-	-	139
펄프·인쇄	12	7,794	-	36	-	-	7,286	-	-	1,890
석유·화학	259	248,704	-	156	-	-	23,034	-	-	34,133
비금속	5,072	6,886	-	149	-	-	7,738	-	-	5,189
1차금속	19,072	4,801	-	354	-	-	20,147	-	-	15,349
비철금속	-	941	-	-	-	-	-	-	-	129
조립금속	-	10,780	-	440	-	-	25,044	-	-	4,250
기타제조	1,939	9,522	-	303	-	-	1,210	-	1,287	4,349
기타에너지	-	4,125	-	-	-	-	-	-	-	626
건설업	-	12,260	-	0	-	-	-	-	-	1,941
수송부문	-	187,689	-	-	-	-	1,580	-	-	26,178
철도운수	-	2,163	-	-	-	-	1,580	-	-	452
육상운수	-	142,385	-	-	-	-	-	-	-	19,270
수상운수	-	28,752	-	-	-	-	-	-	-	4,467
항공운수	-	14,390	-	-	-	-	-	-	-	1,989
가정부문	1,229	59,962	-	5,087	-	-	32,913	825	154	17,128
상업부문	-	39,818	-	1,059	-	-	38,270	41	8	10,028
공공부문	-	8,581	-	152	-	-	11,880	16	77	2,489

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



## 11. Energy Balance(1998)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,962	-	-	-	1,525	22,422	-	-	1,526	27,435	Domestic Production
33,847	143,829	13,780	-	-	-	-	-	-	191,456	Imports
-	122,331	-	-	-	-	-	-	-	122,331	(Petroleum Products)
-	21,498	-	-	-	-	-	-	-	21,498	(Petroleum Imports)
-	-42,232	-	-	-	-	-	-	-	-42,232	Exports
-	-7,069	-	-	-	-	-	-	-	-7,069	Int'l Bunkers
-240	353	101	-	-	-	-	-	-	215	Stock Change(+/-)
4,520	6,832	786	-	-	-	-	-	-	12,139	Former Stock
-4,760	-6,478	-685	-	-	-	-	-	-	-11,924	Ending Stock
481	-3,979	-44	-	-	-	-	-	-	-3,542	Statistical Difference
36,051	90,904	13,838	-	1,525	22,422	-	-	1,526	166,265	Primary Supply
-18,058	-4,192	-13,838	8,425	-1,525	-22,422	16,638	882	-	-34,088	Transformation
-18,058	-3,406	-5,239	-100	-1,525	-22,422	18,516	675	-	-31,558	Electric Generation
-	-380	-208	-88	-	-	-	258	-	-417	District Heating
-	-406	-8,103	8,484	-	-	-	-	-	-25	Gas Manufacturing
-	-	-289	129	-	-	-1,877	-50	-	-2,088	Own Use & Loss
17,993	86,712	-	8,425	-	-	16,638	882	1,526	132,177	Final Consumption
17,440	46,456	-	1,812	-	-	9,359	-	1,287	76,353	Industry
-	3,207	-	0	-	-	346	-	-	3,553	Agri. Fishery
-	44	-	1	-	-	84	-	-	129	Mining
17,440	41,263	-	1,810	-	-	8,929	-	1,287	70,730	Manufacturing
32	1,048	-	68	-	-	467	-	-	1,614	Food Tobacco
97	1,605	-	230	-	-	1,129	-	-	3,061	Textile & Apparel
-	66	-	3	-	-	70	-	-	139	Wood & Wood Pro.
8	1,217	-	38	-	-	627	-	-	1,890	Pulp & Publications
171	31,818	-	164	-	-	1,981	-	-	34,133	Petro. Chemical
3,337	1,031	-	156	-	-	665	-	-	5,189	Non-Metallic
12,532	713	-	371	-	-	1,733	-	-	15,349	Iron & Steel
-	129	-	-	-	-	-	-	-	129	Non-ferrous
-	1,634	-	462	-	-	2,154	-	-	4,250	Fabricated Metal
1,263	1,376	-	318	-	-	104	-	1,287	4,349	Other Manufacturing
-	626	-	-	-	-	-	-	-	626	Other Energy
-	1,941	-	0	-	-	-	-	-	1,941	Construction
-	26,042	-	-	-	-	136	-	-	26,178	Transport
-	316	-	-	-	-	136	-	-	452	Rail
-	19,270	-	-	-	-	-	-	-	19,270	Land
-	4,467	-	-	-	-	-	-	-	4,467	Water
-	1,989	-	-	-	-	-	-	-	1,989	Air
553	7,424	-	5,341	-	-	2,830	825	154	17,128	Residential
-	5,575	-	1,112	-	-	3,291	41	8	10,028	Commercial
-	1,215	-	160	-	-	1,022	16	77	2,489	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(1999)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	4,197	-	-	-	6,066	103,064	-	-	1,806	30,977
수입	52,240	1,095,577	12,973	-	-	-	-	-	-	202,665
(석유생산)	-	911,086	-	-	-	-	-	-	-	128,917
(석유수입)	-	184,490	-	-	-	-	-	-	-	22,474
수출	-	-297,899	-	-	-	-	-	-	-	-42,544
국제병커링	-	-49,048	-	-	-	-	-	-	-	-7,558
재고증감	-468	3,535	-12	-	-	-	-	-	-	244
연초재고	10,269	46,320	527	-	-	-	-	-	-	11,905
연말재고	-10,737	-42,785	-539	-	-	-	-	-	-	-11,661
통계오차	3,163	-32,509	0	-	-	-	-	-	-	-2,134
1차에너지 공급	59,132	719,656	12,961	-	6,066	103,064	-	-	1,806	181,651
에너지전환	-30,849	-31,348	-12,961	10,012	-6,066	-103,064	214,215	1,033	-	-38,624
발전	-30,849	-23,739	-4,591	-80	-6,066	-103,064	239,325	772	-	-35,518
지역난방	-	-3,091	-177	-121	-	-	-	310	-	-533
가스제조	-	-4,518	-7,886	10,260	-	-	-	-	-	82
자가소비 및 손실	-	-	-306	-47	-	-	-25,110	-50	-	-2,656
최종에너지 소비	28,283	688,307	-	10,012	-	-	214,215	1,033	1,806	143,027
산업부문	27,166	355,721	-	2,410	-	-	120,859	-	1,568	80,114
농림어업	-	23,917	-	1	-	-	4,572	-	-	3,843
광업	-	274	-	1	-	-	952	-	-	124
제조업	27,166	318,682	-	2,407	-	-	115,335	-	1,568	74,119
음식·담배	48	5,957	-	137	-	-	5,756	-	-	1,577
섬유·의복	147	10,981	-	281	-	-	14,414	-	-	3,350
목재·나무	-	531	-	2	-	-	1,025	-	-	173
펄프·인쇄	12	8,510	-	58	-	-	8,333	-	-	2,111
석유·화학	260	249,511	-	204	-	-	24,898	-	-	34,434
비금속	5,161	7,717	-	202	-	-	8,354	-	-	5,466
1차금속	19,290	7,499	-	479	-	-	19,004	-	-	15,919
비철금속	-	1,220	-	-	-	-	3,335	-	-	454
조립금속	-	12,749	-	580	-	-	28,745	-	-	4,998
기타제조	2,248	10,291	-	464	-	-	1,471	-	1,568	5,079
기타에너지	-	3,716	-	-	-	-	-	-	-	559
건설업	-	12,849	-	0	-	-	-	-	-	2,028
수송부문	-	205,884	-	-	-	-	1,730	-	-	28,625
철도운수	-	2,255	-	-	-	-	1,730	-	-	478
육상운수	-	156,950	-	-	-	-	-	-	-	21,176
수상운수	-	31,328	-	-	-	-	-	-	-	4,849
항공운수	-	15,351	-	-	-	-	-	-	-	2,122
가정부문	1,117	72,002	-	6,104	-	-	34,581	959	159	19,961
상업부문	-	45,717	-	1,309	-	-	44,412	56	5	11,679
공공부문	-	8,984	-	189	-	-	12,633	18	75	2,648

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(1999)

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,889	-	-	-	1,517	25,766	-	-	1,806	30,977	Domestic Production
34,410	151,391	16,865	-	-	-	-	-	-	202,665	Imports
-	128,917	-	-	-	-	-	-	-	128,917	(Petroleum Products)
-	22,474	-	-	-	-	-	-	-	22,474	(Petroleum Imports)
-	-42,544	-	-	-	-	-	-	-	-42,544	Exports
-	-7,558	-	-	-	-	-	-	-	-7,558	Int'l Bunkers
-203	462	-15	-	-	-	-	-	-	244	Stock Change(+/-)
4,760	6,460	685	-	-	-	-	-	-	11,905	Former Stock
-4,963	-5,999	-700	-	-	-	-	-	-	-11,661	Ending Stock
2,061	-4,195	0	-	-	-	-	-	-	-2,134	Statistical Difference
38,157	97,556	16,849	-	1,517	25,766	-	-	1,806	181,651	Primary Supply
-19,832	-4,628	-16,849	10,513	-1,517	-25,766	18,422	1,033	-	-38,624	Transformation
-19,832	-3,704	-5,969	-84	-1,517	-25,766	20,582	772	-	-35,518	Electric Generation
-	-485	-231	-127	-	-	-	310	-	-533	District Heating
-	-438	-10,252	10,773	-	-	-	-	-	82	Gas Manufacturing
-	-	-398	-49	-	-	-2,159	-50	-	-2,656	Own Use & Loss
18,325	92,928	-	10,513	-	-	18,422	1,033	1,806	143,027	Final Consumption
17,822	47,800	-	2,530	-	-	10,394	-	1,568	80,114	Industry
-	3,449	-	1	-	-	393	-	-	3,843	Agri. Fishery
-	41	-	1	-	-	82	-	-	124	Mining
17,822	42,282	-	2,528	-	-	9,919	-	1,568	74,119	Manufacturing
32	906	-	144	-	-	495	-	-	1,577	Food Tobacco
97	1,718	-	295	-	-	1,240	-	-	3,350	Textile & Apparel
-	83	-	2	-	-	88	-	-	173	Wood & Wood Pro.
8	1,325	-	61	-	-	717	-	-	2,111	Pulp & Publications
171	31,907	-	214	-	-	2,141	-	-	34,434	Petro. Chemical
3,387	1,148	-	213	-	-	718	-	-	5,466	Non-Metallic
12,669	1,113	-	503	-	-	1,634	-	-	15,919	Iron & Steel
-	167	-	-	-	-	287	-	-	454	Non-ferrous
-	1,917	-	609	-	-	2,472	-	-	4,998	Fabricated Metal
1,458	1,438	-	488	-	-	127	-	1,568	5,079	Other Manufacturing
-	559	-	-	-	-	-	-	-	559	Other Energy
-	2,028	-	0	-	-	-	-	-	2,028	Construction
-	28,476	-	-	-	-	149	-	-	28,625	Transport
-	329	-	-	-	-	149	-	-	478	Rail
-	21,176	-	-	-	-	-	-	-	21,176	Land
-	4,849	-	-	-	-	-	-	-	4,849	Water
-	2,122	-	-	-	-	-	-	-	2,122	Air
503	8,958	-	6,409	-	-	2,974	959	159	19,961	Residential
-	6,424	-	1,374	-	-	3,819	56	5	11,679	Commercial
-	1,270	-	199	-	-	1,086	18	75	2,649	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2000)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	4,150	-	-	-	5,610	108,964	-	-	2,130	32,641
수입	61,638	1,131,198	14,578	-	-	-	-	-	-	215,687
(석유생산)	-	926,897	-	-	-	-	-	-	-	130,788
(석유수입)	-	204,301	-	-	-	-	-	-	-	25,388
수출	-	-306,293	-	-	-	-	-	-	-	-43,758
국제병커링	-	-46,468	-	-	-	-	-	-	-	-7,163
재고증감	-37	-6,900	-52	-	-	-	-	-	-	-1,061
연초재고	10,737	42,785	539	-	-	-	-	-	-	11,661
연말재고	-10,774	-49,685	-591	-	-	-	-	-	-	-12,722
통계오차	795	-28,982	31	-	-	-	-	-	-	-3,105
1차에너지 공급	66,546	742,556	14,557	-	5,610	108,964	-	-	2,130	193,240
에너지전환	-36,155	-44,448	-14,557	11,963	-5,610	-108,964	239,535	1,167	-	-43,282
발전	-36,155	-38,528	-4,353	-103	-5,610	-108,964	266,400	871	-	-39,935
지역난방	-	-2,715	-335	-115	-	-	-	350	-	-632
가스제조	-	-3,205	-9,528	11,924	-	-	-	-	-	-178
자가소비 및 손실	-	-	-340	257	-	-	-26,864	-54	-	-2,537
최종에너지 소비	30,391	698,107	0	11,963	-	-	239,535	1,167	2,130	149,958
산업부문	29,199	362,034	0	3,151	-	-	132,260	-	1,908	84,237
농림어업	-	24,905	-	12	-	-	5,306	-	-	4,069
광업	-	362	-	2	-	-	1,003	-	-	142
제조업	29,199	323,119	0	3,137	-	-	125,952	-	1,908	77,881
음식·담배	45	5,790	-	168	-	-	6,149	-	-	1,624
섬유·의복	-	10,526	-	407	-	-	15,497	-	-	3,408
목재·나무	-	539	-	2	-	-	1,137	-	-	183
펄프·인쇄	1	7,790	-	63	-	-	8,843	-	-	2,043
석유·화학	413	258,459	-	304	-	-	26,899	-	-	35,962
비금속	5,365	7,665	-	240	-	-	8,981	-	-	5,689
1차금속	20,195	6,171	0	616	-	-	19,997	-	-	16,565
비철금속	164	1,349	-	-	-	-	3,755	-	-	616
조립금속	-	10,441	-	687	-	-	32,997	-	-	5,108
기타제조	3,015	10,339	-	650	-	-	1,697	-	1,908	6,073
기타에너지	-	4,049	-	-	-	-	-	-	-	610
건설업	-	13,648	-	0	-	-	-	-	-	2,145
수송부문	-	223,452	-	-	-	-	2,037	-	-	30,945
철도운수	-	2,307	-	-	-	-	2,037	-	-	513
육상운수	-	175,116	-	-	-	-	-	-	-	23,554
수상운수	-	30,314	-	-	-	-	-	-	-	4,705
항공운수	-	15,715	-	-	-	-	-	-	-	2,174
가정부문	1,192	72,329	-	7,003	-	-	37,102	1,084	115	21,160
상업부문	-	32,218	-	1,591	-	-	54,651	63	33	10,993
공공부문	-	8,074	-	218	-	-	13,486	20	74	2,625

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2000)

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,868	-	-	-	1,402	27,241	-	-	2,130	32,641	Domestic Production
40,559	156,177	18,951	-	-	-	-	-	-	215,687	Imports
-	130,788	-	-	-	-	-	-	-	130,788	(Petroleum Products)
-	25,388	-	-	-	-	-	-	-	25,388	(Petroleum Imports)
-	-43,758	-	-	-	-	-	-	-	-43,758	Exports
-	-7,163	-	-	-	-	-	-	-	-7,163	Int'l Bunkers
-16	-977	-68	-	-	-	-	-	-	-1,061	Stock Change(+/-)
4,963	5,998	700	-	-	-	-	-	-	11,661	Former Stock
-4,979	-6,975	-768	-	-	-	-	-	-	-12,722	Ending Stock
514	-3,660	40	-	-	-	-	-	-	-3,105	Statistical Difference
42,925	100,618	18,924	-	1,402	27,241	-	-	2,130	193,240	Primary Supply
-23,264	-6,779	-18,924	12,561	-1,402	-27,241	20,600	1,167	-	-43,282	Transformation
-23,264	-6,042	-5,659	-108	-1,402	-27,241	22,910	871	-	-39,935	Electric Generation
-	-426	-436	-120	-	-	-	350	-	-632	District Heating
-	-311	-12,387	12,520	-	-	-	-	-	-178	Gas Manufacturing
-	-	-442	269	-	-	-2,310	-54	-	-2,537	Own Use & Loss
19,661	93,839	0	12,561	-	-	20,600	1,167	2,130	149,958	Final Consumption
19,125	48,522	0	3,308	-	-	11,374	-	1,908	84,237	Industry
-	3,600	-	13	-	-	456	-	-	4,069	Agri. Fishery
-	54	-	2	-	-	86	-	-	142	Mining
19,125	42,723	0	3,294	-	-	10,832	-	1,908	77,881	Manufacturing
30	889	-	176	-	-	529	-	-	1,624	Food Tobacco
-	1,648	-	428	-	-	1,333	-	-	3,408	Textile & Apparel
-	83	-	2	-	-	98	-	-	183	Wood & Wood Pro.
1	1,216	-	66	-	-	760	-	-	2,043	Pulp & Publications
273	33,057	-	319	-	-	2,313	-	-	35,962	Petro. Chemical
3,529	1,136	-	252	-	-	772	-	-	5,689	Non-Metallic
13,275	923	0	647	-	-	1,720	-	-	16,565	Iron & Steel
109	185	-	-	-	-	323	-	-	616	Non-ferrous
-	1,549	-	721	-	-	2,838	-	-	5,108	Fabricated Metal
1,909	1,428	-	682	-	-	146	-	1,908	6,073	Other Manufacturing
-	610	-	-	-	-	-	-	-	610	Other Energy
-	2,145	-	0	-	-	-	-	-	2,145	Construction
-	30,770	-	-	-	-	175	-	-	30,945	Transport
-	337	-	-	-	-	175	-	-	513	Rail
-	23,554	-	-	-	-	-	-	-	23,554	Land
-	4,705	-	-	-	-	-	-	-	4,705	Water
-	2,174	-	-	-	-	-	-	-	2,174	Air
536	8,881	-	7,353	-	-	3,191	1,084	115	21,160	Residential
-	4,527	-	1,671	-	-	4,700	63	33	10,993	Commercial
-	1,140	-	229	-	-	1,160	20	74	2,623	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2001)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	3,817	-	-	-	4,151	112,133	-	-	2,456	33,244
수입	64,966	1,112,126	16,164	-	-	-	-	-	-	217,250
(석유생산)	-	907,345	-	-	-	-	-	-	-	127,889
(석유수입)	-	204,781	-	-	-	-	-	-	-	25,656
수출	-	-295,010	-	-	-	-	-	-	-	-42,143
국제병커링	-	-46,330	-	-	-	-	-	-	-	-7,132
재고증감	198	324	-147	-	-	-	-	-	-	-55
연초재고	10,774	49,680	591	-	-	-	-	-	-	12,721
연말재고	-10,576	-49,356	-738	-	-	-	-	-	-	-12,777
통계오차	1,862	-27,444	-27	-	-	-	-	-	-	-2,298
1차에너지 공급	70,843	743,666	15,990	-	4,151	112,133	-	-	2,456	198,865
에너지전환	-39,291	-46,614	-15,990	12,657	-4,151	-112,133	257,731	1,218	-	-45,763
발전	-39,291	-41,529	-4,657	-84	-4,151	-112,133	285,225	842	-	-41,733
지역난방	-	-3,191	-630	-126	-	-	-	446	-	-1,008
가스제조	-	-1,894	-10,300	12,751	-	-	-	-	-	-186
자가소비 및 손실	-	-	-403	116	-	-	-27,494	-69	-	-2,836
최종에너지 소비	31,553	697,052	-	12,657	-	-	257,731	1,218	2,456	153,103
산업부문	30,323	359,930	-	3,440	-	-	135,791	-	2,215	85,562
농림어업	-	26,544	-	21	-	-	5,985	-	-	4,369
광업	-	389	-	2	-	-	1,074	-	-	152
제조업	30,323	318,785	-	3,416	-	-	128,732	-	2,215	78,803
음식·담배	46	5,121	-	181	-	-	6,387	-	-	1,558
섬유·의복	-	9,858	-	418	-	-	15,137	-	-	3,285
목재·나무	-	493	-	2	-	-	1,256	-	-	187
펄프·인쇄	-	7,130	-	62	-	-	8,958	-	-	1,951
석유·화학	433	261,301	-	317	-	-	27,839	-	-	36,511
비금속	5,514	7,362	-	252	-	-	9,306	-	-	5,801
1차금속	20,369	4,583	-	681	-	-	19,550	-	-	16,450
비철금속	162	1,199	-	-	-	-	3,948	-	-	610
조립금속	-	9,204	-	704	-	-	34,562	-	-	5,080
기타제조	3,798	8,458	-	799	-	-	1,789	-	2,215	6,757
기타에너지	-	4,075	-	-	-	-	-	-	-	615
건설업	-	14,212	-	-	-	-	-	-	-	2,238
수송부문	-	231,095	-	7	-	-	2,257	-	-	31,910
철도운수	-	2,329	-	-	-	-	2,257	-	-	535
육상운수	-	184,995	-	7	-	-	-	-	-	24,841
수상운수	-	27,748	-	-	-	-	-	-	-	4,317
항공운수	-	16,024	-	-	-	-	-	-	-	2,216
가정부문	1,230	70,937	-	7,168	-	-	39,211	1,111	109	21,379
상업부문	-	25,650	-	1,796	-	-	65,496	80	42	11,260
공공부문	-	9,440	-	247	-	-	14,976	27	90	2,991

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2001)

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,718	-	-	-	1,038	28,033	-	-	2,456	33,244	Domestic Production
42,691	153,545	21,013	-	-	-	-	-	-	217,250	Imports
-	127,889	-	-	-	-	-	-	-	127,889	(Petroleum Products)
-	25,656	-	-	-	-	-	-	-	25,656	(Petroleum Imports)
-	-42,143	-	-	-	-	-	-	-	-42,143	Exports
-	-7,132	-	-	-	-	-	-	-	-7,132	Int'l Bunkers
90	46	-191	-	-	-	-	-	-	-55	Stock Change(+/-)
4,979	6,974	768	-	-	-	-	-	-	12,721	Former Stock
-4,889	-6,928	-959	-	-	-	-	-	-	-12,777	Ending Stock
1,226	-3,489	-35	-	-	-	-	-	-	-2,298	Statistical Difference
45,724	100,827	20,787	-	1,038	28,033	-	-	2,456	198,865	Primary Supply
-25,367	-7,211	-20,787	13,290	-1,038	-28,033	22,165	1,218	-	-45,763	Transformation
-25,367	-6,524	-6,054	-88	-1,038	-28,033	24,529	842	-	-41,733	Electric Generation
-	-502	-819	-132	-	-	-	446	-	-1,008	District Heating
-	-185	-13,389	13,388	-	-	-	-	-	-186	Gas Manufacturing
-	-	-524	122	-	-	-2,364	-69	-	-2,836	Own Use & Loss
20,357	93,617	-	13,290	-	-	22,165	1,218	2,456	153,103	Final Consumption
19,804	48,254	-	3,612	-	-	11,678	-	2,215	85,562	Industry
-	3,832	-	22	-	-	515	-	-	4,369	Agri. Fishery
-	58	-	2	-	-	92	-	-	152	Mining
19,804	42,127	-	3,587	-	-	11,071	-	2,215	78,803	Manufacturing
31	787	-	190	-	-	549	-	-	1,558	Food Tobacco
-	1,544	-	439	-	-	1,302	-	-	3,285	Textile & Apparel
-	77	-	2	-	-	108	-	-	187	Wood & Wood Pro.
-	1,115	-	65	-	-	770	-	-	1,951	Pulp & Publications
286	33,498	-	333	-	-	2,394	-	-	36,511	Petro. Chemical
3,631	1,105	-	265	-	-	800	-	-	5,801	Non-Metallic
13,370	683	-	715	-	-	1,681	-	-	16,450	Iron & Steel
107	163	-	-	-	-	340	-	-	610	Non-ferrous
-	1,369	-	739	-	-	2,972	-	-	5,080	Fabricated Metal
2,379	1,170	-	839	-	-	154	-	2,215	6,757	Other Manufacturing
-	615	-	-	-	-	-	-	-	615	Other Energy
-	2,238	-	-	-	-	-	-	-	2,238	Construction
-	31,708	-	7	-	-	194	-	-	31,910	Transport
-	341	-	-	-	-	194	-	-	535	Rail
-	24,833	-	7	-	-	-	-	-	24,841	Land
-	4,317	-	-	-	-	-	-	-	4,317	Water
-	2,216	-	-	-	-	-	-	-	2,216	Air
553	8,706	-	7,526	-	-	3,372	1,111	109	21,379	Residential
-	3,621	-	1,885	-	-	5,633	80	42	11,260	Commercial
-	1,328	-	259	-	-	1,288	27	90	2,991	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2002)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	3,318	-	-	-	5,309	119,102	-	-	2,925	35,521
수입	68,519	1,086,919	17,470	-	-	-	-	-	-	216,801
(석유생산)	-	858,363	-	-	-	-	-	-	-	120,429
(석유수입)	-	228,557	-	-	-	-	-	-	-	28,672
수출	-	-239,127	-	-	-	-	-	-	-	-33,914
국제병커링	-	-46,466	-	-	-	-	-	-	-	-7,115
재고증감	475	6,100	312	-	-	-	-	-	-	1,548
연초재고	10,576	49,356	738	-	-	-	-	-	-	12,777
연말재고	-10,101	-43,256	-426	-	-	-	-	-	-	-11,229
통계오차	3,697	-44,558	-16	-	-	-	-	-	-	11,125
1차에너지 공급	76,009	762,867	17,766	-	5,309	119,102	-	-	2,925	209,290
에너지전환	-42,701	-41,478	-17,766	13,873	-5,309	-119,102	278,451	1,316	-	-48,413
발전	-42,701	-36,403	-5,900	-29	-5,309	-119,102	306,473	922	-	-44,873
지역난방	-	-3,387	-609	-188	-	-	-	483	-	-1,039
가스제조	-	-1,687	-11,194	13,815	-	-	-	-	-	-211
자가소비 및 손실	-	-	-63	275	-	-	-28,022	-88	-	-2,291
최종에너지 소비	33,308	721,390	-	13,873	-	-	278,451	1,316	2,925	160,876
산업부문	32,133	374,906	-	3,794	-	-	144,454	-	2,359	89,755
농림어업	-	26,231	-	18	-	-	6,156	-	-	4,322
광업	-	425	-	-	-	-	1,155	-	-	162
제조업	32,133	334,089	-	3,776	-	-	137,143	-	2,359	83,058
음식·담배	49	5,072	-	239	-	-	6,768	-	-	1,641
섬유·의복	-	9,610	-	421	-	-	15,543	-	-	3,281
목재·나무	-	528	-	3	-	-	1,388	-	-	204
펄프·인쇄	-	7,340	-	64	-	-	9,329	-	-	2,015
석유·화학	432	278,316	-	381	-	-	29,267	-	-	38,801
비금속	5,698	7,433	-	261	-	-	9,923	-	-	6,006
1차금속	21,202	4,496	-	685	-	-	20,461	-	-	17,079
비철금속	162	1,158	-	-	-	-	4,522	-	-	657
조립금속	-	9,186	-	748	-	-	37,967	-	-	5,414
기타제조	4,589	7,010	-	974	-	-	1,975	-	2,359	7,364
기타에너지	-	3,941	-	-	-	-	-	-	-	596
건설업	-	14,162	-	0	-	-	-	-	-	2,214
수송부문	-	244,044	-	76	-	-	2,271	-	-	33,765
철도운수	-	2,329	-	-	-	-	2,271	-	-	536
육상운수	-	196,517	-	76	-	-	-	-	-	26,485
수상운수	-	28,505	-	-	-	-	-	-	-	4,434
항공운수	-	16,694	-	-	-	-	-	-	-	2,309
가정부문	1,175	69,648	-	7,723	-	-	42,278	1,203	325	22,318
상업부문	-	24,137	-	2,030	-	-	72,361	84	26	11,843
공공부문	-	8,653	-	250	-	-	17,088	30	215	3,191

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



## 11. Energy Balance(2002)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,493	-	-	-	1,327	29,776	-	-	2,925	35,521	Domestic Production
44,990	149,101	22,711	-	-	-	-	-	-	216,801	Imports
-	120,429	-	-	-	-	-	-	-	120,429	(Petroleum Products)
-	28,672	-	-	-	-	-	-	-	28,672	(Petroleum Imports)
-	-33,914	-	-	-	-	-	-	-	-33,914	Exports
-	-7,115	-	-	-	-	-	-	-	-7,115	Int'l Bunkers
221	920	406	-	-	-	-	-	-	1,548	Stock Change(+/-)
4,889	6,928	959	-	-	-	-	-	-	12,777	Former Stock
-4,668	-6,008	-553	-	-	-	-	-	-	-11,229	Ending Stock
2,427	-5,958	-21	-	-	-	-	-	-	-3,551	Statistical Difference
49,131	103,034	23,096	-	1,327	29,776	-	-	2,925	209,290	Primary Supply
-27,645	-6,399	-23,096	14,567	-1,327	-29,776	23,947	1,316	-	-48,413	Transformation
-27,645	-5,702	-7,671	-31	-1,327	-29,776	26,357	922	-	-44,873	Electric Generation
-	-533	-791	-197	-	-	-	483	-	-1,039	District Heating
-	-164	-14,552	14,506	-	-	-	-	-	-211	Gas Manufacturing
-	-	-82	289	-	-	-2,410	-88	-	-2,291	Own Use & Loss
21,485	96,635	-	14,567	-	-	23,947	1,316	2,925	160,876	Final Consumption
20,956	50,032	-	3,984	-	-	12,423	-	2,359	89,755	Industry
-	3,773	-	19	-	-	529	-	-	4,322	Agri. Fishery
-	63	-	-	-	-	99	-	-	162	Mining
20,956	43,983	-	3,965	-	-	11,794	-	2,359	83,058	Manufacturing
32	776	-	251	-	-	582	-	-	1,641	Food Tobacco
-	1,503	-	442	-	-	1,337	-	-	3,281	Textile & Apparel
-	81	-	3	-	-	119	-	-	204	Wood & Wood Pro.
-	1,145	-	67	-	-	802	-	-	2,015	Pulp & Publications
285	35,599	-	400	-	-	2,517	-	-	38,801	Petro. Chemical
3,755	1,123	-	274	-	-	853	-	-	6,006	Non-Metallic
13,920	680	-	719	-	-	1,760	-	-	17,079	Iron & Steel
107	161	-	-	-	-	389	-	-	657	Non-ferrous
-	1,363	-	786	-	-	3,265	-	-	5,414	Fabricated Metal
2,857	955	-	1,023	-	-	170	-	2,359	7,364	Other Manufacturing
-	596	-	-	-	-	-	-	-	596	Other Energy
-	2,213	-	0	-	-	-	-	-	2,214	Construction
-	33,490	-	80	-	-	195	-	-	33,765	Transport
-	341	-	-	-	-	195	-	-	536	Rail
-	26,406	-	80	-	-	-	-	-	26,485	Land
-	4,434	-	-	-	-	-	-	-	4,434	Water
-	2,309	-	-	-	-	-	-	-	2,309	Air
529	8,516	-	8,109	-	-	3,636	1,203	325	22,318	Residential
-	3,378	-	2,132	-	-	6,223	84	26	11,843	Commercial
-	1,220	-	262	-	-	1,470	30	215	3,196	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2003)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	3,298	-	-	-	6,887	129,672	-	-	3,241	38,864
수입	69,958	1,060,935	19,434	-	-	-	-	-	-	217,031
(석유생산)	-	841,038	-	-	-	-	-	-	-	118,511
(석유수입)	-	219,897	-	-	-	-	-	-	-	27,361
수출	-	-209,079	-	-	-	-	-	-	-	-30,025
국제병커링	-	-53,139	-	-	-	-	-	-	-	-8,120
재고증감	574	1,302	-325	-	-	-	-	-	-	55
연초재고	10,101	43,284	738	-	-	-	-	-	-	11,639
연말재고	-9,527	-41,983	-1,063	-	-	-	-	-	-	-11,584
통계오차	5,303	-37,078	-499	-	-	-	-	-	-	-2,020
1차에너지 공급	79,133	762,940	18,610	-	6,887	129,672	-	-	3,241	215,772
에너지전환	-44,341	-41,421	-18,610	14,734	-6,887	-129,672	293,599	1,523	-30	-51,221
발전	-44,341	-36,624	-5,853	-45	-6,887	-129,672	322,452	1,096	-30	-47,401
지역난방	-	-3,840	-615	-193	-	-	-	532	-	-1,074
가스제조	-	-956	-11,978	14,950	-	-	-	-	-	32
자가소비 및 손실	-	-	-165	21	-	-	-28,852	-106	-	-2,778
최종에너지 소비	34,792	721,519	-	14,734	-	-	293,599	1,523	3,210	164,550
산업부문	33,601	374,669	-	3,978	-	-	150,387	-	2,503	91,400
농림어업	-	22,498	-	22	-	-	5,944	-	-	3,780
광업	-	533	-	-	-	-	1,205	-	-	181
제조업	33,601	337,141	-	3,956	-	-	143,238	-	-	85,170
음식·담배	48	5,004	-	262	-	-	7,061	-	-	1,682
섬유·의복	-	8,558	-	410	-	-	14,654	-	-	3,028
목재·나무	-	446	-	5	-	-	1,445	-	-	198
펄프·인쇄	-	7,234	-	61	-	-	9,352	-	-	1,997
석유·화학	436	285,403	-	425	-	-	31,223	-	-	39,946
비금속	6,072	7,014	-	293	-	-	10,286	-	-	6,269
1차금속	21,574	4,132	-	759	-	-	20,902	-	-	17,390
비철금속	168	1,199	-	-	-	-	4,754	-	-	687
조립금속	-	7,719	-	762	-	-	41,507	-	-	5,517
기타제조	5,302	6,104	-	980	-	-	2,054	-	-	7,800
기타에너지	-	4,329	-	-	-	-	-	-	-	654
건설업	-	14,497	-	0	-	-	-	-	-	2,270
수송부문	-	249,624	-	139	-	-	2,331	-	-	34,634
철도운수	-	2,382	-	-	-	-	2,331	-	-	549
육상운수	-	202,658	-	139	-	-	-	-	-	27,419
수상운수	-	28,766	-	-	-	-	-	-	-	4,477
항공운수	-	15,819	-	-	-	-	-	-	-	2,189
가정부문	1,191	64,588	-	8,124	-	-	44,572	1,252	286	22,346
상업부문	-	22,611	-	2,246	-	-	78,511	105	58	12,440
공공부문	-	10,027	-	246	-	-	17,798	166	364	3,593

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2003)

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,484	-	-	-	1,722	32,418	-	-	3,241	38,864	Domestic Production
45,894	145,872	25,264	-	-	-	-	-	-	217,031	Imports
-	118,511	-	-	-	-	-	-	-	118,511	(Petroleum Products)
-	27,361	-	-	-	-	-	-	-	27,361	(Petroleum Imports)
-	-30,025	-	-	-	-	-	-	-	-30,025	Exports
-	-8,120	-	-	-	-	-	-	-	-8,120	Int'l Bunkers
261	216	-423	-	-	-	-	-	-	55	Stock Change(+/-)
4,668	6,011	959	-	-	-	-	-	-	11,639	Former Stock
-4,407	-5,795	-1,382	-	-	-	-	-	-	-11,584	Ending Stock
3,485	-4,857	-648	-	-	-	-	-	-	-2,020	Statistical Difference
51,124	103,073	24,194	-	1,722	32,418	-	-	3,241	215,772	Primary Supply
-28,696	-6,404	-24,194	15,470	-1,722	-32,418	25,250	1,523	-30	-51,221	Transformation
-28,696	-5,706	-7,609	-48	-1,722	-32,418	27,731	1,096	-30	-47,401	Electric Generation
-	-604	-800	-202	-	-	-	532	-	-1,074	District Heating
-	-94	-15,571	15,698	-	-	-	-	-	32	Gas Manufacturing
-	-	-214	22	-	-	-2,481	-106	-	-2,778	Own Use & Loss
22,428	96,669	-	15,470	-	-	25,250	1,523	3,210	164,550	Final Consumption
21,890	49,898	-	4,177	-	-	12,933	-	2,503	91,400	Industry
-	3,245	-	23	-	-	511	-	-	3,780	Agri. Fishery
-	77	-	-	-	-	104	-	-	181	Mining
21,890	44,305	-	4,154	-	-	12,318	-	2,503	85,170	Manufacturing
32	768	-	275	-	-	607	-	-	1,682	Food Tobacco
-	1,337	-	431	-	-	1,260	-	-	3,028	Textile & Apparel
-	68	-	5	-	-	124	-	-	198	Wood & Wood Pro.
-	1,129	-	64	-	-	804	-	-	1,997	Pulp & Publications
288	36,526	-	447	-	-	2,685	-	-	39,946	Petro. Chemical
4,005	1,072	-	308	-	-	885	-	-	6,269	Non-Metallic
14,171	625	-	797	-	-	1,798	-	-	17,390	Iron & Steel
111	167	-	-	-	-	409	-	-	687	Non-ferrous
-	1,148	-	800	-	-	3,570	-	-	5,517	Fabricated Metal
3,283	809	-	1,029	-	-	177	-	2,503	7,800	Other Manufacturing
-	654	-	-	-	-	-	-	-	654	Other Energy
-	2,270	-	0	-	-	-	-	-	2,270	Construction
-	34,288	-	146	-	-	200	-	-	34,634	Transport
-	348	-	-	-	-	200	-	-	549	Rail
-	27,273	-	146	-	-	-	-	-	27,419	Land
-	4,477	-	-	-	-	-	-	-	4,477	Water
-	2,189	-	-	-	-	-	-	-	2,189	Air
539	7,907	-	8,530	-	-	3,833	1,252	286	22,346	Residential
-	3,166	-	2,359	-	-	6,752	105	58	12,440	Commercial
-	1,411	-	259	-	-	1,531	166	364	3,730	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2004)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	3,191	-	163	-	5,861	130,715	-	-	3,977	39,769
수입	76,354	1,081,523	22,153	-	-	-	-	-	-	227,497
(석유생산)	-	886,413	-	-	-	-	-	-	-	124,653
(석유수입)	-	195,110	-	-	-	-	-	-	-	23,906
수출	-	-235,506	-	-	-	-	-	-	-	-33,841
국제병커링	-	-58,387	-	-	-	-	-	-	-	-8,929
재고증감	633	-8,585	-539	-	-	-	-	-	-	-1,535
연초재고	9,527	41,984	1,063	-	-	-	-	-	-	11,584
연말재고	-8,894	-50,569	-1,602	-	-	-	-	-	-	-13,119
통계오차	2,055	-28,741	31	-	-	-	-	-	0	-2,233
1차에너지 공급	82,233	750,303	21,809	-	5,861	130,715	-	-	3,977	220,756
에너지전환	-47,868	-33,127	-21,809	15,422	-5,861	-130,715	312,096	1,449	-49	-54,303
발전	-47,868	-27,785	-8,242	-27	-5,861	-130,715	342,148	1,110	-49	-49,858
지역난방	-	-4,298	-576	-224	-	-	-	423	-	-1,238
가스제조	-	-1,045	-12,504	15,360	-	-	-	-	-	-236
자가소비 및 손실	-	-	-487	313	-	-	-30,052	-83	-	-2,972
최종에너지 소비	34,365	717,176	-	15,422	-	-	312,096	1,449	3,928	166,452
산업부문	32,980	383,064	-	4,173	-	-	158,337	-	3,337	93,650
농림어업	-	20,391	-	24	-	-	6,511	-	-	3,530
광업	-	455	-	-	-	-	1,269	-	-	175
제조업	32,980	346,299	-	4,150	-	-	150,557	-	3,337	87,450
음식·담배	48	4,911	-	258	-	-	7,281	-	-	1,684
섬유·의복	-	7,854	-	400	-	-	13,846	-	-	2,838
목재·나무	-	413	-	35	-	-	1,465	-	-	225
펄프·인쇄	-	6,964	-	63	-	-	9,653	-	-	1,983
석유·화학	342	296,841	-	417	-	-	32,925	-	-	41,386
비금속	5,318	6,930	-	321	-	-	10,119	-	-	5,797
1차금속	22,075	3,903	-	843	-	-	21,384	-	-	17,808
비철금속	166	1,133	-	-	-	-	4,956	-	-	694
조립금속	-	6,238	-	845	-	-	46,858	-	-	5,836
기타제조	5,030	5,593	-	969	-	-	2,070	-	3,337	8,369
기타에너지	-	5,520	-	-	-	-	-	-	-	828
건설업	-	15,919	-	0	-	-	-	-	-	2,495
수송부문	-	249,098	-	227	-	-	2,475	-	6	34,635
철도운수	-	2,037	-	-	-	-	2,475	-	-	511
육상운수	-	203,946	-	227	-	-	-	-	6	27,705
수상운수	-	26,490	-	-	-	-	-	-	-	4,119
항공운수	-	16,625	-	-	-	-	-	-	-	2,300
가정부문	1,385	60,291	-	8,225	-	-	48,615	1,299	256	22,467
상업부문	-	15,154	-	2,530	-	-	83,389	116	47	12,100
공공부문	-	9,568	-	266	-	-	19,279	34	283	3,595

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2004)

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,436	-	212	-	1,465	32,679	-	-	3,977	39,769	Domestic Production
50,139	148,558	28,799	-	-	-	-	-	-	227,497	Imports
-	124,653	-	-	-	-	-	-	-	124,653	(Petroleum Products)
-	23,906	-	-	-	-	-	-	-	23,906	(Petroleum Imports)
-	-33,841	-	-	-	-	-	-	-	-33,841	Exports
-	-8,929	-	-	-	-	-	-	-	-8,929	Int'l Bunkers
304	-1,138	-701	-	-	-	-	-	-	-1,535	Stock Change(+/-)
4,407	5,795	1,382	-	-	-	-	-	-	11,584	Former Stock
-4,103	-6,933	-2,083	-	-	-	-	-	-	-13,119	Ending Stock
1,320	-3,593	41	-	-	-	-	-	0	-2,233	Statistical Difference
53,198	101,085	28,351	-	1,465	32,679	-	-	3,977	220,756	Primary Supply
-31,098	-5,143	-28,351	16,193	-1,465	-32,679	26,840	1,449	-49	-54,303	Transformation
-31,098	-4,358	-10,715	-29	-1,465	-32,679	29,425	1,110	-49	-49,858	Electric Generation
-	-676	-749	-236	-	-	-	423	-	-1,238	District Heating
-	-109	-16,255	16,128	-	-	-	-	-	-236	Gas Manufacturing
-	-	-632	329	-	-	-2,585	-83	-	-2,972	Own Use & Loss
22,100	95,942	-	16,193	-	-	26,840	1,449	3,928	166,452	Final Consumption
21,475	50,839	-	4,382	-	-	13,617	-	3,337	93,650	Industry
-	2,945	-	25	-	-	560	-	-	3,530	Agri. Fishery
-	66	-	-	-	-	109	-	-	175	Mining
21,475	45,333	-	4,357	-	-	12,948	-	3,337	87,450	Manufacturing
32	755	-	271	-	-	626	-	-	1,684	Food Tobacco
-	1,227	-	420	-	-	1,191	-	-	2,838	Textile & Apparel
-	63	-	36	-	-	126	-	-	225	Wood & Wood Pro.
-	1,087	-	66	-	-	830	-	-	1,983	Pulp & Publications
226	37,892	-	437	-	-	2,832	-	-	41,386	Petro. Chemical
3,508	1,082	-	337	-	-	870	-	-	5,797	Non-Metallic
14,492	593	-	885	-	-	1,839	-	-	17,808	Iron & Steel
110	158	-	-	-	-	426	-	-	694	Non-ferrous
-	919	-	887	-	-	4,030	-	-	5,836	Fabricated Metal
3,107	729	-	1,017	-	-	178	-	3,337	8,369	Other Manufacturing
-	828	-	-	-	-	-	-	-	828	Other Energy
-	2,495	-	0	-	-	-	-	-	2,495	Construction
-	34,178	-	239	-	-	213	-	6	34,635	Transport
-	298	-	-	-	-	213	-	-	511	Rail
-	27,461	-	239	-	-	-	-	6	27,705	Land
-	4,119	-	-	-	-	-	-	-	4,119	Water
-	2,300	-	-	-	-	-	-	-	2,300	Air
626	7,469	-	8,636	-	-	4,181	1,299	256	22,467	Residential
-	2,109	-	2,657	-	-	7,171	116	47	12,100	Commercial
-	1,347	-	279	-	-	1,658	34	283	3,600	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

## 11. 에너지밸런스(2005)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	2,832	-	398	-	5,189	146,779	-	-	3,961	43,745
수입	73,897	1,102,251	22,341	-	-	-	-	-	-	229,255
(석유생산)	-	922,897	-	-	-	-	-	-	-	130,044
(석유수입)	-	179,354	-	-	-	-	-	-	-	21,669
수출	-	-262,647	-	-	-	-	-	-	-	-38,071
국제병커링	-	-55,632	-	-	-	-	-	-	-	-8,555
재고증감	1,506	9,518	103	-	-	-	-	-	-	2,146
연초재고	8,894	52,106	1,062	-	-	-	-	-	-	12,614
연말재고	-7,388	-42,588	-959	-	-	-	-	-	-	-10,468
통계오차	6,598	-32,425	789	-	-	-	-	-	-	1,157
1차에너지 공급	84,833	761,065	23,632	-	5,189	146,779	-	-	3,961	229,667
에너지전환	-50,206	-33,179	-23,350	16,963	-5,189	-146,779	332,413	1,652	-65	-58,125
발전	-50,206	-27,349	-8,359	-259	-5,189	-146,779	364,639	1,209	-65	-53,559
지역난방	-	-4,434	-685	-73	-	-	-	681	-	-982
가스제조	-	-1,397	-14,077	17,650	-	-	-	-	-	96
자가소비 및 손실	-	-	-229	-355	-	-	-32,226	-238	-	-3,680
최종에너지 소비	34,627	727,886	282	16,963	-	-	332,413	1,652	3,896	171,543
산업부문	32,617	391,713	282	4,434	-	-	166,813	-	3,222	95,578
농림어업	-	19,211	-	26	-	-	7,007	-	-	3,399
광업	-	521	-	-	-	-	1,317	-	-	187
제조업	32,617	356,800	282	4,408	-	-	158,489	-	3,222	89,632
음식·담배	50	4,862	-	250	-	-	7,473	-	-	1,686
섬유·의복	-	6,540	-	379	-	-	13,019	-	-	2,538
목재·나무	-	334	-	8	-	-	1,499	-	-	189
펄프·인쇄	-	6,282	-	72	-	-	9,681	-	-	1,888
석유·화학	337	308,691	-	429	-	-	33,994	-	-	42,997
비금속	4,813	7,036	-	339	-	-	9,829	-	-	5,477
1차금속	22,029	4,166	282	926	-	-	23,013	-	-	18,397
비철금속	163	982	-	-	-	-	5,115	-	-	687
조립금속	-	4,882	-	903	-	-	52,727	-	-	6,180
기타제조	5,225	6,782	-	1,102	-	-	2,138	-	3,222	8,649
기타에너지	-	6,243	-	-	-	-	-	-	-	945
건설업	-	15,181	-	0	-	-	-	-	-	2,360
수송부문	-	255,124	-	323	-	-	2,601	-	13	35,534
철도운수	-	1,922	-	-	-	-	2,601	-	-	505
육상운수	-	206,549	-	323	-	-	-	-	13	28,119
수상운수	-	26,273	-	-	-	-	-	-	-	4,091
항공운수	-	20,380	-	-	-	-	-	-	-	2,819
가정부문	2,010	44,671	-	9,070	-	-	50,873	1,466	89	22,147
상업부문	-	26,292	-	2,838	-	-	91,375	143	34	14,189
공공부문	-	10,086	-	298	-	-	20,751	42	538	4,068

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2005)

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,274	-	518	-	1,297	36,695	-	-	3,961	43,745	Domestic Production
48,498	151,713	29,044	-	-	-	-	-	-	229,255	Imports
-	130,044	-	-	-	-	-	-	-	130,044	(Petroleum Products)
-	21,669	-	-	-	-	-	-	-	21,669	(Petroleum Imports)
-	-38,071	-	-	-	-	-	-	-	-38,071	Exports
-	-8,555	-	-	-	-	-	-	-	-8,555	Int'l Bunkers
696	1,316	134	-	-	-	-	-	-	2,146	Stock Change(+/-)
4,103	7,130	1,381	-	-	-	-	-	-	12,614	Former Stock
-3,407	-5,814	-1,247	-	-	-	-	-	-	-10,468	Ending Stock
4,327	-4,194	1,025	-	-	-	-	-	-	1,159	Statistical Difference
54,795	102,197	30,722	-	1,297	36,695	-	-	3,961	229,667	Primary Supply
-32,642	-5,121	-30,355	17,811	-1,297	-36,695	28,588	1,652	-65	-58,125	Transformation
-32,642	-4,290	-10,866	-272	-1,297	-36,695	31,359	1,209	-65	-53,559	Electric Generation
-	-696	-890	-77	-	-	-	681	-	-982	District Heating
-	-136	-18,300	18,532	-	-	-	-	-	96	Gas Manufacturing
-	-	-298	-373	-	-	-2,771	-238	-	-3,680	Own Use & Loss
22,154	97,076	366	17,811	-	-	28,588	1,652	3,896	171,543	Final Consumption
21,242	51,746	366	4,656	-	-	14,346	-	3,222	95,578	Industry
-	2,769	-	27	-	-	603	-	-	3,399	Agri. Fishery
-	74	-	-	-	-	113	-	-	187	Mining
21,242	46,544	366	4,628	-	-	13,630	-	3,222	89,632	Manufacturing
33	747	-	262	-	-	643	-	-	1,686	Food Tobacco
-	1,020	-	398	-	-	1,120	-	-	2,538	Textile & Apparel
-	51	-	9	-	-	129	-	-	189	Wood & Wood Pro.
-	980	-	75	-	-	833	-	-	1,888	Pulp & Publications
223	39,400	-	450	-	-	2,923	-	-	42,997	Petro. Chemical
3,175	1,100	-	356	-	-	845	-	-	5,477	Non-Metallic
14,462	617	366	972	-	-	1,979	-	-	18,397	Iron & Steel
108	140	-	-	-	-	440	-	-	687	Non-ferrous
-	698	-	948	-	-	4,535	-	-	6,180	Fabricated Metal
3,242	845	-	1,157	-	-	184	-	3,222	8,649	Other Manufacturing
-	945	-	-	-	-	-	-	-	945	Other Energy
-	2,360	-	0	-	-	-	-	-	2,360	Construction
-	34,958	-	339	-	-	224	-	13	35,534	Transport
-	281	-	-	-	-	224	-	-	505	Rail
-	27,766	-	339	-	-	-	-	13	28,119	Land
-	4,091	-	-	-	-	-	-	-	4,091	Water
-	2,819	-	-	-	-	-	-	-	2,819	Air
912	5,781	-	9,524	-	-	4,375	1,466	89	22,147	Residential
-	3,174	-	2,979	-	-	7,858	143	34	14,189	Commercial
-	1,417	-	313	-	-	1,785	42	538	4,095	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

## 11. 에너지밸런스(2006)

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	2,824	-	355	-	5,219	148,749	-	-	4,358	44,582
수입	76,001	1,141,543	25,222	-	-	-	-	-	-	239,683
(석유생산)	-	949,983	-	-	-	-	-	-	-	133,760
(석유수입)	-	191,560	-	-	-	-	-	-	-	23,280
수출	-	-289,070	-	-	-	-	-	-	-	-41,810
국제병커링	-	-53,849	-	-	-	-	-	-	-	-8,270
재고증감	1,837	-4,109	-977	-	-	-	-	-	-	-1,056
연초재고	7,388	42,663	959	-	-	-	-	-	-	10,479
연말재고	-5,551	-46,773	-1,936	-	-	-	-	-	-	-11,535
통계오차	7,108	-29,032	19	-	-	-	-	-	-	947
1차에너지 공급	87,770	765,483	24,619	-	5,219	148,749	-	-	4,358	234,062
에너지전환	-52,555	-31,537	-24,051	17,504	-5,219	-148,749	348,719	1,549	-266	-59,189
발전	-52,555	-27,174	-9,292	-19	-5,219	-148,749	381,181	1,059	-266	-55,466
지역난방	-	-3,533	-619	-91	-	-	-	745	-	-709
가스제조	-	-830	-13,957	17,092	-	-	-	-	-	-278
자가소비 및 손실	-	-	-183	523	-	-	-32,461	-256	-	-2,737
최종에너지 소비	35,215	733,947	567	17,504	-	-	348,719	1,549	4,092	174,873
산업부문	32,888	403,696	567	4,616	-	-	174,661	-	3,459	98,577
농림어업	-	18,032	-	26	-	-	7,296	-	-	3,258
광업	-	627	-	-	-	-	1,393	-	-	211
제조업	32,888	367,967	567	4,590	-	-	165,972	-	3,459	92,451
음식·담배	46	4,326	-	241	-	-	7,636	-	-	1,605
섬유·의복	-	4,936	-	367	-	-	12,243	-	-	2,207
목재·나무	-	264	-	15	-	-	1,505	-	-	185
펄프·인쇄	-	5,599	-	87	-	-	9,776	-	-	1,805
석유·화학	335	323,693	-	379	-	-	34,937	-	-	44,893
비금속	4,738	6,890	-	488	-	-	10,319	-	-	5,613
1차금속	23,738	3,744	567	983	-	-	24,380	-	-	19,897
비철금속	166	955	-	-	-	-	5,277	-	-	701
조립금속	-	4,370	-	902	-	-	57,694	-	-	6,525
기타제조	3,863	8,116	-	1,127	-	-	2,204	-	3,459	8,256
기타에너지	-	5,073	-	-	-	-	-	-	-	763
건설업	-	17,070	-	0	-	-	-	-	-	2,657
수송부문	-	261,104	-	452	-	-	2,534	-	53	36,522
철도운수	-	1,751	-	-	-	-	2,534	-	-	474
육상운수	-	208,963	-	452	-	-	-	-	53	28,583
수상운수	-	28,497	-	-	-	-	-	-	-	4,437
항공운수	-	21,892	-	-	-	-	-	-	-	3,028
가정부문	2,327	35,225	-	9,224	-	-	52,522	1,367	79	21,237
상업부문	-	24,836	-	3,021	-	-	97,277	140	37	14,684
공공부문	-	9,086	-	190	-	-	21,725	42	464	3,836

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



## 11. Energy Balance(2006)

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,271	-	461	-	1,305	37,187	-	-	4,358	44,582	Domestic Production
49,854	157,041	32,788	-	-	-	-	-	-	239,683	Imports
-	133,760	-	-	-	-	-	-	-	133,760	(Petroleum Products)
-	23,280	-	-	-	-	-	-	-	23,280	(Petroleum Imports)
-	-41,810	-	-	-	-	-	-	-	-41,810	Exports
-	-8,270	-	-	-	-	-	-	-	-8,270	Int'l Bunkers
836	-622	-1,270	-	-	-	-	-	-	-1,056	Stock Change(+/-)
3,407	5,826	1,247	-	-	-	-	-	-	10,479	Former Stock
-2,571	-6,447	-2,517	-	-	-	-	-	-	-11,535	Ending Stock
4,692	-3,770	25	-	-	-	-	-	-	947	Statistical Difference
56,652	102,555	32,004	-	1,305	37,187	-	-	4,358	234,062	Primary Supply
-34,192	-4,890	-31,267	18,379	-1,305	-37,187	29,990	1,549	-266	-59,189	Transformation
-34,192	-4,256	-12,808	-20	-1,305	-37,187	32,782	1,059	-266	-55,466	Electric Generation
-	-554	-805	-96	-	-	-	745	-	-709	District Heating
-	-81	-18,144	17,947	-	-	-	-	-	-278	Gas Manufacturing
-	-	-238	549	-	-	-2,792	-256	-	-2,737	Own Use & Loss
22,461	97,665	738	18,379	-	-	29,990	1,549	4,092	174,873	Final Consumption
21,398	53,114	738	4,847	-	-	15,021	-	3,459	98,577	Industry
-	2,603	-	28	-	-	627	-	-	3,258	Agri. Fishery
-	91	-	-	-	-	120	-	-	211	Mining
21,398	47,763	738	4,819	-	-	14,274	-	3,459	92,451	Manufacturing
31	665	-	253	-	-	657	-	-	1,605	Food Tobacco
-	768	-	386	-	-	1,053	-	-	2,207	Textile & Apparel
-	40	-	16	-	-	129	-	-	185	Wood & Wood Pro.
-	872	-	92	-	-	841	-	-	1,805	Pulp & Publications
221	41,269	-	398	-	-	3,005	-	-	44,893	Petro. Chemical
3,127	1,086	-	513	-	-	887	-	-	5,613	Non-Metallic
15,484	547	738	1,032	-	-	2,097	-	-	19,897	Iron & Steel
110	138	-	-	-	-	454	-	-	701	Non-ferrous
-	616	-	947	-	-	4,962	-	-	6,525	Fabricated Metal
2,425	999	-	1,184	-	-	190	-	3,459	8,256	Other Manufacturing
-	763	-	-	-	-	-	-	-	763	Other Energy
-	2,657	-	0	-	-	-	-	-	2,657	Construction
-	35,776	-	475	-	-	218	-	53	36,522	Transport
-	256	-	-	-	-	218	-	-	474	Rail
-	28,054	-	475	-	-	-	-	53	28,583	Land
-	4,437	-	-	-	-	-	-	-	4,437	Water
-	3,028	-	-	-	-	-	-	-	3,028	Air
1,063	4,526	-	9,685	-	-	4,517	1,367	79	21,237	Residential
-	2,970	-	3,173	-	-	8,366	140	37	14,684	Commercial
-	1,279	-	199	-	-	1,868	42	464	3,853	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2007)

※ 제5차 에너지열량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	2,886	-	271	-	5,042	142,937	-	-	4,828	38,338
수입	84,799	1,165,028	25,568	-	-	-	-	-	-	246,306
(석유생산)	-	955,898	-	-	-	-	-	-	-	133,362
(석유수입)	-	209,130	-	-	-	-	-	-	-	25,469
수출	-	-292,072	-	-	-	-	-	-	-	-41,801
국제병커링	-	-50,543	-	-	-	-	-	-	-	-7,738
재고증감	1,320	2,329	837	-	-	-	-	-	-	1,998
연초재고	5,551	47,038	1,936	-	-	-	-	-	-	11,652
연말재고	-4,231	-44,708	-1,099	-	-	-	-	-	-	-9,654
통계오차	5,123	-29,863	-160	-	-	-	-	-	-	-604
1차에너지 공급	94,127	794,879	26,516	-	5,042	142,937	-	-	4,828	236,486
에너지전환	-57,936	-32,159	-26,118	17,967	-5,042	-142,937	368,605	1,576	-337	-54,471
발전	-57,936	-28,176	-10,897	-26	-5,042	-142,937	403,124	1,104	-337	-50,589
지역난방	-	-3,213	-631	-198	-	-	-	744	-	-791
가스제조	-	-770	-14,449	17,786	-	-	-	-	-	-94
자가소비 및 손실	-	-	-141	404	-	-	-34,519	-272	-	-2,996
최종에너지 소비	36,191	762,720	398	17,967	-	-	368,605	1,576	4,491	182,015
산업부문	34,100	429,531	398	4,952	-	-	186,252	-	3,699	104,866
농림어업	-	17,802	-	2	-	-	7,795	-	-	3,214
광업	-	550	-	-	-	-	1,484	-	-	206
제조업	28,951	394,535	398	4,951	-	-	176,973	-	-	91,809
음식·담배	49	3,713	-	391	-	-	7,822	-	-	1,686
섬유·의복	-	4,436	-	304	-	-	12,017	-	-	2,044
목재·나무	-	237	-	37	-	-	1,558	-	-	209
펄프·인쇄	-	4,914	-	122	-	-	9,802	-	-	1,737
석유·화학	376	352,301	-	720	-	-	36,568	-	-	49,221
비금속	5,051	6,708	-	446	-	-	11,105	-	-	5,576
1차금속	21,519	3,375	398	1,156	-	-	27,241	-	-	19,638
비철금속	167	862	-	158	-	-	5,591	-	-	873
조립금속	-	4,208	-	1,059	-	-	62,983	-	-	7,125
기타제조	1,788	8,503	-	559	-	-	2,286	-	-	2,913
기타에너지	-	5,278	-	-	-	-	-	-	-	788
건설업	-	16,645	-	0	-	-	-	-	-	2,565
수송부문	-	268,379	-	583	-	-	2,433	-	96	37,059
철도운수	-	1,607	-	-	-	-	2,433	-	-	441
육상운수	-	216,460	-	583	-	-	-	-	96	29,186
수상운수	-	27,331	-	-	-	-	-	-	-	4,235
항공운수	-	22,981	-	-	-	-	-	-	-	3,197
가정부문	2,091	32,619	-	9,216	-	-	54,174	1,391	69	21,016
상업부문	-	23,108	-	2,946	-	-	102,957	142	39	14,925
공공부문	-	9,082	-	270	-	-	22,790	43	588	4,150

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2007)

※ Based on the 5th Calorific Value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,342	-	353	-	1,084	30,731	-	-	4,828	38,338	Domestic Production
54,237	158,831	33,239	-	-	-	-	-	-	246,306	Imports
-	133,362	-	-	-	-	-	-	-	133,362	(Petroleum Products)
-	25,469	-	-	-	-	-	-	-	25,469	(Petroleum Imports)
-	-41,801	-	-	-	-	-	-	-	-41,801	Exports
-	-7,738	-	-	-	-	-	-	-	-7,738	Int'l Bunkers
654	256	1,088	-	-	-	-	-	-	1,998	Stock Change(+/-)
2,674	6,460	2,517	-	-	-	-	-	-	11,652	Former Stock
-2,020	-6,204	-1,429	-	-	-	-	-	-	-9,654	Ending Stock
3,421	-3,816	-208	-	-	-	-	-	-	-604	Statistical Difference
59,653	105,718	34,471	-	1,084	30,731	-	-	4,828	236,486	Primary Supply
-35,597	-4,999	-33,953	18,955	-1,084	-30,731	31,700	1,576	-337	-54,471	Transformation
-35,597	-4,419	-14,167	-27	-1,084	-30,731	34,669	1,104	-337	-50,589	Electric Generation
-	-505	-821	-209	-	-	-	744	-	-791	District Heating
-	-75	-18,783	18,764	-	-	-	-	-	-94	Gas Manufacturing
-	-	-183	427	-	-	-2,969	-272	-	-2,996	Own Use & Loss
24,056	100,720	518	18,955	-	-	31,700	1,576	4,491	182,015	Final Consumption
23,043	56,364	518	5,225	-	-	16,018	-	3,699	104,866	Industry
-	2,542	-	2	-	-	670	-	-	3,214	Agri. Fishery
-	79	-	-	-	-	128	-	-	206	Mining
19,671	51,178	518	5,223	-	-	15,220	-	-	91,809	Manufacturing
31	571	-	412	-	-	673	-	-	1,686	Food Tobacco
-	690	-	320	-	-	1,033	-	-	2,044	Textile & Apparel
-	35	-	39	-	-	134	-	-	209	Wood & Wood Pro.
-	765	-	129	-	-	843	-	-	1,737	Pulp & Publications
233	45,083	-	760	-	-	3,145	-	-	49,221	Petro. Chemical
3,132	1,019	-	470	-	-	955	-	-	5,576	Non-Metallic
15,063	495	518	1,219	-	-	2,343	-	-	19,638	Iron & Steel
104	122	-	167	-	-	481	-	-	873	Non-ferrous
-	592	-	1,117	-	-	5,417	-	-	7,125	Fabricated Metal
1,109	1,018	-	589	-	-	197	-	-	2,913	Other Manufacturing
-	788	-	-	-	-	-	-	-	788	Other Energy
-	2,565	-	0	-	-	-	-	-	2,565	Construction
-	36,139	-	615	-	-	209	-	96	37,059	Transport
-	231	-	-	-	-	209	-	-	441	Rail
-	28,475	-	615	-	-	-	-	96	29,186	Land
-	4,235	-	-	-	-	-	-	-	4,235	Water
-	3,197	-	-	-	-	-	-	-	3,197	Air
1,014	4,161	-	9,723	-	-	4,659	1,391	69	21,016	Residential
-	2,781	-	3,108	-	-	8,854	142	39	14,925	Commercial
-	1,274	-	285	-	-	1,960	43	588	4,150	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2008)

※ 제5차 에너지열량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	2,773	-	181	-	5,563	150,958	-	-	5,198	40,376
수입	96,425	1,163,363	27,259	-	-	-	-	-	-	254,887
(석유생산)	-	938,749	-	-	-	-	-	-	-	130,376
(석유수입)	-	224,614	-	-	-	-	-	-	-	27,409
수출	-	-333,764	-	-	-	-	-	-	-	-47,586
국제병커링	-	-50,610	-	-	-	-	-	-	-	-7,754
재고증감	1,434	4,696	-1,474	-	-	-	-	-	-	-590
연초재고	4,231	44,708	1,084	-	-	-	-	-	-	9,633
연말재고	-2,797	-40,012	-2,558	-	-	-	-	-	-	-10,223
통계오차	3,628	-23,295	1,473	-	-	-	-	-	-	1,662
1차에너지 공급	104,260	760,390	27,439	-	5,563	150,958	-	-	5,198	240,994
에너지전환	-65,330	-20,358	-27,005	18,734	-5,563	-150,958	385,070	1,668	-451	-57,940
발전	-65,330	-15,765	-10,914	-168	-5,563	-150,958	422,355	1,019	-451	-53,815
지역난방	-	-2,385	-603	-335	-	-	-	1,243	-	-269
가스제조	-	-2,208	-15,316	18,921	-	-	-	-	-	-165
자가소비 및 손실	-	-	-173	317	-	-	-37,285	-595	-	-3,692
최종에너지 소비	38,930	740,032	434	18,734	-	-	385,070	1,668	4,747	183,054
산업부문	36,641	421,209	434	5,624	-	-	194,630	-	3,912	106,902
농림어업	-	14,942	-	6	-	-	8,389	-	-	2,860
광업	-	496	-	-	-	-	1,446	-	-	195
제조업	31,222	390,200	434	5,618	-	-	184,795	-	-	93,996
음식·담배	46	2,653	-	458	-	-	7,786	-	-	1,589
섬유·의복	-	3,409	-	424	-	-	11,717	-	-	1,983
목재·나무	-	201	-	42	-	-	1,585	-	-	210
펄프·인쇄	-	3,852	-	183	-	-	9,791	-	-	1,634
석유·화학	320	350,848	-	1,097	-	-	38,990	-	-	49,442
비금속	5,236	6,235	-	395	-	-	11,408	-	-	5,598
1차금속	23,568	2,957	434	1,184	-	-	31,733	-	-	21,476
비철금속	187	731	-	176	-	-	2,109	-	-	587
조립금속	-	4,475	-	1,234	-	-	67,376	-	-	7,728
기타제조	1,865	8,924	-	424	-	-	2,301	-	-	2,865
기타에너지	-	5,917	-	-	-	-	-	-	-	884
건설업	-	15,570	-	0	-	-	-	-	-	2,392
수송부문	-	258,028	-	736	-	-	2,277	-	178	35,756
철도운수	-	1,583	-	-	-	-	2,277	-	-	424
육상운수	-	210,185	-	736	-	-	-	-	178	28,515
수상운수	-	24,162	-	-	-	-	-	-	-	3,743
항공운수	-	22,097	-	-	-	-	-	-	-	3,074
가정부문	2,289	31,563	-	9,122	-	-	56,228	1,472	65	21,126
상업부문	-	20,828	-	2,975	-	-	108,229	150	35	15,160
공공부문	-	8,405	-	277	-	-	23,706	45	557	4,100

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2008)

※ Based on the 5th Calorific Value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,289	-	236	-	1,196	32,456	-	-	5,198	40,376	Domestic Production
61,665	157,786	35,436	-	-	-	-	-	-	254,887	Imports
-	130,376	-	-	-	-	-	-	-	130,376	(Petroleum Products)
-	27,409	-	-	-	-	-	-	-	27,409	(Petroleum Imports)
-	-47,586	-	-	-	-	-	-	-	-47,586	Exports
-	-7,754	-	-	-	-	-	-	-	-7,754	Int'l Bunkers
697	630	-1,916	-	-	-	-	-	-	-590	Stock Change(+/-)
2,020	6,204	1,409	-	-	-	-	-	-	9,633	Former Stock
-1,323	-5,575	-3,325	-	-	-	-	-	-	-10,223	Ending Stock
2,448	-2,702	1,915	-	-	-	-	-	-	1,662	Statistical Difference
66,100	100,373	35,671	-	1,196	32,456	-	-	5,198	240,994	Primary Supply
-40,221	-3,057	-35,107	19,765	-1,196	-32,456	33,116	1,668	-451	-57,940	Transformation
-40,221	-2,467	-14,188	-177	-1,196	-32,456	36,323	1,019	-451	-53,815	Electric Generation
-	-375	-784	-354	-	-	-	1,243	-	-269	District Heating
-	-215	-19,911	19,962	-	-	-	-	-	-165	Gas Manufacturing
-	-	-224	334	-	-	-3,207	-595	-	-3,692	Own Use & Loss
25,879	97,316	564	19,765	-	-	33,116	1,668	4,747	183,054	Final Consumption
24,791	54,964	564	5,933	-	-	16,738	-	3,912	106,902	Industry
-	2,133	-	6	-	-	721	-	-	2,860	Agri. Fishery
-	71	-	-	-	-	124	-	-	195	Mining
21,243	50,369	564	5,927	-	-	15,892	-	-	93,996	Manufacturing
29	407	-	484	-	-	670	-	-	1,589	Food Tobacco
-	528	-	448	-	-	1,008	-	-	1,983	Textile & Apparel
-	30	-	44	-	-	136	-	-	210	Wood & Wood Pro.
-	599	-	193	-	-	842	-	-	1,634	Pulp & Publications
198	44,734	-	1,157	-	-	3,353	-	-	49,442	Petro. Chemical
3,246	954	-	417	-	-	981	-	-	5,598	Non-Metallic
16,498	436	564	1,249	-	-	2,729	-	-	21,476	Iron & Steel
116	103	-	186	-	-	181	-	-	587	Non-ferrous
-	632	-	1,302	-	-	5,794	-	-	7,728	Fabricated Metal
1,156	1,063	-	447	-	-	198	-	-	2,865	Other Manufacturing
-	884	-	-	-	-	-	-	-	884	Other Energy
-	2,391	-	0	-	-	-	-	-	2,392	Construction
-	34,606	-	777	-	-	196	-	178	35,756	Transport
-	228	-	-	-	-	196	-	-	424	Rail
-	27,560	-	777	-	-	-	-	178	28,515	Land
-	3,743	-	-	-	-	-	-	-	3,743	Water
-	3,074	-	-	-	-	-	-	-	3,074	Air
1,088	4,041	-	9,624	-	-	4,836	1,472	65	21,126	Residential
-	2,528	-	3,139	-	-	9,308	150	35	15,160	Commercial
-	1,176	-	292	-	-	2,039	45	557	4,110	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

## 11. 에너지밸런스(2009)

※ 제5차 에너지일량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	2,519	-	383	-	5,641	147,771	-	-	5,480	40,133
수입	99,420	1,180,868	25,822	-	-	-	-	-	-	256,573
(석유생산)	-	912,654	-	-	-	-	-	-	-	126,280
(석유수입)	-	268,214	-	-	-	-	-	-	-	33,294
수출	-	-330,912	-	-	-	-	-	-	-	-46,897
국제병커링	-	-45,473	-	-	-	-	-	-	-	-6,985
재고증감	559	2,602	880	-	-	-	-	-	-	1,751
연초재고	2,797	40,183	2,607	-	-	-	-	-	-	10,313
연말재고	-2,238	-37,582	-1,728	-	-	-	-	-	-	-8,561
통계오차	5,877	-28,864	-1,002	-	-	-	-	-	-	-1,063
1차에너지 공급	108,375	778,222	26,083	-	5,641	147,771	-	-	5,480	243,500
에너지전환	-73,781	-26,568	-25,630	18,445	-5,641	-147,771	394,475	1,709	-613	-61,421
발전	-73,781	-21,813	-9,376	-151	-5,641	-147,771	433,604	1,014	-613	-56,638
지역난방	-	-2,306	-524	-810	-	-	-	1,284	-	-613
가스제조	-	-2,449	-15,510	19,239	-	-	-	-	-	-104
자가소비 및 손실	-	-	-220	166	-	-	-39,129	-589	-	-4,065
최종에너지 소비	34,594	751,654	453	18,445	-	-	394,475	1,709	4,867	182,080
산업부문	32,653	434,938	453	5,584	-	-	197,744	-	3,876	106,053
농림어업	-	15,720	-	4	-	-	9,145	-	-	3,036
광업	-	558	-	-	-	-	1,350	-	-	197
제조업	27,698	400,511	453	5,579	-	-	187,249	-	-	92,897
음식·담배	49	2,490	-	488	-	-	7,990	-	-	1,612
섬유·의복	-	2,865	-	423	-	-	11,543	-	-	1,881
목재·나무	-	216	-	60	-	-	1,589	-	-	231
펄프·인쇄	-	3,213	-	222	-	-	9,611	-	-	1,560
석유·화학	329	364,763	-	1,021	-	-	40,063	-	-	51,123
비금속	4,463	5,622	-	419	-	-	11,230	-	-	5,037
1차금속	20,734	1,824	453	1,175	-	-	28,329	-	-	19,048
비철금속	289	618	-	208	-	-	6,820	-	-	1,071
조립금속	-	3,767	-	1,094	-	-	67,894	-	-	7,520
기타제조	1,834	8,976	-	470	-	-	2,180	-	-	2,892
기타에너지	-	6,157	-	-	-	-	-	-	-	921
건설업	-	18,148	-	0	-	-	-	-	-	2,804
수송부문	-	258,098	-	910	-	-	2,174	-	254	35,892
철도운수	-	1,396	-	-	-	-	2,174	-	-	388
육상운수	-	212,432	-	910	-	-	-	-	254	29,005
수상운수	-	21,337	-	-	-	-	-	-	-	3,308
항공운수	-	22,932	-	-	-	-	-	-	-	3,191
가정부문	1,941	29,892	-	8,784	-	-	57,595	1,519	129	20,611
상업부문	-	19,702	-	2,905	-	-	112,098	137	33	15,218
공공부문	-	9,024	-	262	-	-	24,862	52	575	4,305

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2009)

※ Based on the 5th Calorific Value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
1,171	-	498	-	1,213	31,771	-	-	5,480	40,133	Domestic Production
63,431	159,574	33,568	-	-	-	-	-	-	256,573	Imports
-	126,280	-	-	-	-	-	-	-	126,280	(Petroleum Products)
-	33,294	-	-	-	-	-	-	-	33,294	(Petroleum Imports)
-	-46,897	-	-	-	-	-	-	-	-46,897	Exports
-	-6,985	-	-	-	-	-	-	-	-6,985	Int'l Bunkers
261	347	1,144	-	-	-	-	-	-	1,751	Stock Change(+/-)
1,323	5,600	3,390	-	-	-	-	-	-	10,313	Former Stock
-1,063	-5,253	-2,246	-	-	-	-	-	-	-8,561	Ending Stock
3,732	-3,492	-1,303	-	-	-	-	-	-	-1,063	Statistical Difference
68,595	102,534	33,908	-	1,213	31,771	-	-	5,480	243,500	Primary Supply
-45,580	-4,018	-33,319	19,459	-1,213	-31,771	33,925	1,709	-613	-61,421	Transformation
-45,580	-3,418	-12,189	-159	-1,213	-31,771	37,290	1,014	-613	-56,638	Electric Generation
-	-362	-681	-855	-	-	-	1,284	-	-613	District Heating
-	-239	-20,162	20,298	-	-	-	-	-	-104	Gas Manufacturing
-	-	-286	176	-	-	-3,365	-589	-	-4,065	Own Use & Loss
23,015	98,516	589	19,459	-	-	33,925	1,709	4,867	182,080	Final Consumption
22,075	56,616	589	5,891	-	-	17,006	-	3,876	106,053	Industry
-	2,245	-	4	-	-	786	-	-	3,036	Agri. Fishery
-	81	-	-	-	-	116	-	-	197	Mining
18,832	51,487	589	5,886	-	-	16,103	-	-	92,897	Manufacturing
30	380	-	515	-	-	687	-	-	1,612	Food Tobacco
-	442	-	447	-	-	993	-	-	1,881	Textile & Apparel
-	32	-	63	-	-	137	-	-	231	Wood & Wood Pro.
-	499	-	235	-	-	827	-	-	1,560	Pulp & Publications
204	46,397	-	1,077	-	-	3,445	-	-	51,123	Petro. Chemical
2,767	862	-	442	-	-	966	-	-	5,037	Non-Metallic
14,514	270	589	1,239	-	-	2,436	-	-	19,048	Iron & Steel
179	85	-	220	-	-	587	-	-	1,071	Non-ferrous
-	528	-	1,154	-	-	5,839	-	-	7,520	Fabricated Metal
1,137	1,072	-	496	-	-	187	-	-	2,892	Other Manufacturing
-	921	-	-	-	-	-	-	-	921	Other Energy
-	2,804	-	0	-	-	-	-	-	2,804	Construction
-	34,491	-	960	-	-	187	-	254	35,892	Transport
-	201	-	-	-	-	187	-	-	388	Rail
-	27,791	-	960	-	-	-	-	254	29,005	Land
-	3,308	-	-	-	-	-	-	-	3,308	Water
-	3,191	-	-	-	-	-	-	-	3,191	Air
940	3,802	-	9,267	-	-	4,953	1,519	129	20,611	Residential
-	2,343	-	3,065	-	-	9,640	137	33	15,218	Commercial
-	1,264	-	277	-	-	2,138	52	575	4,305	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2010)

※ 제5차 에너지일량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	2,084	-	415	-	6,472	148,596	-	-	6,064	40,912
수입	113,502	1,215,774	32,603	-	-	-	-	-	-	279,145
(석유생산)	-	938,926	-	-	-	-	-	-	-	129,958
(석유수입)	-	276,849	-	-	-	-	-	-	-	34,226
수출	-	-341,784	-	-	-	-	-	-	-	-48,365
국제병커링	-	-49,341	-	-	-	-	-	-	-	-7,569
재고증감	385	-3,830	-919	-	-	-	-	-	-	-1,536
연초재고	2,238	37,579	1,749	-	-	-	-	-	-	8,588
연말재고	-1,853	-41,410	-2,667	-	-	-	-	-	-	-10,124
통계오차	5,147	-26,789	984	-	-	-	-	-	-	1,479
1차에너지 공급	121,118	794,030	33,083	-	6,472	148,596	-	-	6,064	264,053
에너지전환	-79,078	-27,274	-32,323	19,982	-6,472	-148,596	434,163	1,939	-718	-68,653
발전	-79,078	-19,967	-13,937	-874	-6,472	-148,596	474,660	975	-718	-63,381
지역난방	-	-2,403	-651	-1,097	-	-	-	1,064	-	-1,318
가스제조	-	-4,904	-17,522	21,118	-	-	-	-	-	-976
자가소비 및 손실	-	-	-213	835	-	-	-40,497	-100	-	-2,977
최종에너지 소비	42,040	766,756	761	19,982	-	-	434,163	1,939	5,346	195,401
산업부문	40,181	442,511	761	6,947	-	-	223,171	-	4,215	116,590
농림어업	-	16,348	-	4	-	-	10,042	-	-	3,201
광업	-	662	-	0	-	-	1,683	-	-	240
제조업	34,488	408,260	761	6,942	-	-	211,447	-	-	102,553
음식·담배	50	2,281	-	567	-	-	8,737	-	-	1,726
섬유·의복	-	2,569	-	512	-	-	12,362	-	-	1,998
목재·나무	-	244	-	50	-	-	1,754	-	-	240
펄프·인쇄	-	2,551	-	288	-	-	10,019	-	-	1,561
석유·화학	364	371,440	189	1,563	-	-	43,213	-	-	53,160
비금속	4,564	6,045	-	432	-	-	11,620	-	-	5,213
1차금속	27,210	2,011	572	1,384	-	-	34,494	-	-	24,495
비철금속	374	648	-	195	-	-	7,340	-	-	1,158
조립금속	-	3,939	-	1,293	-	-	79,490	-	-	8,752
기타제조	1,926	10,122	-	658	-	-	2,418	-	-	3,292
기타에너지	-	6,410	-	-	-	-	-	-	-	958
건설업	-	17,241	-	0	-	-	-	-	-	2,652
수송부문	-	263,697	-	1,054	-	-	2,191	-	357	36,903
철도운수	-	1,355	-	-	-	-	2,191	-	-	383
육상운수	-	216,354	-	1,054	-	-	-	-	357	29,785
수상운수	-	21,174	-	-	-	-	-	-	-	3,282
항공운수	-	24,815	-	-	-	-	-	-	-	3,453
가정부문	1,859	31,248	-	8,878	-	-	61,194	1,744	72	21,334
상업부문	-	20,021	-	2,960	-	-	120,619	154	33	16,092
공공부문	-	9,279	-	144	-	-	26,988	41	669	4,482

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



## 11. Energy Balance(2010)

※ Based on the 5th Calorific Value

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
969	-	539	-	1,391	31,948	-	-	6,064	40,912	Domestic Production
72,576	164,184	42,384	-	-	-	-	-	-	279,145	Imports
-	129,958	-	-	-	-	-	-	-	129,958	(Petroleum Products)
-	34,226	-	-	-	-	-	-	-	34,226	(Petroleum Imports)
-	-48,365	-	-	-	-	-	-	-	-48,365	Exports
-	-7,569	-	-	-	-	-	-	-	-7,569	Int'l Bunkers
187	-529	-1,194	-	-	-	-	-	-	-1,536	Stock Change(+/-)
1,063	5,252	2,273	-	-	-	-	-	-	8,588	Former Stock
-876	-5,781	-3,467	-	-	-	-	-	-	-10,124	Ending Stock
3,409	-3,209	1,279	-	-	-	-	-	-	1,479	Statistical Difference
77,142	104,499	43,008	-	1,391	31,948	-	-	6,064	264,053	Primary Supply
-48,953	-3,980	-42,019	21,081	-1,391	-31,948	37,338	1,939	-718	-68,653	Transformation
-48,953	-3,125	-18,118	-922	-1,391	-31,948	40,821	975	-718	-63,381	Electric Generation
-	-378	-847	-1,157	-	-	-	1,064	-	-1,318	District Heating
-	-478	-22,778	22,280	-	-	-	-	-	-976	Gas Manufacturing
-	-	-276	881	-	-	-3,483	-100	-	-2,977	Own Use & Loss
28,189	100,519	989	21,081	-	-	37,338	1,939	5,346	195,401	Final Consumption
27,288	57,576	989	7,329	-	-	19,193	-	4,215	116,590	Industry
-	2,333	-	5	-	-	864	-	-	3,201	Agri. Fishery
-	95	-	0	-	-	145	-	-	240	Mining
23,560	52,496	989	7,324	-	-	18,184	-	-	102,553	Manufacturing
31	345	-	598	-	-	751	-	-	1,726	Food Tobacco
-	395	-	540	-	-	1,063	-	-	1,998	Textile & Apparel
-	36	-	53	-	-	151	-	-	240	Wood & Wood Pro.
-	395	-	304	-	-	862	-	-	1,561	Pulp & Publications
226	47,323	246	1,648	-	-	3,716	-	-	53,160	Petro. Chemical
2,830	928	-	456	-	-	999	-	-	5,213	Non-Metallic
19,047	279	743	1,460	-	-	2,966	-	-	24,495	Iron & Steel
232	89	-	206	-	-	631	-	-	1,158	Non-ferrous
-	551	-	1,364	-	-	6,836	-	-	8,752	Fabricated Metal
1,194	1,196	-	694	-	-	208	-	-	3,292	Other Manufacturing
-	958	-	-	-	-	-	-	-	958	Other Energy
-	2,652	-	0	-	-	-	-	-	2,652	Construction
-	35,246	-	1,112	-	-	188	-	357	36,903	Transport
-	195	-	-	-	-	188	-	-	383	Rail
-	28,316	-	1,112	-	-	-	-	357	29,785	Land
-	3,282	-	-	-	-	-	-	-	3,282	Water
-	3,453	-	-	-	-	-	-	-	3,453	Air
901	3,988	-	9,366	-	-	5,263	1,744	72	21,334	Residential
-	2,409	-	3,122	-	-	10,373	154	33	16,092	Commercial
-	1,299	-	152	-	-	2,321	41	669	4,482	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

## 11. 에너지밸런스(2011)

※ 제5차 에너지열량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	2,084	-	347	-	7,831	154,723	-	-	6,617	42,987
수입	124,934	1,281,517	36,685	-	-	-	-	-	-	300,906
(석유생산)	-	1,002,257	-	-	-	-	-	-	-	138,998
(석유수입)	-	279,260	-	-	-	-	-	-	-	34,357
수출	-	-408,338	-	-	-	-	-	-	-	-57,722
국제병커링	-	-49,131	-	-	-	-	-	-	-	-7,522
재고증감	133	624	-616	-	-	-	-	-	-	-795
연초재고	1,853	41,702	2,708	-	-	-	-	-	-	10,213
연말재고	-1,720	-41,078	-3,323	-	-	-	-	-	-	-10,863
통계오차	3,791	-22,234	-813	-	-	-	-	-	-	-857
1차에너지 공급	130,942	801,409	35,603	-	7,831	154,723	-	-	6,617	276,997
에너지전환	-82,052	-22,743	-34,640	21,679	-7,831	-154,723	455,070	1,976	-1,768	-71,758
발전	-82,052	-14,435	-14,412	-880	-7,831	-154,723	496,893	1,279	-1,768	-65,450
지역난방	-	-1,709	-1,760	-392	-	-	-	776	-	-2,194
가스제조	-	-6,599	-18,255	22,727	-	-	-	-	-	-396
자가소비 및 손실	-	-	-214	224	-	-	-41,823	-79	-	-3,717
최종에너지 소비	48,891	778,666	963	21,679	-	-	455,070	1,976	4,850	205,239
산업부문	47,069	459,610	963	7,946	-	-	242,204	-	2,900	125,332
농림어업	-	15,207	-	4	-	-	10,575	-	-	3,082
광업	-	653	-	0	-	-	1,928	-	-	261
제조업	39,477	427,143	963	7,942	-	-	229,701	-	-	111,565
음식·담배	49	1,486	-	626	-	-	9,268	-	-	1,706
섬유·의복	-	1,776	-	557	-	-	12,779	-	-	1,957
목재·나무	-	191	-	46	-	-	1,780	-	-	230
펄프·인쇄	0	1,440	-	382	-	-	10,301	-	-	1,510
석유·화학	379	395,811	359	2,092	-	-	48,142	-	-	57,852
비금속	5,046	5,712	-	449	-	-	11,822	-	-	5,501
1차금속	31,762	1,747	604	1,320	-	-	38,392	-	-	27,944
비철금속	335	586	-	243	-	-	7,834	-	-	1,220
조립금속	-	4,173	-	1,568	-	-	86,903	-	-	9,717
기타제조	1,906	9,178	-	658	-	-	2,480	-	-	3,195
기타에너지	-	5,044	-	-	-	-	-	-	-	734
건설업	-	16,608	-	1	-	-	-	-	-	2,551
수송부문	-	262,388	-	1,113	-	-	2,246	-	336	36,842
철도운수	-	1,232	-	-	-	-	2,246	-	-	371
육상운수	-	214,546	-	1,113	-	-	-	-	336	29,639
수상운수	-	21,692	-	-	-	-	-	-	-	3,366
항공운수	-	24,917	-	-	-	-	-	-	-	3,467
가정부문	1,822	29,362	-	9,597	-	-	61,564	1,774	70	21,871
상업부문	-	18,445	-	2,916	-	-	121,668	158	495	16,394
공공부문	-	8,861	-	106	-	-	27,387	44	1,048	4,800

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2011)

※ Based on the 5th Calorific Value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
969	-	451	-	1,684	33,265	-	-	6,617	42,987	Domestic Production
79,860	173,355	47,690	-	-	-	-	-	-	300,906	Imports
-	138,998	-	-	-	-	-	-	-	138,998	(Petroleum Products)
-	34,357	-	-	-	-	-	-	-	34,357	(Petroleum Imports)
-	-57,722	-	-	-	-	-	-	-	-57,722	Exports
-	-7,522	-	-	-	-	-	-	-	-7,522	Int'l Bunkers
65	-60	-800	-	-	-	-	-	-	-795	Stock Change(+/-)
876	5,818	3,520	-	-	-	-	-	-	10,213	Former Stock
-811	-5,732	-4,320	-	-	-	-	-	-	-10,863	Ending Stock
2,793	-2,592	-1,057	-	-	-	-	-	-	-857	Statistical Difference
83,687	105,459	46,284	-	1,684	33,265	-	-	6,617	276,997	Primary Supply
-50,827	-3,166	-45,032	22,871	-1,684	-33,265	39,136	1,976	-1,768	-71,758	Transformation
-50,827	-2,254	-18,735	-928	-1,684	-33,265	42,733	1,279	-1,768	-65,450	Electric Generation
-	-269	-2,288	-413	-	-	-	776	-	-2,194	District Heating
-	-642	-23,731	23,977	-	-	-	-	-	-396	Gas Manufacturing
-	-	-278	236	-	-	-3,597	-79	-	-3,717	Own Use & Loss
32,860	102,294	1,252	22,871	-	-	39,136	1,976	4,850	205,239	Final Consumption
31,989	59,977	1,252	8,383	-	-	20,830	-	2,900	125,332	Industry
-	2,168	-	4	-	-	909	-	-	3,082	Agri. Fishery
-	95	-	0	-	-	166	-	-	261	Mining
27,017	55,164	1,252	8,379	-	-	19,754	-	-	111,565	Manufacturing
30	218	-	660	-	-	797	-	-	1,706	Food Tobacco
-	270	-	588	-	-	1,099	-	-	1,957	Textile & Apparel
-	28	-	49	-	-	153	-	-	230	Wood & Wood Pro.
0	222	-	403	-	-	886	-	-	1,510	Pulp & Publications
235	50,803	467	2,207	-	-	4,140	-	-	57,852	Petro. Chemical
3,129	882	-	474	-	-	1,017	-	-	5,501	Non-Metallic
22,233	232	785	1,392	-	-	3,302	-	-	27,944	Iron & Steel
208	81	-	257	-	-	674	-	-	1,220	Non-ferrous
-	589	-	1,655	-	-	7,474	-	-	9,717	Fabricated Metal
1,182	1,105	-	695	-	-	213	-	-	3,195	Other Manufacturing
-	734	-	-	-	-	-	-	-	734	Other Energy
-	2,550	-	1	-	-	-	-	-	2,551	Construction
-	35,139	-	1,174	-	-	193	-	336	36,842	Transport
-	177	-	-	-	-	193	-	-	371	Rail
-	28,129	-	1,174	-	-	-	-	336	29,639	Land
-	3,366	-	-	-	-	-	-	-	3,366	Water
-	3,467	-	-	-	-	-	-	-	3,467	Air
871	3,736	-	10,125	-	-	5,295	1,774	70	21,871	Residential
-	2,201	-	3,076	-	-	10,463	158	495	16,394	Commercial
-	1,241	-	112	-	-	2,355	44	1,048	4,800	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2012)

※ 제6차 에너지열량환산 기준 적용

	석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	2,094	-	334	-	7,652	150,327	-	-	8,036	42,748
수입	122,700	1,344,307	36,184	-	-	-	-	-	-	303,396
(석유생산)	-	1,034,708	-	-	-	-	-	-	-	141,032
(석유수입)	-	309,599	-	-	-	-	-	-	-	37,635
수출	-	-440,897	-	-	-	-	-	-	-	-61,687
국제병커링	-	-49,091	-	-	-	-	-	-	-	-7,536
재고증감	-67	-7,286	1,483	-	-	-	-	-	-	955
연초재고	1,720	41,077	3,323	-	-	-	-	-	-	10,796
연말재고	-1,787	-48,363	-1,840	-	-	-	-	-	-	-9,863
통계오차	3,460	-21,866	484	-	-	-	-	-	-	449
1차에너지 공급	128,187	825,167	38,485	-	7,652	150,327	-	-	8,036	278,325
에너지전환	-80,933	-31,185	-37,599	23,776	-7,652	-150,327	466,593	2,102	-1,880	-71,356
발전	-80,933	-22,398	-15,796	-395	-7,652	-150,327	509,574	1,364	-1,880	-64,171
지역난방	-	-1,300	-2,046	-533	-	-	-	811	-	-2,616
가스제조	-	-7,486	-19,558	24,327	-	-	-	-	-	-931
자가소비 및 손실	-	-	-200	376	-	-	-42,981	-73	-	-3,638
최종에너지 소비	47,255	793,982	886	23,776	-	-	466,593	2,102	6,156	206,968
산업부문	45,422	477,950	886	9,135	-	-	249,136	-	4,028	126,368
농림어업	-	15,013	-	6	-	-	12,074	-	-	3,172
광업	-	633	-	0	-	-	1,616	-	-	228
제조업	38,736	446,759	886	9,129	-	-	235,445	-	-	112,866
음식·담배	50	1,163	-	672	-	-	9,793	-	-	1,740
섬유·의복	-	833	-	549	-	-	12,723	-	-	1,789
목재·나무	-	146	-	46	-	-	1,772	-	-	222
펄프·인쇄	-	635	-	418	-	-	10,051	-	-	1,394
석유·화학	383	419,674	250	2,080	-	-	50,540	-	-	58,838
비금속	4,625	4,132	-	553	-	-	10,928	-	-	4,996
1차금속	31,487	1,136	636	1,289	-	-	37,571	-	-	27,578
비철금속	351	425	-	231	-	-	8,105	-	-	1,212
조립금속	-	4,201	-	1,595	-	-	91,515	-	-	10,131
기타제조	1,840	9,019	-	1,697	-	-	2,448	-	-	4,181
기타에너지	-	5,395	-	-	-	-	-	-	-	785
건설업	-	15,545	-	1	-	-	-	-	-	2,395
수송부문	-	263,471	-	1,200	-	-	2,250	-	360	36,783
철도운수	-	1,231	-	-	-	-	2,250	-	-	370
육상운수	-	215,095	-	1,200	-	-	-	-	360	29,526
수상운수	-	20,254	-	-	-	-	-	-	-	3,154
항공운수	-	26,891	-	-	-	-	-	-	-	3,733
가정부문	1,833	25,677	-	9,720	-	-	63,536	1,878	94	21,649
상업부문	-	17,865	-	3,546	-	-	123,083	177	405	16,954
공공부문	-	9,020	-	174	-	-	28,588	47	1,270	5,214

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2012)

※ Based on the 6th calorific value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
942	-	436	-	1,615	31,719	-	-	8,036	42,748	Domestic Production
77,546	178,667	47,184	-	-	-	-	-	-	303,396	Imports
-	141,032	-	-	-	-	-	-	-	141,032	(Petroleum Products)
-	37,635	-	-	-	-	-	-	-	37,635	(Petroleum Imports)
-	-61,687	-	-	-	-	-	-	-	-61,687	Exports
-	-7,536	-	-	-	-	-	-	-	-7,536	Int'l Bunkers
-34	-967	1,934	-	-	-	-	-	-	933	Stock Change(+/-)
782	5,681	4,333	-	-	-	-	-	-	10,796	Former Stock
-816	-6,648	-2,399	-	-	-	-	-	-	-9,863	Ending Stock
2,182	-2,365	631	-	-	-	-	-	-	449	Statistical Difference
80,636	106,134	50,185	-	1,615	31,719	-	-	8,036	278,325	Primary Supply
-49,619	-4,451	-49,029	24,728	-1,615	-31,719	40,127	2,102	-1,880	-71,356	Transformation
-49,619	-3,517	-20,598	-411	-1,615	-31,719	43,823	1,364	-1,880	-64,171	Electric Generation
-	-206	-2,668	-554	-	-	-	811	-	-2,616	District Heating
-	-728	-25,503	25,300	-	-	-	-	-	-931	Gas Manufacturing
-	-	-260	392	-	-	-3,696	-73	-	-3,638	Own Use & Loss
31,017	101,683	1,156	24,728	-	-	40,127	2,102	6,156	206,968	Final Consumption
30,185	60,073	1,156	9,501	-	-	21,426	-	4,028	126,368	Industry
-	2,128	-	6	-	-	1,038	-	-	3,172	Agri. Fishery
-	89	-	0	-	-	139	-	-	228	Mining
26,507	55,462	1,156	9,494	-	-	20,248	-	-	112,866	Manufacturing
31	168	-	698	-	-	842	-	-	1,740	Food Tobacco
-	124	-	570	-	-	1,094	-	-	1,789	Textile & Apparel
-	21	-	48	-	-	152	-	-	222	Wood & Wood Pro.
-	95	-	435	-	-	864	-	-	1,394	Pulp & Publications
236	51,766	327	2,163	-	-	4,346	-	-	58,838	Petro. Chemical
2,849	632	-	576	-	-	940	-	-	4,996	Non-Metallic
22,041	136	829	1,341	-	-	3,231	-	-	27,578	Iron & Steel
216	59	-	240	-	-	697	-	-	1,212	Non-ferrous
-	602	-	1,659	-	-	7,870	-	-	10,131	Fabricated Metal
1,134	1,073	-	1,764	-	-	211	-	-	4,181	Other Manufacturing
-	785	-	-	-	-	-	-	-	785	Other Energy
-	2,394	-	1	-	-	-	-	-	2,395	Construction
-	34,982	-	1,248	-	-	194	-	360	36,783	Transport
-	176	-	-	-	-	194	-	-	370	Rail
-	27,918	-	1,248	-	-	-	-	360	29,526	Land
-	3,154	-	-	-	-	-	-	-	3,154	Water
-	3,733	-	-	-	-	-	-	-	3,733	Air
832	3,272	-	10,109	-	-	5,464	1,878	94	21,649	Residential
-	2,098	-	3,688	-	-	10,585	177	405	16,954	Commercial
-	1,258	-	181	-	-	2,459	47	1,270	5,214	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2013)

※ 제6차 에너지열량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	1,815	-	355	-	8,394	138,784	-	-	8,987	41,321
수입	124,702	1,331,186	39,876	-	-	-	-	-	-	307,932
(석유생산)	-	1,001,980	-	-	-	-	-	-	-	135,856
(석유수입)	-	329,205	-	-	-	-	-	-	-	40,847
수출	-	-429,291	-	-	-	-	-	-	-	-59,910
국제병커링	-	-51,499	-	-	-	-	-	-	-	-7,901
재고증감	330	-1,133	-397	-	-	-	-	-	-	-442
연초재고	1,787	48,111	1,840	-	-	-	-	-	-	9,837
연말재고	-1,457	-49,243	-2,237	-	-	-	-	-	-	-10,370
통계오차	2,737	-27,889	445	-	-	-	-	-	-	-1,376
1차에너지 공급	129,584	821,374	40,278	-	8,394	138,784	-	-	8,987	279,623
에너지전환	-81,421	-26,127	-39,655	23,890	-8,394	-138,784	474,849	2,070	-2,348	-71,261
발전	-81,421	-22,961	-17,756	-322	-8,394	-138,784	517,148	1,458	-2,348	-64,508
지역난방	-	-1,274	-2,108	-444	-	-	-	755	-	-2,659
가스제조	-	-1,892	-19,596	24,298	-	-	-	-	-	-433
자가소비 및 손실	-	-	-195	358	-	-	-42,299	-143	-	-3,661
최종에너지 소비	48,163	795,247	623	23,890	-	-	474,849	2,070	6,639	208,362
산업부문	46,246	481,961	623	9,510	-	-	256,841	-	5,017	128,920
농림어업	-	15,403	-	4	-	-	13,062	-	-	3,310
광업	-	711	-	-	-	-	1,478	-	-	228
제조업	39,386	449,933	623	9,506	-	-	242,301	-	-	114,132
음식·담배	49	766	-	659	-	-	10,018	-	-	1,686
섬유·의복	-	588	-	355	-	-	12,429	-	-	1,525
목재·나무	-	112	-	63	-	-	1,859	-	-	241
펄프·인쇄	-	395	-	414	-	-	10,170	-	-	1,363
석유·화학	392	426,936	22	3,057	-	-	52,112	-	-	60,456
비금속	4,647	3,380	-	603	-	-	11,236	-	-	4,971
1차금속	32,053	916	601	1,247	-	-	38,033	-	-	27,897
비철금속	393	326	-	276	-	-	8,434	-	-	1,300
조립금속	-	3,464	-	1,738	-	-	95,321	-	-	10,490
기타제조	1,851	7,785	-	1,093	-	-	2,689	-	-	3,441
기타에너지	-	5,266	-	-	-	-	-	-	-	761
건설업	-	15,914	-	0	-	-	-	-	-	2,457
수송부문	-	263,536	-	1,247	-	-	2,168	-	548	36,961
철도운수	-	1,087	-	0	-	-	2,168	-	-	342
육상운수	-	219,798	-	1,247	-	-	-	-	548	30,444
수상운수	-	15,696	-	0	-	-	-	-	-	2,433
항공운수	-	26,955	-	0	-	-	-	-	-	3,742
가정부문	1,917	24,521	-	9,457	-	-	63,970	1,841	155	21,293
상업부문	-	16,428	-	3,582	-	-	122,973	182	60	16,471
공공부문	-	8,800	-	94	-	-	28,896	46	859	4,716

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2013)

※ Based on the 6th calorific value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
817	-	463	-	1,771	29,283	-	-	8,987	41,321	Domestic Production
79,230	176,703	51,998	-	-	-	-	-	-	307,932	Imports
-	135,856	-	-	-	-	-	-	-	135,856	(Petroleum Products)
-	40,847	-	-	-	-	-	-	-	40,847	(Petroleum Imports)
-	-59,910	-	-	-	-	-	-	-	-59,910	Exports
-	-7,901	-	-	-	-	-	-	-	-7,901	Int'l Bunkers
144	-68	-518	-	-	-	-	-	-	-442	Stock Change(+/-)
816	6,622	2,399	-	-	-	-	-	-	9,837	Former Stock
-672	-6,781	-2,917	-	-	-	-	-	-	-10,370	Ending Stock
1,352	-3,309	580	-	-	-	-	-	-	-1,376	Statistical Difference
81,544	105,515	52,523	-	1,771	29,283	-	-	8,987	279,623	Primary Supply
-49,941	-3,992	-51,710	24,878	-1,771	-29,283	40,837	2,070	-2,348	-71,261	Transformation
-49,941	-3,608	-23,153	-335	-1,771	-29,283	44,475	1,458	-2,348	-64,508	Electric Generation
-	-201	-2,749	-463	-	-	-	755	-	-2,659	District Heating
-	-183	-25,554	25,303	-	-	-	-	-	-433	Gas Manufacturing
-	-	-254	373	-	-	-3,638	-143	-	-3,661	Own Use & Loss
31,603	101,522	813	24,878	-	-	40,837	2,070	6,639	208,362	Final Consumption
30,730	60,369	813	9,903	-	-	22,088	-	5,017	128,920	Industry
-	2,183	-	4	-	-	1,123	-	-	3,310	Agri. Fishery
-	101	-	-	-	-	127	-	-	228	Mining
26,954	55,628	813	9,899	-	-	20,838	-	-	114,132	Manufacturing
30	107	-	687	-	-	862	-	-	1,686	Food Tobacco
-	87	-	370	-	-	1,069	-	-	1,525	Textile & Apparel
-	16	-	65	-	-	160	-	-	241	Wood & Wood Pro.
-	58	-	431	-	-	875	-	-	1,363	Pulp & Publications
241	52,521	29	3,184	-	-	4,482	-	-	60,456	Petro. Chemical
2,863	514	-	628	-	-	966	-	-	4,971	Non-Metallic
22,437	106	784	1,298	-	-	3,271	-	-	27,897	Iron & Steel
242	45	-	288	-	-	725	-	-	1,300	Non-ferrous
-	483	-	1,810	-	-	8,198	-	-	10,490	Fabricated Metal
1,140	931	-	1,138	-	-	231	-	-	3,441	Other Manufacturing
-	761	-	-	-	-	-	-	-	761	Other Energy
-	2,456	-	0	-	-	-	-	-	2,457	Construction
-	34,928	-	1,299	-	-	186	-	548	36,961	Transport
-	156	-	0	-	-	186	-	-	342	Rail
-	28,597	-	1,299	-	-	-	-	548	30,444	Land
-	2,433	-	0	-	-	-	-	-	2,433	Water
-	3,742	-	0	-	-	-	-	-	3,742	Air
872	3,075	-	9,849	-	-	5,501	1,841	155	21,293	Residential
-	1,923	-	3,730	-	-	10,576	182	60	16,471	Commercial
-	1,227	-	98	-	-	2,485	46	859	4,716	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2014)

※ 제6차 에너지열량환산 기준 적용

	석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	1,748	-	247	-	7,820	156,407	-	-	10,956	46,716
수입	126,167	1,356,715	37,107	-	-	-	-	-	-	308,559
(석유생산)	-	1,030,092	-	-	-	-	-	-	-	138,955
(석유수입)	-	326,623	-	-	-	-	-	-	-	40,757
수출	-	-448,822	-	-	-	-	-	-	-	-62,593
국제병커링	-	-53,598	-	-	-	-	-	-	-	-8,202
재고증감	-153	-89	-997	-	-	-	-	-	-	-1,285
연초재고	1,457	49,272	2,237	-	-	-	-	-	-	10,374
연말재고	-1,610	-49,361	-3,234	-	-	-	-	-	-	-11,677
통계오차	5,562	-35,916	279	-	-	-	-	-	-	-772
1차에너지 공급	133,324	818,290	36,636	-	7,820	156,407	-	-	10,956	282,423
에너지전환	-80,271	-12,961	-36,046	22,091	-7,820	-156,407	477,592	1,528	-4,782	-71,976
발전	-80,271	-11,025	-16,068	-292	-7,820	-156,407	521,971	1,255	-4,782	-65,476
지역난방	-	-1,036	-1,654	-334	-	-	-	819	-	-1,852
가스제조	-	-899	-18,180	22,264	-	-	-	-	-	-572
자가소비 및 손실	-	-	-144	454	-	-	-44,379	-545	-	-4,076
최종에너지 소비	53,052	805,329	590	22,091	-	-	477,592	1,528	6,175	210,448
산업부문	51,423	491,847	590	8,677	-	-	264,618	-	4,526	132,897
농림어업	-	11,802	-	3	-	-	13,556	-	-	2,839
광업	-	510	-	-	-	-	1,571	-	-	208
제조업	45,172	464,646	590	8,672	-	-	249,490	-	-	119,570
음식·담배	50	631	-	671	-	-	10,105	-	-	1,686
섬유·의복	-	554	-	361	-	-	11,965	-	-	1,487
목재·나무	-	65	-	74	-	-	1,928	-	-	253
펄프·인쇄	-	250	-	309	-	-	9,980	-	-	1,216
석유·화학	420	442,206	22	2,852	-	-	54,992	-	-	62,307
비금속	4,916	3,006	-	543	-	-	11,643	-	-	5,052
1차금속	37,611	880	568	1,215	-	-	40,367	-	-	31,906
비철금속	419	247	-	246	-	-	8,424	-	-	1,272
조립금속	-	3,502	-	1,737	-	-	97,262	-	-	10,667
기타제조	1,757	8,300	-	665	-	-	2,824	-	-	2,995
기타에너지	-	5,004	-	-	-	-	-	-	-	729
건설업	-	14,890	-	1	-	-	-	-	-	2,287
수송부문	-	265,608	-	1,253	-	-	1,999	-	454	37,241
철도운수	-	910	-	-	-	-	1,999	-	-	302
육상운수	-	221,172	-	1,253	-	-	-	-	454	30,649
수상운수	-	14,923	-	-	-	-	-	-	-	2,319
항공운수	-	28,602	-	-	-	-	-	-	-	3,971
가정부문	1,629	23,667	-	8,748	-	-	62,675	1,376	213	19,813
상업부문	-	14,851	-	3,332	-	-	119,951	126	155	15,814
공공부문	-	9,356	-	81	-	-	28,348	27	827	4,683

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



## 11. Energy Balance(2014)

※ Based on the 6th calorific value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
787	-	322	-	1,650	33,002	-	-	10,956	46,716	Domestic Production
80,460	179,712	48,388	-	-	-	-	-	-	308,559	Imports
-	138,955	-	-	-	-	-	-	-	138,955	(Petroleum Products)
-	40,757	-	-	-	-	-	-	-	40,757	(Petroleum Imports)
-	-62,593	-	-	-	-	-	-	-	-62,593	Exports
-	-8,202	-	-	-	-	-	-	-	-8,202	Int'l Bunkers
-70	86	-1,300	-	-	-	-	-	-	-1,285	Stock Change(+/-)
672	6,785	2,917	-	-	-	-	-	-	10,374	Former Stock
-742	-6,717	-4,218	-	-	-	-	-	-	-11,677	Ending Stock
3,223	-4,359	364	-	-	-	-	-	-	-772	Statistical Difference
84,399	104,643	47,773	-	1,650	33,002	-	-	10,956	282,423	Primary Supply
-49,201	-1,979	-47,004	23,041	-1,650	-33,002	41,073	1,528	-4,782	-71,976	Transformation
-49,201	-1,729	-20,953	-305	-1,650	-33,002	44,889	1,255	-4,782	-65,476	Electric Generation
-	-164	-2,157	-349	-	-	-	819	-	-1,852	District Heating
-	-87	-23,706	23,221	-	-	-	-	-	-572	Gas Manufacturing
-	-	-188	473	-	-	-3,817	-545	-	-4,076	Own Use & Loss
35,198	102,664	769	23,041	-	-	41,073	1,528	6,175	210,448	Final Consumption
34,452	61,343	769	9,050	-	-	22,757	-	4,526	132,897	Industry
-	1,670	-	3	-	-	1,166	-	-	2,839	Agri. Fishery
-	73	-	-	-	-	135	-	-	208	Mining
30,985	57,315	769	9,045	-	-	21,456	-	-	119,570	Manufacturing
31	86	-	700	-	-	869	-	-	1,686	Food Tobacco
-	82	-	376	-	-	1,029	-	-	1,487	Textile & Apparel
-	9	-	77	-	-	166	-	-	253	Wood & Wood Pro.
-	35	-	323	-	-	858	-	-	1,216	Pulp & Publications
259	54,316	29	2,974	-	-	4,729	-	-	62,307	Petro. Chemical
3,028	457	-	566	-	-	1,001	-	-	5,052	Non-Metallic
26,328	100	740	1,267	-	-	3,472	-	-	31,906	Iron & Steel
258	33	-	257	-	-	724	-	-	1,272	Non-ferrous
-	492	-	1,811	-	-	8,365	-	-	10,667	Fabricated Metal
1,082	976	-	694	-	-	243	-	-	2,995	Other Manufacturing
-	729	-	-	-	-	-	-	-	729	Other Energy
-	2,286	-	1	-	-	-	-	-	2,287	Construction
-	35,308	-	1,307	-	-	172	-	454	37,241	Transport
-	130	-	-	-	-	172	-	-	302	Rail
-	28,888	-	1,307	-	-	-	-	454	30,649	Land
-	2,319	-	-	-	-	-	-	-	2,319	Water
-	3,971	-	-	-	-	-	-	-	3,971	Air
745	2,965	-	9,124	-	-	5,390	1,376	213	19,813	Residential
-	1,741	-	3,476	-	-	10,316	126	155	15,814	Commercial
-	1,306	-	85	-	-	2,438	27	827	4,683	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2015)

※ 제6차 에너지열량환산 기준 적용

	석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	1,764	-	144	-	5,796	164,762	-	-	12,839	49,809
수입	128,330	1,424,862	33,366	-	-	-	-	-	-	313,516
(석유생산)	-	1,116,986	-	-	-	-	-	-	-	150,185
(석유수입)	-	307,875	-	-	-	-	-	-	-	38,134
수출	-	-477,425	-	-	-	-	-	-	-	-66,279
국제병커링	-	-57,241	-	-	-	-	-	-	-	-8,742
재고증감	-188	-2,047	200	-	-	-	-	-	-	-144
연초재고	1,610	49,365	3,234	-	-	-	-	-	-	11,677
연말재고	-1,798	-51,412	-3,034	-	-	-	-	-	-	-11,821
통계오차	5,179	-35,052	-272	-	-	-	-	-	-	-1,239
1차에너지 공급	135,085	853,096	33,438	-	5,796	164,762	-	-	12,839	286,921
에너지전환	-82,479	-14,648	-32,785	20,785	-5,796	-164,762	483,655	1,967	-5,244	-71,532
발전	-82,479	-12,852	-14,252	-292	-5,796	-164,762	528,091	1,339	-5,244	-65,934
지역난방	-	-767	-1,538	-294	-	-	-	689	-	-1,744
가스제조	-	-1,028	-16,929	20,481	-	-	-	-	-	-815
자가소비 및 손실	-	-	-65	890	-	-	-44,436	-61	-	-3,039
최종에너지 소비	52,606	838,448	653	20,785	-	-	483,655	1,967	7,595	215,389
산업부문	51,133	500,991	653	7,329	-	-	265,633	-	5,743	133,416
농림어업	-	10,371	-	3	-	-	14,645	-	-	2,729
광업	-	469	-	-	-	-	1,631	-	-	207
제조업	44,193	473,752	653	7,325	-	-	249,357	-	-	118,353
음식·담배	53	600	-	658	-	-	10,485	-	-	1,702
섬유·의복	-	604	-	342	-	-	11,604	-	-	1,447
목재·나무	-	39	-	57	-	-	1,904	-	-	228
펄프·인쇄	-	241	-	220	-	-	9,933	-	-	1,118
석유·화학	418	451,279	-	1,555	-	-	55,660	-	-	61,778
비금속	4,650	3,537	-	512	-	-	12,023	-	-	4,972
1차금속	36,753	946	653	1,084	-	-	36,998	-	-	30,997
비철금속	526	234	-	326	-	-	9,193	-	-	1,486
조립금속	-	2,406	-	1,668	-	-	98,616	-	-	10,553
기타제조	1,794	8,302	-	903	-	-	2,941	-	-	3,259
기타에너지	-	5,563	-	-	-	-	-	-	-	813
건설업	-	16,399	-	1	-	-	-	-	-	2,517
수송부문	-	283,986	-	1,235	-	-	2,217	-	445	39,851
철도운수	-	829	-	-	-	-	2,217	-	-	309
육상운수	-	233,402	-	1,235	-	-	-	-	445	32,327
수상운수	-	18,998	-	-	-	-	-	-	-	2,946
항공운수	-	30,758	-	-	-	-	-	-	-	4,269
가정부문	1,473	24,657	-	8,813	-	-	63,794	1,758	243	20,538
상업부문	-	18,435	-	3,326	-	-	122,482	173	174	16,483
공공부문	-	10,380	-	82	-	-	29,529	36	990	5,101

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2015)

※ Based on the 6th calorific value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
794	-	188	-	1,223	34,765	-	-	12,839	49,809	Domestic Production
81,688	188,320	43,509	-	-	-	-	-	-	313,516	Imports
-	150,185	-	-	-	-	-	-	-	150,185	(Petroleum Products)
-	38,134	-	-	-	-	-	-	-	38,134	(Petroleum Imports)
-	-66,279	-	-	-	-	-	-	-	-66,279	Exports
-	-8,742	-	-	-	-	-	-	-	-8,742	Int'l Bunkers
-76	-328	261	-	-	-	-	-	-	-144	Stock Change(+/-)
742	6,718	4,218	-	-	-	-	-	-	11,677	Former Stock
-818	-7,046	-3,957	-	-	-	-	-	-	-11,821	Ending Stock
2,996	-3,880	-355	-	-	-	-	-	-	-1,239	Statistical Difference
85,401	109,090	43,603	-	1,223	34,765	-	-	12,839	286,921	Primary Supply
-50,552	-2,237	-42,751	21,678	-1,223	-34,765	41,594	1,967	-5,244	-71,532	Transformation
-50,552	-2,015	-18,585	-304	-1,223	-34,765	45,416	1,339	-5,244	-65,934	Electric Generation
-	-121	-2,005	-307	-	-	-	689	-	-1,744	District Heating
-	-100	-22,076	21,361	-	-	-	-	-	-815	Gas Manufacturing
-	-	-85	928	-	-	-3,822	-61	-	-3,039	Own Use & Loss
34,849	106,854	851	21,678	-	-	41,594	1,967	7,595	215,389	Final Consumption
34,177	62,156	851	7,644	-	-	22,844	-	5,743	133,416	Industry
-	1,467	-	3	-	-	1,259	-	-	2,729	Agri. Fishery
-	67	-	-	-	-	140	-	-	207	Mining
30,310	58,106	851	7,640	-	-	21,445	-	-	118,353	Manufacturing
33	81	-	687	-	-	902	-	-	1,702	Food Tobacco
-	92	-	357	-	-	998	-	-	1,447	Textile & Apparel
-	6	-	59	-	-	164	-	-	228	Wood & Wood Pro.
-	34	-	230	-	-	854	-	-	1,118	Pulp & Publications
257	55,112	-	1,622	-	-	4,787	-	-	61,778	Petro. Chemical
2,864	540	-	534	-	-	1,034	-	-	4,972	Non-Metallic
25,727	106	851	1,131	-	-	3,182	-	-	30,997	Iron & Steel
324	31	-	341	-	-	791	-	-	1,486	Non-ferrous
-	332	-	1,739	-	-	8,481	-	-	10,553	Fabricated Metal
1,105	960	-	942	-	-	253	-	-	3,259	Other Manufacturing
-	813	-	-	-	-	-	-	-	813	Other Energy
-	2,516	-	1	-	-	-	-	-	2,517	Construction
-	37,928	-	1,288	-	-	191	-	445	39,851	Transport
-	119	-	-	-	-	191	-	-	309	Rail
-	30,594	-	1,288	-	-	-	-	445	32,327	Land
-	2,946	-	-	-	-	-	-	-	2,946	Water
-	4,269	-	-	-	-	-	-	-	4,269	Air
672	3,186	-	9,192	-	-	5,486	1,758	243	20,538	Residential
-	2,134	-	3,469	-	-	10,533	173	174	16,483	Commercial
-	1,450	-	85	-	-	2,540	36	990	5,101	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2016)

※ 제6차 에너지열량환산 기준 적용

	석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	1,726	-	118	-	6,634	161,995	-	-	13,575	50,087
수입	127,892	1,492,220	33,453	-	-	-	-	-	-	321,918
(석유생산)	-	1,157,612	-	-	-	-	-	-	-	156,061
(석유수입)	-	334,608	-	-	-	-	-	-	-	40,923
수출	-	-487,716	-	-	-	-	-	-	-	-67,840
국제병커링	-	-62,494	-	-	-	-	-	-	-	-9,566
재고증감	-353	2,603	1,339	-	-	-	-	-	-	1,994
연초재고	1,798	52,765	3,034	-	-	-	-	-	-	12,017
연말재고	-2,151	-50,162	-1,695	-	-	-	-	-	-	-10,023
통계오차	45	-23,531	-5	-	-	-	-	-	-	-2,815
1차에너지 공급	129,309	921,082	34,906	-	6,634	161,995	-	-	13,575	293,778
에너지전환	-80,290	-21,774	-34,106	21,271	-6,634	-161,995	497,039	2,183	-6,402	-71,842
발전	-80,290	-19,307	-15,092	-280	-6,634	-161,995	540,441	1,367	-6,402	-66,294
지역난방	-	-1,251	-1,556	-253	-	-	-	830	-	-1,660
가스제조	-	-1,217	-17,384	21,770	-	-	-	-	-	-81
자가소비 및 손실	-	-	-74	34	-	-	-43,402	-14	-	-3,806
최종에너지 소비	49,019	899,308	801	21,271	-	-	497,039	2,183	7,173	221,936
산업부문	47,764	542,566	801	7,226	-	-	269,975	-	5,309	135,698
농림어업	-	9,843	-	3	-	-	15,397	-	-	2,719
광업	-	437	-	-	-	-	1,755	-	-	212
제조업	40,747	514,457	801	7,222	-	-	252,824	-	-	120,853
음식·담배	52	614	-	681	-	-	10,999	-	-	1,769
섬유·의복	-	549	-	310	-	-	11,426	-	-	1,389
목재·나무	-	33	-	28	-	-	1,918	-	-	199
펄프·인쇄	-	298	-	247	-	-	10,014	-	-	1,161
석유·화학	382	490,893	60	1,047	-	-	58,483	-	-	65,945
비금속	4,591	3,820	-	502	-	-	12,575	-	-	5,015
1차금속	33,460	730	741	1,142	-	-	35,159	-	-	28,683
비철금속	553	254	-	291	-	-	9,846	-	-	1,523
조립금속	-	2,620	-	1,627	-	-	99,313	-	-	10,594
기타제조	1,709	9,251	-	1,347	-	-	3,091	-	-	3,787
기타에너지	-	5,395	-	-	-	-	-	-	-	788
건설업	-	17,829	-	1	-	-	-	-	-	2,746
수송부문	-	300,486	-	1,217	-	-	2,689	-	443	42,271
철도운수	-	725	-	-	-	-	2,689	-	-	335
육상운수	-	244,623	-	1,217	-	-	-	-	443	33,926
수상운수	-	21,569	-	-	-	-	-	-	-	3,351
항공운수	-	33,569	-	-	-	-	-	-	-	4,659
가정부문	1,255	28,068	-	9,249	-	-	66,173	1,895	231	21,667
상업부문	-	17,934	-	3,494	-	-	127,435	238	160	17,055
공공부문	-	10,253	-	84	-	-	30,767	50	1,030	5,246

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2016)

※ Based on the 6th calorific value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
777	-	154	-	1,400	34,181	-	-	13,575	50,087	Domestic Production
81,311	196,984	43,623	-	-	-	-	-	-	321,918	Imports
-	156,061	-	-	-	-	-	-	-	156,061	(Petroleum Products)
-	40,923	-	-	-	-	-	-	-	40,923	(Petroleum Imports)
-	-67,840	-	-	-	-	-	-	-	-67,840	Exports
-	-9,566	-	-	-	-	-	-	-	-9,566	Int'l Bunkers
-158	406	1,747	-	-	-	-	-	-	1,994	Stock Change(+/-)
818	7,241	3,957	-	-	-	-	-	-	12,017	Former Stock
-977	-6,836	-2,210	-	-	-	-	-	-	-10,023	Ending Stock
-430	-2,379	-6	-	-	-	-	-	-	-2,815	Statistical Difference
81,499	117,605	45,518	-	1,400	34,181	-	-	13,575	293,778	Primary Supply
-49,158	-3,341	-44,474	22,186	-1,400	-34,181	42,745	2,183	-6,402	-71,842	Transformation
-49,158	-3,026	-19,680	-292	-1,400	-34,181	46,478	1,367	-6,402	-66,294	Electric Generation
-	-198	-2,029	-263	-	-	-	830	-	-1,660	District Heating
-	-118	-22,669	22,706	-	-	-	-	-	-81	Gas Manufacturing
-	-	-96	36	-	-	-3,733	-14	-	-3,806	Own Use & Loss
32,342	114,264	1,044	22,186	-	-	42,745	2,183	7,173	221,936	Final Consumption
31,770	66,820	1,044	7,537	-	-	23,218	-	5,309	135,698	Industry
-	1,392	-	3	-	-	1,324	-	-	2,719	Agri. Fishery
-	61	-	-	-	-	151	-	-	212	Mining
27,911	62,622	1,044	7,532	-	-	21,743	-	-	120,853	Manufacturing
32	80	-	711	-	-	946	-	-	1,769	Food Tobacco
-	83	-	323	-	-	983	-	-	1,389	Textile & Apparel
-	5	-	29	-	-	165	-	-	199	Wood & Wood Pro.
-	42	-	257	-	-	861	-	-	1,161	Pulp & Publications
236	59,510	78	1,092	-	-	5,030	-	-	65,945	Petro. Chemical
2,828	582	-	523	-	-	1,081	-	-	5,015	Non-Metallic
23,422	80	966	1,191	-	-	3,024	-	-	28,683	Iron & Steel
341	32	-	303	-	-	847	-	-	1,523	Non-ferrous
-	356	-	1,697	-	-	8,541	-	-	10,594	Fabricated Metal
1,053	1,064	-	1,405	-	-	266	-	-	3,787	Other Manufacturing
-	788	-	-	-	-	-	-	-	788	Other Energy
-	2,745	-	1	-	-	-	-	-	2,746	Construction
-	40,328	-	1,270	-	-	231	-	443	42,271	Transport
-	104	-	-	-	-	231	-	-	335	Rail
-	32,213	-	1,270	-	-	-	-	443	33,926	Land
-	3,351	-	-	-	-	-	-	-	3,351	Water
-	4,659	-	-	-	-	-	-	-	4,659	Air
571	3,632	-	9,647	-	-	5,691	1,895	231	21,667	Residential
-	2,052	-	3,645	-	-	10,959	238	160	17,055	Commercial
-	1,432	-	88	-	-	2,646	50	1,030	5,246	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2017)

※ 제7차 에너지일량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	1,485	-	261	-	6,995	148,427	-	-	15,848	49,996
수입	138,467	1,544,139	37,537	-	-	-	-	-	-	338,796
(석유생산)	-	1,229,652	-	-	-	-	-	-	-	165,559
(석유수입)	-	314,487	-	-	-	-	-	-	-	38,344
수출	-	-509,113	-	-	-	-	-	-	-	-70,966
국제병커링	-	-59,136	-	-	-	-	-	-	-	-9,028
재고증감	-290	-1,663	-585	-	-	-	-	-	-	-1,169
연초재고	2,151	50,205	1,723	-	-	-	-	-	-	10,124
연말재고	-2,441	-51,867	-2,308	-	-	-	-	-	-	-11,293
통계오차	88	-34,442	-814	-	-	-	-	-	-	-5,139
1차에너지 공급	139,750	939,785	36,398	-	6,995	148,427	-	-	15,848	302,490
에너지전환	-89,388	-10,472	-35,350	22,603	-6,995	-148,427	507,746	2,441	-7,209	-71,467
발전	-89,388	-8,060	-15,154	-326	-6,995	-148,427	553,530	1,494	-7,209	-65,388
지역난방	-	-1,184	-1,684	-398	-	-	-	953	-	-1,844
가스제조	-	-1,228	-18,390	23,327	-	-	-	-	-	-134
자가소비 및 손실	-	-	-122	0	-	-	-45,784	-5	-	-4,102
최종에너지 소비	50,363	929,313	1,049	22,603	-	-	507,746	2,441	8,638	231,023
산업부문	49,284	566,956	1,049	7,784	-	-	276,672	-	6,627	142,519
농림어업	-	9,173	-	3	-	-	15,981	-	-	2,676
광업	-	395	-	-	-	-	1,746	-	-	205
제조업	43,181	540,304	1,049	7,780	-	-	258,945	-	-	126,904
음식·담배	39	681	-	689	-	-	11,282	-	-	1,790
섬유·의복	-	693	-	278	-	-	11,261	-	-	1,347
목재·나무	-	29	-	28	-	-	1,925	-	-	199
펄프·인쇄	-	316	-	245	-	-	9,784	-	-	1,138
석유·화학	343	513,296	269	1,049	-	-	60,469	-	-	69,220
비금속	4,175	3,398	-	519	-	-	12,612	-	-	4,602
1차금속	36,290	838	780	1,203	-	-	35,524	-	-	30,696
비철금속	606	274	-	270	-	-	9,805	-	-	1,513
조립금속	-	2,470	-	1,608	-	-	102,310	-	-	10,791
기타제조	1,727	10,342	-	1,891	-	-	3,972	-	-	4,490
기타에너지	-	7,965	-	-	-	-	-	-	-	1,117
건설업	-	17,084	-	1	-	-	-	-	-	2,634
수송부문	-	305,910	-	1,218	-	-	2,864	-	428	43,183
철도운수	-	703	-	-	-	-	2,820	-	-	343
육상운수	-	247,747	-	1,218	-	-	45	-	428	34,487
수상운수	-	22,793	-	-	-	-	-	-	-	3,546
항공운수	-	34,668	-	-	-	-	-	-	-	4,806
가정부문	1,079	28,052	-	9,950	-	-	66,517	2,105	254	22,479
상업부문	-	17,890	-	3,576	-	-	130,371	280	163	17,381
공공부문	-	10,505	-	74	-	-	31,322	55	1,166	5,461

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2017)

※ Based on the 7th calorific value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
702	-	341	-	1,490	31,615	-	-	15,848	49,996	Domestic Production
85,869	203,904	49,023	-	-	-	-	-	-	338,796	Imports
-	165,559	-	-	-	-	-	-	-	165,559	(Petroleum Products)
-	38,344	-	-	-	-	-	-	-	38,344	(Petroleum Imports)
-	-70,966	-	-	-	-	-	-	-	-70,966	Exports
-	-9,028	-	-	-	-	-	-	-	-9,028	Int'l Bunkers
-135	-269	-764	-	-	-	-	-	-	-1,169	Stock Change(+/-)
1,026	6,849	2,250	-	-	-	-	-	-	10,124	Former Stock
-1,161	-7,118	-3,014	-	-	-	-	-	-	-11,293	Ending Stock
-259	-3,816	-1,064	-	-	-	-	-	-	-5,139	Statistical Difference
86,177	119,824	47,536	-	1,490	31,615	-	-	15,848	302,490	Primary Supply
-52,817	-1,535	-46,167	23,258	-1,490	-31,615	43,666	2,441	-7,209	-71,467	Transformation
-52,817	-1,227	-19,791	-335	-1,490	-31,615	47,604	1,494	-7,209	-65,388	Electric Generation
-	-187	-2,200	-409	-	-	-	953	-	-1,844	District Heating
-	-120	-24,017	24,003	-	-	-	-	-	-134	Gas Manufacturing
-	-	-159	0	-	-	-3,937	-5	-	-4,102	Own Use & Loss
33,360	118,289	1,370	23,258	-	-	43,666	2,441	8,638	231,023	Final Consumption
32,847	69,871	1,370	8,010	-	-	23,794	-	6,627	142,519	Industry
-	1,298	-	3	-	-	1,374	-	-	2,676	Agri. Fishery
-	55	-	-	-	-	150	-	-	205	Mining
29,374	65,885	1,370	8,006	-	-	22,269	-	-	126,904	Manufacturing
23	88	-	709	-	-	970	-	-	1,790	Food Tobacco
-	93	-	286	-	-	968	-	-	1,347	Textile & Apparel
-	4	-	29	-	-	166	-	-	199	Wood & Wood Pro.
-	44	-	252	-	-	841	-	-	1,138	Pulp & Publications
203	62,386	351	1,080	-	-	5,200	-	-	69,220	Petro. Chemical
2,472	512	-	534	-	-	1,085	-	-	4,602	Non-Metallic
25,294	90	1,019	1,238	-	-	3,055	-	-	30,696	Iron & Steel
359	34	-	278	-	-	843	-	-	1,513	Non-ferrous
-	337	-	1,655	-	-	8,799	-	-	10,791	Fabricated Metal
1,023	1,181	-	1,946	-	-	342	-	-	4,490	Other Manufacturing
-	1,117	-	-	-	-	-	-	-	1,117	Other Energy
-	2,633	-	1	-	-	-	-	-	2,634	Construction
-	41,255	-	1,253	-	-	246	-	428	43,183	Transport
-	101	-	-	-	-	242	-	-	343	Rail
-	32,802	-	1,253	-	-	4	-	428	34,487	Land
-	3,546	-	-	-	-	-	-	-	3,546	Water
-	4,806	-	-	-	-	-	-	-	4,806	Air
513	3,648	-	10,238	-	-	5,720	2,105	254	22,479	Residential
-	2,045	-	3,680	-	-	11,212	280	163	17,381	Commercial
-	1,470	-	77	-	-	2,694	55	1,166	5,461	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

### 11. 에너지밸런스(2018)

※ 제7차 에너지일량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable	Total
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	1,200	-	234	-	7,270	133,505	-	-	17,119	47,977
수입	139,721	1,600,502	44,015	-	-	-	-	-	-	354,524
(석유생산)	-	1,258,874	-	-	-	-	-	-	-	169,009
(석유수입)	-	341,628	-	-	-	-	-	-	-	41,638
수출	-	-531,563	-	-	-	-	-	-	-	-74,066
국제병커링	-	-58,000	-	-	-	-	-	-	-	-8,835
재고증감	-148	-10,905	-1,972	-	-	-	-	-	-	-4,044
연초재고	2,441	51,867	2,309	-	-	-	-	-	-	11,294
연말재고	-2,589	-62,772	-4,281	-	-	-	-	-	-	-15,339
통계오차	278	-68,248	8	-	-	-	-	-	-	-7,998
1차에너지 공급	141,050	931,787	42,285	-	7,270	133,505	-	-	17,119	307,557
에너지전환	-91,756	-11,743	-40,725	24,275	-7,270	-133,505	526,149	2,682	-8,009	-74,189
발전	-91,756	-8,607	-18,507	-383	-7,270	-133,505	570,647	1,709	-8,009	-67,319
지역난방	-	-1,099	-2,255	-594	-	-	-	938	-	-2,792
가스제조	-	-2,037	-19,813	25,177	-	-	-	-	-	-167
자가소비 및 손실	-	-	-150	74	-	-	-44,497	35	-	-3,911
최종에너지 소비	49,295	920,044	1,560	24,275	-	-	526,149	2,682	9,110	233,368
산업부문	48,385	564,078	1,560	8,773	-	-	283,705	-	6,691	143,498
농림어업	-	8,747	-	3	-	-	17,126	-	-	2,712
광업	-	396	-	-	-	-	1,478	-	-	182
제조업	41,014	538,904	1,560	8,770	-	-	265,100	-	-	127,316
음식·담배	-	737	-	773	-	-	11,950	-	-	1,920
섬유·의복	-	455	-	240	-	-	10,835	-	-	1,242
목재·나무	-	25	-	51	-	-	1,875	-	-	218
펄프·인쇄	-	314	-	253	-	-	9,637	-	-	1,133
석유·화학	369	514,265	801	3,090	-	-	62,316	-	-	72,091
비금속	3,709	3,507	-	533	-	-	12,147	-	-	4,323
1차금속	34,619	619	759	1,204	-	-	34,852	-	-	29,426
비철금속	595	290	-	386	-	-	10,018	-	-	1,649
조립금속	-	2,105	-	1,917	-	-	106,666	-	-	11,430
기타제조	1,723	10,181	-	321	-	-	4,803	-	-	2,946
기타에너지	-	6,405	-	-	-	-	-	-	-	939
건설업	-	16,031	-	0	-	-	-	-	-	2,464
수송부문	-	302,267	-	1,203	-	-	3,080	-	683	42,969
철도운수	-	699	-	-	-	-	2,968	-	-	356
육상운수	-	244,885	-	1,203	-	-	112	-	683	34,404
수상운수	-	20,506	-	-	-	-	-	-	-	3,194
항공운수	-	36,177	-	-	-	-	-	-	-	5,015
가정부문	910	26,118	-	10,593	-	-	70,687	2,289	393	23,460
상업부문	-	17,358	-	3,608	-	-	136,306	332	147	17,874
공공부문	-	10,224	-	96	-	-	32,371	61	1,195	5,567

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



## 11. Energy Balance(2018)

※ Based on the 7th calorific value

석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수력 Hydro	원자력 Nuclear	전력 Electricity	열에너지 Heat	신재생 Renewable	합계 Total	
1,000 toe										
568	-	305	-	1,549	28,437	-	-	17,119	47,977	Domestic Production
86,393	210,647	57,484	-	-	-	-	-	-	354,524	Imports
-	169,009	-	-	-	-	-	-	-	169,009	(Petroleum Products)
-	41,638	-	-	-	-	-	-	-	41,638	(Petroleum Imports)
-	-74,066	-	-	-	-	-	-	-	-74,066	Exports
-	-8,835	-	-	-	-	-	-	-	-8,835	Int'l Bunkers
-74	-1,396	-2,575	-	-	-	-	-	-	-4,044	Stock Change(+/-)
1,161	7,118	3,015	-	-	-	-	-	-	11,294	Former Stock
-1,235	-8,514	-5,591	-	-	-	-	-	-	-15,339	Ending Stock
-180	-7,829	10	-	-	-	-	-	-	-7,998	Statistical Difference
86,707	118,521	55,224	-	1,549	28,437	-	-	17,119	307,557	Primary Supply
-54,227	-1,691	-53,187	24,979	-1,549	-28,437	45,249	2,682	-8,009	-74,189	Transformation
-54,227	-1,319	-24,170	-394	-1,549	-28,437	49,076	1,709	-8,009	-67,319	Electric Generation
-	-174	-2,946	-611	-	-	-	938	-	-2,792	District Heating
-	-198	-25,876	25,907	-	-	-	-	-	-167	Gas Manufacturing
-	-	-195	76	-	-	-3,827	35	-	-3,911	Own Use & Loss
32,480	116,831	2,038	24,979	-	-	45,249	2,682	9,110	233,368	Final Consumption
32,048	69,294	2,038	9,028	-	-	24,399	-	6,691	143,498	Industry
-	1,235	-	4	-	-	1,473	-	-	2,712	Agri. Fishery
-	55	-	-	-	-	127	-	-	182	Mining
27,915	65,540	2,038	9,024	-	-	22,799	-	-	127,316	Manufacturing
-	96	-	796	-	-	1,028	-	-	1,920	Food Tobacco
-	63	-	247	-	-	932	-	-	1,242	Textile & Apparel
-	4	-	53	-	-	161	-	-	218	Wood & Wood Pro.
-	44	-	260	-	-	829	-	-	1,133	Pulp & Publications
219	62,288	1,046	3,180	-	-	5,359	-	-	72,091	Petro. Chemical
2,196	534	-	549	-	-	1,045	-	-	4,323	Non-Metallic
24,129	68	992	1,239	-	-	2,997	-	-	29,426	Iron & Steel
352	38	-	397	-	-	862	-	-	1,649	Non-ferrous
-	284	-	1,973	-	-	9,173	-	-	11,430	Fabricated Metal
1,020	1,183	-	330	-	-	413	-	-	2,946	Other Manufacturing
-	939	-	-	-	-	-	-	-	939	Other Energy
-	2,464	-	0	-	-	-	-	-	2,464	Construction
-	40,782	-	1,238	-	-	265	-	683	42,969	Transport
-	100	-	-	-	-	255	-	-	356	Rail
-	32,473	-	1,238	-	-	10	-	683	34,404	Land
-	3,194	-	-	-	-	-	-	-	3,194	Water
-	5,015	-	-	-	-	-	-	-	5,015	Air
432	3,366	-	10,901	-	-	6,079	2,289	393	23,460	Residential
-	1,959	-	3,713	-	-	11,722	332	147	17,874	Commercial
-	1,429	-	99	-	-	2,784	61	1,195	5,567	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

## 11. 에너지밸런스(2019)

※ 제7차 에너지열량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생 및 기타 <sup>1</sup>	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable & Others <sup>1</sup>	
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	1,084	-	198	-	6,247	145,910	-	-	17,688	50,869
수입	139,525	1,602,857	40,748	-	-	-	-	-	-	349,174
(석유생산)	-	1,250,710	-	-	-	-	-	-	-	167,481
(석유수입)	-	352,147	-	-	-	-	-	-	-	42,140
수출	-	-522,099	-	-	-	-	-	-	-	-72,375
국제병커링	-	-54,574	-	-	-	-	-	-	-	-8,253
재고증감	-61	8,063	368	-	-	-	-	-	-	1,503
연초재고	2,589	62,772	4,343	-	-	-	-	-	-	15,421
연말재고	-2,650	-54,709	-3,976	-	-	-	-	-	-	-13,918
통계오차	-7,541	-107,185	-324	-	-	-	-	-	-	-17,826
1차에너지 공급	133,007	927,062	40,991	-	6,247	145,910	-	-	17,688	303,092
에너지전환	-84,802	-8,581	-38,763	23,268	-6,247	-145,910	520,499	2,647	-8,778	-71,738
발전	-84,802	-5,684	-17,945	-320	-6,247	-145,910	563,040	1,711	-8,778	-65,757
지역난방	-	-1,711	-1,902	-559	-	-	-	936	-	-2,350
가스제조	-	-1,185	-18,822	23,920	-	-	-	-	-	-84
자가소비 및 손실	-	-	-94	228	-	-	-42,542	-1	-	-3,548
최종에너지 소비	48,205	918,480	2,227	23,268	-	-	520,499	2,647	8,910	231,353
산업부문	47,562	566,246	2,227	8,299	-	-	279,769	-	6,426	142,903
농림어업	-	9,846	-	4	-	-	17,305	-	-	2,885
광업	-	401	-	-	-	-	1,493	-	-	184
제조업	41,447	540,173	2,227	8,295	-	-	260,972	-	-	127,431
음식·담배	-	554	-	785	-	-	12,232	-	-	1,929
섬유·의복	-	266	-	258	-	-	9,936	-	-	1,158
목재·나무	-	29	-	26	-	-	1,735	-	-	180
펄프·인쇄	-	227	-	290	-	-	9,421	-	-	1,138
석유·화학	346	514,513	1,390	2,568	-	-	62,371	-	-	72,003
비금속	3,989	4,047	-	561	-	-	11,724	-	-	4,582
1차금속	34,959	730	837	1,198	-	-	32,093	-	-	29,529
비철금속	601	282	-	367	-	-	9,908	-	-	1,623
조립금속	-	2,176	-	1,892	-	-	106,695	-	-	11,414
기타제조	1,552	10,620	-	351	-	-	4,858	-	-	2,901
기타에너지	-	6,730	-	-	-	-	-	-	-	975
건설업	-	15,826	-	0	-	-	-	-	-	2,433
수송부문	-	303,170	-	1,181	-	-	3,156	-	700	42,996
철도운수	-	664	-	-	-	-	2,909	-	-	346
육상운수	-	249,829	-	1,181	-	-	248	-	700	35,074
수상운수	-	17,119	-	-	-	-	-	-	-	2,647
항공운수	-	35,558	-	-	-	-	-	-	-	4,929
가정부문	644	23,932	-	10,184	-	-	70,455	2,224	447	22,567
상업부문	-	16,001	-	3,528	-	-	134,957	348	132	17,489
공공부문	-	9,131	-	76	-	-	32,160	74	1,205	5,399

1. 기타: 폐기물을 이용하여 제조한 것

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2019)

※ Based on the 7th calorific value

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 및 기타 <sup>1</sup> Renewable & Others <sup>1</sup>	합계 Total	
1,000 toe										
513	-	259	-	1,331	31,079	-	-	17,688	50,869	Domestic Production
86,336	209,621	53,217	-	-	-	-	-	-	349,174	Imports
-	167,481	-	-	-	-	-	-	-	167,481	(Petroleum Products)
-	42,140	-	-	-	-	-	-	-	42,140	(Petroleum Imports)
-	-72,375	-	-	-	-	-	-	-	-72,375	Exports
-	-8,253	-	-	-	-	-	-	-	-8,253	Int'l Bunkers
-22	1,044	480	-	-	-	-	-	-	1,503	Stock Change(+/-)
1,235	8,514	5,672	-	-	-	-	-	-	15,421	Former Stock
-1,256	-7,470	-5,192	-	-	-	-	-	-	-13,918	Ending Stock
-4,680	-12,723	-423	-	-	-	-	-	-	-17,826	Statistical Difference
82,147	117,314	53,534	-	1,331	31,079	-	-	17,688	303,092	Primary Supply
-50,089	-1,189	-50,625	23,943	-1,331	-31,079	44,763	2,647	-8,778	-71,738	Transformation
-50,089	-848	-23,436	-330	-1,331	-31,079	48,421	1,711	-8,778	-65,757	Electric Generation
-	-226	-2,484	-576	-	-	-	936	-	-2,350	District Heating
-	-115	-24,582	24,613	-	-	-	-	-	-84	Gas Manufacturing
-	-	-123	235	-	-	-3,659	-1	-	-3,548	Own Use & Loss
32,057	116,125	2,909	23,943	-	-	44,763	2,647	8,910	231,353	Final Consumption
31,752	69,216	2,909	8,540	-	-	24,060	-	6,426	142,903	Industry
-	1,392	-	4	-	-	1,488	-	-	2,885	Agri. Fishery
-	55	-	-	-	-	128	-	-	184	Mining
28,207	65,336	2,909	8,535	-	-	22,444	-	-	127,431	Manufacturing
-	70	-	807	-	-	1,052	-	-	1,929	Food Tobacco
-	38	-	265	-	-	854	-	-	1,158	Textile & Apparel
-	4	-	27	-	-	149	-	-	180	Wood & Wood Pro.
-	30	-	298	-	-	810	-	-	1,138	Pulp & Publications
205	61,977	1,815	2,642	-	-	5,364	-	-	72,003	Petro. Chemical
2,361	635	-	578	-	-	1,008	-	-	4,582	Non-Metallic
24,366	76	1,093	1,232	-	-	2,760	-	-	29,529	Iron & Steel
356	37	-	378	-	-	852	-	-	1,623	Non-ferrous
-	292	-	1,947	-	-	9,176	-	-	11,414	Fabricated Metal
919	1,204	-	361	-	-	418	-	-	2,901	Other Manufacturing
-	975	-	-	-	-	-	-	-	975	Other Energy
-	2,433	-	0	-	-	-	-	-	2,433	Construction
-	40,809	-	1,216	-	-	271	-	700	42,996	Transport
-	95	-	-	-	-	250	-	-	346	Rail
-	33,137	-	1,216	-	-	21	-	700	35,074	Land
-	2,647	-	-	-	-	-	-	-	2,647	Water
-	4,929	-	-	-	-	-	-	-	4,929	Air
306	3,051	-	10,479	-	-	6,059	2,224	447	22,567	Residential
-	1,773	-	3,630	-	-	11,606	348	132	17,489	Commercial
-	1,276	-	78	-	-	2,766	74	1,205	5,399	Public

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

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

## 11. 에너지밸런스(2020)

※ 제7차 에너지열량환산 기준 적용

	석탄	석유	액화천연가스	도시가스	수력	원자력	전력	열에너지	신재생 및 기타 <sup>1</sup>	합계
	Coal	Petroleum	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewable & Others <sup>1</sup>	
	1,000 ton	1,000 bbl	1,000 ton	mil. m <sup>3</sup>	GWh			1,000 toe		
국내생산	1,019	-	142	-	7,148	160,184	-	-	18,983	55,292
수입	121,772	1,506,378	39,982	-	-	-	-	-	-	325,367
(석유생산)	-	1,159,002	-	-	-	-	-	-	-	156,132
(석유수입)	-	347,376	-	-	-	-	-	-	-	41,331
수출	-	-468,529	-	-	-	-	-	-	-	-65,208
국제병커링	-	-59,082	-	-	-	-	-	-	-	-9,034
재고증감	-122	1,198	1,103	-	-	-	-	-	-	1,680
연초재고	2,650	54,709	3,977	-	-	-	-	-	-	13,919
연말재고	-2,772	-53,511	-2,874	-	-	-	-	-	-	-12,239
통계오차	-6,097	-107,605	864	-	-	-	-	-	-	-16,021
1차에너지 공급	116,572	872,362	42,091	-	7,148	160,184	-	-	18,983	292,076
에너지전환	-70,743	-6,594	-39,333	22,449	-7,148	-160,184	509,270	2,770	-9,490	-69,513
발전	-70,743	-3,826	-18,612	-396	-7,148	-160,184	552,162	2,208	-9,490	-62,502
지역난방	-	-1,594	-1,778	-464	-	-	-	564	-	-2,449
가스제조	-	-1,174	-18,247	23,191	-	-	-	-	-	-83
자가소비 및 손실	-	-	-696	119	-	-	-42,892	-3	-	-4,479
최종에너지 소비	45,829	865,768	2,758	22,449	-	-	509,270	2,770	9,493	222,563
산업부문	45,319	543,857	2,758	7,593	-	-	268,692	-	6,743	137,964
농림어업	-	10,971	-	1	-	-	17,037	-	-	3,017
광업	-	486	-	-	-	-	1,552	-	-	201
제조업	39,611	517,158	2,758	7,592	-	-	250,104	-	-	122,445
음식·담배	-	561	-	823	-	-	12,529	-	-	1,996
섬유·의복	-	202	-	222	-	-	8,784	-	-	1,012
목재·나무	-	47	-	24	-	-	1,696	-	-	177
펄프·인쇄	-	261	-	296	-	-	9,185	-	-	1,129
석유·화학	343	492,002	1,788	2,181	-	-	59,459	-	-	69,154
비금속	3,404	3,634	-	516	-	-	11,131	-	-	4,069
1차금속	33,797	694	970	1,001	-	-	26,528	-	-	28,204
비철금속	539	313	-	462	-	-	9,891	-	-	1,686
조립금속	-	2,246	-	1,871	-	-	106,141	-	-	11,354
기타제조	1,527	10,656	-	196	-	-	4,760	-	-	2,708
기타에너지	-	6,541	-	-	-	-	-	-	-	956
건설업	-	15,242	-	0	-	-	-	-	-	2,341
수송부문	-	277,191	-	1,068	-	-	2,738	-	690	39,400
철도운수	-	586	-	-	-	-	2,738	-	-	320
육상운수	-	238,039	-	1,068	-	-	-	-	690	33,413
수상운수	-	20,125	-	-	-	-	-	-	-	3,111
항공운수	-	18,442	-	-	-	-	-	-	-	2,557
가정부문	510	21,668	-	10,593	-	-	74,074	2,352	604	23,201
상업부문	-	14,957	-	3,128	-	-	132,468	352	163	16,747
공공부문	-	8,095	-	68	-	-	31,298	66	1,292	5,251

1. 기타: 폐기물을 이용하여 제조한 것

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

## 11. Energy Balance(2020)

※ Based on the 7th calorific value

석탄 Coal	석 유 Petroleum	액화천연가스 LNG	도시가스 City Gas	수 력 Hydro	원자력 Nuclear	전 력 Electricity	열에너지 Heat	신재생 및 기타 <sup>1</sup> Renewable & Others <sup>1</sup>	합계 Total	
1,000 toe										
482	-	185	-	1,523	34,119	-	-	18,983	55,292	Domestic Production
75,687	197,463	52,217	-	-	-	-	-	-	325,367	Imports
-	156,132	-	-	-	-	-	-	-	156,132	(Petroleum Products)
-	41,331	-	-	-	-	-	-	-	41,331	(Petroleum Imports)
-	-65,208	-	-	-	-	-	-	-	-65,208	Exports
-	-9,034	-	-	-	-	-	-	-	-9,034	Int'l Bunkers
-56	296	1,440	-	-	-	-	-	-	1,680	Stock Change(+/-)
1,256	7,470	5,194	-	-	-	-	-	-	13,919	Former Stock
-1,312	-7,174	-3,754	-	-	-	-	-	-	-12,239	Ending Stock
-3,873	-13,276	1,128	-	-	-	-	-	-	-16,021	Statistical Difference
72,241	110,240	54,970	-	1,523	34,119	-	-	18,983	292,076	Primary Supply
-41,783	-897	-51,369	23,100	-1,523	-34,119	43,797	2,770	-9,490	-69,513	Transformation
-41,783	-567	-24,307	-408	-1,523	-34,119	47,486	2,208	-9,490	-62,502	Electric Generation
-	-215	-2,322	-477	-	-	-	564	-	-2,449	District Heating
-	-115	-23,831	23,863	-	-	-	-	-	-83	Gas Manufacturing
-	-	-909	122	-	-	-3,689	-3	-	-4,479	Own Use & Loss
30,457	109,344	3,602	23,100	-	-	43,797	2,770	9,493	222,563	Final Consumption
30,216	66,483	3,602	7,813	-	-	23,108	-	6,743	137,964	Industry
-	1,550	-	1	-	-	1,465	-	-	3,017	Agri. Fishery
-	68	-	-	-	-	133	-	-	201	Mining
26,998	62,525	3,602	7,812	-	-	21,509	-	-	122,445	Manufacturing
-	72	-	847	-	-	1,077	-	-	1,996	Food Tobacco
-	28	-	229	-	-	755	-	-	1,012	Textile & Apparel
-	7	-	24	-	-	146	-	-	177	Wood & Wood Pro.
-	35	-	304	-	-	790	-	-	1,129	Pulp & Publications
203	59,258	2,335	2,244	-	-	5,113	-	-	69,154	Petro. Chemical
2,015	566	-	531	-	-	957	-	-	4,069	Non-Metallic
23,556	70	1,266	1,030	-	-	2,281	-	-	28,204	Iron & Steel
319	41	-	475	-	-	851	-	-	1,686	Non-ferrous
-	300	-	1,925	-	-	9,128	-	-	11,354	Fabricated Metal
904	1,193	-	202	-	-	409	-	-	2,708	Other Manufacturing
-	956	-	-	-	-	-	-	-	956	Other Energy
-	2,341	-	0	-	-	-	-	-	2,341	Construction
-	37,376	-	1,099	-	-	235	-	690	39,400	Transport
-	84	-	-	-	-	235	-	-	320	Rail
-	31,624	-	1,099	-	-	-	-	690	33,413	Land
-	3,111	-	-	-	-	-	-	-	3,111	Water
-	2,557	-	-	-	-	-	-	-	2,557	Air
242	2,732	-	10,900	-	-	6,370	2,352	604	23,201	Residential
-	1,621	-	3,219	-	-	11,392	352	163	16,747	Commercial
-	1,130	-	70	-	-	2,692	66	1,292	5,251	Public

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

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.



## 2. 석유

### Petroleum

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  - 3-5. 부문별 석유제품 소비(2020)  
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Retail Prices of Petroleum Products

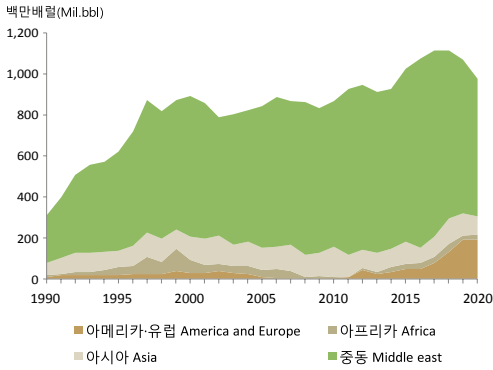






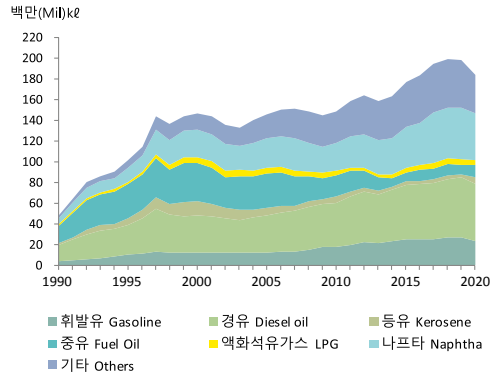
● 원유 수입 Crude Oil Imports

<1990~2020>



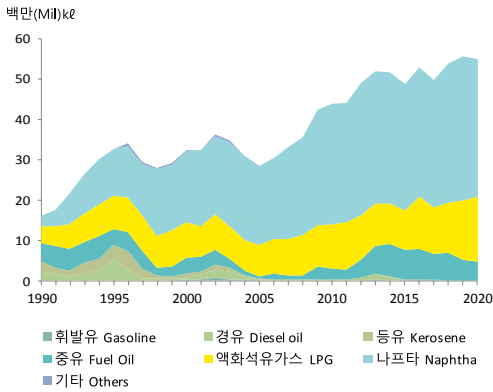
● 석유제품 생산 Petroleum Products Production

<1990~2020>



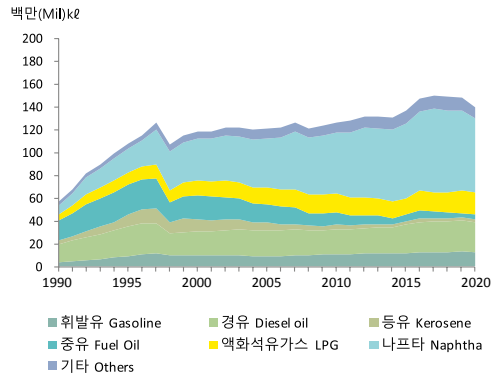
● 석유제품 수입 Petroleum Products Imports

<1990~2020>



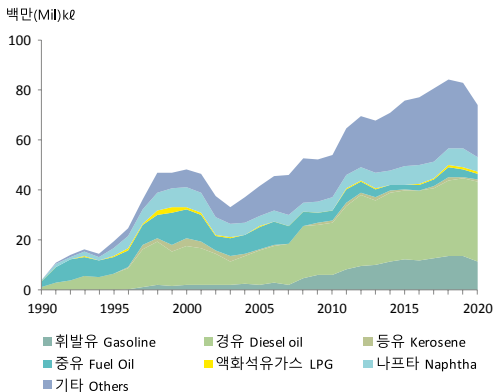
● 석유제품 1차에너지 공급 Primary Energy Supply of Petroleum Products

<1990~2020>



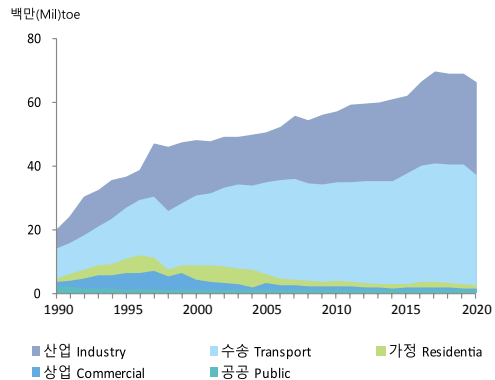
● 석유제품 수출 Petroleum Products Exports

<1990~2020>



● 석유제품 최종에너지 부문별 소비 Final Energy Consumption of Petroleum Products by Sector

<1990~2020>



## 1. 석유 수급

단위: 천 배럴

	원 유 Crude Oil				기타원료 <sup>1)</sup> Others <sup>1)</sup>
	국내 생산 Domestic Production	수입 Imports	원유처리량 Refinery Runs	재 고 Stocks	수입 Imports
1981	-	182,814	178,322	10,856	-
1982	-	178,369	173,044	10,367	-
1983	-	192,969	190,643	8,132	-
1984	-	199,681	201,937	-	-
1985	-	198,313	201,131	5,696	-
1986	-	230,063	209,729	9,737	-
1987	-	216,163	210,914	7,610	-
1988	-	261,079	256,420	5,308	-
1989	-	296,411	296,722	5,598	105
1990	-	308,368	306,493	3,370	2,126
1991	-	399,303	413,055	4,644	672
1992	-	509,378	510,032	5,402	2,704
1993	-	560,563	544,504	7,428	5,670
1994	-	573,714	561,584	17,323	13,199
1995	-	624,945	631,078	10,377	19,075
1996	-	721,927	720,846	11,297	15,795
1997	-	873,415	871,974	11,385	4,261
1998	-	819,094	825,890	3,598	3,470
1999	-	874,090	872,742	3,449	7,230
2000	-	893,943	890,304	3,865	5,866
2001	-	859,367	860,115	3,853	8,870
2002	-	790,992	786,805	6,996	9,496
2003	-	804,809	782,951	27,637	7,685
2004	-	825,790	826,551	25,574	4,884
2005	407	843,203	852,439	15,495	8,124
2006	333	888,794	878,395	23,691	3,502
2007	236	872,541	882,117	11,637	1,133
2008	155	864,872	865,663	10,723	1,787
2009	321	835,085	838,475	7,244	1,923
2010	380	872,415	872,247	7,611	2,251
2011	285	927,044	924,441	10,980	1,691
2012	263	947,292	945,162	13,231	1,766
2013	290	915,075	906,674	19,245	3,559
2014	198	927,524	918,345	27,518	6,213
2015	115	1,026,107	1,016,157	37,407	4,208
2016	104	1,078,119	1,071,731	41,847	5,947
2017	217	1,118,167	1,117,376	42,080	6,770
2018	189	1,116,281	1,106,266	50,511	10,122
2019	155	1,071,923	1,064,210	43,999	4,050
2020	103	980,259	980,379	42,300	7,163

1. 정제원료(반제품), 첨가제, 산소성분

2. 전환부문 소비량을 포함한 1차에너지 공급량임.

자료: 한국석유공사

## 1. Petroleum Overview

Unit: Thousand barrels

석유제품 Petroleum Products							
생산 Production	수입 Imports	수출 Exports	국제병커링 International Bunkers	소비 <sup>2</sup> Consumption <sup>2</sup>	재고 Stocks		
173,793	13,161	3,084	2,068	180,053	10,904	1981	
170,595	19,790	6,904	1,843	178,893	10,456	1982	
188,667	21,697	16,421	1,985	189,308	9,991	1983	
200,997	24,393	24,053	6,510	191,049	...	1984	
197,559	24,095	26,440	4,556	189,191	10,611	1985	
206,988	31,460	27,367	7,652	200,593	10,461	1986	
208,662	46,548	32,662	10,574	210,511	9,898	1987	
252,196	41,947	31,247	12,973	250,558	10,238	1988	
292,062	49,270	34,802	15,818	287,146	14,410	1989	
304,495	101,248	27,184	15,115	356,349	19,576	1990	
408,215	110,041	69,744	20,714	424,666	20,257	1991	
504,560	137,011	91,653	26,099	514,224	30,829	1992	
539,986	167,759	103,493	30,539	564,575	33,934	1993	
568,452	190,790	93,132	33,304	621,471	36,352	1994	
643,102	205,428	122,630	37,092	677,187	37,636	1995	
724,128	215,124	158,329	42,080	721,038	42,480	1996	
911,462	185,811	231,050	46,130	793,877	48,785	1997	
864,845	175,895	296,682	45,991	670,232	46,427	1998	
911,086	184,490	297,899	49,048	719,656	42,785	1999	
926,897	204,301	306,293	46,468	742,556	49,685	2000	
907,345	204,781	295,010	46,330	743,666	49,356	2001	
858,363	228,557	239,127	46,466	762,867	43,256	2002	
841,038	219,897	209,079	53,139	762,940	41,983	2003	
886,413	195,110	235,506	58,387	750,303	50,569	2004	
922,897	179,354	262,647	55,632	761,065	42,588	2005	
949,983	191,560	289,070	53,849	765,483	46,801	2006	
955,898	209,130	292,072	50,543	794,879	44,726	2007	
938,749	224,614	333,764	50,610	760,390	40,034	2008	
912,654	268,214	330,912	45,473	778,222	37,636	2009	
938,926	276,849	341,784	49,341	794,031	41,464	2010	
1,002,257	279,260	408,338	49,131	801,409	41,141	2011	
1,034,708	309,599	440,897	49,091	825,167	48,440	2012	
1,001,980	329,205	429,291	51,499	821,374	49,303	2013	
1,030,092	326,623	448,822	53,598	818,290	49,422	2014	
1,116,986	307,875	477,425	57,241	853,096	51,475	2015	
1,157,612	334,608	487,716	62,494	921,082	50,203	2016	
1,229,652	314,487	509,113	59,136	937,095	51,921	2017	
1,258,874	341,628	531,563	58,000	931,787	62,815	2018	
1,250,710	352,147	522,099	54,574	927,062	54,770	2019	
1,159,002	347,376	468,529	59,082	872,362	53,565	2020	

1. Refinery feedstocks, additives and oxygenates.

2. Primary energy supply including transformation consumption.

Source : Korea National Oil Corporation.

## 2. 원유 수급

### 2-1. 계약형태별 원유 수입

단위: 천 배럴

	합계 Total	중동 Middle East					아시아 Asia				
		소계 Subtotal	장기계약 Long-term Contracts	현 물 Spots	임가공 Processing	개발도입 Development	소계 Subtotal	장기계약 Long-term Contracts	현 물 Spots	임가공 Processing	개발도입 Development
1981	182,814	165,858	164,303	1,555	-	-	5,141	2,305	2,836	-	-
1982	178,369	135,527	128,667	6,860	-	-	21,942	15,278	6,664	-	-
1983	192,969	141,816	103,770	38,046	-	-	27,367	12,894	14,472	-	-
1984	199,681	132,467	90,269	42,198	-	-	39,329	19,212	20,117	-	-
1985	198,313	113,013	50,976	41,577	20,459	-	47,996	31,649	2,425	13,922	-
1986	230,063	142,423	38,977	77,493	25,952	-	52,128	21,379	14,373	16,375	-
1987	216,163	138,659	54,242	58,074	26,343	-	51,265	24,251	17,638	9,375	-
1988	261,079	168,479	55,970	75,437	31,079	5,993	50,980	18,660	20,628	11,692	-
1989	296,411	211,819	77,404	111,472	18,205	4,737	63,585	26,858	33,408	1,837	1,482
1990	308,368	229,017	123,571	93,820	10,115	1,510	62,530	32,127	25,834	1,031	3,538
1991	399,303	294,357	199,810	92,249	-	2,298	82,695	43,327	38,709	-	658
1992	509,378	380,452	269,822	106,432	-	4,198	95,033	44,905	49,755	-	373
1993	560,563	430,839	299,831	125,467	-	5,541	99,147	53,933	45,214	-	-
1994	573,714	439,330	306,221	128,417	-	4,692	91,083	49,920	40,538	-	626
1995	624,945	486,528	351,042	133,065	-	2,421	82,050	40,042	41,308	-	700
1996	721,927	561,098	425,921	135,176	-	-	98,631	42,198	56,434	-	-
1997	873,415	645,678	537,313	107,123	-	1,242	122,379	58,519	63,860	-	-
1998	819,094	622,005	525,441	96,564	-	-	113,494	60,838	52,656	-	-
1999	874,090	632,067	468,318	163,750	-	-	93,517	45,189	48,328	-	-
2000	893,943	686,916	501,767	185,149	-	-	112,669	54,307	58,361	-	-
2001	859,367	661,649	491,422	169,887	-	340	130,033	35,959	94,074	-	-
2002	790,992	579,865	419,976	159,889	-	-	136,756	42,142	94,615	-	-
2003	804,809	639,453	497,625	139,484	996	1,348	100,721	35,603	65,118	-	-
2004	825,790	645,183	502,039	142,479	-	665	116,287	38,718	77,569	-	-
2005	843,203	689,356	533,800	154,368	-	1,188	111,937	29,458	82,479	-	-
2006	888,794	730,843	560,285	170,558	-	-	110,306	24,113	86,193	-	-
2007	872,541	704,020	521,070	182,950	-	-	131,273	21,071	110,202	-	-
2008	864,872	746,458	569,121	177,337	-	-	108,482	17,689	90,794	-	-
2009	835,085	705,363	560,061	145,302	-	-	116,379	19,214	97,166	-	-
2010	872,415	713,647	589,285	124,361	-	-	152,354	23,177	129,176	-	-
2011	927,044	807,908	685,205	122,704	-	-	108,402	22,820	85,583	-	-
2012	947,292	805,971	645,317	160,654	-	-	88,190	18,969	69,220	-	-
2013	915,075	786,813	604,972	181,841	-	-	97,047	22,364	74,683	-	-
2014	927,524	778,923	628,106	150,817	-	-	88,623	23,658	64,964	-	-
2015	1,026,107	844,637	597,539	241,282	-	5,815	106,263	21,406	84,857	-	-
2016	1,078,119	926,201	612,451	301,437	-	12,313	72,756	19,644	53,112	-	-
2017	1,118,167	913,446	618,093	278,913	-	16,440	97,233	28,400	68,833	-	-
2018	1,116,281	820,994	529,317	276,972	-	14,704	122,832	36,446	86,385	-	-
2019	1,071,923	752,564	593,774	147,450	-	11,340	107,943	12,728	95,215	-	-
2020	980,259	676,409	543,834	122,068	-	10,507	88,493	5,595	82,899	-	-

자료: 한국석유공사

## 2. Crude Oil Demand and Supply

### 2-1. Crude Oil Imports by Contract Type

Unit: Thousand barrels

아프리카 Africa					아메리카·유럽 America and Europe				
소계 Subtotal	장기계약 Long-term Contracts	현 물 Spots	임가공 Processing	개발도입 Development	소계 Subtotal	장기계약 Long-term Contracts	현 물 Spots	개발도입 Development	
1,467	1,154	313	-	-	10,348	10,348	-	-	1981
6,415	5,868	547	-	-	14,486	14,486	-	-	1982
12,053	11,431	622	-	-	11,734	10,802	932	-	1983
11,705	11,232	473	-	-	16,180	15,770	410	-	1984
11,912	7,960	3,952	-	-	25,392	22,630	2,762	-	1985
9,912	6,461	3,451	-	-	25,601	22,345	3,256	-	1986
15,141	6,289	8,852	-	-	11,098	10,080	1,019	-	1987
17,775	834	12,621	4,321	-	23,845	21,142	2,703	-	1988
17,180	1,710	11,916	1,723	1,832	3,826	2,996	831	-	1989
9,689	687	8,202	-	801	7,132	3,657	3,475	-	1990
5,551	-	3,744	-	1,808	16,701	13,965	2,736	-	1991
12,822	3,500	7,460	-	1,862	21,071	20,083	-	988	1992
12,876	2,403	9,915	-	558	17,702	17,702	-	-	1993
23,225	5,637	17,588	-	-	20,075	20,075	-	-	1994
37,911	3,781	34,130	-	-	18,456	18,456	-	-	1995
37,024	6,025	30,999	-	-	25,174	18,365	6,809	-	1996
81,119	1,453	79,666	-	-	24,240	23,059	1,181	-	1997
61,907	11,200	50,707	-	-	21,689	16,794	4,895	-	1998
109,560	34,956	74,603	-	-	38,946	22,612	16,334	-	1999
67,749	13,356	54,393	-	-	26,610	13,501	13,109	-	2000
39,155	937	38,219	-	-	28,530	10,067	18,462	-	2001
35,877	2,981	32,896	-	-	38,494	13,548	24,946	-	2002
34,156	9,496	24,660	-	-	30,479	8,168	22,311	-	2003
42,874	19,012	23,862	-	-	21,447	11,768	9,679	-	2004
34,424	-	34,424	-	-	7,487	643	6,844	-	2005
42,814	1,310	41,504	-	-	4,831	-	4,831	-	2006
35,557	1,212	34,345	-	-	1,690	-	1,690	-	2007
9,932	51	9,881	-	-	-	-	-	-	2008
11,608	416	11,192	-	-	1,734	-	1,734	-	2009
4,592	-	4,592	-	-	1,823	-	1,823	-	2010
2,772	-	2,772	-	-	7,962	-	7,962	-	2011
9,233	-	9,233	-	-	43,899	-	43,899	-	2012
8,096	674	7,422	-	-	23,119	2,075	21,044	-	2013
25,301	1,549	23,752	-	-	34,678	18,761	15,916	-	2014
26,691	3,031	23,659	-	-	48,516	12,987	35,529	-	2015
30,496	4,277	26,218	-	-	48,667	27,222	21,444	-	2016
28,189	10,580	17,608	-	-	79,300	39,601	39,698	-	2017
40,901	17,395	23,506	-	-	131,554	52,912	78,643	-	2018
19,928	6,979	12,949	-	-	191,489	44,981	146,507	-	2019
24,549	1,801	22,747	-	-	190,808	49,104	141,704	-	2020

Source: Korea National Oil Corporation

## 2-2. 국별 원유 수입량

단위: 천 배럴

	합계	중동						
	Total	Middle East	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

자료: 한국석유공사

## 2-2. Imports by Country of Origin

Unit: Thousand barrels

아시아					아프리카	아메리카	유럽	중동의존도(%)	
Asia	인도네시아 Indonesia	말레이시아 Malaysia	호주 Australia	브루나이 Brunei	Africa	America	Europe	Dependence on Middle East	
5,141	2,842	2,299	-	-	1,467	10,348	-	90.7	1981
21,942	14,777	2,469	-	4,696	6,415	14,486	-	76.0	1982
27,367	9,402	9,782	-	8,183	12,053	11,734	-	73.5	1983
39,329	16,919	15,266	930	5,692	11,705	16,180	-	66.3	1984
47,996	20,183	19,745	-	8,067	11,912	25,392	-	57.0	1985
52,128	17,212	23,191	798	9,521	9,912	25,601	-	61.9	1986
51,265	18,014	20,611	2,253	10,387	15,141	11,098	-	64.1	1987
50,980	12,680	22,071	1,695	11,476	17,775	23,845	-	64.5	1988
63,585	12,362	28,009	1,881	13,233	17,180	3,826	-	71.5	1989
62,530	19,096	23,135	689	11,514	9,689	7,132	-	74.3	1990
82,695	33,436	26,102	1,674	12,225	5,551	16,701	-	73.7	1991
95,033	38,040	25,464	-	14,441	12,822	21,071	-	74.7	1992
99,147	34,677	27,370	1,819	12,950	12,876	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
122,379	40,965	16,968	8,851	12,787	81,119	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

Source: Korea National Oil Corporation

## 2-3. 원유 수입 가격

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

1. 운송비와 보험료의 합  
자료: 한국석유공사



## 2-3. Costs of Crude Oil Imports

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

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

## 2-4. 국별 원유 수입 단가

단위: 배럴 당 달러

	평균	중동							
	Average	Middle East	사우디아라비아 Saudi Arabia	아랍에미리트 U.A.E	이란 Iran	쿠웨이트 Kuwait	오만 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	18.6	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	15.6	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	20.3	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	60.5	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	61.1	62.5	59.8	62.2	61.9	57.7	60.9
2010	78.7	78.6	79.0	79.7	77.4	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	115.2	113.6	111.5	110.6	111.9	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	105.0	100.3	98.8	103.0	104.0	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

주: 운임 및 보험료 포함인도(CIF)가격

자료: 한국석유공사

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

Unit: US dollars per barrel

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

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

Source: Korea National Oil Corporation

## 2-5. 원유 처리 현황 Refinery Runs

	수입량 Import Volume	처리량 Refinery Runs			정제능력 Refining Capacities	가동률 Operation Rate
		연간 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	306,493	25,541	840	840	99.97
1991	399,303	413,055	34,421	1,132	1,036	109.23
1992	509,378	510,032	42,503	1,394	1,442	96.64
1993	560,563	544,504	45,375	1,492	1,675	88.97
1994	573,714	561,584	46,799	1,539	1,700	90.39
1995	624,945	631,078	52,590	1,729	1,818	95.10
1996	721,927	720,846	60,070	1,970	2,438	81.01
1997	873,415	871,974	72,664	2,389	2,438	97.99
1998	819,094	825,890	68,824	2,263	2,438	92.81
1999	874,090	872,742	72,728	2,391	2,438	98.08
2000	893,943	890,304	74,192	2,433	2,438	100.05
2001	859,367	860,115	71,676	2,356	2,438	96.66
2002	790,992	786,805	65,567	2,156	2,438	88.42
2003	804,809	782,951	65,246	2,145	2,438	87.98
2004	825,790	826,551	68,879	2,258	2,735	82.80
2005	843,203	852,439	71,037	2,335	2,735	85.39
2006	888,794	878,395	73,200	2,407	2,735	87.99
2007	872,541	882,117	73,510	2,417	2,765	87.41
2008	864,872	865,663	72,139	2,365	2,785	85.16
2009	835,085	838,475	69,873	2,297	2,835	81.03
2010	872,415	872,247	72,687	2,390	2,845	84.00
2011	927,044	924,441	77,037	2,533	2,934	86.32
2012	947,292	945,162	78,764	2,582	2,949	87.81
2013	915,075	906,674	75,556	2,484	2,949	84.23
2014	927,524	918,345	76,529	2,516	3,009	83.62
2015	1,026,107	1,016,157	84,680	2,784	3,059	91.01
2016	1,078,119	1,071,731	89,311	2,928	3,064	95.83
2017	1,118,167	1,117,376	93,115	3,061	3,105	98.59
2018	1,116,281	1,106,266	92,189	3,031	3,204	94.60
2019	1,071,923	1,064,210	88,684	2,916	3,204	91.19
2020	980,259	980,379	81,698	2,686	3,204	83.83

자료: 한국석유공사

## 2-6. 정유 현황 Refinery 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

Source: Korea National Oil Corporation

### 3. 석유제품 수급

#### 3-1. 생산

단위: 천 배럴

	합계 Total	에너지유 Energy Use							
		소계 Subtotal	휘발유 Gasoline	등유 Kerosene	경유 Diesel oil	경질중유 Bunker-A	중유 Bunker-B	중질중유 Bunker-C	항공유 Jet oil
1981	173,793	145,922	6,205	8,154	40,622	2,235	1,667	81,630	5,409
1982	170,595	141,990	5,132	8,244	40,716	2,170	1,093	78,114	6,521
1983	188,667	157,824	4,902	9,199	48,560	1,832	1,046	83,212	9,073
1984	200,997	164,104	5,492	9,109	54,167	2,040	1,165	81,662	10,469
1985	197,559	159,432	9,731	10,699	54,720	1,847	1,104	70,600	10,731
1986	206,988	166,234	9,807	9,533	58,804	2,390	1,125	70,757	13,818
1987	208,662	164,366	10,737	7,140	59,605	2,907	1,283	69,032	13,664
1988	252,196	202,831	13,618	10,803	73,917	3,091	1,385	85,276	14,742
1989	292,062	242,192	18,396	12,747	88,340	2,578	1,506	101,007	17,617
1990	304,495	251,364	23,939	13,537	94,556	2,714	1,687	98,541	16,390
1991	408,215	335,148	28,536	13,596	127,271	2,883	1,848	143,452	17,562
1992	504,560	414,510	32,348	29,309	152,577	3,360	1,696	174,319	20,901
1993	539,986	450,503	41,271	31,915	167,967	3,515	1,600	184,006	20,230
1994	568,452	474,630	50,708	32,305	169,040	3,479	1,468	191,434	26,196
1995	643,102	527,522	60,459	41,921	180,908	3,922	1,444	203,886	34,981
1996	724,128	592,407	70,935	51,302	216,446	5,495	1,565	207,845	38,819
1997	911,462	695,247	78,648	71,899	264,173	4,243	1,451	232,394	42,438
1998	864,845	644,931	76,026	62,501	232,500	3,127	1,320	205,654	63,801
1999	911,086	677,966	75,159	90,501	218,670	3,869	1,258	235,451	53,056
2000	926,897	682,029	76,202	87,797	227,999	4,243	959	225,262	59,568
2001	907,345	661,121	76,507	74,833	218,888	3,826	841	220,976	65,251
2002	858,363	603,179	76,943	61,646	207,736	4,755	758	183,610	67,731
2003	841,038	598,129	73,048	63,338	202,677	4,717	668	198,615	55,065
2004	886,413	616,100	75,494	49,446	212,548	4,149	634	197,186	76,644
2005	922,897	644,517	73,823	43,294	230,964	4,097	719	206,331	85,288
2006	949,983	661,117	79,677	40,389	238,350	3,620	655	203,110	95,316
2007	955,898	650,118	78,212	28,387	253,196	3,440	761	180,022	106,099
2008	938,749	647,227	92,864	30,917	264,470	3,041	640	146,894	108,401
2009	912,654	630,136	108,680	32,514	261,714	2,940	488	121,151	102,649
2010	938,926	650,833	111,811	38,681	268,392	3,157	511	122,501	105,781
2011	1,002,257	693,699	123,612	34,718	292,281	3,168	531	121,217	118,172
2012	1,034,708	707,075	137,387	26,615	309,738	2,642	371	99,602	130,720
2013	1,001,980	663,775	135,012	21,499	297,779	2,383	335	76,742	130,025
2014	1,030,092	666,680	145,056	16,746	314,502	2,401	274	52,500	135,202
2015	1,116,986	718,925	157,326	18,493	333,421	3,017	266	54,689	151,711
2016	1,157,612	743,271	153,557	19,520	338,517	3,345	262	67,357	160,712
2017	1,229,652	764,503	157,908	19,896	344,882	2,624	199	65,139	173,856
2018	1,258,874	786,963	167,195	21,125	358,780	2,027	249	66,690	170,896
2019	1,250,710	784,176	168,227	20,705	366,713	1,999	125	55,663	170,744
2020	1,159,002	724,701	143,047	43,646	350,147	1,654	84	73,529	112,595

1. 1997년 이후 윤활유, 파라핀왁스, 석유코크, 기타제품 포함.

자료: 한국석유공사

### 3. Petroleum Products Demand and Supply

#### 3-1. Production

Unit: Thousand barrels

액화석유가스 Liquefied Petroleum Gases(LPG)			비에너지유 Non-Energy Use				
소계 Subtotal	프로판 Propane	부 탄 Butane	소계 <sup>1</sup> Subtotal <sup>1</sup>	나프타 Naphtha	아스팔트 Asphalt	용 제 Solvent	
4,055	1,490	2,565	23,816	21,452	1,950	414	1981
4,952	1,548	3,404	23,653	20,990	2,017	646	1982
6,106	1,811	4,295	24,737	21,748	1,986	1,003	1983
6,476	1,793	4,683	30,417	27,094	2,508	815	1984
7,413	1,660	5,754	30,714	27,419	2,893	402	1985
9,730	2,726	7,003	31,024	27,691	2,978	355	1986
10,961	3,487	7,474	33,335	30,099	2,851	385	1987
11,059	3,150	7,909	38,305	35,229	2,672	403	1988
10,999	3,151	7,848	38,871	35,883	2,535	453	1989
11,994	3,314	8,680	41,138	35,487	5,119	531	1990
12,746	3,604	9,143	60,321	53,044	6,873	404	1991
14,666	4,695	9,971	75,384	65,259	9,674	452	1992
13,982	4,548	9,434	75,501	65,480	9,591	429	1993
14,710	4,416	10,294	79,112	67,969	10,447	695	1994
15,722	4,139	11,582	99,858	88,319	10,803	736	1995
15,747	5,116	10,632	115,973	103,128	12,174	671	1996
20,854	7,338	13,516	195,361	154,319	14,945	626	1997
27,506	8,983	18,522	192,409	153,832	12,807	503	1998
30,229	9,419	20,810	202,892	164,447	13,141	630	1999
34,915	10,600	24,316	209,953	167,012	13,582	629	2000
39,362	10,744	28,619	206,862	162,670	14,412	790	2001
40,507	10,782	29,725	214,676	163,912	18,211	1,300	2002
38,126	9,829	28,297	204,784	148,923	17,314	2,590	2003
38,580	10,439	28,141	231,733	167,843	19,190	3,799	2004
37,276	10,208	27,068	241,104	176,369	19,854	4,266	2005
35,953	10,287	25,666	252,913	183,067	21,258	5,061	2006
33,951	9,671	24,280	271,829	196,755	24,484	4,877	2007
34,534	12,314	22,220	256,989	173,746	26,009	3,925	2008
35,133	14,757	20,376	247,385	159,064	28,008	4,734	2009
32,631	15,828	16,803	255,461	169,721	29,284	4,766	2010
18,319	9,091	9,228	290,239	195,101	24,179	3,972	2011
17,251	9,853	7,399	310,381	207,104	24,869	3,912	2012
20,042	9,256	10,786	318,163	207,645	28,915	3,278	2013
24,344	9,858	14,486	339,068	218,095	32,212	2,928	2014
25,366	10,593	14,773	372,695	249,936	37,174	2,839	2015
26,026	11,137	14,889	388,314	259,814	40,508	3,104	2016
31,612	12,339	19,273	433,536	309,868	41,476	4,046	2017
33,900	13,166	20,734	438,011	313,927	35,908	3,651	2018
32,893	12,695	20,198	433,641	313,163	31,219	3,778	2019
28,279	11,072	17,207	406,022	286,740	25,574	5,356	2020

1. From 1997, includes lubricants, paraffin waxes, petroleum coke and other petroleum products.

Source: Korea National Oil Corporation

3-2. 수입

단위: 천 배럴

	합계 Total	에너지유 Energy Use							
		소계 Subtotal	휘발유 Gasoline	등 유 Kerosene	경 유 Diesel oil	경질중유 Bunker-A	중 유 Bunker-B	중질중유 Bunker-C	항공유 Jet oil
1981	13,161	10,670	-	-	132	-	-	10,538	-
1982	19,790	15,764	-	-	1,204	-	-	14,560	-
1983	21,697	11,986	-	-	1,092	-	-	10,891	3
1984	24,393	13,257	-	-	1,780	-	-	11,477	-
1985	24,095	12,036	-	-	2,504	-	-	9,529	3
1986	31,460	15,021	-	-	4,194	-	-	10,824	3
1987	46,548	25,987	-	2,588	10,188	-	-	13,211	-
1988	41,947	19,225	-	475	7,863	-	-	10,883	4
1989	49,270	22,503	-	4,156	6,950	-	-	11,393	4
1990	101,248	58,714	-	17,465	13,586	-	-	27,658	6
1991	110,041	54,792	-	9,771	10,803	-	-	34,209	9
1992	137,011	49,038	-	8,986	5,781	-	-	34,271	-
1993	167,759	59,866	-	16,016	11,226	-	-	32,624	-
1994	190,790	70,009	-	17,087	17,435	-	-	35,486	-
1995	205,428	80,490	-	23,361	32,190	-	-	24,824	115
1996	215,124	79,771	-	27,679	18,540	-	-	29,143	4,408
1997	185,811	49,241	-	15,769	3,134	-	-	26,757	3,582
1998	175,895	21,652	215	5,103	2,198	-	-	12,926	1,210
1999	184,490	25,713	390	2,687	2,311	-	-	16,497	3,828
2000	204,301	37,231	740	6,870	2,818	-	-	25,107	1,696
2001	204,781	36,755	2,108	5,310	6,681	-	-	22,318	339
2002	228,557	50,358	4,032	6,917	12,928	28	-	23,672	2,781
2003	219,897	37,115	2,061	6,624	11,141	70	-	13,759	3,459
2004	195,110	15,718	1,218	1,710	4,290	3	-	8,282	215
2005	179,354	6,372	78	360	1,912	-	-	4,021	1
2006	191,560	10,581	-	259	1,582	-	-	8,737	3
2007	209,130	7,191	-	514	765	-	-	5,910	2
2008	224,614	8,192	-	379	369	-	-	7,192	251
2009	268,214	20,764	-	68	836	30	-	19,828	2
2010	276,849	18,573	-	331	758	-	-	17,478	6
2011	279,260	16,776	-	417	950	-	-	15,392	16
2012	309,599	32,183	84	151	4,783	-	-	27,146	18
2013	329,205	54,711	1,718	98	8,597	-	-	44,281	17
2014	326,623	57,298	-	133	5,152	-	-	52,006	6
2015	307,875	47,406	387	11	267	-	-	46,737	4
2016	334,608	48,842	1,391	18	198	-	-	47,228	7
2017	314,487	41,494	1,127	37	236	-	-	40,091	3
2018	341,628	43,330	174	1	237	-	-	42,915	3
2019	352,147	31,892	130	35	138	-	-	31,585	3
2020	347,376	29,731	0	80	19	-	-	29,626	5

1. 1997년 이후 윤활유, 파라핀왁스, 석유코크, 기타제품 포함  
 자료: 한국석유공사



## 3-2. Imports

Unit: Thousand barrels

액화석유가스 Liquefied Petroleum Gases(LPG)			비에너지유 Non-Energy Use				
소계 Subtotal	프로판 Propane	부 탄 Butane	소계 <sup>1</sup> Subtotal <sup>1</sup>	나프타 Naphtha	아스팔트 Asphalt	용 제 Solvent	
932	874	58	1,559	1,559	-	-	1981
2,577	1,479	1,098	1,449	1,449	-	-	1982
4,099	2,317	1,782	5,612	5,612	-	-	1983
6,224	3,965	2,259	4,912	4,912	-	-	1984
6,708	4,899	1,809	5,351	5,351	-	-	1985
7,788	6,674	1,114	8,650	8,650	-	-	1986
10,214	8,591	1,623	10,348	10,348	-	-	1987
15,078	12,700	2,378	7,644	7,644	-	-	1988
20,229	16,846	3,383	6,538	6,523	15	-	1989
27,124	22,127	4,998	15,409	15,409	-	-	1990
30,301	25,351	4,950	24,948	24,862	86	-	1991
39,631	30,933	8,698	48,343	47,948	395	-	1992
45,479	34,269	11,209	62,414	62,414	-	-	1993
48,595	37,950	10,645	72,186	72,167	18	-	1994
53,101	43,360	9,742	71,837	71,837	-	-	1995
55,149	44,097	11,052	80,204	80,204	-	-	1996
57,230	46,754	10,476	79,340	79,326	-	-	1997
49,144	39,662	9,482	105,100	105,100	-	-	1998
57,659	45,772	11,887	101,119	101,119	-	-	1999
55,763	40,209	15,554	111,307	111,283	24	-	2000
48,062	32,177	15,885	119,963	119,738	201	-	2001
56,216	37,844	18,371	121,983	121,912	57	-	2002
50,801	35,325	15,476	131,981	131,981	-	-	2003
47,884	32,701	15,183	131,507	131,368	140	-	2004
49,689	32,469	17,220	123,292	123,292	-	-	2005
54,003	32,062	21,941	126,976	126,964	-	-	2006
58,172	32,691	25,481	143,766	143,766	-	-	2007
63,041	31,074	31,967	153,381	153,381	-	-	2008
66,190	32,399	33,792	181,260	180,840	-	38	2009
69,629	35,221	34,408	188,647	188,600	-	47	2010
73,940	38,561	35,379	188,545	188,507	-	38	2011
69,946	36,916	33,030	207,470	207,444	-	26	2012
65,968	32,179	33,790	208,526	208,297	-	16	2013
63,533	32,266	31,267	205,792	205,726	-	23	2014
62,712	36,435	26,277	197,758	197,617	31	6	2015
83,271	56,437	26,834	202,496	202,224	-	8	2016
73,279	55,155	18,124	199,714	199,632	-	4	2017
79,325	59,549	19,776	218,973	218,814	65	9	2018
94,093	74,600	19,493	226,163	226,088	-	3	2019
101,165	80,930	20,235	216,480	215,878	430	8	2020

1. From 1997, includes lubricants, paraffin waxes, petroleum coke and other petroleum products.  
Source: Korea National Oil Corporation

## 3-3. 수출

단위: 천 배럴

	합계		에너지유 Energy Use							
	Total	Subtotal	휘발유 Gasoline	등유 Kerosene	경유 Diesel oil	경질중유 Bunker-A	중유 Bunker-B	중질중유 Bunker-C	항공유 Jet oil	
1981	3,084	1,654	-	704	950	-	-	-	-	
1982	6,904	3,914	718	704	1,428	-	-	886	178	
1983	16,421	12,081	184	1,158	4,687	-	-	4,728	1,324	
1984	24,053	17,776	45	1,333	4,554	-	-	9,792	2,052	
1985	26,440	20,530	2,784	1,892	4,636	-	-	7,475	3,743	
1986	27,367	20,415	1,140	1,724	5,035	-	-	8,755	3,761	
1987	32,662	25,159	395	1,289	5,551	-	-	14,734	3,190	
1988	31,247	21,289	37	1,100	5,808	-	-	10,590	3,754	
1989	34,802	26,697	22	1,515	8,363	-	-	13,262	3,535	
1990	27,184	22,670	30	97	10,453	-	-	12,091	-	
1991	69,744	62,709	992	-	20,661	-	-	37,925	3,131	
1992	91,653	85,497	119	3	27,124	3	-	50,705	7,543	
1993	103,493	91,504	520	5	35,709	-	-	49,693	5,576	
1994	93,132	81,593	568	465	34,310	-	-	40,082	6,168	
1995	122,630	97,122	442	564	42,443	-	-	40,238	13,435	
1996	158,329	122,412	2,546	2,913	54,208	1,584	-	41,491	19,670	
1997	231,050	184,314	10,169	10,250	93,711	791	-	49,451	19,942	
1998	296,682	234,802	15,611	6,949	109,238	-	-	60,240	42,764	
1999	297,899	231,321	11,274	14,986	88,353	-	-	82,375	34,333	
2000	306,293	241,250	14,869	19,874	96,675	-	-	72,157	37,675	
2001	295,010	231,124	16,166	18,006	90,440	-	-	67,011	39,500	
2002	239,127	178,997	15,525	10,205	76,235	-	-	35,025	42,006	
2003	209,079	160,992	13,538	13,144	60,817	-	-	45,835	27,658	
2004	235,506	185,102	18,323	7,693	68,038	-	-	45,539	45,508	
2005	262,647	215,459	14,515	4,455	85,890	-	-	56,065	54,533	
2006	289,070	236,876	19,927	4,763	91,520	-	-	58,266	62,399	
2007	292,072	234,609	15,336	1,250	102,974	-	-	42,699	72,350	
2008	333,764	276,320	30,911	2,396	130,936	33	-	35,174	76,869	
2009	330,912	266,299	40,187	5,425	125,474	-	-	25,394	69,819	
2010	341,784	273,575	39,338	6,462	130,761	-	-	25,565	71,449	
2011	408,338	337,113	53,519	8,960	159,181	40	-	34,173	81,239	
2012	440,897	367,161	63,492	7,582	176,464	-	-	28,083	91,539	
2013	429,291	346,041	64,013	6,685	163,759	8	-	22,041	89,534	
2014	448,822	359,120	73,327	4,438	174,142	322	-	13,051	93,840	
2015	477,425	372,982	79,293	3,769	171,999	567	-	10,081	107,272	
2016	487,716	377,727	76,258	2,065	175,032	485	-	12,509	111,378	
2017	509,113	400,988	82,217	5,227	176,154	362	-	15,824	121,203	
2018	531,563	426,600	87,895	6,530	190,712	175	-	25,872	115,417	
2019	522,099	419,278	87,872	4,171	195,231	225	-	16,928	114,850	
2020	468,529	375,733	74,147	6,397	200,099	195	-	12,648	82,248	

1. 1997년 이후 윤활유, 파라핀왁스, 석유코크, 기타제품 포함  
 자료: 한국석유공사

## 3-3. Exports

Unit: Thousand barrels

액화석유가스 Liquefied Petroleum Gases(LPG)			비에너지용 Non-Energy Use				
소계 Subtotal	프로판 Propane	부 탄 Butane	소계 <sup>1</sup> Subtotal <sup>1</sup>	나프타 Naphtha	아스팔트 Asphalt	용 제 Solvent	
-	-	-	1,430	1,368	44	18	1981
-	-	-	2,990	2,937	12	41	1982
-	-	-	4,340	4,292	9	39	1983
-	-	-	6,277	6,253	7	17	1984
-	-	-	5,910	5,864	30	16	1985
-	-	-	6,953	6,829	52	72	1986
100	-	100	7,406	7,338	32	36	1987
17	11	6	9,942	9,868	42	31	1988
374	229	145	7,730	7,666	25	39	1989
1,098	593	505	3,416	3,325	29	61	1990
1,343	656	687	5,692	5,625	21	46	1991
655	218	437	5,501	5,430	19	52	1992
1,336	525	811	10,653	10,328	310	15	1993
1,338	596	742	10,201	9,148	1,045	8	1994
2,911	1,766	1,145	22,597	21,337	1,260	-	1995
3,511	2,060	1,451	32,406	30,771	1,635	-	1996
4,557	2,991	1,566	42,179	36,942	3,318	-	1997
10,484	6,913	3,571	51,396	44,848	2,860	17	1998
13,649	8,708	4,941	52,929	46,218	2,915	28	1999
8,131	5,287	2,844	56,913	48,849	3,184	8	2000
4,820	2,384	2,436	59,066	51,228	3,366	-	2001
2,882	1,589	1,293	57,248	44,943	7,060	-	2002
2,894	1,740	1,154	45,193	30,970	6,695	0	2003
964	510	454	49,441	31,157	7,725	30	2004
714	295	419	46,474	25,793	9,181	0	2005
762	393	369	51,432	27,991	10,250	-	2006
532	329	204	56,931	29,423	13,009	-	2007
372	258	115	57,073	22,915	15,651	-	2008
126	125	1	64,487	26,569	15,854	8	2009
911	910	1	67,298	32,111	18,531	-	2010
905	742	163	70,320	35,386	14,297	217	2011
1,785	1,563	222	71,951	33,287	14,171	419	2012
857	821	36	82,392	39,552	18,113	952	2013
1,348	1,049	299	88,354	35,363	22,972	1,177	2014
1,243	804	439	103,200	47,839	26,887	1,206	2015
1,867	1,450	417	108,122	49,763	28,478	1,170	2016
2,413	1,930	483	105,712	44,194	29,689	1,758	2017
4,942	3,898	1,044	100,021	43,564	24,008	1,412	2018
5,807	5,126	681	97,014	47,382	20,808	1,260	2019
6,044	5,826	218	86,752	36,680	19,785	2,018	2020

1. From 1997, includes lubricants, paraffin waxes, petroleum coke and other petroleum products.  
Source: Korea National Oil Corporation

3-4. 소비<sup>1)</sup>

단위: 천 배럴

	합계 Total	에너지유 Energy Use							
		소계 Subtotal	휘발유 Gasoline	등유 Kerosene	경유 Diesel oil	경질중유 Bunker-A	중유 Bunker-B	중질중유 Bunker-C	항공유 Jet oil
1981	180,053	152,306	6,003	7,853	38,983	2,221	1,317	90,890	2,688
1982	178,893	149,276	4,615	7,648	40,133	2,140	875	88,259	2,623
1983	189,308	153,582	4,622	7,823	44,609	1,926	826	87,035	2,774
1984	191,049	150,389	5,394	8,044	49,639	1,935	926	77,516	2,756
1985	189,191	145,488	6,922	7,932	52,188	1,845	1,007	68,990	3,255
1986	200,593	150,000	8,557	7,985	57,137	2,008	1,092	64,797	8,424
1987	210,511	154,368	10,354	8,156	63,536	2,381	1,278	59,579	9,084
1988	250,558	187,057	13,578	9,987	74,409	2,461	1,451	76,246	8,925
1989	287,146	218,765	18,295	14,382	83,901	2,268	1,577	87,235	11,107
1990	356,349	267,515	23,693	24,942	97,449	2,385	1,744	104,547	12,755
1991	424,666	308,488	28,713	25,599	114,521	2,472	1,829	122,632	12,722
1992	514,224	352,827	35,248	34,249	127,434	2,622	1,760	140,104	11,410
1993	564,575	386,698	42,508	43,259	138,021	2,741	1,742	145,548	12,879
1994	621,471	424,648	51,088	47,835	147,264	2,818	1,597	159,742	14,303
1995	677,187	468,988	59,382	62,669	163,108	3,117	1,664	162,793	16,254
1996	721,038	499,935	67,971	73,662	172,401	3,179	1,657	163,235	17,829
1997	793,877	507,196	71,358	85,025	166,787	2,760	1,615	160,367	19,283
1998	670,232	370,807	61,089	61,457	120,371	2,231	1,284	107,129	17,247
1999	719,656	405,863	63,879	76,928	126,071	2,826	1,513	116,271	18,375
2000	742,556	409,671	62,382	69,909	129,428	2,966	1,436	125,319	18,231
2001	743,666	404,726	62,707	61,707	132,167	2,714	1,510	123,848	20,073
2002	762,867	402,143	64,078	58,464	138,044	2,956	1,636	116,907	20,057
2003	762,940	395,123	60,484	52,874	145,365	2,692	1,768	111,361	20,578
2004	750,303	369,285	58,151	42,979	143,916	2,303	1,706	99,006	21,225
2005	761,065	367,039	59,561	39,392	142,517	2,361	1,793	96,357	25,058
2006	765,483	355,843	59,874	31,450	142,397	2,358	1,622	92,912	25,231
2007	794,879	352,888	62,500	26,172	145,260	2,218	1,563	89,028	26,147
2008	760,390	319,902	62,937	27,659	134,363	1,969	1,346	66,580	25,047
2009	778,222	319,607	65,872	25,991	132,116	2,076	1,289	66,000	26,263
2010	794,030	326,168	68,931	29,354	134,400	2,047	1,344	61,903	28,190
2011	801,409	312,369	69,574	25,430	133,923	2,213	1,280	51,505	28,445
2012	825,167	312,704	71,765	22,009	134,212	2,027	843	51,642	30,206
2013	821,374	308,117	73,416	18,816	139,192	1,683	897	43,786	30,325
2014	818,290	295,804	73,473	15,429	141,673	1,451	723	31,094	31,961
2015	853,096	318,724	76,570	16,227	153,255	1,565	787	35,961	34,358
2016	921,082	345,909	78,926	19,060	163,464	1,639	840	44,981	36,998
2017	939,785	341,213	79,616	19,006	168,564	1,574	722	33,522	38,209
2018	931,787	336,162	79,681	18,870	164,082	1,465	634	31,574	39,855
2019	927,062	329,616	82,750	17,127	166,910	1,617	431	21,949	38,833
2020	872,362	302,344	80,965	16,964	158,913	1,457	205	22,111	21,729

1. 1차에너지 공급량

2. 1997년 이후 윤활유, 파라핀왁스, 석유코크, 기타제품 포함

자료: 한국석유공사

3-4. Consumption<sup>1</sup>

Unit: Thousand barrels

액화석유가스 Liquefied Petroleum Gases(LPG)			비에너지유 Non-Energy Use				
소계 Subtotal	프로판 Propane	부 탄 Butane	소계 <sup>2</sup> Subtotal <sup>2</sup>	나프타 Naphtha	아스팔트 Asphalt	용 제 Solvent	
4,962	2,351	2,611	22,785	20,601	1,901	284	1981
7,224	2,946	4,278	22,394	19,871	2,001	522	1982
9,930	3,949	5,981	25,796	22,858	1,985	953	1983
12,201	5,304	6,897	28,460	25,105	2,555	800	1984
14,247	6,772	7,475	29,456	26,164	2,858	434	1985
17,585	9,415	8,170	33,006	29,802	2,910	294	1986
21,216	12,140	9,076	34,927	31,766	2,810	351	1987
25,904	15,658	10,246	37,596	33,779	3,443	374	1988
30,329	19,368	10,961	38,052	34,167	3,460	425	1989
35,712	23,574	12,138	53,123	47,553	5,112	458	1990
43,132	29,408	13,724	73,048	65,671	7,015	362	1991
53,917	35,291	18,626	107,479	97,158	9,972	349	1992
59,437	39,576	19,862	118,440	108,577	9,453	410	1993
63,452	41,961	21,491	133,371	123,276	9,416	680	1994
66,468	46,359	20,109	141,731	131,474	9,524	733	1995
68,441	47,608	20,833	152,662	141,273	10,726	664	1996
71,623	49,167	22,455	215,059	194,918	11,958	785	1997
67,992	43,142	24,850	231,433	213,860	9,851	578	1998
77,007	47,181	29,826	236,786	218,908	10,296	735	1999
84,688	46,921	37,768	248,196	229,046	10,289	736	2000
84,377	41,224	43,152	254,563	233,293	11,033	794	2001
91,415	44,825	46,590	269,310	245,309	10,350	1,271	2002
88,606	40,724	47,881	279,211	252,417	10,550	2,703	2003
88,375	37,925	50,450	292,643	262,871	11,668	3,894	2004
91,668	39,747	51,921	302,359	273,250	10,486	4,380	2005
93,451	38,732	54,720	316,189	287,003	10,813	4,753	2006
97,143	39,131	58,012	344,848	316,858	10,889	3,879	2007
101,881	38,841	63,039	338,607	311,368	9,927	3,330	2008
106,320	43,264	63,056	352,295	322,622	12,484	3,199	2009
105,175	45,828	59,347	362,688	331,819	11,115	4,298	2010
99,201	43,292	55,908	389,839	355,192	10,413	2,877	2011
95,473	41,989	53,484	416,990	384,606	10,152	1,268	2012
93,057	37,481	55,576	420,201	384,248	10,677	731	2013
89,577	35,704	53,873	432,908	396,344	9,293	1,001	2014
89,866	41,899	47,967	444,506	410,809	10,195	1,388	2015
108,961	60,574	48,387	466,212	430,091	11,461	1,633	2016
105,145	60,911	44,234	493,427	458,350	11,637	1,742	2017
109,370	63,394	45,976	486,255	451,158	10,658	1,614	2018
122,138	77,585	44,553	475,308	438,614	10,540	1,728	2019
121,294	81,383	39,911	448,724	405,266	10,054	2,154	2020

1. Primary energy supply

2. From 1997, includes lubricants, paraffin waxes, petroleum coke and other petroleum products.

Source: Korea National Oil Corporation

## 3-4-1. 휘발유 Gasoline

단위: 천 배럴

	공급 Supply		소비 Consumption				재고 Stocks
	생산 Production	수출 Exports	고급 Premium	보통 Regular	무연 Unleaded	합계 <sup>1</sup> Total <sup>1</sup>	
1981	6,205	0	1,163	4,841	-	6,003	799
1982	5,132	718	941	3,674	-	4,615	547
1983	4,902	184	931	3,691	-	4,622	557
1984	5,492	45	879	4,516	-	5,394	483
1985	9,731	2,784	950	5,964	-	6,922	497
1986	9,807	1,140	995	7,562	-	8,557	591
1987	10,737	395	949	9,098	307	10,354	808
1988	13,618	37	929	9,612	3,037	13,578	854
1989	18,396	22	733	9,193	8,369	18,295	896
1990	23,939	30	548	8,139	15,006	23,693	1,133
1991	28,536	992	414	6,694	21,605	28,713	1,250
1992	32,348	119	306	5,126	29,816	35,248	1,259
1993	41,271	520	245	56	42,207	42,508	2,853
1994	50,708	568	128	41	50,920	51,089	1,867
1995	60,459	442	55	122	59,205	59,382	2,165
1996	70,935	2,546	-	56	67,915	67,971	2,425
1997	78,648	10,169	-	4	71,354	71,358	3,139
1998	76,026	15,611	-	-	61,089	61,089	2,860
1999	75,159	11,274	-	-	63,879	63,879	3,144
2000	76,202	14,869	-	-	62,382	62,382	3,702
2001	76,507	16,166	-	-	62,707	62,707	3,483
2002	76,943	15,525	-	-	64,078	64,078	3,409
2003	73,048	13,538	-	-	60,484	60,484	3,323
2004	75,494	18,323	-	-	58,151	58,151	3,237
2005	73,823	14,515	-	-	59,561	59,561	3,146
2006	79,677	19,927	-	-	59,874	59,874	3,223
2007	78,212	15,336	-	-	62,500	62,500	3,344
2008	92,864	30,911	-	-	62,937	62,937	2,650
2009	108,680	40,187	-	-	65,872	65,872	3,203
2010	111,811	39,338	-	-	68,931	68,931	3,842
2011	123,612	53,519	-	-	69,574	69,574	3,201
2012	137,387	63,492	-	-	71,765	71,765	5,099
2013	135,012	64,013	-	-	73,416	73,416	5,061
2014	145,056	73,327	-	-	73,473	73,473	4,446
2015	157,326	79,293	-	-	76,570	76,570	5,104
2016	153,557	76,258	-	-	78,926	78,926	5,697
2017	157,908	82,217	-	-	79,616	79,616	5,676
2018	167,195	87,895	-	-	79,681	79,681	7,179
2019	168,227	87,872	-	-	82,750	82,750	6,134
2020	143,047	74,147	-	-	80,965	80,965	4,906

1. 전환부문 소비량 포함

자료: 한국석유공사

## 3-4-2. 등유 Kerosene

Unit: Thousand barrels

	공급 Supply			소비 Consumption					재고 Stocks
	생산 Production	수입 Imports	수출 Exports	산업 Industry	수송 Transport	가정·상업 Residential· Commercial	공공 Public	합계 <sup>1</sup> Total <sup>1</sup>	
1981	8,154	-	704	1,133	155	6,293	269	7,853	596
1982	8,244	-	704	1,088	164	6,116	276	7,648	567
1983	9,199	-	1,158	1,355	345	5,867	254	7,823	-
1984	9,109	-	1,333	1,286	235	6,302	220	8,044	487
1985	10,699	-	1,892	1,401	148	6,128	254	7,932	630
1986	9,533	-	1,724	1,752	228	5,745	259	7,985	446
1987	7,140	2,588	1,289	1,855	155	5,887	258	8,156	454
1988	10,803	475	1,100	2,227	107	7,311	320	9,987	772
1989	12,747	4,156	1,515	2,631	113	11,177	460	14,382	1,317
1990	13,537	17,465	97	4,480	156	19,370	933	24,942	6,233
1991	13,596	9,771	-	4,753	152	20,156	535	25,599	1,944
1992	29,309	8,986	3	5,100	236	36,621	540	34,249	3,277
1993	31,915	16,016	5	5,435	254	46,946	581	43,259	5,003
1994	32,305	17,087	465	5,564	219	41,463	580	47,835	5,954
1995	41,921	23,361	564	7,284	229	54,455	697	62,669	6,294
1996	51,302	27,679	2,913	7,500	297	65,103	737	73,662	8,025
1997	71,899	15,769	10,250	14,085	283	70,010	627	85,025	6,275
1998	62,501	5,103	6,949	11,695	350	48,712	626	61,457	7,751
1999	90,501	2,687	14,986	8,538	159	66,060	1,053	76,928	7,933
2000	87,797	6,870	19,874	8,237	91	59,664	960	69,909	10,768
2001	74,833	5,310	18,006	6,562	132	53,828	677	61,707	8,670
2002	61,646	6,917	10,205	6,737	229	49,834	601	58,464	4,919
2003	63,338	6,624	13,144	5,983	189	44,338	587	52,874	6,149
2004	49,446	1,710	7,693	5,585	110	36,004	555	42,979	4,448
2005	43,294	360	4,455	5,479	87	32,368	656	39,392	2,827
2006	40,389	259	4,763	4,711	66	24,965	655	31,450	4,733
2007	28,387	514	1,250	4,381	48	20,439	535	26,172	3,631
2008	30,917	379	2,396	4,307	51	22,017	644	27,659	2,410
2009	32,514	68	5,425	4,165	52	20,342	729	25,991	2,308
2010	38,681	331	6,462	4,983	79	22,893	743	29,354	3,009
2011	34,718	417	8,960	4,252	84	20,144	588	25,430	2,429
2012	26,615	151	7,582	3,686	126	17,457	457	22,009	1,993
2013	21,499	98	6,685	3,270	49	14,830	414	18,816	2,320
2014	16,746	133	4,438	1,591	32	13,019	730	15,429	1,714
2015	18,493	11	3,769	1,019	64	14,075	1,054	16,227	2,224
2016	19,520	18	2,065	1,082	20	16,325	1,148	19,060	2,217
2017	19,896	37	5,227	954	3	16,098	1,078	19,006	1,818
2018	21,125	1	6,530	1,048	5	15,817	1,040	18,870	2,282
2019	20,705	35	4,171	1,306	5	14,129	616	17,127	2,523
2020	43,646	80	6,397	2,031	8	13,962	184	16,964	1,569

1. Includes transformation consumption.

Source: Korea National Oil Corporation

## 3-4-3. 경유 Diesel Oil

단위: 천 배럴

	공급 Supply			소비 Consumption					재 고 Stocks
	생산 Production	수입 Imports	수출 Exports	산업 Industry	수 송 Transport	가정·상업 Residential· Commercial	공 공 Public	합계 <sup>1</sup> Total <sup>1</sup>	
1981	40,622	132	950	10,927	13,238	9,212	5,076	38,983	2,075
1982	40,716	1,204	1,428	10,082	16,683	7,975	5,076	40,133	2,104
1983	48,560	1,092	4,687	9,505	23,135	6,049	5,247	44,609	2,009
1984	54,167	1,780	4,554	10,783	25,769	7,048	5,027	49,639	2,053
1985	54,720	2,504	4,636	11,969	28,117	6,542	4,973	52,188	1,919
1986	58,804	4,194	5,035	13,554	31,498	6,287	5,240	57,137	1,921
1987	59,605	10,188	5,551	14,751	35,781	7,400	5,115	63,536	1,789
1988	73,917	7,863	5,808	17,151	41,747	9,961	4,906	74,409	2,659
1989	88,340	6,950	8,363	18,319	46,628	12,543	5,637	83,901	3,979
1990	94,556	13,586	10,453	20,658	52,974	16,451	5,590	97,449	3,315
1991	127,271	10,803	20,661	23,939	59,595	23,187	5,884	114,521	4,780
1992	152,577	5,781	27,124	24,823	65,137	28,547	4,873	127,434	6,763
1993	167,967	11,226	35,709	26,229	70,771	34,190	4,666	138,021	8,005
1994	169,040	17,435	34,310	27,892	76,737	34,795	4,945	147,264	8,567
1995	180,908	32,190	42,443	29,303	86,412	36,533	4,758	163,108	11,115
1996	216,446	18,540	54,208	31,020	92,792	33,144	5,085	172,401	11,791
1997	264,173	3,134	93,711	31,795	90,485	30,856	4,964	166,787	12,257
1998	232,500	2,198	109,238	23,498	71,579	19,650	3,771	120,371	10,262
1999	218,670	2,311	88,353	22,985	80,162	18,143	3,687	126,071	9,648
2000	338,517	198	175,032	16,959	132,836	8,506	4,976	163,464	8,609
2001	218,888	6,681	90,440	25,164	94,976	8,095	3,628	132,167	8,903
2002	207,736	12,928	76,235	23,189	103,164	7,339	3,653	138,044	7,106
2003	202,677	11,141	60,817	21,125	110,118	8,189	3,618	145,365	7,306
2004	212,548	4,290	68,038	19,618	112,041	8,482	3,447	143,916	8,951
2005	230,964	1,912	85,890	19,188	111,440	8,190	3,564	142,517	7,420
2006	238,350	1,582	91,520	20,530	112,042	5,720	3,906	142,397	8,354
2007	253,196	765,499	102,974	20,983	114,081	6,104	3,908	145,260	10,197
2008	264,470	369,211	130,936	18,752	106,710	4,915	3,783	134,363	8,572
2009	261,714	835,937	125,474	19,275	103,896	4,894	3,909	132,116	7,461
2010	268,392	758,082	130,761	20,333	104,940	4,783	4,098	134,400	8,313
2011	292,281	950,346	159,181	20,083	104,575	4,902	3,754	133,923	7,406
2012	309,738	4,783	176,464	19,573	104,395	4,878	4,225	134,212	9,376
2013	297,779	8,597	163,759	20,606	108,568	5,159	4,113	139,192	9,542
2014	314,502	5,152	174,142	18,963	112,101	6,086	4,387	141,673	8,677
2015	333,421	267	171,999	17,572	122,631	8,046	4,918	153,255	11,079
2016	338,517	198,334	175,032	16,959	132,836	8,506	4,976	163,464	8,609
2017	344,882	236	176,154	16,062	138,148	9,057	5,197	168,564	9,463
2018	358,780	237	190,712	15,066	136,841	7,044	4,802	164,082	11,149
2019	366,713	138	195,231	15,817	139,790	5,730	4,599	166,910	10,473
2020	350,147	19	200,099	16,479	134,850	3,109	4,053	158,913	7,511

1. 전환부문 소비량 포함

자료: 한국석유공사



## 3-4-4. 중유 Residual Fuel Oil

Unit: Thousand barrels

	공급 Supply			소비 Consumption					재고 Stocks
	생산 Production	수입 Imports	수출 Exports	산업 Industry	수송 Transport	가정·상업· Residential· Commercial	공공 Public	합계 <sup>1</sup> Total <sup>1</sup>	
1981	85,532	10,538	-	34,029	4,051	6,457	1,855	94,428	5,458
1982	81,377	14,560	886	29,964	3,806	6,333	1,825	91,274	5,574
1983	86,089	10,891	4,728	29,609	3,471	6,626	2,036	89,787	4,895
1984	84,867	11,477	9,792	31,091	3,407	6,915	1,952	80,377	4,528
1985	73,551	9,529	7,475	30,673	3,671	7,343	2,266	71,842	2,890
1986	74,272	10,824	8,755	33,260	4,542	7,897	2,403	67,897	4,068
1987	73,221	13,211	14,734	37,070	8,115	8,432	2,509	63,238	3,483
1988	89,752	10,883	10,590	42,693	8,062	9,668	2,657	80,158	3,521
1989	105,091	11,393	13,262	49,177	8,136	10,501	2,385	91,080	4,597
1990	102,941	27,658	12,091	58,458	8,435	11,801	2,020	108,676	3,625
1991	148,183	34,209	37,925	64,059	9,965	11,312	2,161	126,933	6,187
1992	179,376	34,271	50,708	70,471	12,091	11,736	2,072	144,486	9,383
1993	189,121	32,624	49,693	73,505	15,109	11,918	2,160	150,031	8,292
1994	196,381	35,486	40,082	78,902	17,587	11,081	1,848	164,156	11,152
1995	209,252	24,824	40,238	76,187	20,389	11,709	1,125	167,574	10,255
1996	214,906	29,143	43,075	78,322	22,303	11,100	1,094	168,071	11,205
1997	238,088	26,757	50,242	69,937	25,415	9,251	1,029	164,742	12,684
1998	210,102	12,926	60,240	58,104	24,400	5,281	601	110,644	10,838
1999	240,579	16,497	82,375	65,076	25,121	5,252	535	120,610	10,465
2000	70,964	47,228	12,994	8,960	18,569	949	38	47,460	11,667
2001	225,643	22,318	67,011	54,968	24,148	4,707	325	128,072	12,273
2002	189,123	23,700	35,025	53,899	24,650	4,645	269	121,498	11,607
2003	204,000	13,829	45,835	49,565	24,979	4,588	293	115,821	10,251
2004	201,969	8,285	45,539	45,337	22,685	3,571	246	103,015	11,779
2005	211,147	4,021	56,065	42,286	23,188	3,922	275	100,511	9,356
2006	207,385	8,737	58,266	38,040	25,078	4,119	239	96,891	10,744
2007	184,223	5,910	42,699	33,953	23,380	4,583	538	92,809	9,425
2008	150,574	7,192	35,208	28,183	20,641	3,616	202	69,895	9,543
2009	124,580	19,858	25,394	24,698	18,621	2,755	179	69,365	9,117
2010	126,168	17,478	25,565	22,942	18,510	2,394	198	65,294	10,031
2011	124,916	15,392	34,214	18,675	19,174	1,994	171	54,997	11,235
2012	102,615	27,146	28,083	12,944	17,859	1,533	141	54,512	10,594
2013	79,459	44,281	22,049	9,004	13,187	1,275	117	46,367	10,520
2014	55,175	52,006	13,373	8,253	12,824	939	76	33,269	11,301
2015	57,972	46,737	10,648	8,514	15,876	1,240	58	38,314	11,817
2016	70,964	47,228	12,994	8,960	18,569	949	38	47,460	10,547
2017	67,961	40,091	16,186	7,787	19,399	1,100	56	35,817	11,625
2018	68,966	42,915	26,046	7,103	17,793	879	54	33,673	11,906
2019	57,788	31,585	17,152	5,573	13,632	601	65	23,996	9,880
2020	75,267	29,626	12,844	4,740	15,576	295	73	23,773	8,702

1. Includes transformation consumption.  
Source: Korea National Oil Corporation

## 3-4-5. 액화석유가스 Liquefied Petroleum Gases(LPG)

단위: 천 배럴

	공급 Supply			소비 Consumption					재고 Stocks
	생산 Production	수입 Imports	수출 Exports	산업 Industry	수송 Transport	가정·상업 Residential· Commercial	공공 Public	합계 <sup>1)</sup> Total <sup>1)</sup>	
1981	4,055	932	-	777	1,828	2,198	50	4,962	173
1982	4,952	2,577	-	833	3,331	2,850	67	7,224	182
1983	6,106	4,099	-	1,067	5,278	3,274	100	9,930	740
1984	6,476	6,224	-	1,181	6,172	4,470	174	12,201	84
1985	7,413	6,708	-	1,170	6,776	5,698	160	14,247	770
1986	9,730	7,788	-	1,354	7,501	7,994	99	17,585	1,200
1987	10,961	10,214	100	1,387	8,476	10,775	59	21,216	863
1988	11,059	15,078	17	1,566	9,903	13,665	74	25,904	697
1989	10,999	20,229	374	1,849	10,241	16,942	71	30,329	1,087
1990	11,994	27,124	1,098	2,250	11,284	19,693	80	35,712	2,427
1991	12,746	30,301	1,343	4,281	11,719	22,462	79	43,132	1,695
1992	14,666	39,631	655	9,614	12,831	24,945	41	53,917	2,587
1993	13,982	45,479	1,336	9,649	14,009	26,980	36	59,437	2,249
1994	14,710	48,595	1,338	11,484	15,350	26,387	76	63,452	1,083
1995	15,722	53,101	2,911	10,114	16,289	27,321	58	66,468	910
1996	15,747	55,149	3,511	10,447	17,166	28,975	77	68,441	841
1997	20,854	57,230	4,557	15,788	18,357	29,488	158	71,623	4,184
1998	27,506	49,144	10,484	18,675	19,293	25,597	252	67,992	3,890
1999	30,229	57,659	13,649	20,280	23,983	27,997	235	77,007	3,085
2000	34,915	55,763	8,131	19,353	31,847	30,044	244	84,688	3,077
2001	39,362	48,062	4,820	16,669	36,388	29,197	245	84,377	2,523
2002	40,507	56,216	2,882	20,214	39,002	30,325	198	91,415	4,790
2003	38,126	50,801	2,894	18,513	40,720	28,275	172	88,606	5,391
2004	38,580	47,884	964	19,933	42,114	25,294	142	88,375	6,333
2005	37,276	49,689	714	21,614	43,155	25,290	214	91,668	5,078
2006	35,953	54,003	762	24,039	44,666	23,657	255	93,451	4,847
2007	33,951	58,172	532	25,396	47,504	23,145	331	97,143	3,052
2008	34,534	63,041	372	31,389	47,663	20,338	289	101,881	2,594
2009	35,133	66,190	126	34,173	48,956	20,501	237	106,320	2,231
2010	32,631	69,629	911	31,666	48,610	19,734	269	105,175	2,585
2011	18,319	73,940	905	26,912	46,235	19,307	237	99,201	3,102
2012	17,251	69,946	1,785	24,770	44,655	18,422	252	95,473	2,725
2013	20,042	65,968	857	29,000	43,662	18,464	233	93,057	1,911
2014	24,344	63,533	1,348	30,469	40,904	17,262	209	89,577	4,320
2015	25,366	62,712	1,243	30,076	40,448	18,237	211	89,866	3,654
2016	26,026	83,271	1,867	49,999	38,649	18,988	237	108,961	3,242
2017	31,612	73,279	2,413	48,565	36,173	18,642	236	105,145	3,962
2018	33,900	79,325	4,942	54,405	33,726	18,806	233	109,370	4,865
2019	32,893	94,093	5,807	68,037	33,215	18,618	246	122,138	3,759
2020	28,279	101,165	6,044	71,854	28,907	18,426	244	121,294	4,621

1. 전환부문 소비량 포함

자료: 한국석유공사

## 3-4-6. 나프타 Naphtha

Unit: Thousand barrels

	공급 Supply			소비 Consumption				재고 Stocks
	생산 Production	수입 Imports	수출 Exports	산업 Industry	도시가스 City Gas	기타 Others	합계 Total	
1981	21,452	1,559	1,368	20,461	140	-	20,601	-
1982	20,990	1,449	2,937	19,687	183	1	19,871	-
1983	21,748	5,612	4,292	22,651	197	9	22,858	-
1984	27,094	4,912	6,253	24,844	260	-	25,105	1,005
1985	27,419	5,351	5,864	25,825	339	-	26,164	1,632
1986	27,691	8,650	6,829	29,223	448	-	29,802	1,535
1987	30,099	10,348	7,338	31,313	300	-	31,766	1,810
1988	35,229	7,644	9,868	33,575	204	-	33,779	1,171
1989	35,883	6,523	7,666	33,876	291	-	34,167	1,799
1990	35,487	15,409	3,325	47,324	220	-	47,553	1,702
1991	53,044	24,862	5,625	65,242	-	429	65,671	3,075
1992	65,259	47,948	5,430	97,158	-	-	97,158	6,394
1993	65,480	62,414	10,328	108,577	-	-	108,577	6,717
1994	67,969	72,167	9,148	123,276	-	-	123,276	6,260
1995	88,319	71,837	21,337	131,474	-	-	131,474	5,326
1996	103,128	80,204	30,771	141,273	-	-	141,273	6,774
1997	154,319	79,326	36,942	194,918	-	-	194,918	8,080
1998	153,832	105,100	44,848	213,860	-	-	213,860	7,978
1999	164,447	101,119	46,218	218,908	-	-	218,908	6,189
2000	167,012	111,283	48,849	229,026	-	-	229,046	6,926
2001	162,670	119,738	51,228	233,293	-	-	233,293	9,160
2002	163,912	121,912	44,943	245,309	-	-	245,309	7,623
2003	148,923	131,981	30,970	252,417	-	-	252,417	5,878
2004	167,843	131,368	31,157	262,871	-	-	262,871	10,975
2005	176,369	123,292	25,793	273,250	-	-	273,250	11,554
2006	183,067	126,964	27,991	287,003	-	-	287,003	10,655
2007	196,755	143,766	29,423	316,858	-	-	316,858	9,634
2008	173,746	153,381	22,915	311,368	-	-	311,368	9,786
2009	159,064	180,840	26,569	322,622	-	-	322,622	8,330
2010	169,721	188,600	32,111	331,819	-	-	331,819	8,837
2011	195,101	188,507	35,386	355,192	-	-	355,192	8,809
2012	207,104	207,444	33,287	384,603	-	-	384,606	11,795
2013	207,645	208,297	39,552	384,248	-	-	384,248	12,725
2014	218,095	205,726	35,363	396,344	-	-	396,344	12,813
2015	249,936	197,617	47,839	410,809	-	-	410,809	12,123
2016	259,814	202,224	49,763	430,091	-	-	430,091	12,309
2017	309,868	199,632	44,194	458,350	-	-	458,350	10,205
2018	313,927	218,814	43,564	451,158	-	-	451,158	15,096
2019	313,163	226,088	47,382	438,614	-	-	438,614	11,595
2020	286,740	215,878	36,680	405,266	-	-	405,266	16,904

1. Includes transformation consumption.  
Source: Korea National Oil Corporation

## 3-5. 부문별 석유제품 소비(2020)

단위: 천 배럴

	합계		에너지유 Energy Use							
	Total	%	소계 Subtotal	휘발유 Gasoline	등유 Kerosene	경유 Diesel oil	경질중유 Bunker-A	중유 Bunker-B	중질중유 Bunker-C	항공유 Jet oil
<b>합계</b>	<b>872,362</b>	<b>100.0</b>	<b>302,344</b>	<b>80,965</b>	<b>16,964</b>	<b>158,913</b>	<b>1,457</b>	<b>205</b>	<b>22,111</b>	<b>21,729</b>
<b>산업부문</b>	<b>543,857</b>	<b>62.3</b>	<b>24,550</b>	<b>1,298</b>	<b>2,031</b>	<b>16,479</b>	<b>649</b>	<b>144</b>	<b>3,947</b>	<b>2</b>
농림수산업	10,971	1.3	10,881	938	1,346	8,351	116	77	54	-
광업	486	0.1	426	1	5	365	38	0	17	-
제조업	517,158	59.3	8,289	290	556	3,267	286	36	3,854	2
음식·담배	561	0.1	290	1	43	113	7	4	123	-
섬유·의복	202	0.0	142	1	43	28	4	7	59	-
목재·나무	47	0.0	44	2	6	28	1	0	8	-
펄프·인쇄	261	0.0	121	1	8	53	4	2	53	-
석유·화학	492,002	56.4	1,502	1	46	56	78	11	1,310	-
비금속	3,634	0.4	2,566	1	4	910	18	4	1,629	-
1차금속	694	0.1	39	-	1	32	1	0	5	-
비철금속	313	0.0	181	-	-	22	1	0	158	-
조립금속	2,246	0.3	1,731	246	55	934	155	1	339	0
기타제조	10,656	1.2	1,580	37	340	1,066	18	6	112	2
기타에너지	6,541	0.7	94	-	10	25	0	-	59	-
건설업	15,242	1.7	4,954	70	124	4,497	209	31	23	-
<b>수송부문</b>	<b>277,191</b>	<b>31.8</b>	<b>248,242</b>	<b>79,389</b>	<b>8</b>	<b>134,850</b>	<b>708</b>	<b>42</b>	<b>14,826</b>	<b>18,420</b>
철도운수	586	0.1	586	-	0	585	-	-	-	-
육상운수	238,039	27.3	209,145	79,388	6	129,736	1	0	13	-
수상운수	20,125	2.3	20,075	1	1	4,512	707	42	14,812	-
항공운수	18,442	2.1	18,437	0	0	17	-	0	-	18,420
<b>가정부문</b>	<b>21,668</b>	<b>2.5</b>	<b>14,400</b>	<b>13</b>	<b>11,919</b>	<b>2,276</b>	<b>10</b>	<b>8</b>	<b>174</b>	<b>-</b>
<b>상업부문</b>	<b>14,957</b>	<b>1.7</b>	<b>3,114</b>	<b>53</b>	<b>2,043</b>	<b>833</b>	<b>42</b>	<b>10</b>	<b>51</b>	<b>81</b>
<b>공공부문</b>	<b>8,095</b>	<b>0.9</b>	<b>7,748</b>	<b>211</b>	<b>184</b>	<b>4,053</b>	<b>48</b>	<b>1</b>	<b>24</b>	<b>3,226</b>
<b>전환부문</b>	<b>6,594</b>	<b>0.8</b>	<b>4,291</b>	<b>0</b>	<b>779</b>	<b>422</b>	<b>-</b>	<b>-</b>	<b>3,089</b>	<b>-</b>
발전	3,826	0.4	3,293	0	779	391	-	-	2,122	-
지역난방	1,594	0.2	967	-	-	-	-	-	967	-
가스제조	1,174	0.1	31	0	-	31	-	-	-	-

1. 파리핀왁스, 석유코크, 기타제품 포함

자료: 한국석유공사

## 3-5. Petroleum Products Consumption by Sector(2020)

Unit: Thousand barrels

액화석유가스 Liquefied Petroleum Gases(LPG)			비에너지유 Non-Energy Use						
소계 Subtotal	프로판 Propane	부 탄 Butane	소계 Subtotal	나프타 Naphtha	용 제 Solvent	아스팔트 Asphalt	윤활유 Lubricant	기타 <sup>1</sup> Others <sup>1</sup>	
121,294	81,383	39,911	448,724	405,266	2,154	10,054	4,593	26,658	<b>Total</b>
71,854	61,845	10,009	447,454	405,266	1,844	10,054	4,593	25,698	<b>Industry</b>
61	60	1	28	-	2	-	-	26	Agriculture/Forestry/Fishery
56	56	0	4	-	1	-	-	3	Mining
71,519	61,511	10,007	437,350	405,266	1,840	-	4,593	25,652	Manufacturing
228	217	11	42	-	-	-	-	42	Food & Tobacco
40	38	2	20	-	9	-	-	11	Textile & Apparel
2	2	-	0	-	0	-	-	0	Wood & Wood Products
54	54	-	87	-	71	-	-	16	Pulp & Publications
61,151	52,704	8,447	429,349	405,266	1,258	-	-	22,825	Chemical
154	154	0	914	-	1	-	-	914	Non-metallic
652	619	34	3	-	1	-	-	2	Iron & Steel
127	126	1	5	-	2	-	-	4	Non-ferrous
492	470	22	23	-	13	-	-	10	Fabricated metal
7,831	6,382	1,449	1,245	-	257	-	-	988	Other Manufacturing
786	746	41	5,661	-	228	-	4,593	840	Other Energy
217	217	-	10,071	-	-	10,054	-	17	Construction
28,907	17	28,890	42	-	0	-	-	42	<b>Transport</b>
0	0	-	-	-	-	-	-	-	Rail
28,894	4	28,890	1	-	0	-	-	1	Road
10	10	-	40	-	0	-	-	40	Water
3	3	-	1	-	-	-	-	1	Air
7,162	7,000	162	106	-	85	-	-	21	<b>Residential</b>
11,264	10,492	772	580	-	223	-	-	357	<b>Commercial</b>
244	243	1	102	-	2	-	-	100	<b>Public &amp; Other</b>
1,863	1,787	76	440	-	-	-	-	440	<b>Transformation</b>
218	213	5	315	-	-	-	-	315	Power Generation
616	616	-	10	-	-	-	-	10	District Heating
1,029	958	71	114	-	-	-	-	114	Gas Manufacturing

1. Includes paraffin waxes, petroleum coke and other petroleum Products.  
Source: Korea National Oil Corporation

### 4. 석유제품 소비자가격 Retail Prices of Petroleum Products

	휘발유 <sup>1</sup>	실내등유 <sup>1</sup>	자동차용 경유 <sup>1</sup>	프로판 <sup>2</sup>	부 탄 <sup>3</sup> Butane <sup>3</sup>	
	Gasoline <sup>1</sup>	Kerosene <sup>1</sup>	Diesel oil <sup>1</sup>	Propane <sup>2</sup>	일반용 Residential· Commercial	자동차용 Automobile
	원/리터(Won/ℓ)			원/kg(Won/kg)		원/리터(Won/ℓ)
1981	-	257.7	245.9	848.0	740.2	-
1982	-	292.0	278.0	836.3	736.2	-
1983	-	292.3	278.3	747.7	647.9	-
1984	-	291.0	277.0	740.0	640.0	-
1985	-	291.0	277.0	740.0	640.0	-
1986	-	249.2	238.3	605.9	502.3	-
1987	547.0	234.7	225.1	556.4	443.4	-
1988	445.6	194.7	187.3	458.6	336.6	-
1989	379.8	186.0	179.0	514.0	293.0	-
1990	383.5	191.3	182.0	415.0	293.0	-
1991	480.7	226.9	182.0	430.4	286.3	-
1992	555.8	235.8	198.7	449.4	293.9	-
1993	610.0	254.0	214.0	460.0	304.0	-
1994	611.0	271.0	227.1	475.0	304.0	-
1995	598.0	261.6	239.4	489.7	314.9	-
1996	675.8	314.7	300.8	510.0	330.0	-
1997	838.7	373.5	376.2	599.0	417.8	-
1998	1,122.6	524.2	553.5	815.0	620.0	-
1999	1,191.9	491.2	521.8	678.3	483.3	-
2000	1,248.4	559.6	612.8	809.3	614.3	-
2001	1,280.0	580.2	644.6	919.0	755.1	440.0
2002	1,269.1	554.4	677.6	887.3	639.3	457.7
2003	1,294.8	638.8	772.0	980.0	698.5	567.4
2004	1,365.3	752.2	907.9	1,050.2	750.6	673.9
2005	1,432.3	871.0	1,079.7	1,131.5	807.1	723.4
2006	1,492.4	931.9	1,228.2	1,242.7	889.3	747.9
2007	1,525.9	932.2	1,272.7	1,330.6	931.3	773.8
2008	1,692.1	1,238.7	1,614.4	1,789.9	1,343.0	1,009.0
2009	1,600.7	976.2	1,397.5	1,577.2	1,191.0	828.7
2010	1,710.4	1,076.0	1,502.8	1,812.7	1,320.3	952.2
2011	1,929.3	1,321.2	1,745.7	2,034.0	1,480.4	1,076.1
2012	1,985.8	1,394.1	1,806.3	2,105.9	1,572.5	1,101.9
2013	1,924.5	1,366.7	1,729.6	2,085.3	1,515.6	1,070.8
2014	1,827.3	1,296.7	1,636.7	2,112.9	1,492.3	1,051.2
2015	1,510.4	947.4	1,299.6	1,801.3	1,097.7	806.4
2016	1,402.6	784.5	1,182.5	1,689.1	966.2	734.0
2017	1,491.3	853.1	1,282.5	1,833.8	1,127.3	826.5
2018	1,581.4	942.3	1,391.9	1,920.4	1,213.4	874.5
2019	1,472.4	961.7	1,340.5	1,869.9	1,130.0	806.3
2020	1,381.4	853.8	1,189.7	1,851.2	1,112.2	790.8

1. 주유소 판매가격  
 2. 일반용 프로판의 판매소 판매가격  
 3. 충전소 판매가격(단, 1999년 이전의 자동차용 도시가스용 부탄의 정유사 판매가격이며 단위는 원/kg 임.)  
 자료: 한국석유공사(www.petronet.co.kr)

1. Gas station sales prices  
 2. Sales prices at general-purpose propane  
 3. LPG station sales prices. Prior to 1990, butane for automobile is refiner sales price for city gas(KWR/kg).  
 Source : Korea National Oil Corporation.

## 3. 가스

### Gas

1. 액화천연가스 수급  
LNG Overview
2. 국별 액화천연가스 수입  
LNG Imports by Country of Origin
3. 액화천연가스 생산설비  
LNG Production Facilities
4. 용도별 도시가스 소비  
City Gas Consumption by Use
5. 부문별 도시가스 소비  
City Gas Consumption by Sector
6. 지역별 도시가스 수요가수  
Number of City Gas Customers by Region
7. 도시가스 가격  
City Gas Prices

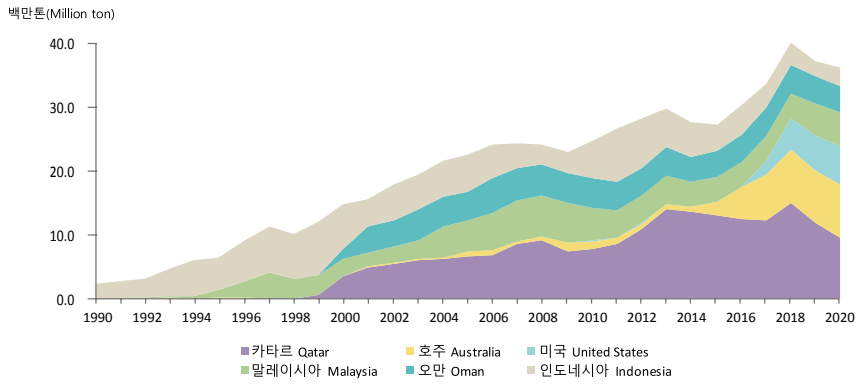






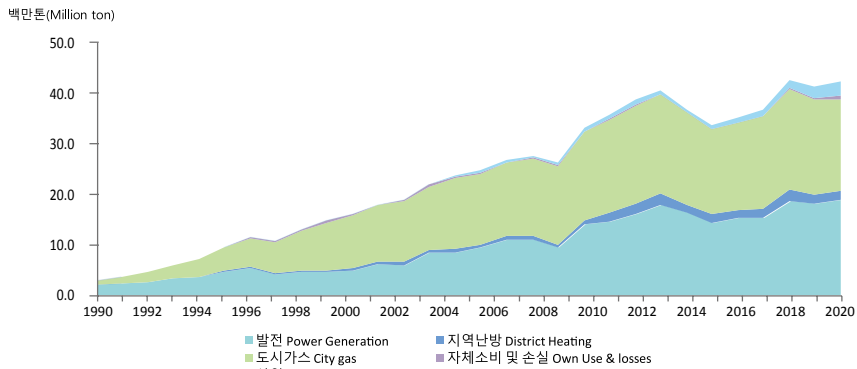
● 액화천연가스 수입 LNG Imports

<1990~2020>



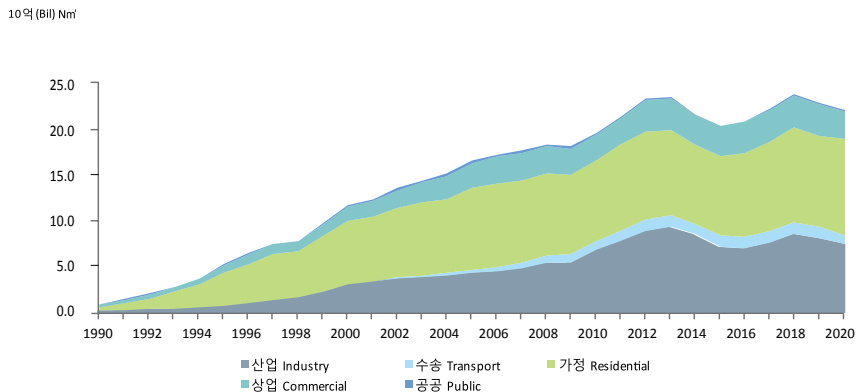
● 액화천연가스 소비 LNG Consumption

<1990~2020>



● 도시가스 소비 City gas consumption

<1990~2020>



## 1. 액화천연가스 수급 LNG Overview

	공급 Supply			수요 Demand					재고 Stocks
	국내생산 Production	수입 <sup>1</sup> Imports <sup>1</sup>		합계 Total	발전 Power Generation	지역난방 District Heating	도시가스 제조 Gas Manufacturing	기타 <sup>2</sup> Other <sup>2</sup>	
		1,000 ton	1,000 ton						
1988	-	1,898	323	2,094	1,905	0	184	5	96
1989	-	2,015	347	2,027	1,670	0	349	8	84
1990	-	2,237	460	2,329	1,741	0	576	12	46
1991	-	2,494	485	2,694	1,800	0	879	15	110
1992	-	2,994	562	3,524	2,225	0	1,256	43	67
1993	-	4,459	781	4,402	2,518	0	1,847	37	97
1994	-	5,928	961	5,860	3,215	114	2,451	80	157
1995	-	7,060	1,275	7,087	3,562	0	3,417	108	103
1996	-	9,595	1,878	9,363	4,449	173	4,561	179	369
1997	-	11,629	2,296	11,379	5,198	179	5,770	232	605
1998	-	10,600	1,549	10,645	4,030	160	6,233	222	527
1999	-	12,973	1,973	12,961	4,591	177	7,886	306	539
2000	-	14,578	3,882	14,557	4,353	335	9,528	340	591
2001	-	16,164	3,990	15,990	4,657	630	10,300	403	738
2002	-	17,470	4,120	17,766	5,900	609	11,194	63	426
2003	-	19,434	5,082	18,610	5,853	615	11,978	165	1,063
2004	163	22,153	6,552	21,809	8,242	576	12,504	487	1,602
2005	398	22,341	8,646	23,632	8,359	685	14,077	511	959
2006	355	25,222	11,925	24,619	9,292	619	13,957	751	1,936
2007	271	25,568	12,653	26,516	10,897	631	14,449	539	1,099
2008	181	27,259	19,806	27,439	10,914	603	15,316	607	2,558
2009	383	25,822	13,875	26,083	9,376	524	15,510	673	1,728
2010	415	32,603	17,006	33,083	13,937	651	17,522	973	2,667
2011	347	36,685	23,859	35,603	14,412	1,760	18,255	1,177	3,323
2012	334	36,184	27,364	38,485	15,796	2,046	19,558	1,086	1,840
2013	355	39,876	30,645	40,278	17,756	2,108	19,596	818	2,237
2014	247	37,107	31,403	36,636	16,068	1,654	18,180	734	3,234
2015	144	33,366	18,779	33,438	14,252	1,538	16,929	718	3,034
2016	118	33,453	12,170	34,906	15,092	1,556	17,384	874	1,695
2017	261	37,537	15,616	36,398	15,154	1,684	18,390	1,170	2,308
2018	234	44,015	23,189	42,285	18,507	2,255	19,813	1,710	4,281
2019	198	40,748	20,567	40,991	17,945	1,902	18,822	2,321	3,976
2020	142	39,982	15,716	42,091	18,612	1,778	18,247	3,454	2,874

1. 한국무역협회의 "한국무역통계-품목별 수출입" 자료이며 통관기준 통계량임.

2. 자체소비, 미계량, 시운전, 시험, 산업용에 사용된 소비량임.

자료: 한국가스공사, LNG 직도입사, 한국무역협회

1. Standard of customs clearance

2. For self-consumption, unaccounted, test-driving, industry.

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

## 2. 국별 액화천연가스 수입 LNG Imports by Country of Origin

단위: 천 톤

Unit: Thousand Tons

	합계	인도네시아	카타르	말레이시아	오만	미국	호주	기타 <sup>1</sup>
	Total	Indonesia	Qatar	Malaysia	Oman	United States	Australia	Other <sup>1</sup>
1988	1,898	1,898	-	-	-	-	-	-
1989	2,015	2,015	-	-	-	-	-	-
1990	2,237	2,237	-	-	-	0	-	-
1991	2,494	2,436	-	58	-	-	-	-
1992	2,994	2,935	-	58	-	-	-	-
1993	4,459	4,112	-	290	-	-	57	-
1994	5,996	5,433	-	292	-	-	-	271
1995	6,756	4,892	-	1,040	-	-	114	710
1996	9,258	5,975	-	2,573	-	0	56	654
1997	11,471	6,730	-	3,928	-	-	-	813
1998	10,189	6,736	-	2,851	-	-	-	602
1999	12,284	7,943	480	3,046	-	0	-	815
2000	15,239	6,633	3,251	2,529	1,619	0	54	1,153
2001	15,318	4,055	4,655	2,175	3,784	0	57	591
2002	17,993	5,256	5,123	2,400	3,970	0	176	1,068
2003	19,308	5,200	5,694	2,798	4,714	-	123	779
2004	21,781	5,290	5,818	4,638	4,411	0	285	1,339
2005	22,317	5,502	6,211	4,688	4,244	-	748	925
2006	25,256	5,060	6,458	5,546	5,221	-	701	2,270
2007	25,569	3,755	8,031	6,161	4,792	0	422	2,407
2008	27,259	3,053	8,744	6,247	4,544	-	398	4,273
2009	25,822	3,084	6,973	5,874	4,551	-	1,314	4,026
2010	32,603	5,451	7,449	4,745	4,557	232	1,030	9,140
2011	36,685	7,894	8,153	4,144	4,195	113	787	11,398
2012	36,184	7,445	10,278	4,082	4,127	57	832	9,362
2013	39,876	5,627	13,354	4,314	4,331	-	620	11,629
2014	37,107	5,176	12,853	3,673	3,726	-	836	10,842
2015	33,366	3,776	12,442	3,698	3,990	-	1,952	7,507
2016	33,453	4,362	11,880	3,813	4,081	28	4,695	4,595
2017	37,537	3,542	11,554	3,749	4,231	1,959	6,997	5,505
2018	44,015	3,447	14,245	3,702	4,282	4,658	7,871	5,811
2019	40,748	2,336	11,311	4,802	3,946	5,226	7,775	5,353
2020	39,982	2,699	9,087	4,918	3,900	5,762	7,972	5,646

1. 브루나이, 러시아, 나이지리아, 페루, 파푸아 뉴기니, 트리니다드 토바고, 적도 기니, 아랍에미리트 등임.

자료 : 한국무역협회

1. Brunei, Russia, Nigeria, Peru, Papua New Guinea, Trinidad and Tobago, Equatorial Guinea, U.A.E etc.

Source : Korea International Trade Association

## 3. 액화천연가스 생산설비 LNG Production Facilities

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

주: 한국가스공사 설비만 반영  
자료: 한국가스공사

Note: Korea Gas Corporation reflecting the facilities only  
Source: Korea Gas Corporation

### 4. 용도별 도시가스 소비 City Gas Consumption by Use

단위: 천 m<sup>3</sup>

Unit: Thousand m<sup>3</sup>

	합계 Total	가정용 Residential		일반용(상업용) Commercial	업무용 Office	산업용 Industrial	열병합발전 CHP	수송용 Transport
		취사 Cooking	난방 Space Heating					
1982	26,028	-	-	-	-	-	-	-
1983	28,742	27,248	-	1,494	-	-	-	-
1984	48,201	42,743	-	4,513	50	895	-	-
1985	79,692	55,376	-	9,445	714	14,157	-	-
1986	125,999	70,962	-	15,182	2,142	37,713	-	-
1987	189,733	67,446	23,755	19,320	7,598	71,614	-	-
1988	322,946	84,022	57,515	27,449	48,898	105,062	-	-
1989	589,479	112,412	120,968	37,543	167,589	150,967	-	-
1990	963,345	140,023	292,717	47,593	259,621	223,391	-	-
1991	1,466,912	187,919	582,690	62,766	335,414	298,123	-	-
1992	2,113,518	243,965	1,006,533	73,496	430,370	359,154	-	-
1993	2,951,154	301,984	1,526,176	91,797	501,082	438,077	92,038	-
1994	3,941,663	394,807	2,137,061	104,530	628,405	571,814	105,046	-
1995	5,327,485	477,015	3,003,666	128,426	761,937	821,746	134,695	-
1996	6,780,016	588,539	3,801,731	162,560	942,981	1,102,816	181,389	-
1997	7,893,419	680,905	4,364,056	178,643	1,013,179	1,424,511	232,125	-
1998	8,193,908	765,638	4,310,762	238,265	930,315	1,726,479	222,449	-
1999	10,205,272	823,070	5,271,132	336,562	1,116,473	2,410,083	247,952	-
2000	12,180,448	902,700	6,100,221	686,113	1,074,457	3,150,793	266,164	-
2001	12,858,786	961,288	6,206,838	820,031	1,160,653	3,429,171	270,338	10,467
2002	14,090,741	1,054,822	6,668,146	1,015,962	1,192,414	3,794,484	289,000	75,913
2003	14,971,677	1,118,896	7,005,543	1,207,702	1,224,401	3,978,482	297,996	138,657
2004	15,671,349	1,154,023	7,070,975	1,384,659	1,332,843	4,173,380	329,941	225,528
2005	17,294,696	1,217,514	7,681,470	1,576,396	1,598,273	4,433,761	464,185	323,097
2006	17,614,948	1,280,123	7,512,632	1,677,454	1,568,894	4,616,269	507,057	452,519
2007	18,190,408	1,352,887	7,392,141	1,752,143	1,597,372	4,952,347	560,739	582,779
2008	19,237,924	1,379,507	7,463,631	1,791,507	1,613,490	5,623,731	629,756	736,302
2009	19,405,838	1,437,463	7,443,115	1,788,787	1,614,604	5,583,648	628,427	909,794
2010	21,953,776	1,482,619	8,124,063	1,864,050	1,723,507	6,947,055	758,742	1,053,740
2011	22,950,663	1,558,603	8,014,449	1,865,820	1,575,315	7,946,294	877,139	1,113,043
2012	24,605,396	1,593,842	8,134,667	1,913,666	1,564,516	9,054,083	1,149,663	1,194,959
2013	24,942,245	1,548,077	8,022,246	1,939,014	1,495,233	9,619,727	1,058,964	1,258,984
2014	23,026,898	1,525,794	7,337,433	1,907,617	1,341,689	8,784,060	863,993	1,266,312
2015	21,596,040	1,549,597	7,349,229	1,913,771	1,356,893	7,410,258	769,213	1,247,079
2016	22,228,820	1,542,906	7,891,401	1,991,352	1,482,267	7,367,753	715,368	1,237,773
2017	23,613,566	1,439,936	8,614,736	2,102,631	1,508,341	7,899,511	820,305	1,228,106
2018	25,574,622	1,387,201	9,331,955	2,215,979	1,536,529	8,898,329	988,715	1,215,914
2019	24,414,264	1,689,615	8,599,749	2,230,897	1,417,542	8,395,924	889,558	1,190,980
2020	23,557,167	1,562,286	9,140,084	1,976,379	1,258,780	7,673,986	869,056	1,076,596

주: 열병합발전용에는 집단에너지용 포함  
 자료: 한국도시가스협회

Note: CHP includes the community Energy Service.  
 Source: Korea City Gas Association

## 5. 부문별 도시가스 소비

단위: 백만 m<sup>3</sup>

	합계 Total	산업 Industry							
		농림어업 Agriculture, Forestry and Fisheries	제조업 Manufacturing						
			음식·담배 Food/ Tobacco	섬유·의복 Textile/ Apparel	목재·나무 Wood/ Wood Products	펄프·인쇄 Pulp/ Publications	석유·화학 Petro/ Chemical		
1981	21	-	-	-	-	-	-	-	-
1982	25	-	-	-	-	-	-	-	-
1983	34	-	-	-	-	-	-	-	-
1984	47	1	-	1	0	-	-	-	-
1985	77	14	-	14	1	0	-	-	-
1986	120	36	-	36	2	0	-	-	-
1987	181	68	-	68	4	0	-	-	-
1988	308	100	-	100	5	1	-	-	-
1989	590	151	-	151	13	8	-	1	2
1990	963	223	-	-	-	-	-	-	-
1991	1,467	298	0	298	14	16	0	3	16
1992	2,114	359	0	359	15	19	0	4	24
1993	2,883	438	0	438	15	26	0	7	27
1994	3,864	572	0	571	19	42	1	16	34
1995	5,327	822	1	821	29	63	3	21	52
1996	6,607	1,139	1	1,139	38	89	2	24	76
1997	7,708	1,425	1	1,423	40	130	3	30	109
1998	8,024	1,725	1	1,724	64	219	3	36	156
1999	10,012	2,410	2	2,407	137	281	2	58	204
2000	11,963	3,151	14	3,137	168	407	2	63	304
2001	12,657	3,440	23	3,416	181	418	2	62	317
2002	13,873	3,794	18	3,776	239	421	3	64	381
2003	14,734	3,978	22	3,956	262	410	5	61	425
2004	15,422	4,173	24	4,150	258	400	35	63	417
2005	16,963	4,434	26	4,408	250	379	8	72	429
2006	17,504	4,616	26	4,590	241	367	15	87	379
2007	17,967	4,952	2	4,951	391	304	37	122	720
2008	18,734	5,624	6	5,618	458	424	42	183	1,097
2009	18,445	5,584	4	5,579	488	423	60	222	1,021
2010	19,982	6,947	4	6,942	567	512	50	288	1,563
2011	21,679	7,946	4	7,942	626	557	46	382	2,092
2012	23,776	9,135	6	9,129	672	549	46	418	2,080
2013	23,890	9,510	4	9,506	659	355	63	414	3,057
2014	22,091	8,677	3	8,672	671	361	74	309	2,852
2015	20,785	7,329	3	7,325	658	342	57	220	1,555
2016	21,271	7,226	3	7,222	681	310	28	247	1,047
2017	22,603	7,784	3	7,780	689	278	28	245	1,049
2018	24,275	8,773	3	8,770	773	240	51	253	3,090
2019	23,268	8,299	4	8,295	785	258	26	290	2,568
2020	22,449	7,593	1	7,592	823	222	24	296	2,181

### 5. City Gas Consumption by Sector

Unit: Million m<sup>3</sup>

						수송 Transport	가정 Residential	상업 Commercial	공공 Public	
					건설 Construction					
비금속 Non-Metallic	1차금속 Iron/Steel	비철금속 Non-ferrous metals	조립금속 Fabricated Metal	기타제조 Other Manufacturing						
-	-	-	-	-	-	-	21	-	-	1981
-	-	-	-	-	-	-	25	-	-	1982
-	-	-	-	-	-	-	34	-	-	1983
0	0	-	0	-	-	-	46	-	-	1984
3	3	-	7	0	-	-	63	-	-	1985
8	9	-	18	0	-	-	84	-	-	1986
14	17	-	33	0	-	-	113	-	-	1987
21	24	-	49	0	-	-	208	-	-	1988
35	14	-	79	-	-	-	439	-	-	1989
-	-	-	-	-	-	-	433	307	-	1990
47	81	-	108	12	-	-	771	333	64	1991
57	98	-	123	19	-	-	1,251	425	78	1992
68	120	-	152	24	-	-	1,920	413	112	1993
81	161	-	186	33	-	-	2,637	518	136	1994
103	199	-	265	87	-	-	3,588	799	119	1995
112	269	-	412	116	-	-	4,300	1,022	145	1996
138	330	-	472	172	-	-	5,045	1,085	154	1997
149	354	-	440	303	0	-	5,087	1,059	152	1998
202	479	-	580	464	0	-	6,104	1,309	189	1999
240	616	-	687	650	0	-	7,003	1,591	218	2000
252	681	-	704	799	-	7	7,168	1,796	247	2001
261	685	-	748	974	0	76	7,723	2,030	250	2002
293	759	-	762	980	0	139	8,124	2,246	246	2003
321	843	-	845	969	0	227	8,225	2,530	266	2004
339	926	-	903	1,102	0	323	9,070	2,838	298	2005
488	983	-	902	1,127	0	452	9,224	3,021	190	2006
446	1,156	158	1,059	559	0	583	9,216	2,946	270	2007
395	1,184	176	1,234	424	0	736	9,122	2,975	277	2008
419	1,175	208	1,094	470	0	910	8,784	2,905	262	2009
432	1,384	195	1,293	658	0	1,054	8,878	2,960	144	2010
449	1,320	243	1,568	658	1	1,113	9,597	2,916	106	2011
553	1,289	231	1,595	1,697	1	1,200	9,720	3,546	174	2012
603	1,247	276	1,738	1,093	0	1,247	9,457	3,582	94	2013
543	1,215	246	1,737	665	1	1,253	8,748	3,332	81	2014
512	1,084	326	1,668	903	1	1,235	8,813	3,326	82	2015
502	1,142	291	1,627	1,347	1	1,217	9,249	3,494	84	2016
519	1,203	270	1,608	1,891	1	1,218	9,950	3,576	74	2017
533	1,204	386	1,917	321	0	1,203	10,593	3,608	96	2018
561	1,198	367	1,892	351	0	1,181	10,184	3,528	76	2019
516	1,001	462	1,871	196	0	1,068	10,593	3,128	68	2020

## 6. 지역별 도시가스 수요가수

	합계 <sup>1</sup>	서울	부산	대구	인천	광주	대전	울산	세종
	Total <sup>1</sup>	Seoul	Busan	Daegu	Incheon	Gwangju	Daejeon	Ulsan	Sejong
	가구 수 (세대)								
1996	12,221,206	3,455,975	1,140,293	758,850	739,996	386,216	391,525	349,456	-
1997	12,774,911	3,499,658	1,157,537	769,904	769,103	399,011	407,987	360,634	-
1998	13,001,222	3,473,045	1,173,328	779,433	789,102	411,965	417,523	366,545	-
1999	13,291,085	3,502,464	1,187,703	789,891	804,188	420,898	427,152	373,317	-
2000	13,918,913	3,550,186	1,199,804	805,779	823,572	430,376	439,312	384,562	-
2001	14,290,771	3,608,287	1,210,902	815,709	840,071	439,620	450,489	396,515	-
2002	14,690,695	3,661,692	1,219,902	827,177	866,290	449,469	463,270	407,277	-
2003	15,365,083	3,725,906	1,236,262	845,242	885,682	460,647	479,916	348,058	-
2004	15,895,737	3,790,374	1,251,069	853,142	902,404	469,847	492,068	356,143	-
2005	16,717,096	3,883,054	1,270,612	865,766	926,885	481,935	505,650	365,197	-
2006	17,189,520	3,991,051	1,288,671	875,173	957,861	495,065	518,039	373,114	-
2007	17,640,659	4,057,713	1,300,692	883,920	987,805	503,844	525,880	380,865	-
2008	18,103,112	4,108,833	1,311,724	894,969	1,006,556	513,021	531,682	389,735	-
2009	18,481,247	4,127,839	1,323,771	906,470	1,018,180	524,093	538,100	394,364	-
2010	19,173,013	4,220,779	1,371,346	934,598	1,050,441	540,875	555,768	405,501	-
2011	19,331,316	4,192,752	1,381,257	940,770	1,067,727	549,105	566,324	412,561	-
2012	19,685,618	4,215,952	1,389,526	948,652	1,086,708	555,538	575,600	422,177	-
2013	19,893,966	4,182,350	1,404,663	960,265	1,107,883	563,599	584,877	431,595	53,012
2014	20,302,381	4,199,046	1,421,648	970,618	1,125,197	573,043	592,508	442,250	62,807
2015	20,571,826	4,189,948	1,437,818	982,360	1,142,752	580,427	597,008	451,688	81,806
2016	20,943,233	4,189,839	1,451,270	994,220	1,159,777	586,464	606,137	455,352	94,343
2017	21,348,903	4,218,573	1,467,555	1,006,753	1,177,029	592,818	614,639	458,547	109,490
2018	21,696,420	4,262,366	1,480,468	1,021,266	1,201,455	603,107	624,965	461,756	123,762
2019	22,147,455	4,326,029	1,497,908	1,031,251	1,226,933	616,485	635,343	468,659	135,408
2020	22,642,494	4,416,302	1,530,431	1,056,627	1,239,843	633,582	652,738	476,893	144,275
	수요가수(개) <sup>2</sup>								
1996	4,903,368	2,102,886	284,093	235,297	350,167	138,484	145,778	93,492	-
1997	5,631,468	2,351,903	314,268	270,580	429,803	164,950	161,555	103,250	-
1998	6,350,104	2,554,426	357,751	296,534	493,667	184,186	177,942	122,979	-
1999	7,054,634	2,753,154	400,978	324,480	522,358	214,262	214,011	140,694	-
2000	7,733,607	2,926,591	437,211	354,768	588,051	229,148	241,654	164,724	-
2001	8,455,568	3,077,569	474,147	389,175	641,407	246,996	270,362	187,041	-
2002	9,202,275	3,193,693	510,024	441,951	706,662	273,364	296,317	210,909	-
2003	9,840,498	3,312,945	564,883	500,397	737,607	293,160	318,576	233,073	-
2004	10,408,296	3,386,713	621,069	491,578	770,580	297,725	333,585	217,863	-
2005	10,966,459	3,443,879	674,337	518,973	796,438	320,109	348,131	243,509	-
2006	11,511,445	3,487,887	729,028	554,759	817,222	343,727	395,747	257,787	-
2007	12,037,675	3,525,660	796,528	582,370	847,560	370,025	419,601	267,774	-
2008	12,635,177	3,565,235	860,283	627,393	873,269	413,537	443,176	294,891	-
2009	13,145,581	3,611,840	908,760	662,669	896,246	444,585	462,052	311,576	-
2010	13,885,281	3,783,444	952,242	700,480	933,770	473,603	485,153	327,901	-
2011	14,486,948	3,868,157	1,002,185	732,222	977,038	500,511	513,784	345,653	-
2012	15,054,255	3,921,173	1,059,273	775,472	972,815	523,533	530,299	364,250	-
2013	15,627,644	3,991,519	1,121,579	812,574	992,427	544,158	542,674	379,028	27,846
2014	16,129,913	4,013,249	1,178,096	849,130	1,017,262	571,281	553,353	394,558	45,319
2015	16,617,294	4,048,716	1,228,270	891,117	1,042,413	555,852	561,817	409,472	64,678
2016	17,177,455	4,105,817	1,271,083	934,567	1,067,457	572,660	571,987	418,012	74,845
2017	17,746,992	4,159,785	1,319,756	962,963	1,092,226	588,515	581,453	427,149	89,146
2018	18,305,552	4,186,336	1,367,105	984,148	1,115,967	602,499	592,603	433,523	100,234
2019	18,814,512	4,249,965	1,419,384	1,000,869	1,134,868	618,012	604,211	445,116	108,412
2020	19,257,295	4,309,684	1,460,855	1,027,675	1,144,146	631,681	622,233	457,465	110,909
보급율(%)	85.0	97.6	95.5	97.3	92.3	99.7	95.3	95.9	76.9

주: 가정용 도시가스 수요가수임.

자료: 한국도시가스협회



## 6. Number of City Gas Customers by Region

경기 Gyeonggi	강원 Gangwon	충북 Chungbuk	충남 Chungnam	전북 Jeonbuk	전남 Jeonnam	경북 Gyeongbuk	경남 Gyeongnam	제주 Jeju	
Number of Households									
2,568,872	336,674	260,817	402,869	365,656	315,564	386,055	362,388	-	1996
2,737,567	349,974	272,100	420,431	376,093	326,800	553,272	374,840	-	1997
2,787,991	362,488	283,667	433,225	390,477	360,544	563,547	408,342	-	1998
2,886,473	371,782	290,547	443,679	401,400	365,045	569,843	456,703	-	1999
2,992,522	381,253	309,440	632,803	410,483	369,671	575,594	613,556	-	2000
3,130,162	388,181	316,926	644,513	417,380	373,916	632,550	625,550	-	2001
3,332,202	395,565	325,111	656,741	422,936	378,539	638,792	645,732	-	2002
3,539,862	406,191	438,232	691,966	432,207	411,630	725,715	737,567	-	2003
3,694,291	415,351	449,816	736,328	528,901	416,354	736,795	802,854	-	2004
3,854,802	424,594	462,330	756,073	536,612	483,288	798,123	897,540	204,635	2005
4,020,283	433,824	476,419	774,490	545,168	489,333	821,898	920,707	208,424	2006
4,189,798	442,313	488,540	796,086	552,058	497,013	837,576	984,706	211,850	2007
4,282,628	479,865	587,411	812,871	561,437	504,593	893,216	1,009,890	214,681	2008
4,365,439	489,191	599,204	827,846	657,431	512,923	943,644	1,035,041	217,711	2009
4,533,057	504,981	617,440	854,432	701,024	506,747	1,082,606	1,068,705	224,713	2010
4,579,405	512,556	625,405	868,291	703,806	534,312	1,092,983	1,109,927	194,135	2011
4,614,341	518,237	635,991	889,023	736,068	642,768	1,106,704	1,151,809	196,524	2012
4,674,725	522,170	644,062	857,699	743,574	684,400	1,121,998	1,189,546	167,548	2013
4,781,299	594,497	656,152	870,982	751,271	709,685	1,135,824	1,241,927	173,627	2014
4,868,605	601,985	669,503	885,968	759,506	739,282	1,141,784	1,264,284	177,102	2015
4,997,602	630,488	680,960	902,294	766,307	767,603	1,153,060	1,320,823	186,694	2016
5,112,281	638,754	689,374	923,437	773,845	783,355	1,163,320	1,340,930	278,203	2017
5,296,906	646,485	707,220	941,921	794,908	792,554	1,178,843	1,360,084	198,354	2018
5,461,923	672,097	722,123	959,255	804,883	804,725	1,196,936	1,384,997	202,500	2019
5,570,618	690,045	745,644	983,153	825,106	823,999	1,226,159	1,418,106	208,973	2020
Number of Customers <sup>2</sup>									
1,017,958	50,921	66,868	22,001	109,482	99,226	72,090	114,625	-	1996
1,216,144	62,295	81,521	34,562	124,597	107,959	83,729	124,352	-	1997
1,441,918	72,739	92,764	42,737	141,610	114,445	107,263	149,143	-	1998
1,666,499	86,054	104,395	54,317	159,168	118,671	129,826	165,767	-	1999
1,884,138	91,489	118,342	70,012	171,277	124,068	145,845	186,289	-	2000
2,130,327	100,377	140,386	90,674	186,962	131,704	174,708	213,733	-	2001
2,381,021	116,141	157,716	109,247	209,380	144,350	197,629	253,871	-	2002
2,568,708	125,906	173,415	131,948	225,989	153,479	221,982	278,430	-	2003
2,728,843	137,644	184,786	161,163	245,744	170,863	303,773	356,367	-	2004
2,894,471	148,809	195,946	188,572	266,161	180,085	340,931	404,618	1,490	2005
3,023,884	161,192	218,936	224,894	288,072	192,543	377,635	433,236	4,896	2006
3,142,440	173,318	245,871	255,131	310,130	201,281	416,949	477,820	5,217	2007
3,273,114	187,882	267,957	290,951	334,984	216,566	453,676	526,592	5,671	2008
3,385,202	208,012	286,108	323,989	354,371	234,992	481,530	567,134	6,515	2009
3,586,951	223,039	315,625	355,886	379,199	246,732	506,840	604,716	9,700	2010
3,717,204	233,185	333,660	393,013	408,895	268,167	534,181	648,199	10,894	2011
3,875,132	245,604	357,317	434,186	436,416	283,061	570,034	693,451	12,239	2012
4,004,734	259,433	380,484	447,443	461,458	308,875	603,139	734,674	15,599	2013
4,088,970	274,581	405,189	476,918	483,315	333,514	636,969	790,650	17,559	2014
4,199,592	283,550	425,023	511,511	502,263	357,704	674,713	839,996	20,607	2015
4,350,098	301,687	428,544	552,170	521,148	382,321	710,828	890,776	23,455	2016
4,493,608	317,771	452,221	595,864	534,315	401,701	741,526	963,437	25,556	2017
4,669,015	339,610	472,203	634,091	556,710	423,403	776,786	1,023,557	27,762	2018
4,790,907	362,805	487,553	659,942	571,660	447,035	800,208	1,084,560	29,005	2019
4,870,428	382,882	508,626	687,896	592,186	470,641	828,780	1,119,657	31,551	2020
87.4	55.5	68.2	70.0	71.8	57.1	67.6	79.0	15.1	Diffusion(%)

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

## 7. 도시가스 가격

단위: 원/m<sup>3</sup>

	KOGAS 공급 가격 KOGAS Price			도시가스사공급비용 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
								영업용1 Commercial1	영업용2 Commercial2			
1988. 6. 1	122.56	18.17	140.73	142.00	169.27	125.22	125.22	169.27	125.22	-	-	
12. 1	110.83	18.17	129.00	142.00	169.27	125.22	125.22	169.27	125.22	-	-	
1989. 1. 1	105.71	17.34	123.05	142.00	169.27	169.27	125.22	125.22	125.22	-	-	
6. 1	101.91	39.03	140.94	93.46	143.91	143.91	79.75	79.75	79.75	71.01	-	
1990. 5. 1	106.49	39.03	145.52	74.68	139.33	65.14	139.33	139.33	139.33	58.70	-	
1991. 7. 1	119.12	39.03	158.15	59.38	126.70	52.51	126.70	126.70	126.70	35.84	-	
1992. 7. 1	122.46	50.87	173.33	59.38	113.47	52.08	105.46	105.46	105.46	20.66	-	
1994.11. 1	125.72	50.87	176.59	59.38	110.24	51.98	-	106.47	40.62	23.37	-	
1995. 8. 1	125.35	61.00	186.35	59.38	110.24	51.98	-	106.47	40.62	23.37	-	
1997. 3.25	155.43	59.43	214.83	58.38	109.24	50.98	-	105.47	40.62	22.37	-	
12. 2	216.92	59.40	276.32	58.38	109.24	50.98	-	105.47	40.62	22.37	-	
1998. 1.24	254.56	59.40	313.96	58.38	109.24	50.98	-	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	
4. 1	335.08	84.88	419.96	45.03	42.38	43.72	54.90	98.52	54.90	33.67	15.42	
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	
11. 1	294.41	78.08	372.49	43.09	35.89	43.34	52.90	96.52	52.90	31.67	15.42	
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	
3. 1	325.88	74.35	400.23	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	
7. 1	317.83	74.35	392.18	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	
9. 1	299.71	74.35	374.06	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	
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	
9. 1	348.96	72.52	421.48	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	
11. 1	377.86	72.52	450.38	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임.

자료: 한국도시가스협회

## 7. City Gas Prices

Unit: Won/m<sup>3</sup>

소비자가격 <sup>1</sup> Retail Prices <sup>1</sup>									
평 균 Average	취사 Cooking	주택난방 Residential Space Heating	업무난방 Office Space Heating	일반용 Commercial		냉방용 (5~9월) Space Cooling	산업용 Industrial	수송용 Transport	
				영업용1 Commercial1	영업용2 Commercial2				
282.73	310.00	265.95	265.95	310.00		265.95	265.95	-	1988. 6. 1
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/m<sup>3</sup>

	KOGAS 공급 가격 KOGAS Price			도시가스사공급비용 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
								영업용1 Commercial1	영업용2 Commercial2			
2005. 1. 1	368.84	66.98	435.82	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
3. 1	329.26	66.03	395.29	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
5. 1	348.02	66.03	414.05	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
6. 1	348.02	59.35	407.37	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
7. 1	361.10	59.35	420.45	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
11. 1	385.00	59.35	444.35	43.09	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
2006. 1. 1	414.46	60.85	475.31	44.58	35.89	41.34	52.90	96.52	52.90	31.67	15.42	108.02
7. 1	454.33	60.85	515.18	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
9. 1	502.73	60.85	563.58	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
11. 1	461.68	60.85	522.53	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
2007. 1. 1	442.35	59.45	501.80	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
3. 1	428.29	59.45	487.74	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
5. 1	451.00	59.45	510.45	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
7. 1	467.47	59.45	526.92	47.82	39.13	44.58	56.14	99.76	56.14	34.91	18.66	108.02
9. 1	507.94	59.45	567.39	47.82	39.13	44.85	56.14	99.76	56.14	34.91	18.66	113.02
11. 1	524.10	59.45	583.55	47.82	39.13	44.85	56.14	99.76	56.14	34.91	18.66	113.02
2008. 1. 1	504.08	63.10	567.18	47.82	39.13	44.85	56.14	99.76	56.14	34.91	18.66	113.02
11.15	546.08	63.10	609.18	47.82	39.13	44.85	56.14	99.76	56.14	34.91	18.66	113.02
2009. 6. 27	597.96	59.43	657.39	50.33	41.64	47.09	58.65	102.27	58.65	37.42	21.17	115.53
2010. 9. 1	624.61	67.81	692.42	48.63	40.20	45.65	57.21	100.83	57.21	35.98	19.73	115.53
11. 1	588.50	67.81	656.31	48.63	40.20	45.65	57.21	100.83	57.21	35.98	19.73	112.09
2011. 1. 1	623.38	67.81	691.19	48.63	40.20	45.65	57.21	100.83	57.21	35.98	19.73	112.09
5. 1	673.65	53.00	726.65	48.63	40.20	45.65	57.21	100.83	57.21	35.98	19.73	112.09
10. 10	715.06	53.00	768.06	47.72	39.86	45.31	56.87	100.49	56.87	35.64	19.73	111.75
2012. 6. 30	757.37	50.99	808.36	47.72	39.86	45.31	56.87	100.49	56.87	35.64	19.73	111.75

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임.

자료: 한국도시가스협회

### 7. City Gas Prices(Continued)

Unit: Won/m<sup>3</sup>

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

1. Retail prices in Seoul.

Note: The price is based on MJ since July 2012.

Source: Korea City Gas Association

## 7. 도시가스 가격(계속)

단위: 원/MJ

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

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임.

자료: 한국도시가스협회

### 7. City Gas Prices(Continued)

Unit: Won/MJ

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

1. Retail prices in Seoul.  
Note: The price is based on MJ since July 2012.  
Source: Korea City Gas Association

## 7. 도시가스 가격(계속)

단위: 원/MJ

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

1. 소비자 가격은 서울시 기준

주: 2012년 7월 이후는 열량당 가격임.

자료: 한국도시가스협회



## 7. City Gas Prices(Continued)

Unit: Won/MJ

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

1. Retail prices in Seoul.

Note: The price is based on MJ since July 2012.

Source: Korea City Gas Association



## 4. 신재생에너지

### Renewable Energy

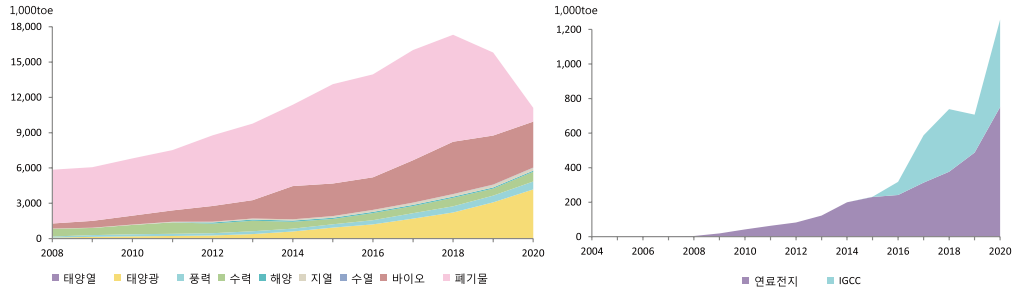
1. 신재생에너지 생산량(열량)  
Production of New & Renewable Energy(Calorific Unit)
2. 신재생에너지 생산량(고유단위)  
Production of New & Renewable Energy(Original Unit)
3. 신재생에너지 발전량  
Generation of New & Renewable Energy
4. 신재생에너지 보급용량(발전-신규)  
Facility of New & Renewable Energy(Generation-New)
5. 신재생에너지 보급용량(발전-누적)  
Facility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





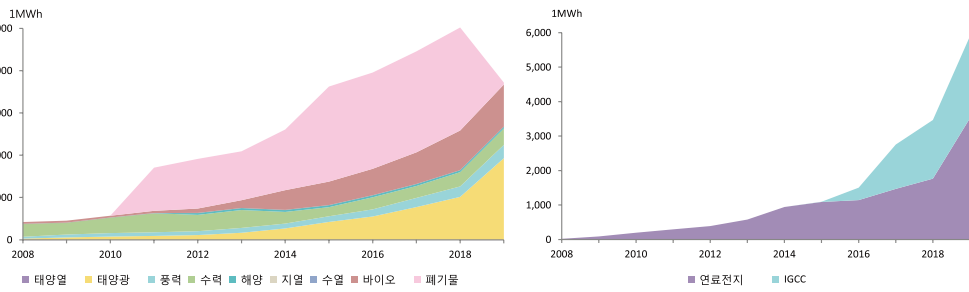
● 신재생에너지 생산량 Production of New & Renewable Energy(Calorific Unit)

<2008-2020>



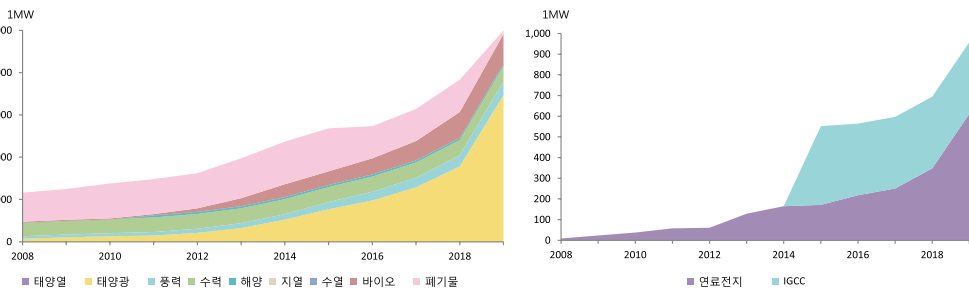
● 신재생에너지 발전량 Generation of New & Renewable Energy

<2008-2020>



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

<2008-2020>



### 1. 신재생에너지 생산량(열량)

※ 2019년 4/4분기 비재생폐기물 제외

단위: toe

	2008	2009	2010	2011	2012	2013	2014
<b>신재생에너지합계(toe)</b>	<b>5,858,479</b>	<b>6,086,249</b>	<b>6,856,410</b>	<b>7,584,027</b>	<b>8,856,185</b>	<b>9,893,500</b>	<b>11,569,033</b>
재생에너지	5,854,112	6,067,056	6,814,063	7,520,683	8,773,675	9,771,084	11,369,664
신에너지	4,367	19,193	42,347	63,344	82,510	122,416	199,369
<b>재생에너지</b>							
태양열	28,036	30,669	29,257	27,435	26,259	27,812	28,485
태양광 <sup>8</sup>	61,127	121,731	166,277	198,379	242,989	358,744	579,097
사업용	46,507	101,049	137,032	158,095	179,899	274,755	449,975
자가용	14,620	20,682	29,245	40,284	63,090	83,989	129,122
풍력	93,747	147,351	175,644	185,520	192,674	242,354	241,847
사업용	92,654	146,249	174,531	184,394	191,682	241,289	240,223
자가용	1,093	1,102	1,113	1,126	992	1,065	1,624
수력 <sup>1</sup>	660,148	606,629	792,294	965,373	814,933	892,232	581,186
사업용	660,083	606,549	792,075	965,120	814,537	891,015	579,882
자가용	65	80	218	253	396	1,217	1,304
해양	-	-	223	11,246	98,310	102,077	103,848
지열	15,726	22,126	33,449	47,833	65,277	86,959	108,472
수열	-	-	-	-	-	-	-
바이오	426,760	580,419	754,623	963,363	1,334,724	1,558,492	2,821,996
바이오가스	45,386	50,865	80,343	91,184	107,430	139,370	142,937
매립지가스	119,990	128,302	114,990	124,220	116,073	97,497	79,918
바이오디젤	177,642	254,189	356,822	336,054	359,916	369,081	387,699
우드칩 <sup>5</sup>	13,320	20,075	132,230	163,022	164,542	168,466	190,687
성형탄	29,186	24,102	23,053	24,591	23,857	23,517	24,927
임산연료 <sup>7</sup>	41,236	49,309	23,419	23,665	56,481	49,622	5,163
목재펠릿 <sup>5</sup>	-	53,577	23,766	50,995	120,055	268,129	795,215
폐목재 <sup>2</sup>	-	-	-	149,632	140,874	175,983	191,142
흑액	-	-	-	-	228,337	229,254	322,304
하수슬러지고형연료	-	-	-	-	17,159	37,574	41,477
Bio-SRF <sup>5</sup>	-	-	-	-	-	-	527,270
바이오 증류	-	-	-	-	-	-	113,257
<b>폐기물</b>	4,568,568	4,558,131	4,862,296	5,121,534	5,998,509	6,502,414	6,904,733
폐가스	1,969,304	2,015,279	2,114,825	2,175,167	2,999,138	3,343,253	4,148,491
산업폐기물	772,544	802,560	851,834	873,206	860,472	886,943	780,801
생활폐기물 <sup>6</sup>	44,108	58,455	94,406	184,506	147,247	169,121	157,178
대형도시쓰레기 <sup>6</sup>	638,447	660,511	717,671	753,252	748,372	698,870	725,420
시멘트킬른보조연료	568,110	543,179	618,082	681,415	752,890	899,151	837,114
RDF/RPF/TDF <sup>3,4</sup>	60,584	45,393	93,275	220,171	261,022	286,419	-
SRF <sup>4</sup>	-	-	-	-	-	-	58,935
정제연료유	306,861	260,354	227,497	233,816	229,368	218,657	196,794
폐목재 <sup>2</sup>	208,610	172,400	144,706	-	-	-	-
<b>신에너지</b>							
연료전지	4,367	19,193	42,347	63,344	82,510	122,416	199,369
사업용	2,888	17,578	40,436	60,730	78,987	118,348	194,714
자가용	1,479	1,615	1,911	2,614	3,523	4,068	4,655
IGCC	-	-	-	-	-	-	-

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

2. '11년부터 폐목재는 폐기물에서 바이오로 분류변경

3. '11년부터 TDF 추가

4. '14년부터 RDF/RPF/TDF는 SRF로 대체 조사

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

6. '15년부터 대형도시쓰레기는 생활폐기물로 포함

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

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

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

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

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

Unit: toe

2015	2016	2017	2018	2019	2020	Total
<b>13,350,620</b>	<b>14,268,885</b>	<b>16,604,474</b>	<b>18,054,339</b>	<b>16,513,186</b>	<b>12,361,793</b>	<b>Total</b>
13,119,162	13,951,165	16,017,310	17,315,508	15,806,341	11,104,564	Renewable energy
231,458	317,720	587,164	738,831	706,845	1,257,229	New energy
						Renewable energy
28,469	28,495	28,121	27,395	26,912	26,390	Solar Thermal
907,009	1,183,308	1,672,437	2,193,980	3,055,183	4,155,969	Solar Photovoltaic <sup>8</sup>
731,025	947,609	1,325,013	1,750,684	2,504,790	3,504,379	Business
175,984	235,699	347,423	443,296	550,393	651,590	Private
283,455	355,340	462,162	525,188	570,816	671,072	Wind Power
281,026	352,953	459,848	522,772	568,596	668,708	Business
2,429	2,387	2,313	2,416	2,220	2,364	Private
453,787	603,244	600,690	718,787	594,539	826,344	Hydro Power <sup>1</sup>
452,157	602,578	599,897	718,140	593,974	825,838	Business
1,630	666	793	647	565	506	Private
104,731	104,562	104,256	103,380	101,030	97,397	Ocean
135,046	162,047	183,922	205,464	224,722	240,967	Geothermal
4,791	5,989	7,941	14,725	21,236	21,258	Hydro Thermal
2,765,657	2,765,453	3,598,782	4,442,376	4,162,427	3,899,174	Bio
108,734	95,000	98,123	91,740	96,281	95,385	Bio Gas
75,804	71,133	77,036	65,179	75,518	62,190	LFG
441,345	442,859	428,053	683,234	699,713	689,957	Bio Diesel
373,308	223,392	122,443	140,232	226,865	237,346	Wood Chip <sup>5</sup>
15,828	15,432	15,663	17,221	16,505	10,858	Wood Briquette
44,790	123,810	648,298	674,167	131,073	142,876	Fire Wood <sup>7</sup>
823,763	817,172	1,099,049	1,486,488	1,543,390	1,325,675	Wood Pellet <sup>5</sup>
103,998	82,395	75,605	73,771	66,663	72,501	Waste Wood <sup>2</sup>
231,008	228,848	230,016	218,902	205,286	197,589	Black Liquor
78,484	77,843	100,749	114,451	102,061	154,832	Sewage Solid Fuel
208,392	281,394	437,734	532,943	510,194	501,406	Bio-SRF <sup>5</sup>
260,203	306,175	266,012	344,048	488,877	408,559	Biobunker
8,436,217	8,742,727	9,358,998	9,084,212	7,049,477	1,165,993	Waste
5,345,343	5,189,393	5,561,785	5,628,536	4,214,432	-	Waste Gas
925,376	944,486	953,426	944,887	747,659	308,446	Industrial Wastes
972,271	949,551	1,001,529	994,424	828,116	410,219	Living Wastes <sup>6</sup>
-	-	-	-	-	-	Municipal Solid Wastes <sup>6</sup>
807,229	661,278	654,136	626,621	577,577	234,334	Cement Kiln Fuel
-	-	-	-	-	-	RDF/RPF/TDF <sup>3,4</sup>
207,638	821,614	1,005,761	695,021	546,511	212,993	SRF <sup>4</sup>
178,360	176,405	182,361	194,723	135,182	-	Refinery Fuel Oil
-	-	-	-	-	-	Wood waste <sup>2</sup>
						New energy
230,173	241,616	313,303	376,304	487,184	750,848	Fuel Cells
226,069	237,279	308,375	371,004	480,826	742,434	Business
4,104	4,337	4,928	5,301	6,358	8,414	Private
1,285	76,104	273,861	362,527	219,661	506,381	IGCC

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

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

3. TDF has been added since 2011

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

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

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

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

8. adds the missing private units since 2010.

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

Source: Korea Energy Agency

## 2. 신재생에너지 생산량(고유단위)

※ 2019년 4/4분기 비재생폐기물 제외

	2008	2009	2010	2011	2012	2013	2014
태양열(toe)	28,036	30,669	29,257	27,435	26,259	27,812	28,485
태양광(MWh) <sup>7</sup>	284,315	566,191	772,801	917,198	1,103,227	1,605,182	2,556,300
사업용	216,314	469,994	637,359	735,327	852,602	1,302,158	2,132,582
자가용	68,002	96,197	135,442	181,871	250,625	303,024	423,718
풍력(MWh)	436,034	685,353	816,950	862,884	912,760	1,148,179	1,145,557
사업용	430,950	680,228	811,772	857,646	908,447	1,143,549	1,138,496
자가용	5,084	5,125	5,179	5,238	4,313	4,630	7,061
수력(MWh) <sup>1</sup>	3,070,458	2,821,530	3,685,090	4,490,107	3,862,087	4,228,112	2,753,924
사업용	3,070,156	2,821,157	3,684,075	4,488,929	3,860,364	4,222,822	2,748,254
자가용	302	373	1,015	1,178	1,723	5,290	5,670
해양(MWh)	-	-	1,039	52,307	465,924	483,777	492,172
사업용	-	-	1,039	52,307	465,924	483,777	492,172
지열(toe)	15,726	22,126	33,449	47,833	65,277	86,959	108,472
수열(toe)	-	-	-	-	-	-	-
바이오							
바이오가스(천증기톤)	842	944	1,491	1,692	1,993	2,586	2,652
매립지가스(천증기톤)	2,226	2,380	2,133	2,305	2,153	1,809	1,483
바이오디젤(Tco <sub>2</sub> )	1,776	2,542	3,568	3,361	3,599	3,691	3,877
우드칩(Tco <sub>2</sub> ) <sup>5</sup>	133	201	1,322	1,630	1,645	1,685	1,907
성형탄(Tco <sub>2</sub> )	292	241	231	246	239	235	249
임산연료(Tco <sub>2</sub> )	412	493	234	237	565	496	52
목재펠릿(Tco <sub>2</sub> ) <sup>5</sup>	-	536	238	510	1,201	2,681	7,952
폐목재(천증기톤) <sup>2</sup>	-	-	-	2,776	2,614	3,265	3,546
흑액(Tco <sub>2</sub> )	-	-	-	-	2,283	2,293	3,223
하수슬러지 고행연료(Tco <sub>2</sub> )	-	-	-	-	172	376	415
Bio-SRF(Tco <sub>2</sub> ) <sup>5</sup>	-	-	-	-	-	-	5,273
바이오중유(Tco <sub>2</sub> )	-	-	-	-	-	-	1,133
폐기물							
폐가스(천증기톤)	36,536	37,389	39,236	40,356	55,643	62,027	76,966
산업폐기물(천증기톤)	14,333	14,890	15,804	16,200	15,964	16,455	14,486
생활폐기물(천증기톤) <sup>6</sup>	818	1,085	1,752	3,423	2,732	3,138	2,916
대형도시쓰레기(천증기톤) <sup>6</sup>	11,845	12,254	13,315	13,975	13,884	12,966	13,459
시멘트킬른보조연료(천증기톤)	10,540	10,078	11,467	12,642	13,968	16,682	15,531
RDF/RPF/TDF(Tco <sub>2</sub> ) <sup>3,4</sup>	606	454	933	2,202	2,610	2,864	-
SRF(Tco <sub>2</sub> ) <sup>4</sup>	-	-	-	-	-	-	589
정제연료유(Tco <sub>2</sub> )	3,069	2,604	2,275	2,338	2,294	2,187	1,968
폐목재(천증기톤) <sup>2</sup>	3,870	3,199	2,685	-	-	-	-
연료전지(MWh)	20,310	89,270	196,960	294,621	389,664	578,578	943,056
사업용	13,432	81,759	188,072	282,463	374,347	560,890	922,817
자가용	6,878	7,511	8,888	12,158	15,317	17,688	20,239
IGCC(MWh)	-	-	-	-	-	-	-
사업용	-	-	-	-	-	-	-

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

2. '11년부터 폐목재는 폐기물에서 바이오로 분류변경

3. '11년부터 TDF 추가

4. '14년부터 RDF/RPF/TDF는 SRF로 대체 조사

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

6. '15년부터 대형도시쓰레기는 생활폐기물로 포함

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

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

자료: 한국에너지공단



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

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

2015	2016	2017	2018	2019	2020	
28,469	28,495	28,121	27,395	26,912	26,390	Solar Thermal(toe)
3,979,158	5,122,441	7,056,219	9,208,099	12,996,018	19,297,854	Solar Photovoltaic(MWh) <sup>7</sup>
3,464,576	4,491,036	6,220,719	8,219,173	11,759,577	16,452,484	Business
514,583	631,406	835,500	988,925	1,236,441	2,845,369	Private
1,342,439	1,683,142	2,169,014	2,464,879	2,679,158	3,149,798	Wind Power(MWh)
1,331,877	1,672,764	2,158,913	2,454,329	2,669,463	3,139,475	Business
10,562	10,378	10,101	10,550	9,695	10,324	Private
2,150,013	2,858,714	2,819,882	3,374,375	2,791,076	3,879,383	Hydro Power(MWh) <sup>1</sup>
2,142,922	2,855,818	2,816,419	3,371,552	2,788,609	3,877,175	Business
7,091	2,895	3,463	2,823	2,467	2,208	Private
496,354	495,556	489,466	485,353	474,321	457,263	Ocean(MWh)
496,354	495,556	489,466	485,353	474,321	457,263	Business
135,046	162,047	183,922	205,464	224,722	240,967	Geothermal(toe)
4,791	5,989	7,941	14,725	21,236	21,258	Hydro Thermal(toe)
						Bio
2,017	1,763	1,820	1,702	1,786	1,770	Bio gas(1,000 steam Ton)
1,406	1,320	1,429	1,209	1,401	1,154	LFG(1,000 steam Ton)
4,413	4,429	4,281	6,832	6,997	6,900	Bio-Diesel(Ton)
3,733	2,234	1,224	1,402	2,269	2,373	Wood Chip(Ton) <sup>5</sup>
158	154	157	172	165	109	Wood Briquette(Ton)
448	1,238	6,483	6,742	1,311	1,429	Fire Wood(Ton)
8,238	8,172	10,990	14,865	15,434	13,257	Wood Pellet(Ton) <sup>5</sup>
1,929	1,529	1,403	1,369	1,237	1,345	Waste Wood(1,000 steam Ton) <sup>2</sup>
2,310	2,288	2,300	2,189	2,053	1,976	Black Liquor(Ton)
785	778	1,007	1,145	1,021	1,548	Sewage Solid Fuel(Ton)
2,084	2,814	4,377	5,329	5,102	5,014	Bio-SRF(Ton) <sup>5</sup>
2,602	3,062	2,660	3,440	4,889	4,086	Bio-bunker(Ton)
						Waste
99,171	96,278	103,187	104,426	78,190	-	Waste Gas(1,000 steam ton)
17,168	17,523	17,689	17,530	13,871	5,723	Industrial Wastes(1,000 steam ton)
18,038	17,617	18,581	18,449	15,364	7,611	Living Wastes(1,000 steam ton) <sup>6</sup>
-	-	-	-	-	-	Municipal Solid Wastes(1,000 steam ton) <sup>6</sup>
14,976	12,269	12,136	11,626	10,716	4,348	Cement Kiln Fuel(1,000 steam ton)
-	-	-	-	-	-	RDF/RPF/TDA(Ton) <sup>3,4</sup>
2,076	8,216	10,058	6,950	5,465	2,130	SRF(Ton) <sup>4</sup>
1,784	1,764	1,824	1,947	1,352	-	Refinery Fuel Oil(Ton)
-	-	-	-	-	-	Waste Wood(1,000 steam ton) <sup>2</sup>
1,089,260	1,143,402	1,469,289	1,764,948	2,285,164	3,522,350	Fuel Cells(MWh)
1,071,418	1,124,544	1,447,768	1,741,801	2,257,401	3,485,608	Business
17,842	18,858	21,521	23,147	27,764	36,742	Private
6,089	360,681	1,285,733	1,702,006	1,031,272	2,377,374	IGCC(MWh)
6,089	360,681	1,285,733	1,702,006	1,031,272	2,377,374	Business

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

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

3. TDF has been added since 2011

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

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

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

7. adds the missing private units since 2010.

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

Source: Korea Energy Agency

### 3. 신재생에너지 발전량

※ 2019년 4/4분기 비재생폐기물 제외

단위: MWh

	2008	2009	2010	2011	2012	2013	2014
<b>신·재생에너지 총발전량</b>	<b>4,227,477</b>	<b>4,617,886</b>	<b>5,890,134</b>	<b>17,351,145</b>	<b>19,521,743</b>	<b>21,499,965</b>	<b>27,019,875</b>
사업용	4,147,211	4,508,680	5,731,501	12,712,004	12,768,554	15,348,683	20,910,666
자가용	80,266	109,206	158,633	4,639,141	6,753,189	6,151,282	6,109,209
<b>재생에너지</b>	<b>4,207,167</b>	<b>4,528,616</b>	<b>5,693,175</b>	<b>17,056,525</b>	<b>19,132,079</b>	<b>20,921,387</b>	<b>26,076,819</b>
사업용	4,133,779	4,426,921	5,543,430	12,429,542	12,394,207	14,787,793	19,987,849
자가용	73,388	101,695	149,745	4,626,983	6,737,872	6,133,594	6,088,970
<b>신에너지</b>	<b>20,310</b>	<b>89,270</b>	<b>196,960</b>	<b>294,621</b>	<b>389,664</b>	<b>578,578</b>	<b>943,056</b>
사업용	13,432	81,759	188,072	282,463	374,347	560,890	922,817
자가용	6,878	7,511	8,888	12,158	15,317	17,688	20,239
<b>재생에너지</b>	<b>284,316</b>	<b>566,191</b>	<b>773,382</b>	<b>922,697</b>	<b>1,126,906</b>	<b>1,667,325</b>	<b>2,693,985</b>
태양광	216,314	469,994	637,359	735,327	852,602	1,302,158	2,132,582
사업용	68,002	96,197	136,023	187,370	274,304	365,167	561,403
자가용 <sup>1)</sup>	436,034	685,353	816,950	862,884	912,760	1,148,179	1,145,557
풍력	430,950	680,228	811,772	857,646	908,447	1,143,549	1,138,496
사업용	5,084	5,125	5,179	5,238	4,313	4,630	7,061
자가용	3,070,458	2,821,530	3,685,090	4,490,107	3,862,087	4,228,112	2,753,924
수력 <sup>2)</sup>	3,070,156	2,821,157	3,684,075	4,488,929	3,860,364	4,222,822	2,748,254
사업용	302	373	1,015	1,178	1,723	5,290	5,670
자가용	-	-	1,039	52,307	465,924	483,777	492,172
해양	-	-	1,039	52,307	465,924	483,777	492,172
바이오 <sup>3)</sup>	416,359	455,542	416,713	524,623	1,027,251	1,839,568	4,656,237
사업용	416,359	455,542	409,185	469,805	654,430	1,366,716	4,225,476
자가용	-	-	7,528	54,818	372,821	472,852	430,761
바이오가스	3,363	6,814	17,401	44,860	38,973	99,810	94,930
사업용	3,363	6,814	9,873	20,263	15,461	37,480	47,507
자가용	-	-	7,528	24,597	23,512	62,330	47,423
매립지가스	412,996	448,728	399,312	440,814	419,409	293,298	253,024
사업용	412,996	448,728	399,312	440,814	419,409	293,298	246,543
자가용	-	-	-	-	-	-	6,481
우드칩 <sup>4)</sup>	-	-	-	8,728	88,060	119,712	106,168
사업용	-	-	-	8,728	23,057	62,111	105,908
자가용	-	-	-	-	65,003	57,601	260
목재펠릿 <sup>4)</sup>	-	-	-	-	83,015	696,539	2,764,069
사업용	-	-	-	-	83,015	696,539	2,764,069
자가용	-	-	-	-	-	-	-
폐목재	-	-	-	30,221	40,534	178,215	90,472
사업용	-	-	-	-	32,168	99,211	-
자가용	-	-	-	30,221	8,366	79,004	90,472
흑역	-	-	-	-	275,940	273,917	274,248
자가용	-	-	-	-	275,940	273,917	274,248
하수슬러지 고형연료	-	-	-	-	81,320	178,077	195,307
사업용	-	-	-	-	81,320	178,077	195,307
Bio-SRF <sup>5)</sup>	-	-	-	-	-	-	341,254
사업용	-	-	-	-	-	-	329,377
자가용	-	-	-	-	-	-	11,877
바이오중유	-	-	-	-	-	-	536,765
사업용	-	-	-	-	-	-	536,765
폐기물 <sup>6)</sup>	-	-	-	10,203,907	11,737,151	11,554,426	14,334,944
사업용	-	-	-	5,825,528	5,652,440	6,268,771	9,250,869
자가용	-	-	-	4,378,379	6,084,711	5,285,655	5,084,075
폐가스	-	-	-	9,862,615	11,162,731	11,092,956	13,737,289
사업용	-	-	-	5,568,052	5,459,106	6,060,450	8,924,777
자가용	-	-	-	4,294,563	5,703,625	5,032,506	4,812,512
산업폐기물	-	-	-	45,713	27,598	23,410	66,381
사업용	-	-	-	11,708	4,600	11,613	51,158
자가용	-	-	-	34,005	22,998	11,797	15,223
생활폐기물 <sup>7)</sup>	-	-	-	56,708	100,697	181,142	234,469
사업용	-	-	-	48,298	57,725	92,857	102,300
자가용	-	-	-	8,410	42,972	88,285	132,169
대형도시쓰레기 <sup>8)</sup>	-	-	-	238,871	439,281	238,807	185,230
사업용	-	-	-	197,470	124,165	85,740	61,059
자가용	-	-	-	41,401	315,116	153,067	124,171
RDF/RPF/TDF <sup>3)</sup>	-	-	-	-	6,844	18,111	-
사업용	-	-	-	-	6,844	18,111	-
SRF <sup>3)</sup>	-	-	-	-	-	-	111,575
사업용	-	-	-	-	-	-	111,575
자가용	-	-	-	-	-	-	-
시멘트클린보조연료	-	-	-	-	-	-	-
자가용	-	-	-	-	-	-	-
정제연료유	-	-	-	-	-	-	-
사업용	-	-	-	-	-	-	-
<b>신에너지</b>	<b>20,310</b>	<b>89,270</b>	<b>196,960</b>	<b>294,621</b>	<b>389,664</b>	<b>578,578</b>	<b>943,056</b>
연료전지	13,432	81,759	188,072	282,463	374,347	560,890	922,817
사업용	6,878	7,511	8,888	12,158	15,317	17,688	20,239
IGCC	-	-	-	-	-	-	-
사업용	-	-	-	-	-	-	-

1. 수력은 양수발전 제외하며, 2003년부터 수력에 대수력(10MW) 포함  
 2. 2012년부터 RPS 공급인증서 발급대상 바이오, 폐기물 혼소발전은 혼소비율을 반영하여 발전량 산정  
 3. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사  
 4. 2014년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류  
 5. 2015년부터 대형도시쓰레기는 생활폐기물로 포함  
 6. 2010년부터 유관기관 행정자료를 활용하여 민간자본 태양광 누락설비 추가반영, 에너지밸런스에는 미반영  
 주: 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정(2019.10.01 시행)에 따라 폐기물에너지 중 비재생폐기물은 제외  
 자료: 한국에너지공단

### 3. Generation of New & Renewable Energy

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

Unit: MWh

2015	2016	2017	2018	2019	2020	Total	
37,329,427	41,049,178	47,304,953	53,665,123	52,289,107	43,061,511		
23,829,001	26,806,171	31,649,620	37,255,151	38,028,933	39,791,354		Business
13,500,426	14,243,008	15,655,333	16,409,971	14,260,174	3,270,157		Private
36,234,078	39,545,095	44,549,931	50,198,169	48,972,671	37,161,788		Renewable energy
22,751,494	25,320,946	28,916,119	33,811,345	34,740,260	33,928,372		Business
13,482,584	14,224,149	15,633,812	16,386,824	14,232,410	3,233,416		Private
1,095,349	1,504,083	2,755,022	3,466,954	3,316,436	5,899,723		New energy
1,077,507	1,485,225	2,733,501	3,443,807	3,288,673	5,862,982		Business
17,842	18,858	21,521	23,147	27,764	36,742		Private
							Renewable energy
4,229,723	5,515,817	7,737,852	10,154,964	14,163,040	19,297,854		Solar photovoltaic
3,464,576	4,491,036	6,220,719	8,219,173	11,759,577	16,452,484		Business
765,148	1,024,781	1,517,133	1,935,790	2,403,463	2,845,369		Private <sup>6</sup>
1,342,439	1,683,142	2,169,014	2,464,879	2,679,158	3,149,798		Wind power
1,331,877	1,672,764	2,158,913	2,454,329	2,669,463	3,139,475		Business
10,562	10,378	10,101	10,550	9,695	10,324		Private
2,150,013	2,858,714	2,819,882	3,374,375	2,791,076	3,879,383		Hydro power <sup>1</sup>
2,142,922	2,855,818	2,816,419	3,371,552	2,788,609	3,877,175		Business
7,091	2,895	3,463	2,823	2,467	2,208		Private
496,354	495,556	489,466	485,353	474,321	457,263		Ocean
496,354	495,556	489,466	485,353	474,321	457,263		Business
5,546,583	6,237,564	7,466,664	9,363,229	10,415,632	9,938,354		Bio <sup>2</sup>
5,165,641	5,940,066	7,178,784	9,076,016	10,111,154	9,664,364		Business
380,942	297,498	287,879	287,213	304,478	273,990		Private
121,142	138,600	170,599	175,007	195,247	179,046		Bio gas
92,207	100,320	142,362	144,461	168,409	149,710		Business
28,935	38,279	28,236	30,546	26,838	29,336		Private
252,312	238,584	255,827	242,172	239,527	180,043		LFG
246,589	238,584	255,827	242,172	239,527	180,043		Business
5,723	-	-	-	-	-		Private
132,176	54,486	52,518	53,786	41,753	99,242		Wood chip <sup>4</sup>
131,297	54,486	52,518	53,786	41,753	95,538		Business
879	-	-	-	-	3,704		Private
2,512,521	2,679,313	3,722,931	4,837,318	4,959,229	4,926,845		Wood pellet <sup>4</sup>
2,508,862	2,679,313	3,722,931	4,837,318	4,959,229	4,926,845		Business
3,659	-	-	-	-	-		Private
96,324	-	-	-	-	-		Waste wood
17,993	-	-	-	-	-		Business
78,331	-	-	-	-	-		Private
263,411	259,219	259,643	256,667	277,640	240,950		Black liquor
263,411	259,219	259,643	256,667	277,640	240,950		Private
282,542	284,973	331,095	405,314	338,143	410,193		Sewage solid fuel
282,542	284,973	331,095	405,314	338,143	410,193		Business
652,965	1,127,409	1,431,740	1,782,965	2,068,895	1,983,916		Bio-SRF <sup>4</sup>
652,961	1,127,409	1,431,740	1,782,965	2,068,895	1,983,916		Business
4	-	-	-	-	-		Private
1,233,190	1,454,982	1,242,311	1,609,999	2,295,198	1,918,119		Bio bunker
1,233,190	1,454,982	1,242,311	1,609,999	2,295,198	1,918,119		Business
22,468,966	22,754,303	23,867,053	24,355,370	18,449,443	439,137		Waste <sup>5</sup>
10,150,125	9,865,706	10,051,818	10,204,921	6,937,137	337,612		Business
12,318,841	12,888,596	13,815,235	14,150,448	11,512,307	101,525		Private
21,419,499	21,672,062	22,892,836	23,310,983	17,574,387	-		Waste gas
9,503,822	9,217,232	9,334,436	9,445,991	6,281,275	-		Business
11,915,677	12,454,830	13,558,400	13,864,992	11,293,112	-		Private
86,666	174,950	159,714	158,923	157,812	91,821		Industrial wastes
57,544	174,903	156,506	153,954	153,549	90,776		Business
29,122	47	3,208	4,969	4,263	1,045		Private
694,377	406,578	371,828	381,641	307,864	187,677		Living wastes <sup>5</sup>
397,335	128,816	125,992	115,601	102,506	91,181		Business
297,042	277,762	245,836	266,040	205,358	96,496		Private
-	-	-	-	-	-		Municipal solid wastes <sup>5</sup>
-	-	-	-	-	-		Business
-	-	-	-	-	-		Private
-	-	-	-	-	-		RDF/RPF/TDF <sup>3</sup>
-	-	-	-	-	-		Business
171,900	312,740	411,991	455,951	392,976	159,639		SRF <sup>3</sup>
171,900	312,740	404,199	441,504	383,403	155,654		Business
-	-	7,792	14,447	9,573	3,984		Private
77,000	155,957	-	-	-	-		Cement kiln fuel
77,000	155,957	-	-	-	-		Private
19,524	32,016	30,684	47,871	16,404	-		Refinery fuel oil
19,524	32,016	30,684	47,871	16,404	-		Business
							New energy
1,089,260	1,143,402	1,469,289	1,764,948	2,285,164	3,522,350		Fuel cells
1,071,418	1,124,544	1,447,768	1,741,801	2,257,401	3,485,608		Business
17,842	18,858	21,521	23,147	27,764	36,742		Private
6,089	360,681	1,285,733	1,702,006	1,031,272	2,377,374		IGCC
6,089	360,681	1,285,733	1,702,006	1,031,272	2,377,374		Business

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

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

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

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

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

6. adds the missing private units since 2010.

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

Source: Korea Energy Agency

### 4. 신재생에너지 보급용량(발전-신규)

단위: kW

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

1. RPS 공급인증서 발급대상 바이오·폐기물 혼소발전은 혼소비율을 반영하여 보급용량 산정  
 2. 수력은 양수발전 제외하며, '03년부터 수력에 대수력(10MW) 포함  
 3. 태양광, 풍력, 수력, 해양, 바이오, 폐기물, 연료전자, IGCC는 각 연도별 신설 및 증설 용량임  
 4. 보급년도는 자가용 준공, 사업용 상업운전개시 기준임  
 5. '14년부터 RDF/RPF/TDF는 SRF로 대체 조사  
 6. '14년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류  
 7. '15년부터 대형도시쓰레기는 생활폐기물로 포함  
 8. '10년부터 유관기관 행정자료를 활용하여 민간자본 태양광 누락설비 추가반영

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

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

Unit: kW

2015	2016	2017	2018	2019	2020	Total	
1,960,805	1,642,142	2,311,566	3,755,208	4,612,939	5,497,070		
1,761,134	1,375,144	1,931,310	3,346,217	4,223,584	5,080,008		Business <sup>4</sup>
199,671	266,998	380,257	408,991	389,355	417,061		Private <sup>4</sup>
1,225,318	1,059,428	1,582,347	2,589,137	3,917,132	4,658,157		Solar photovoltaic <sup>3,8</sup>
1,040,107	798,822	1,248,429	2,191,652	3,535,059	4,285,023		Business <sup>4</sup>
185,211	260,606	333,918	397,486	382,073	373,133		Private <sup>4</sup>
207,791	186,810	113,562	161,309	191,221	160,136		Wind power <sup>3</sup>
207,599	186,750	110,456	161,258	191,201	160,050		Business <sup>4</sup>
192	60	3,106	51	20	86		Private <sup>4</sup>
2,718	19,160	6,445	4,333	11,723	3,007		Hydro power <sup>2,3</sup>
2,718	19,060	6,445	4,333	11,723	2,927		Business <sup>4</sup>
-	100	-	-	-	80		Private <sup>4</sup>
-	-	-	-	500	-		Ocean <sup>3</sup>
-	-	-	-	500	-		Business <sup>4</sup>
89,975	286,538	486,742	864,857	290,046	454,350		Bio <sup>1,3</sup>
89,975	286,538	485,992	862,757	289,277	414,350		Business <sup>4</sup>
-	-	750	2,100	769	40,000		Private <sup>4</sup>
2,675	9,003	8,115	6,049	5,569	3,925		Bio gas
2,675	9,003	7,365	3,949	4,800	3,925		Business <sup>4</sup>
-	-	750	2,100	769	-		Private <sup>4</sup>
-	1,075	-	1,098	700	925		LFG
-	1,075	-	1,098	700	925		Business <sup>4</sup>
-	-	-	-	-	-		Private <sup>4</sup>
2,950	38,900	3,512	-	6,549	44,600		Wood chip <sup>7</sup>
2,950	38,900	3,512	-	6,549	4,600		Business <sup>4</sup>
-	-	-	-	-	40,000		Private <sup>4</sup>
561	200,000	333,451	165,290	43,325	259,551		Wood pellet <sup>7</sup>
561	200,000	333,451	165,290	43,325	259,551		Business <sup>4</sup>
-	-	-	-	-	-		Private <sup>4</sup>
-	-	-	-	-	-		Waste wood
-	-	-	-	-	-		Business <sup>4</sup>
-	-	-	-	-	-		Private <sup>4</sup>
-	-	-	-	-	-		Black liquor
-	-	-	-	-	-		Private <sup>4</sup>
-	-	49,320	44,755	20,673	-		Sewage solid fuel
-	-	49,320	44,755	20,673	-		Business <sup>4</sup>
79,439	37,560	92,343	27,665	113,229	145,349		Bio-SRF <sup>6</sup>
79,439	37,560	92,343	27,665	113,229	145,349		Business <sup>4</sup>
-	-	-	-	-	-		Private <sup>4</sup>
4,350	-	-	620,000	100,000	-		Bio bunker
4,350	-	-	620,000	100,000	-		Business <sup>4</sup>
47,950	43,419	89,756	37,792	80,514	64,800		Waste <sup>1,3</sup>
34,035	37,854	47,608	29,006	74,634	63,000		Business <sup>4</sup>
13,915	5,565	42,148	8,786	5,880	1,800		Private <sup>4</sup>
27,250	-	30,000	-	5,200	-		Waste gas
16,500	-	-	-	-	-		Business <sup>4</sup>
10,750	-	30,000	-	5,200	-		Private <sup>4</sup>
3,165	8,265	15,997	6,906	42,233	11,400		Industrial wastes
-	5,700	10,869	6,020	42,233	11,400		Business <sup>4</sup>
3,165	2,565	5,128	886	-	-		Private <sup>4</sup>
2,035	3,160	4,020	4,060	14,780	53,400		Living wastes <sup>7</sup>
2,035	160	-	160	14,100	51,600		Business <sup>4</sup>
-	3,000	4,020	3,900	680	1,800		Private <sup>4</sup>
-	-	-	-	-	-		Cement kiln fuel
-	-	-	-	-	-		Private
15,500	31,994	36,119	19,339	16,312	-		SRF <sup>5</sup>
15,500	31,994	33,119	15,339	16,312	-		Business <sup>4</sup>
-	-	3,000	4,000	-	-		Private <sup>4</sup>
-	-	3,620	7,487	1,989	-		Refinery fuel oil
-	-	3,620	7,487	1,989	-		Business <sup>4</sup>
6,354	46,787	32,715	97,779	121,803	156,620		Fuel cells <sup>3</sup>
6,000	46,120	32,380	97,211	121,190	154,658		Business <sup>4</sup>
354	667	335	568	613	1,962		Private <sup>4</sup>
380,700	-	-	-	-	-		IGCC <sup>3</sup>
380,700	-	-	-	-	-		Business <sup>4</sup>

1. Co-firing is calculated by the blending ratio.
2. Pumped-storage(hydro) has been excluded. Large-hydro(10MW) has been included.
3. reflects the new one and extension for each year.
4. is based on the initiation of commercial operation.
5. is based on the completion.
6. SRF has substituted for RDF/RPF/TDF since 2014.
7. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014.
8. adds the missing private units since 2010.

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

### 5. 신재생에너지 보급용량(발전-누적)

단위: kW

	2008	2009	2010	2011	2012	2013	2014
<b>신·재생에너지 총보급용량</b>	<b>5,813,689</b>	<b>6,264,743</b>	<b>6,927,592</b>	<b>7,466,765</b>	<b>8,168,837</b>	<b>10,001,318</b>	<b>11,998,738</b>
사업용	2,466,937	2,884,767	3,501,957	3,987,822	4,599,938	6,313,180	8,146,429
자가용	3,346,752	3,379,976	3,425,635	3,478,943	3,568,899	3,688,138	3,852,309
태양광 <sup>10</sup>	356,856	523,694	650,608	736,024	1,051,834	1,618,904	2,620,199
사업용 <sup>3</sup>	298,485	441,142	533,492	576,475	809,453	1,276,875	2,134,228
자가용 <sup>3</sup>	58,371	82,552	117,116	159,549	242,381	342,029	485,971
풍력	298,057	333,333	366,769	418,713	491,524	583,430	644,793
사업용 <sup>3</sup>	293,795	329,045	362,445	414,258	481,558	573,458	634,338
자가용 <sup>3</sup>	4,262	4,288	4,324	4,455	9,966	9,972	10,455
수력 <sup>2</sup>	1,603,728	1,617,161	1,622,681	1,719,300	1,747,000	1,754,508	1,768,864
사업용 <sup>3</sup>	1,602,547	1,615,980	1,621,190	1,717,499	1,745,144	1,751,853	1,766,109
자가용 <sup>3</sup>	1,181	1,181	1,491	1,801	1,856	2,655	2,755
해양	-	1,000	1,000	255,000	255,110	255,110	255,110
사업용 <sup>3</sup>	-	1,000	1,000	255,000	255,110	255,110	255,110
바이오 <sup>1,4</sup>	115,097	118,631	119,360	143,150	411,313	937,701	1,513,962
사업용	73,232	76,622	77,152	97,962	364,985	873,968	1,447,578
자가용	41,865	42,009	42,208	45,188	46,328	63,733	66,384
바이오가스	8,217	8,707	8,986	11,136	15,666	21,918	35,128
사업용	2,717	3,107	3,187	3,357	7,887	12,689	23,248
자가용	5,500	5,600	5,799	7,779	7,779	9,229	11,880
매립가스	58,005	58,005	58,455	58,455	59,479	63,655	66,515
사업용	58,005	58,005	58,455	58,455	59,479	62,655	65,515
자가용	-	-	-	-	-	1,000	1,000
우드칩 <sup>7</sup>	8,060	11,104	11,104	11,104	11,104	26,059	27,499
사업용	8,060	11,060	11,060	11,060	11,060	26,015	27,455
자가용	-	44	44	44	44	44	44
목재펠릿 <sup>7</sup>	-	-	-	20,640	201,851	616,576	770,138
사업용	-	-	-	20,640	200,711	615,435	768,997
자가용	-	-	-	-	1,140	1,140	1,140
폐목재	2,950	2,950	2,950	2,950	2,950	17,905	17,905
사업용	2,950	2,950	2,950	2,950	2,950	2,950	2,950
자가용	-	-	-	-	-	14,955	14,955
흑액	36,365	36,365	36,365	36,365	36,365	36,365	36,365
자가용	36,365	36,365	36,365	36,365	36,365	36,365	36,365
하수슬러지 고행연료	-	-	-	-	81,398	120,306	120,306
사업용	-	-	-	-	81,398	120,306	120,306
Bio-SRF <sup>7</sup>	1,500	1,500	1,500	2,500	2,500	34,917	83,886
사업용	1,500	1,500	1,500	1,500	1,500	33,917	82,886
자가용	-	-	-	1,000	1,000	1,000	1,000
바이오중유	-	-	-	-	-	-	356,220
사업용	-	-	-	-	-	-	356,220
폐기물 <sup>1,4,9</sup>	3,431,049	3,647,521	4,129,541	4,136,739	4,151,214	4,722,996	5,030,856
사업용	190,828	398,528	870,228	870,528	884,788	1,455,556	1,746,666
자가용	3,240,221	3,248,993	3,259,313	3,266,211	3,266,426	3,267,440	3,284,190
폐가스	3,364,340	3,564,340	4,026,340	4,026,340	4,026,355	4,557,955	4,793,055
사업용	154,780	354,780	816,780	816,780	816,780	1,348,380	1,583,480
자가용	3,209,560	3,209,560	3,209,560	3,209,560	3,209,575	3,209,575	3,209,575
산업폐기물	1,705	1,705	1,705	2,005	4,155	10,153	13,653
사업용	1,705	1,705	1,705	2,005	4,155	10,153	12,753
자가용	-	-	-	-	-	-	900
생활폐기물 <sup>8</sup>	62,554	79,026	99,046	105,944	110,894	120,278	130,438
사업용	31,893	39,593	49,293	49,293	54,043	62,413	70,723
자가용	30,661	39,433	49,753	56,651	56,851	57,865	59,715
시멘트킬른보조연료	-	-	-	-	-	-	14,000
자가용	-	-	-	-	-	-	14,000
SRF <sup>6</sup>	2,450	2,450	2,450	2,450	9,810	34,610	37,600
사업용	2,450	2,450	2,450	2,450	9,810	34,610	37,600
자가용	-	-	-	-	-	-	-
정제연료유	-	-	-	-	-	-	42,110
사업용	-	-	-	-	-	-	42,110
연료전지	8,902	23,403	37,633	57,839	60,842	128,669	164,955
사업용 <sup>3</sup>	8,050	22,450	36,450	56,100	58,900	126,360	162,400
자가용 <sup>3</sup>	852	953	1,183	1,739	1,942	2,309	2,555
IGCC	-	-	-	-	-	-	-
사업용 <sup>3</sup>	-	-	-	-	-	-	-

1. RPS 공급인증서 발급대상 바이오·폐기물 혼소발전은 혼소비율을 반영하여 보급용량 산정  
 2. 수력은 양수발전 제외하며, '03년부터 수력에 대수력(10MW) 포함  
 3. 태양광, 풍력, 수력, 해양, 연료전지, IGCC 사업용은 각 연도별 신설, 증·감설, 해지를 반영한 용량이며, 자가용은 각 연도별 설치용량의 단순합계임  
 4. 바이오 및 폐기물은 각 연도별 기준 가동설비 용량임  
 5. 보급년도는 자가용 준공, 사업용 상업운전개시 기준임  
 6. '14년부터 RDF/RPF/TDF는 SRF로 대체 조사  
 7. '14년부터 우드칩, 목재펠릿 중 일부는 Bio-SRF로 대체 분류  
 8. '15년부터 대형도시쓰레기는 생활폐기물로 포함  
 9. 신에너지 및 재생에너지 개발·이용·보급 촉진법 개정('19.10.01 시행)에 따라 폐기물에너지 중 비재생폐기물은 제외  
 10. '10년부터 유관기관 행정자료를 활용하여 민간자본 태양광 누락설비 추가 반영  
 자료: 한국에너지공단

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

Unit: kW

2015	2016	2017	2018	2019	2020	Total
<b>13,959,346</b>	<b>14,225,955</b>	<b>16,303,098</b>	<b>19,849,205</b>	<b>24,120,668</b>	<b>25,936,597</b>	<b>Total</b>
9,907,563	11,198,597	12,969,295	16,107,589	19,441,971	23,333,870	Business
4,051,783	3,027,358	3,333,803	3,741,616	4,678,697	2,602,727	Private
3,845,319	4,882,031	6,434,780	8,921,313	12,716,982	17,322,703	Solar photovoltaic <sup>10</sup>
3,174,335	3,950,561	5,169,548	7,258,762	10,673,133	14,910,942	Business <sup>3</sup>
670,984	931,471	1,265,232	1,662,551	2,043,849	2,411,762	Private <sup>3</sup>
852,584	1,034,638	1,143,359	1,302,598	1,493,819	1,645,305	Wind power
841,937	1,023,950	1,130,166	1,289,354	1,480,555	1,632,055	Business <sup>3</sup>
10,647	10,688	13,193	13,244	13,264	13,250	Private <sup>3</sup>
1,771,582	1,789,896	1,794,121	1,797,764	1,809,488	1,807,291	Hydro power <sup>2</sup>
1,768,827	1,788,126	1,792,371	1,796,325	1,808,048	1,805,777	Business <sup>3</sup>
2,755	1,770	1,750	1,439	1,439	1,514	Private <sup>3</sup>
255,110	255,110	255,110	255,000	255,500	255,500	Ocean <sup>2</sup>
255,110	255,110	255,110	255,000	255,500	255,500	Business <sup>3</sup>
1,603,937	1,905,946	2,284,442	3,065,271	3,141,235	3,525,835	Bio <sup>1,4</sup>
1,537,553	1,860,096	2,238,442	3,017,171	3,092,366	3,440,259	Business
66,384	45,850	46,000	48,100	48,869	85,576	Private
37,803	49,041	55,637	60,396	60,945	61,532	Bio gas
25,923	39,621	46,067	48,726	48,506	52,386	Business
11,880	9,420	9,570	11,670	12,439	9,146	Private
66,515	70,130	70,130	69,378	69,378	67,427	LFG
65,515	70,130	70,130	69,378	67,820	67,427	Business
1,000	-	-	-	-	-	Private
30,449	52,490	15,662	15,450	21,999	83,669	Wood chip <sup>7</sup>
30,405	52,490	15,662	15,450	21,999	43,669	Business
44	-	-	-	-	40,000	Private
770,699	986,048	1,270,523	1,383,881	1,343,074	1,512,934	Wood pellet <sup>7</sup>
769,558	986,048	1,270,523	1,383,881	1,343,074	1,512,934	Business
1,140	-	-	-	-	-	Private
17,905	-	-	-	-	-	Waste wood
2,950	-	-	-	-	-	Business
14,955	-	-	-	-	-	Private
36,365	36,430	36,430	36,430	36,430	36,430	Black liquor
36,365	36,430	36,430	36,430	36,430	36,430	Private
120,306	123,238	166,030	182,041	140,248	249,604	Sewage solid fuel
120,306	123,238	166,030	182,041	140,248	249,604	Business
163,325	229,219	310,680	338,345	450,369	563,890	Bio-SRF <sup>7</sup>
162,325	229,219	310,680	338,345	450,369	563,890	Business
1,000	-	-	-	-	-	Private
360,570	359,350	359,350	979,350	1,020,350	950,350	Bio bunker
360,570	359,350	359,350	979,350	1,020,350	950,350	Business
5,078,806	3,793,908	3,794,445	3,813,059	3,888,166	422,064	Waste <sup>14,9</sup>
1,780,701	1,759,904	1,790,428	1,800,956	1,321,683	338,193	Business
3,298,105	2,034,004	2,004,017	2,012,103	2,566,483	83,871	Private
4,820,305	3,476,480	3,475,180	3,475,180	3,505,480	-	Waste gas
1,599,980	1,548,100	1,548,100	1,548,100	1,022,900	-	Business
3,220,325	1,928,380	1,927,080	1,927,080	2,482,580	-	Private
16,818	59,238	65,630	62,200	100,197	109,608	Industrial wastes
12,753	56,673	60,502	56,186	94,183	105,794	Business
4,065	2,565	5,128	6,014	6,014	3,814	Private
132,473	115,292	107,762	108,142	120,952	173,520	Living wastes <sup>9</sup>
72,758	39,133	38,953	36,133	50,063	100,463	Business
59,715	76,159	68,809	72,009	70,889	73,057	Private
14,000	26,400	-	-	-	-	Cement kiln fuel
14,000	26,400	-	-	-	-	Private
53,100	85,771	118,390	135,257	147,021	138,936	SRF <sup>8</sup>
53,100	85,271	115,390	128,257	140,021	131,936	Business
-	500	3,000	7,000	7,000	7,000	Private
42,110	30,727	27,483	32,280	14,516	-	Refinery fuel oil
42,110	30,727	27,483	32,280	14,516	-	Business
171,309	218,096	250,511	347,870	469,148	611,568	Fuel cells
168,400	214,520	246,900	343,691	464,356	604,814	Business <sup>3</sup>
2,909	3,576	3,611	4,179	4,792	6,754	Private <sup>3</sup>
380,700	346,330	346,330	346,330	346,330	346,330	IGCC
380,700	346,330	346,330	346,330	346,330	346,330	Business <sup>3</sup>

1. Co-firing is calculated by the blending ratio.
2. Pumped-storage(hydro) has been excluded. Large-hydro(10MW) has been included.
3. reflects the extension and reduction for each year.
4. is the simple sum of facility each year
5. is operated facilities on each year
6. is based on the initiation of commercial operation.
7. is based on the completion.
8. SRF has substituted for RDF/RPF/TDF since 2014.
9. has classified part of Wood Chip & Wood Pellet as Bio-SRF since 2014.
10. Municipal solid wastes has been included in Living wastes since 2015.

Source: Korea Energy Agency

## 6. 신재생에너지 보급용량(발전외-신규)

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

1. 각연도별 신설 용량.

2. 바이오디젤 용량은 해당연도 기준 생산능력임.

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

4. 시멘트킬른보조연료 용량은 해당연도 기준 소비량임.

5. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

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

7. 2015년부터 대형도시쓰레기는 생활폐기물로 포함.

자료: 한국에너지공단



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

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

1. is the capacity of new facilities.

2. productive capacity of each year.

3. production(sales) of each year.

4. consumption of each year.

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

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

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

Source: Korea Energy Agency

## 7. 신재생에너지 보급용량(발전외-누적)

	2008	2009	2010	2011	2012	2013	2014
태양열(m <sup>2</sup> ) <sup>1</sup>	1,427,834	1,524,785	1,594,590	1,649,322	1,713,097	1,761,570	1,793,613
지열(kW) <sup>1</sup>	104,765	144,602	233,828	307,343	431,181	552,646	677,561
수열(kW) <sup>1</sup>	-	-	-	-	-	-	-
바이오 <sup>2</sup>							
바이오가스(증기톤/시간)	261	751	784	807	830	863	904
매립지가스(증기톤/시간)	-	28	28	28	43	43	43
우드칩(증기톤/시간) <sup>4</sup>	97	347	393	405	405	411	416
목재펠릿(증기톤/시간) <sup>4</sup>	73	76	76	148	275	403	872
폐목재(증기톤/시간)	163	163	183	189	248	325	343
흑액(증기톤/시간)	310	310	310	310	310	310	310
하수슬러지고형연료(증기톤/시간)	-	5	7	7	8	12	15
Bio-SRF(증기톤/시간) <sup>4</sup>	4	4	4	74	92	98	142
폐기물							
폐가스(증기톤/시간)	4,983	5,035	5,057	5,190	5,304	5,331	5,440
산업폐기물(증기톤/시간)	1,609	1,815	1,954	2,207	2,462	2,633	2,778
생활폐기물(증기톤/시간) <sup>5</sup>	1,172	1,233	1,257	1,325	1,422	1,483	1,549
SRF(증기톤/시간) <sup>3</sup>	28	43	66	66	304	423	456

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

2. 바이오 및 폐기물은 각 연도별 기준 가동설비 보일러 용량임.

3. 2014년부터 RDF/RPF/TDF는 SRF로 대체 조사

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

5. 2015년부터 대형도시쓰레기는 생활폐기물로 포함

자료: 한국에너지공단

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

2015	2016	2017	2018	2019	2020	
1,822,646	1,851,618	1,870,685	1,891,155	1,918,209	1,941,506	Solar Thermal(m <sup>2</sup> ) <sup>1</sup>
851,907	979,256	1,100,546	1,224,107	1,319,449	1,408,749	Geothermal(kW) <sup>1</sup>
48,509	87,513	146,292	205,386	242,156	320,267	Hydro thermal(kW) <sup>1</sup>
						Bio <sup>2</sup>
920	862	691	640	625	625	Bio gas(steam ton/h)
43	44	44	44	44	152	LFG(steam ton/h)
425	425	367	409	392	438	Wood chip(steam ton/h) <sup>4</sup>
947	1,568	1,715	1,742	1,706	2,134	Wood pellet(steam ton/h) <sup>4</sup>
347	362	391	399	399	399	Waste wood(steam ton/h)
310	310	310	311	311	311	Black liquor(steam ton/h)
55	14	18	18	18	18	Sewage solid fuel(steam ton/h)
142	202	501	521	521	869	Bio-SRF(steam ton/h) <sup>4</sup>
						Waste
5,449	4,465	4,503	4,748	4,783	-	Waste gas(steam ton/h)
2,880	2,930	3,444	3,418	3,513	3,796	Industrial wastes(steam ton/h)
1,573	2,704	2,687	2,689	2,747	2,961	Living wastes(steam ton/h) <sup>5</sup>
456	1,488	1,835	1,961	1,871	2,188	SRF(steam ton/h) <sup>3</sup>

1. Total is the simple sum of facility each year

2. is operated facilities on each year.

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

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

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

Source: Korea Energy Agency



## 5. 석탄

### Coal

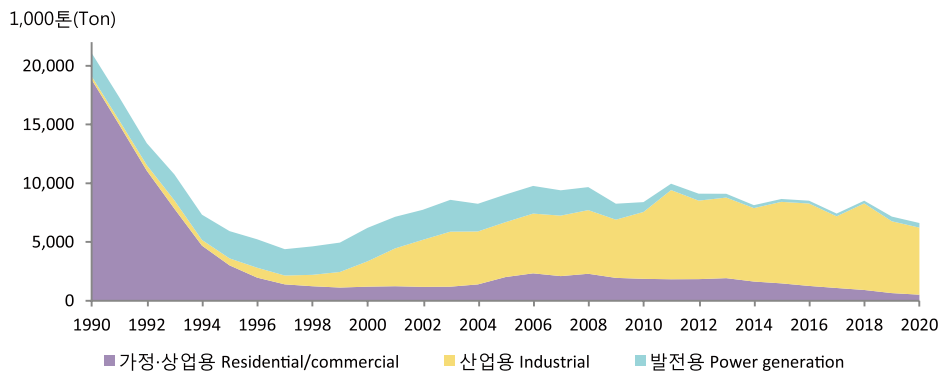
1. 석탄 수급  
Coal Overview
2. 석탄수입량 및 수입액  
Coal Imports and Prices
3. 지역별 무연탄 수입량  
Anthracite Imports by Origin
4. 지역별 유연탄 수입량  
Bituminous Coal Imports by Origin
5. 부문별 석탄 소비  
Coal Consumption by Sector
6. 지역별 가정·상업용 무연탄 소비  
Anthracite Consumption in Residential & Commercial Sector by Region
7. 무연탄 재고  
Anthracite Stocks
8. 생산규모별 국내 탄광 현황  
Number of Anthracite Mines by Production Scale
9. 석탄광 종업원 수 및 생산성(O.M.S)  
Coal Mining Employees and Output Per Man Shift
10. 연탄 공장 현황  
Number of Briquette Factories
11. 연탄 가격 추이  
Trend of Briquette Price
12. 석탄광 재해 현황  
Coal Mining Accidents
13. 석탄 및 연탄가격  
Coal and Briquette Price





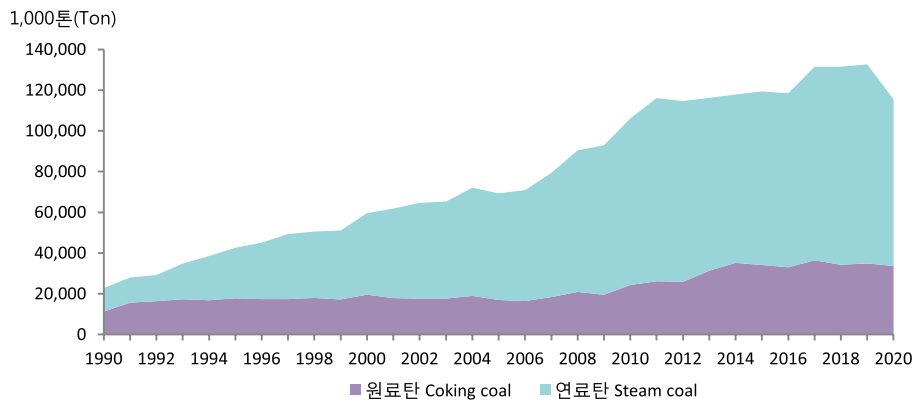
● 무연탄 소비 Anthracite Consumption

<1990~2020>



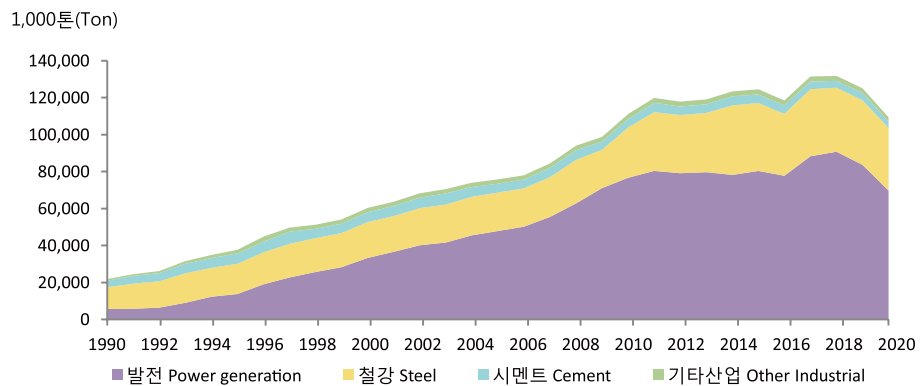
● 유연탄 수입 Bituminous Coal Imports

<1990~2020>



● 유연탄 소비 Bituminous Coal Consumption

<1990~2020>



## 1. 석탄 수급

단위: 천 톤

	무연탄 Anthracite				
	공급 Supply			소비 Consumption	재고 Stocks
	국내생산 Domestic Production	수입 Imports	재고증감 Stock changes		
1981	19,865	4,293	-2,744	21,414	7,820
1982	20,116	2,292	-1,543	20,866	9,363
1983	19,861	838	996	21,695	8,367
1984	21,370	909	1,980	24,259	6,387
1985	22,543	2,830	-39	25,836	6,426
1986	24,253	4,575	-1,744	27,588	8,170
1987	24,274	3,491	-1,425	27,086	9,595
1988	24,295	2,707	-1,179	26,632	10,774
1989	20,785	1,527	726	23,670	10,048
1990	17,217	1,072	2,035	21,091	8,013
1991	15,058	1,410	-259	17,424	8,272
1992	11,969	809	547	13,490	7,725
1993	9,407	783	770	10,819	6,955
1994	7,398	699	-814	7,360	7,769
1995	5,720	723	-723	5,999	8,492
1996	4,951	875	-445	5,312	8,937
1997	4,512	722	-783	4,444	9,720
1998	4,361	789	-549	4,650	10,269
1999	4,197	1,139	-468	4,995	10,737
2000	4,150	2,038	-37	6,200	10,774
2001	3,817	3,110	198	7,141	10,576
2002	3,318	3,879	475	7,735	10,101
2003	3,298	4,640	574	8,584	9,527
2004	3,191	4,251	633	8,249	8,894
2005	2,832	4,567	1,506	9,037	7,388
2006	2,824	5,113	1,837	9,769	5,551
2007	2,886	5,444	1,320	9,690	4,231
2008	2,773	5,955	1,434	10,247	2,797
2009	2,519	6,468	559	9,585	2,238
2010	2,084	7,406	385	9,956	1,853
2011	2,084	8,816	133	11,072	1,720
2012	2,094	8,055	-67	10,315	1,787
2013	1,815	8,482	330	10,506	1,457
2014	1,748	8,294	-153	9,925	1,610
2015	1,764	8,938	-188	10,539	1,798
2016	1,726	9,424	-353	10,801	2,151
2017	1,485	7,003	-290	8,260	2,441
2018	1,200	8,201	-148	9,272	2,589
2019	1,084	6,858	-61	7,923	2,650
2020	1,019	6,286	-122	7,189	2,772

자료: 대한석탄협회



# 1. Coal Overview

Unit: Thousand tons

유연탄 Bituminous Coal								
수입 Imports			소비 Consumption					
소계 Subtotal	원료탄 Coking coal	연료탄 Steam coal	소계 Subtotal	발전 Power generation	철강 Iron & Steel	시멘트 및 기타산업 Cement & Others Industrial		
7,245	5,825	1,420	7,434	-	5,941	1,493	1981	
9,039	6,439	2,600	8,503	-	6,033	2,470	1982	
10,151	6,394	3,757	9,633	546	6,199	2,888	1983	
12,194	6,321	5,873	12,745	3,342	6,889	2,514	1984	
17,131	8,125	9,006	14,697	5,140	6,964	2,593	1985	
16,437	6,575	9,862	15,290	5,363	7,000	2,927	1986	
17,834	9,247	8,587	16,218	4,442	8,351	3,425	1987	
21,913	11,237	10,676	19,274	5,579	9,722	3,973	1988	
23,500	11,651	11,849	20,468	5,227	11,180	4,060	1989	
22,844	11,285	11,559	21,878	5,724	11,739	4,415	1990	
28,017	15,656	12,361	24,411	5,777	13,573	5,061	1991	
29,207	16,381	12,826	26,242	6,385	14,297	5,560	1992	
34,853	17,321	17,532	31,552	9,008	15,972	6,572	1993	
38,550	16,854	21,696	35,059	12,299	15,608	7,152	1994	
42,601	17,784	24,817	37,426	13,752	16,372	7,302	1995	
45,136	17,408	27,728	44,809	19,019	17,303	8,487	1996	
49,312	17,394	31,918	49,712	22,714	18,178	8,820	1997	
50,566	17,979	32,587	51,261	25,682	18,329	7,250	1998	
51,101	17,227	33,874	54,137	28,297	18,442	7,399	1999	
59,600	19,575	40,025	60,346	33,305	19,415	7,627	2000	
61,856	17,899	43,957	63,703	36,601	19,315	7,787	2001	
64,640	17,660	46,980	68,274	40,143	20,097	8,034	2002	
65,318	17,676	47,642	70,549	41,631	20,509	8,409	2003	
72,103	18,954	53,149	73,984	45,512	20,839	7,633	2004	
69,330	16,975	52,355	75,796	47,852	20,810	7,134	2005	
70,888	16,466	54,422	78,001	50,199	20,731	7,071	2006	
79,355	18,385	60,970	84,438	55,487	21,519	7,432	2007	
90,470	20,912	69,558	94,013	62,791	23,568	7,654	2008	
92,952	19,553	73,399	98,789	71,091	20,734	6,964	2009	
106,096	24,328	81,768	111,162	76,674	27,210	7,278	2010	
116,118	26,157	89,961	119,870	80,393	31,762	7,715	2011	
114,645	25,857	88,788	117,872	79,136	31,487	7,249	2012	
116,220	31,361	84,859	119,078	79,692	32,053	7,333	2013	
117,873	35,198	82,675	123,399	78,227	37,611	7,561	2014	
119,392	34,148	85,244	124,547	80,354	36,753	7,440	2015	
118,468	33,030	85,438	118,509	77,761	33,460	7,287	2016	
131,464	36,442	95,022	131,490	88,309	36,290	6,891	2017	
131,520	34,247	97,273	131,779	90,764	34,619	6,395	2018	
132,667	34,933	97,734	125,084	83,637	34,959	6,488	2019	
115,486	33,671	81,815	109,382	69,772	33,797	5,814	2020	

Source: Korea Coal Association

## 2. 석탄수입량 및 수입액

단위: 천 톤

Unit: Thousand tons

	합계 Total	무연탄 Anthracite	유연탄 Bituminous Coal	갈탄 Brown Coal	토탄 Peat	기타석탄 Other Coal
1981	11,538	4,293	7,245	-	-	-
1982	11,331	2,292	9,039	-	-	-
1983	10,989	838	10,151	-	-	-
1984	13,103	909	12,194	-	-	-
1985	19,961	2,830	17,131	-	-	-
1986	21,012	4,575	16,437	-	-	-
1987	21,325	3,491	17,834	-	-	-
1988	24,926	2,803	21,913	21	0	189
1989	25,451	1,517	23,500	31	0	403
1990	24,119	1,072	22,846	35	21	145
1991	29,434	1,410	27,849	19	4	151
1992	30,764	809	29,321	16	5	612
1993	35,958	783	34,221	3	8	942
1994	39,448	699	37,854	6	8	880
1995	44,074	723	42,359	5	12	976
1996	46,531	875	45,160	9	16	471
1997	49,858	722	48,237	3	18	877
1998	52,437	789	50,566	0	5	1,076
1999	53,722	1,139	51,101	0	10	1,472
2000	64,170	2,038	59,601	2	18	2,512
2001	67,035	3,110	61,857	1	23	2,045
2002	70,473	3,879	64,640	1	25	1,928
2003	72,153	4,640	65,318	1	28	2,166
2004	79,697	4,251	72,103	0	38	3,305
2005	77,153	4,567	69,330	0	44	3,212
2006	80,067	5,113	70,888	1	40	4,025
2007	88,899	5,444	79,355	0	51	4,049
2008	100,398	5,955	90,469	5	52	3,916
2009	103,309	6,468	92,952	0	39	3,851
2010	119,304	7,406	106,096	0	50	5,753
2011	129,712	8,816	116,118	3	61	4,713
2012	126,036	8,055	114,645	2	58	3,276
2013	126,996	8,482	116,222	1	61	2,230
2014	131,563	8,294	117,873	2	66	5,328
2015	135,610	8,938	119,322	3	72	7,275
2016	134,930	9,424	118,468	2	65	6,972
2017	148,678	7,003	131,464	1	69	10,141
2018	149,170	8,201	131,520	0	62	9,388
2019	141,792	6,858	132,667	0	63	2,203
2020	123,886	6,286	115,373	0	101	2,125

자료: 한국무역협회

## 2. Coal Imports and Prices

단위: 백만\$(CIF)

Unit: Million USD(CIF)

합계 Total	무연탄 Anthracite	유연탄 Bituminous Coal	갈탄 Brown Coal	토탄 Peat	기타석탄 Other Coal	
818	302	484	0	0	31	1981
785	165	601	0	0	19	1982
654	49	588	-	0	17	1983
726	46	663	2	0	15	1984
1,043	138	890	4	0	11	1985
1,028	214	798	3	0	13	1986
991	149	828	2	0	13	1987
1,166	129	1,021	1	0	14	1988
1,307	75	1,212	2	0	17	1989
1,288	52	1,217	3	1	16	1990
1,600	66	1,514	2	1	18	1991
1,616	42	1,535	1	1	36	1992
1,733	40	1,643	0	2	48	1993
1,777	33	1,695	1	2	46	1994
2,081	35	1,992	0	4	50	1995
2,337	46	2,251	1	5	35	1996
2,399	38	2,301	0	5	55	1997
2,229	36	2,147	0	1	45	1998
1,966	46	1,866	0	2	51	1999
2,186	72	2,033	0	3	77	2000
2,347	118	2,157	0	4	68	2001
2,475	148	2,254	0	5	68	2002
2,552	177	2,266	0	5	104	2003
4,438	233	3,891	0	7	307	2004
5,443	429	4,803	0	10	201	2005
5,318	407	4,700	0	9	202	2006
6,445	447	5,675	0	11	311	2007
12,810	991	11,156	1	14	649	2008
9,995	672	8,997	0	10	316	2009
13,131	1,016	11,425	0	13	677	2010
18,477	1,774	16,052	1	16	635	2011
16,069	1,361	14,221	1	15	472	2012
13,074	1,143	11,624	1	17	290	2013
12,114	921	10,723	1	18	452	2014
9,961	813	8,675	1	16	456	2015
9,310	759	8,168	1	14	368	2016
15,179	933	13,481	0	16	749	2017
16,703	1,199	14,668	0	15	821	2018
14,209	927	13,062	0	14	205	2019
9,596	611	8,805	0	19	162	2020

Source: Korea International Trade Association

### 3. 지역별 무연탄 수입량 Anthracite Coal Imports by Origin

	합계 Total	아시아 Asia	중동 Middle East	유럽 Europe	북미 North America	중남미 Centre and South America	아프리카 Africa	대양주 Oceania	기타 Others
1,000 ton									
1988	2,803	1,100	-	120	351	-	-	204	1,028
1989	1,517	707	-	166	31	-	-	23	590
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	0
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	0

자료: 한국무역협회

Source: Korea International Trade Association.

#### 4. 지역별 유연탄 수입량 Bituminous Coal Imports by Origin

	합계 Total	아시아 Asia	중동 Middle East	유럽 Europe	북미 North America	중남미 Centre and South America	아프리카 Africa	대양주 Oceania	기타 Others
1,000 ton									
1988	21,913	2,706	-	1,041	7,969	-	-	8,350	1,846
1989	23,500	2,238	21	933	8,990	-	-	7,854	3,464
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	34,221	5,581	-	952	8,201	-	3,820	15,638	30
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	-

자료: 한국무역협회

Source: Korea International Trade Association.

## 5. 부문별 석탄 소비

단위: 천 톤

	무연탄 Anthracite											
	발전 Power generation			산업 Industrial			가정·상업 Residential & Commercial			공공·기타 Public & Others		
	소계 Subtotal	국내탄 Domestic	수입탄 Imported	소계 Subtotal	국내탄 Domestic	수입탄 Imported	소계 Subtotal	국내탄 Domestic	수입탄 Imported	소계 Subtotal	국내탄 Domestic	수입탄 Imported
1981	1,878	1,432	446	787	787	-	18,543	15,507	3,036	206	206	-
1982	2,327	2,167	160	492	492	-	17,887	16,329	1,558	160	160	-
1983	2,074	2,042	32	518	518	-	18,985	17,918	1,067	118	118	-
1984	2,251	2,251	-	439	436	3	21,418	19,305	2,113	151	151	-
1985	1,778	1,714	64	383	353	30	23,567	20,536	3,031	108	108	-
1986	2,285	2,128	157	475	277	198	24,712	21,153	3,559	116	116	-
1987	2,444	2,444	-	449	206	243	24,103	20,952	3,151	90	90	-
1988	2,407	2,407	-	510	209	301	23,616	20,871	2,745	99	99	-
1989	2,438	2,438	-	391	214	177	20,749	18,711	2,038	92	92	-
1990	1,983	1,983	-	283	171	112	18,779	17,602	1,177	46	46	-
1991	2,070	1,973	97	368	115	253	14,986	13,840	1,146	-	-	-
1992	1,945	1,863	82	476	63	413	11,069	10,361	708	-	-	-
1993	2,275	2,205	70	713	54	659	7,831	7,581	250	-	-	-
1994	2,192	2,151	41	484	49	435	4,684	4,617	67	-	-	-
1995	2,400	2,321	79	594	59	535	3,005	2,987	18	-	-	-
1996	2,507	2,421	86	844	28	816	1,961	1,957	4	-	-	-
1997	2,302	2,241	61	753	29	724	1,389	1,389	-	-	-	-
1998	2,451	2,421	30	970	162	808	1,229	1,229	-	-	-	-
1999	2,552	2,502	50	1,326	184	1,142	1,117	1,117	-	-	-	-
2000	2,850	2,850	-	2,158	117	2,041	1,192	1,192	-	-	-	-
2001	2,689	2,689	-	3,221	107	3,114	1,230	1,230	-	-	-	-
2002	2,558	2,558	-	4,002	75	3,927	1,175	1,175	-	-	-	-
2003	2,710	2,710	-	4,683	40	4,643	1,191	1,174	17	-	-	-
2004	2,356	2,356	-	4,508	145	4,363	1,385	1,370	15	-	-	-
2005	2,354	2,354	-	4,673	34	4,639	2,010	1,959	51	-	-	-
2006	2,356	2,356	-	5,086	16	5,070	2,327	2,224	103	-	-	-
2007	2,450	2,156	294	5,149	7	5,142	2,091	1,872	219	-	-	-
2008	2,539	1,960	579	5,419	11	5,408	2,289	2,163	126	-	-	-
2009	2,690	1,360	1,330	4,954	8	4,946	1,941	1,746	195	-	-	-
2010	2,404	839	1,565	5,693	-	5,693	1,859	1,669	190	-	-	-
2011	1,659	543	1,116	7,592	-	7,592	1,822	1,696	126	-	-	-
2012	1,797	591	1,206	6,685	-	6,685	1,833	1,697	136	-	-	-
2013	1,729	323	1,406	6,861	-	6,861	1,917	1,731	186	-	-	-
2014	2,044	250	1,794	6,251	-	6,251	1,629	1,392	237	-	-	-
2015	2,125	245	1,880	6,940	-	6,940	1,473	1,296	177	-	-	-
2016	2,528	240	2,288	7,017	-	7,017	1,255	1,133	122	-	-	-
2017	1,079	235	844	6,103	-	6,103	1,079	1,009	70	-	-	-
2018	992	230	762	7,370	-	7,370	910	869	41	-	-	-
2019	1,165	400	765	6,115	-	6,115	644	608	36	-	-	-
2020	971	393	578	5,708	-	5,708	510	493	17	-	-	-

자료: 대한석탄협회

### 5. Coal Consumption by Sector

Unit: Thousand tons

		유연탄 Bituminous Coal									
발전 Power generation	산업 Industrial										
	소계 Subtotal	음식·담배 Food· Tobacco	섬유·의복 Textile· Apparel	목재·나무/펄프·인쇄 Wood & wood products / Paper, pulp & print	석유·화학 Petroleum· Chemical	비금속 Non- Metallic	1차금속 Iron & Steel	비철금속 Non- ferrous metals	기타제조 Other Manufacturing		
-	7,434	-	-	-	-	1,493	5,941	-	-	1981	
-	8,503	-	-	-	-	2,470	6,033	-	-	1982	
546	9,087	-	-	-	-	2,888	6,199	-	-	1983	
3,342	9,403	-	-	-	-	2,514	6,889	-	-	1984	
5,140	9,557	-	6	39	90	2,459	6,964	-	-	1985	
5,363	9,927	17	19	106	107	2,678	7,000	-	-	1986	
4,442	11,776	27	121	173	113	2,992	8,351	-	-	1987	
5,579	13,695	40	367	219	107	3,241	9,722	-	-	1988	
5,227	15,241	45	408	146	103	3,359	11,180	-	-	1989	
5,724	16,154	23	92	88	173	4,030	11,739	-	9	1990	
5,777	18,634	15	45	-	220	4,776	13,573	5	-	1991	
6,385	19,857	37	114	9	198	5,194	14,297	8	-	1992	
9,008	22,544	43	133	11	233	6,152	15,972	-	-	1993	
12,299	22,760	47	145	12	254	6,694	15,608	-	-	1994	
13,752	23,674	48	149	12	262	6,831	16,372	-	-	1995	
19,019	25,790	56	172	14	302	5,758	17,303	-	2,185	1996	
22,714	26,998	55	149	11	270	6,593	18,178	-	1,743	1997	
25,682	25,579	48	147	12	259	5,019	18,329	-	1,765	1998	
28,297	25,840	48	147	12	260	5,069	18,442	-	1,863	1999	
33,305	27,042	45	-	1	413	5,308	19,415	164	1,695	2000	
36,601	27,101	46	-	-	433	5,475	19,315	162	1,670	2001	
40,143	28,131	49	-	-	432	5,669	20,097	162	1,722	2002	
41,631	28,918	48	-	-	436	6,060	20,509	168	1,697	2003	
45,512	28,472	48	-	-	342	5,309	20,839	166	1,767	2004	
47,852	27,944	50	-	-	337	4,807	20,810	163	1,777	2005	
50,199	27,802	46	-	-	335	4,738	20,731	166	1,784	2006	
55,487	28,951	49	-	-	376	5,051	21,519	167	1,788	2007	
62,791	31,222	46	-	-	320	5,236	23,568	187	1,865	2008	
71,091	27,698	49	-	-	329	4,463	20,734	289	1,834	2009	
76,674	34,488	50	-	-	364	4,564	27,210	374	1,926	2010	
80,393	39,477	49	-	0	379	5,046	31,762	335	1,906	2011	
79,136	38,736	50	-	-	383	4,625	31,487	351	1,840	2012	
79,692	39,386	49	-	-	392	4,647	32,053	393	1,851	2013	
78,227	45,172	50	-	-	420	4,916	37,611	419	1,757	2014	
80,354	44,193	53	-	-	418	4,650	36,753	526	1,794	2015	
77,761	40,747	52	-	-	382	4,591	33,460	553	1,709	2016	
88,309	43,181	39	-	-	343	4,175	36,290	606	1,727	2017	
90,764	41,014	-	-	-	369	3,709	34,619	595	1,723	2018	
83,637	41,447	-	-	-	346	3,989	34,959	601	1,552	2019	
69,772	39,611	-	-	-	343	3,404	33,797	539	1,527	2020	

Source: Korea Coal Association

## 6. 지역별 가정·산업용 무연탄 소비

단위: 천 톤

	합계 Total	서울 Seoul	부산 Busan	대구 Daegu	인천 Inchun	광주 Gwangju	대전 Daejeon	울산 Ulsan
1981	18,543	7,239	1,918	1,374	822	-	-	-
1982	17,887	6,867	1,817	1,284	705	-	-	-
1983	18,985	7,202	1,909	1,358	678	-	-	-
1984	21,418	8,261	2,019	1,436	786	-	-	-
1985	23,567	8,944	2,119	1,489	872	-	-	-
1986	24,712	9,282	2,121	1,525	988	828	-	-
1987	24,103	8,921	2,025	1,481	1,104	836	-	-
1988	23,616	8,480	1,973	1,468	1,212	799	650	-
1989	20,749	7,026	1,752	1,305	993	808	572	-
1990	18,779	6,202	1,440	1,142	802	790	545	-
1991	14,986	4,789	1,171	932	494	664	447	-
1992	11,069	3,444	851	686	327	500	359	-
1993	7,831	2,364	582	482	229	374	262	-
1994	4,684	1,332	324	272	132	218	160	-
1995	3,005	781	193	160	83	110	87	-
1996	1,961	453	108	91	54	88	57	-
1997	1,389	292	54	59	27	63	48	-
1998	1,229	255	38	42	19	56	44	-
1999	1,117	218	38	39	17	49	34	-
2000	1,192	226	37	37	7	48	43	-
2001	1,230	223	40	34	-	51	59	-
2002	1,175	193	41	33	-	47	46	-
2003	1,191	180	40	41	-	44	51	-
2004	1,385	209	41	73	-	48	53	-
2005	2,010	310	53	124	-	66	74	-
2006	2,327	320	59	159	-	78	104	-
2007	2,091	300	52	148	-	69	94	-
2008	2,289	300	53	169	-	84	116	-
2009	1,941	259	46	134	-	86	106	-
2010	1,859	248	38	126	-	78	107	-
2011	1,822	247	34	117	-	74	103	-
2012	1,833	277	29	116	-	72	104	-
2013	1,917	290	30	121	-	75	108	-
2014	1,629	246	23	95	-	59	100	-
2015	1,473	222	21	86	-	53	91	-
2016	1,255	192	17	72	-	41	92	-
2017	1,079	176	7	55	-	38	67	-
2018	910	143	-	14	-	33	53	-
2019	644	105	-	-	-	25	28	-
2020	510	88	-	-	-	19	17	-

주: 지역별 연탄생산용 무연탄 소비 기준

자료: 대한석탄협회



## 6. Anthracite Consumption in Residential & Commercial Sector by Region

Unit: Thousand tons

경기 Gyeonggi	강원 Gangwon	충북 Chungbuk	충남 Chungnam	전북 Jeonbuk	전남 Jeonnam	경북 Gyeongbuk	경남 Gyeongnam	제주 Jeju	
1,007	777	603	934	673	1,009	939	1,164	85	1981
1,077	769	557	923	687	1,002	923	1,183	95	1982
1,157	816	623	987	723	1,164	1,001	1,272	94	1983
1,364	908	758	1,179	827	1,320	1,098	1,356	107	1984
1,636	980	849	1,333	976	1,515	1,226	1,508	118	1985
1,737	1,032	919	1,481	1,039	773	1,318	1,541	127	1986
1,609	1,002	844	1,503	1,068	762	1,331	1,486	131	1987
1,530	1,030	858	943	1,026	727	1,330	1,464	126	1988
1,369	992	766	894	968	658	1,219	1,315	112	1989
1,331	919	694	915	925	718	1,132	1,121	103	1990
1,019	769	586	839	766	577	962	884	86	1991
710	627	479	673	528	413	776	632	64	1992
465	475	357	450	423	307	581	432	48	1993
280	322	244	261	281	202	394	234	28	1994
222	263	148	170	184	137	311	138	18	1995
178	203	97	105	116	97	216	87	10	1996
160	162	82	72	79	71	156	57	7	1997
147	154	77	71	71	65	142	43	6	1998
124	144	93	61	67	54	135	39	5	1999
132	159	126	59	60	53	164	37	4	2000
134	180	139	44	54	43	191	33	3	2001
141	175	148	42	44	38	195	31	3	2002
126	169	170	48	44	33	212	32	2	2003
125	181	202	67	57	32	260	34	1	2004
207	233	293	105	68	44	382	52	-	2005
185	268	342	148	82	54	459	69	-	2006
158	261	287	119	72	51	420	62	-	2007
176	299	299	129	79	49	466	71	-	2008
148	272	252	104	68	18	390	58	-	2009
128	258	256	100	65	15	392	48	-	2010
121	245	256	96	60	16	412	41	-	2011
116	244	265	103	56	14	393	45	-	2012
121	255	277	108	59	15	410	47	-	2013
99	232	233	87	51	12	350	43	-	2014
89	210	210	78	46	11	317	39	-	2015
79	186	191	36	40	8	267	32	-	2016
57	167	190	33	29	6	221	32	-	2017
47	150	179	30	23	4	203	32	-	2018
42	101	133	23	15	3	146	21	-	2019
41	77	71	18	11	2	153	13	-	2020

Note: Anthracite consumption for briquette production  
Source: Korea Coal Association

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

자료: 대한석탄협회

Source: Korea Coal Association

## 8. 생산규모별 국내 탄광 현황 Number of Anthracite Mines by Production Scale

단위: 개

Unit: Each

	합계 Total	5만톤 이하 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	1	6
1996	70	47	10	4	-	9
1997	11	1	1	2	2	5
1998	12	2	1	2	2	5
1999	11	1	1	2	2	5
2000	12	2	1	3	1	5
2001	13	3	1	3	1	5
2002	10	1	1	3	1	4
2003	9	-	2	2	1	4
2004	9	-	1	3	1	4
2005	8	-	2	2	-	4
2006	7	-	1	2	-	4
2007	7	-	1	2	-	4
2008	7	-	1	2	-	4
2009	6	1	-	1	-	4
2010	5	-	-	1	-	4
2011	5	-	-	1	-	4
2012	5	-	-	1	-	4
2013	5	-	1	-	-	4
2014	5	-	-	-	-	5
2015	5	1	-	-	-	4
2016	5	1	-	-	-	4
2017	5	1	-	-	-	4
2018	5	1	-	-	-	4
2019	4	-	-	-	-	4
2020	4	-	-	-	-	4

자료: 대한석탄협회

Source: Korea Coal Association

### 9. 석탄광 종업원 수 및 생산성(O.M.S) Coal Mining Employees and Output Per Man Shift

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

자료: 대한석탄협회

Source: Korea Coal Association

## 10. 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	34	1	-	-	-	1	3	-	-

자료: 대한석탄협회

## 10. 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	10	4	2	1	1	9	1	-	2020

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

주: 서울시 3.6kg 연탄가격 기준  
자료: 대한석탄협회

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

## 12. 석탄광 재해 현황 Coal Mining Accidents

	생산량 Production	종업원 수 Employee	연가동인원 Men shift per year	재해자 수 Number of person			
				합계 Total	사망 Death	중상 Severe injury	경상 Slight injury
	1,000 M/T	명 (persons)	1,000명 (1,000persons)	명 (persons)			
1981	19,865	60,302	18,694	6,157	194	2,599	3,364
1982	20,116	62,310	19,316	5,413	167	2,348	2,898
1983	19,861	58,959	18,277	5,066	164	2,281	2,621
1984	21,370	61,812	18,966	5,549	170	2,344	3,035
1985	22,543	64,745	20,071	5,925	181	2,418	3,326
1986	24,253	68,861	19,329	6,182	167	2,648	3,367
1987	24,273	71,947	19,726	5,909	174	2,583	3,152
1988	24,295	62,259	17,642	5,696	159	2,581	2,956
1989	20,785	47,934	14,085	4,953	111	2,218	2,624
1990	17,217	38,101	11,137	3,773	108	1,878	1,787
1991	15,058	32,561	8,665	2,483	74	1,545	1,224
1992	11,970	26,021	7,357	1,916	74	984	858
1993	9,443	19,461	5,456	1,331	57	557	717
1994	7,438	14,925	4,476	786	46	426	314
1995	5,720	11,735	3,481	423	17	274	132
1996	4,951	10,889	3,048	265	27	172	66
1997	4,512	9,543	2,850	235	15	142	78
1998	4,361	8,430	2,564	153	6	108	39
1999	4,197	8,214	2,330	112	9	60	45
2000	4,150	8,207	2,271	107	6	42	59
2001	3,817	7,812	2,152	99	14	34	51
2002	3,318	6,872	1,896	70	14	20	36
2003	3,299	6,636	1,858	62	7	20	35
2004	3,191	6,570	1,759	48	5	11	32
2005	2,832	5,736	1,447	22	3	7	12
2006	2,824	5,888	1,422	31	-	8	23
2007	2,886	5,843	1,385	73	3	34	36
2008	2,773	5,301	1,275	50	2	24	24
2009	2,519	4,462	1,112	48	4	21	23
2010	2,084	4,050	995	36	1	12	23
2011	2,084	3,794	905	31	2	14	15
2012	2,094	3,706	890	42	4	15	23
2013	1,815	3,435	805	43	3	18	22
2014	1,748	3,104	745	11	2	6	3
2015	1,764	3,126	721	14	1	5	8
2016	1,726	3,172	724	19	3	5	11
2017	1,485	2,893	667	19	5	6	8
2018	1,202	2,490	617	6	1	-	5
2019	1,084	2,347	555	13	2	5	6
2020	1,019	2,219	535	6	1	3	2

자료: 대한석탄협회

## 12. 석탄광 재해 현황(계속) Coal Mining Accidents(Continued)

백만인당 재해자 수 Accidents per million Men shifts				백만톤당 재해자 수 Accidents per million tonnes of product				
합계 Total	사망 Death	중상 Severe injury	경상 Slight injury	합계 Total	사망 Death	중상 Severe injury	경상 Slight injury	
명 (persons)								
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
125.1	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	19.8	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	1.9	6.7	7.2	2011
47.2	4.5	16.9	25.8	20.1	1.0	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

Source: Korea Coal Association



### 13. 석탄 및 연탄가격 Coal and Briquette Price

#### 1. 석탄 및 연탄지원 단가

	석탄(원/톤)									연탄(제조사)(원/장)								
	'12	'13	'14	'15	'16	'17	'18	'19	'20	'12	'13	'14	'15	'16	'17	'18	'19	'20
• 생산원가	157,192	168,193	189,554	183,564	190,220	199,149	218,574	222,918	222,027	647.25	651.00	644.50	656.00	712.00	744.00	760.50	790.25	813.5
• 판매가격 -인상전	145,852	146,534	146,635	144,024	143,067	156,818	166,936	187,929	187,401	373.50	373.50	373.50	373.50	373.50	446.75	534.25	639.00	639
-인상후	-	-	0	0	154,570	169,427	180,358	-	-	-	-	-	-	447	534.25	639.00	-	-
• 지원단가 -인상전	11,340	21,659	42,919	39,540	47,153	42,331	51,638	34,989	34,626	273.75	277.50	271.00	282.50	296.25	254.25	182.50	151.25	174.50
-인상후	-	-	-	-	35,650	29,722	38,216	-	-	-	-	-	-	265.25	209.75	121.50	-	-
• 지원율(%) -인상전	7.21	12.87	22.64	21.54	24.79	21.26	23.62	15.70	15.6	42.29	42.63	42.04	43.06	47.54	39.95	29.75	19.14	21.45
-인상후	-	-	-	-	18.74	14.92	17.48	-	-	-	-	-	-	37.25	28.19	15.98	-	-

- 연탄(공장도)생산원가 = 판매(공장도)가격 + (제조비)지원단가
- '20년 석 연탄 고시가격 동결
- 자료 : 2021 석탄산업통계, 산업통상자원부

#### 2. 석탄 및 연탄가격 인상추이

(단위 : 원/톤)

	'89~'95	'96	'97	'98	'99	'00~'01	'02	'03	'04	'05	'06	'08	'09	'11	'17	'18	'19~
석탄	동결	5%	10%	15%	15%	동결	5%	5%	7.50%	10%	10%	15.5%	7.2%	15.0%	8.0%	8.0%	동결
연탄 (가 격)	'89~'02년까지 동결[167.25]							10% [184]	동결 [184.00]			30% [287.25]	30% [373.50]	동결 [373.50]	19.6% [534.25]	19.6% [639.00]	동결 [639.00]

- 연탄(공장도)가격은 '88년 이후 7회('03.3.1, '07.4.1, '08.4.1, '09.11.1, '16.11.3, '17.11.28, '18.11.23) 인상
- 자료 : 2021 석탄산업통계, 산업통상자원부

#### 3. 연탄제조용 및 발전용 무연탄 최고판매가격

(단위: 원/톤)

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

- 발전용탄 중 2급 이상은 3급탄 중위열량(kcal/kg)당 단가로 각 등급별 중위열량을 곱한 금액을 기준으로 한다.
- 자료 : 무연탄 및 연탄의 최고판매가격 지정에 관한 고시, '19.9.20

#### 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	373.5	391.25	446.75	464.5	534.25	552	639	750

- 소비자가격=판매소(소매점) 가격(공장도가격+운반비 및 배달료(자율화))
- 자료 : 무연탄 및 연탄의 최고판매가격 지정에 관한 고시, '20.12.16

#### 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 가격	운반비·배달료 (상·하차비용포함)	계 (B)	
124.65	174.5	24.75	323.9 (-30.20%)	639	111	750 (-69.80%)	1,073.90 (-100%)

- 석탄가격인상('18. 11.23) 이후 기준
- 합계(A+B)는 정부지원 없을시 정상 소비자가격 추정치
- 운반비 및 배달료는 서울 평지 기준으로 추정 (배달지역에 따라 금액 상이)
- 자료 : 2021 석탄산업통계, 산업통상자원부

#### 6. 연탄 품질기준

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

- 자료: 2021 석탄산업통계, 산업통상자원부

## 6. 전력

### Electricity

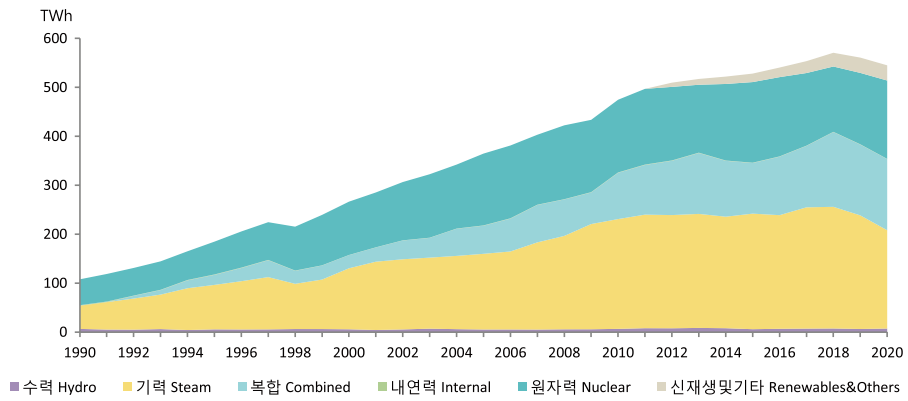
1. 주요 전력 지표  
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3. 설비별 발전 전력량  
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9. 종별 고객호수 및 판매 전력량  
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10. 지역별 고객호수  
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11. 지역별 판매 전력량  
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13. 전력구입실적  
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14. 발전원별 전력구입량  
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15. 발전원별 전력거래금액  
Power Purchasing Amounts by Energy Source
16. 발전원별 전력구입단가  
Power Purchasing Unit Cost by Energy Source
17. 현행 전기요금표  
Table for Current Electricity Tariff





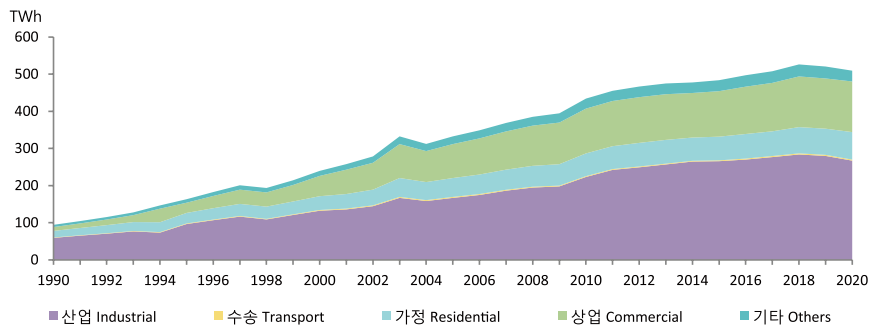
● 발전 설비별 발전량 Power Generation Amount by Generating Facility

<1990~2020>



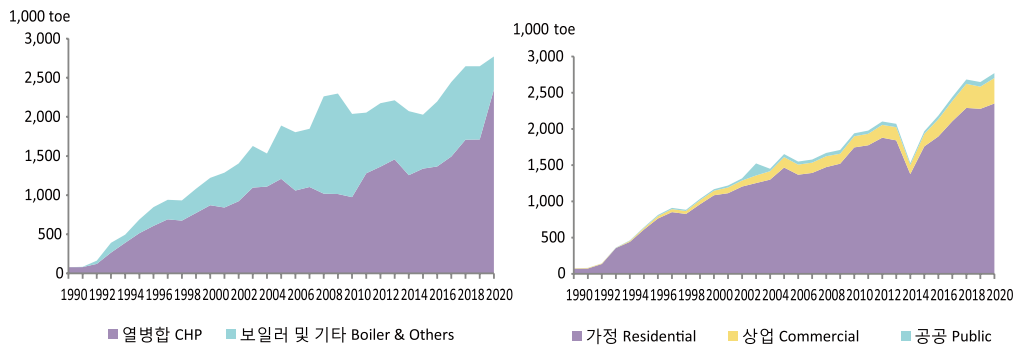
● 부문별 전력 소비 Electricity Consumption by Sector

<1990~2020>



● 지역난방 생산, 소비 District Heating Production, Consumption

<1990~2020>



### 1. 주요 전력 지표

	단 위 Unit	1961	1981	1985	1990	1995	2000	2005	2010	2011
발전설비	kW	426,287	11,029,344	17,639,982	24,055,893	35,355,785	53,684,913	67,075,240	79,983,793	83,263,146
한전, 자회사	"	367,254	9,130,580	15,013,903	19,782,833	30,561,633	44,566,083	55,956,412	65,559,674	67,005,570
타사	"	-	704,800	1,122,800	1,238,290	1,622,240	3,884,634	6,301,785	10,518,514	12,336,297
상용자가	"	59,033	1,193,964	1,503,279	3,034,770	3,171,912	5,234,196	4,817,043	3,905,605	3,921,279
총발전량	MWh	1,936,418	44,088,303	62,667,201	118,460,795	203,546,465	290,442,948	389,479,512	495,028,363	517,569,729
한전, 자회사	"	1,772,921	37,428,005	56,179,998	103,184,998	179,073,203	256,841,584	349,758,383	435,384,166	443,409,223
타사	"	-	2,778,660	1,754,007	4,206,029	4,032,626	4,836,511	14,611,607	38,433,844	52,670,709
상용자가 <sup>1</sup>	"	163,497	3,881,638	4,733,196	11,067,768	20,440,636	28,764,853	25,109,522	21,210,354	21,489,797
( )	"	-	-	-	-	(1,554,996)	(4,721,413)	(269,341)	(842,196)	(813,434)
소내소비전력량	"	89,337	2,102,514	3,422,742	5,394,570	8,298,749	12,328,447	16,451,551	19,371,717	19,689,178
소내소비율	%	5.04	5.23	5.91	5.02	4.53	4.71	4.56	4.20	4.14
양수용 전력량	MWh	-	153,950	676,358	2,272,202	3,668,783	2,117,789	1,980,383	3,662,630	4,256,763
송전단 전력량(양수제외)	"	1,683,584	37,950,201	53,908,278	100,002,741	172,693,293	251,953,275	346,207,397	451,432,992	472,650,336
송배전 손실량	"	494,198	2,252,746	3,176,183	5,619,450	9,422,999	11,871,191	15,614,768	18,034,237	17,430,383
송배전손실율	%	29.35	6.66	5.89	5.62	5.46	4.71	4.51	3.99	3.69
판매 전력량	MWh	1,189,386	35,424,455	50,732,095	94,383,292	163,270,294	239,535,486	332,412,828	434,160,228	455,070,261
수요성장율	%	-	8.2	7.8	14.8	11.4	11.8	6.5	10.1	4.8
최대전력	kW	305,686	6,144,194	9,348,942	17,251,683	29,878,000	41,007,164	54,631,000	71,308,000	73,137,000
평균전력	"	202,388	48,589,802	6,621,847	12,291,040	21,080,003	30,327,813	41,625,494	54,184,955	56,722,987
부하율 <sup>2</sup>	%	66.2	74.7	70.8	71.2	70.6	74.0	76.2	75.9	77.6
이용률	"	55.1	46.7	43.5	58.4	66.3	62.2	67.5	73.3	73.9
판매 단가	원/kWh	3.22	64.31	67.92	52.94	61.28	74.65	74.46	86.12	89.32
수용가수	호수	797,252	5,682,341	6,931,167	9,315,211	12,771,338	14,975,793	17,329,494	19,229,450	19,814,866
인구1인당전력생산량 <sup>3</sup>	kWh/명	69	1,038	1,422	2,516	4,117	5,635	7,550	9,712	9,982
( )	"	-	-	-	-	(4,538)	(6,144)	(8,065)	(10,129)	(10,397)
인구1인당 전력소비량	kWh/명	46	915	1,243	2,202	3,640	5,067	6,883	6,883	6,883

1.( ) 내는 상용자가 발전량 중 한전의 구입 전력량  
 2. 최대전력에 대한 평균전력의 비를 백분율로 나타낸 것  
 3.( ) 내는 상용발전 자체 소비량 포함분임  
 자료한국전력공사

## 1. Major Electricity Indicators

2012	2013	2014	2015	2016	2017	2018	2019	2020	
85,849,093	91,077,485	96,925,225	101,590,229	109,789,291	120,848,466	122,912,875	129,747,830	133,391,583p	Generating Facilities
68,848,108	70,845,294	72,305,204	73,282,111	79,216,544	82,132,490	81,362,425	83,672,341	83,853,696	KEPCO & Subsidiaries
12,957,468	16,123,643	20,910,550	24,366,649	26,649,013	34,775,150	37,729,234	41,665,327	45,337,578	Other Co.
4,043,517	4,108,548	3,709,470	3,941,468	3,923,734	3,940,825	3,821,215	4,410,161	4,200,310p	Non-Utility for Common Use
531,201,866	537,169,276	540,378,799	547,801,803	560,984,590	576,412,127	592,904,629	586,806,004	575,269,209p	Gross Generation
448,516,180	448,756,663	442,914,458	432,758,183	436,314,042	426,484,068	418,327,451	409,069,939	394,522,245	KEPCO & Subsidiaries
58,964,028	66,710,267	78,494,632	94,756,654	103,906,393	126,741,534	151,520,206	152,823,960	155,963,475	Other Co.
23,721,658 (2,094,121)	21,702,345 (1,680,942)	18,969,709 (561,813)	20,286,965 (576,355)	20,764,155 (220,419)	23,186,525 (304,506)	23,056,972 (-798,850)	24,912,104 (-1,146,405)	24,783,489p (-1,676,440)	Non-Utility Generation for Common Use <sup>1</sup>
20,154,366	20,463,269	20,257,068	23,782,283	21,504,884	21,707,139	21,389,786	21,572,766	21,135,360	Auxiliary Use
3.96	3.96	3.88	4.50	3.98	3.92	3.75	3.83	3.83	Aux. Use Factor
4,789,137	5,408,107	6,644,037	4,823,507	4,716,403	5,476,612	5,105,659	4,587,619	4,351,010	Pumping Storage
484,334,191	491,002,570	494,716,613	499,239,421	514,118,988	525,710,752	543,231,596	536,197,809	525,850,762	Net Generation
17,291,504	18,310,889	18,270,412	17,979,210	18,474,842	18,790,097	19,359,355	19,000,475	18,609,971	T & D Losses
3.57	3.73	3.69	3.60	3.59	3.57	3.56	3.54	3.54	Loss Factor(T & D)
466,592,949	474,848,580	477,591,701	483,654,816	497,038,904	507,746,386	526,149,162	520,498,738	509,269,715	Power Sold
2.5	1.8	0.6	1.3	2.8	2.2	3.6	-1.1	-2.2	Growth Rate
75,987,000	76,522,000	80,154,000	78,790,000	85,183,000	85,133,000	92,478,000	90,314,000	89,091,000	Peak Load
58,011,649	59,035,145	59,585,720	60,284,383	61,694,161	63,188,368	65,142,295	64,274,007	62,859,991	Average Load
76.3	77.1	74.3	76.5	72.4	74.2	70.4	71.2	70.6	Load Factor <sup>2</sup>
70.2	68.0	63.9	61.7	58.3	54.0	54.7	51.3	48.7	Utilization Plant Factor
99.10	106.33	111.28	111.57	111.23	109.53	108.75	108.66	109.80	Average Revenues per kWh Sold
20,475,899	21,017,693	21,532,269	22,030,215	22,552,719	23,077,023	23,501,542	23,860,032	24,198,304	Customers
10,191 (10,623)	10,112 (10,504)	10,169 (10,573)	10,433 (10,778)	10,546 (10,947)	10,759 (11,204)	11,058 (-11,489)	10,859 (-11,317)	10,654 (-11,099)	Generation per Capita <sup>3</sup>
9,331	9,285	9,305	9,555	9,699	9,869	10,195	10,039	9,826	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 현황

단위: kW

	합계		수력		원자력		집단		대체		기타 <sup>1</sup>		화력	
	Total	%	Hydro	%	Nuclear	%	District Energy	%	Alternative Energy	%	Others <sup>1</sup>	%	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	892,750	1.3	862,409	1.3	-	-	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	2,623,224	3.2	2,482,838	3.0	-	-	49,537,801	60.6
2013	86,968,937	100.0	6,454,462	7.4	20,715,683	23.8	3,106,068	3.6	3,518,702	4.0	-	-	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

1. 부생가스, 증류탑폐열, 여열회수, 천연가스압 터빈

주: 1. 상용자가 제외

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

자료: 한국전력공사



## 2. Generating Facilities

Unit: kW

석탄혼소 Coal Mix		화력 Thermal								
		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

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

Note: 1. Except Non-utility in Common use

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

Source: Korea Electric Power Corporation

## 3. 설비별 발전 전력량

단위: GWh

	합계		수력		원자력		집단		신재생		기타 <sup>1</sup>	
	Total	%	Hydro	%	Nuclear	%	District energy	%	Renewables	%	Others <sup>1</sup>	%
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

1. 부생가스, 증류탑폐열, 여열회수, 천연가스압 터빈

2. 화력에는 한전구입량 포함.

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

자료: 한국전력공사

### 3. Power Generation by Facility

Unit: GWh

화력 <sup>2</sup> Thermal <sup>2</sup>													
석탄혼소 Coal Mix		석유화력 Oil Thermal		액화천연가스 LNG		복합화력 Combined Cycle		내연력 Internal Combustion					
	%		%		%		%		%				
	%		%		%		%		%				
34,601	86.1	4,260	10.6	30,045	74.7	-	-	258	0.6			38	0.1
37,340	86.6	4,488	10.4	32,473	75.3	-	-	332	0.8	45		0.1	1982
37,163	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	
32,364	50.0	19,927	30.8	12,180	18.8	-	-	53	0.1	122	0.2	1986	
29,333	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	
69,569	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	
126,368	61.5	59,650	29.0	29,067	14.1	8,229	4.0	26,943	13.1	772	0.4	1996	
142,005	63.3	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	-	-	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	

1. Waste heat in distillation tower, waste heat recovery, natural gas pressure turbine, by-product gas.  
 2. The total of thermal power includes the purchased power.  
 Note: Separate generation subsidiary and KPX(Korea Power Exchange). Except non-utility in common use  
 Source: Korea Electric Power Corporation

### 4. 에너지원별 발전량

단위: GWh

	합계		수력 <sup>1</sup>		원자력		집단 <sup>2</sup>		신재생 <sup>1</sup>		기타 <sup>3</sup>	
	Total	%	Hydro <sup>1</sup>	%	Nuclear	%	District Energy <sup>2</sup>	%	Renewable Energy <sup>1</sup>	%	Others <sup>3</sup>	%
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

1. 신재생: 수력 발전량 불포함, 혼소발전량 분리  
 2. 2014년 부터 집단은 에너지원별 발전량 분류  
 3. 부생가스, 증류탑 폐열, 여열회수, 천연가스압터빈  
 자료: www.kepco.co.kr (전력통계속보)

### 4. Power Generation by Energy Source

Unit: GWh

소계 Subtotal		화력 Thermal						
		석탄 Coal		석유 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
344,497	62.4	196,333	35.6	2,255	0.4	145,911	26.4	2020

1. Renewable energy excludes power generation of (small) 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, by-product gas.  
 Source: www.kepco.co.kr (The Monthly Report on Major Electric Power Statistics)

## 5. 발전 연료 소비량

	합계		석 탄 Coal					
	Total		소계 Subtotal			무 연 탄 Anthracite		
	소비량 Consumption	점유율 Ratio	소비량 Consumption		점유율 Ratio	소비량 Consumption		점유율 Ratio
	1,000 toe	(%)	M/T	1,000 toe	(%)	M/T	1,000 toe	(%)
1981	9,579	100.0	1,721,997	703	7.3	1,721,997	703	7.3
1982	10,189	100.0	1,856,603	720	7.1	1,856,603	720	7.1
1983	11,568	100.0	2,622,818	1,114	9.6	2,077,163	776	9.6
1984	12,735	100.0	6,196,200	3,162	24.8	2,480,996	876	6.9
1985	13,828	100.0	7,921,198	4,151	30.0	2,274,029	774	5.6
1986	15,627	100.0	7,941,931	4,271	27.3	1,896,261	649	4.1
1987	18,096	100.0	7,205,920	3,739	20.7	2,173,164	727	4.0
1988	20,701	100.0	8,969,282	4,654	22.5	2,597,736	885	4.3
1989	22,897	100.0	8,280,161	4,372	19.1	2,367,043	819	3.6
1990	26,055	100.0	8,529,283	4,603	17.7	2,013,268	704	2.7
1991	28,582	100.0	8,538,869	4,638	16.2	1,977,676	690	2.4
1992	31,362	100.0	9,217,102	5,106	16.3	2,008,494	790	2.5
1993	34,253	100.0	12,543,851	7,098	20.7	2,283,630	944	2.7
1994	38,525	100.0	16,147,950	9,468	24.6	2,179,638	952	2.5
1995	43,272	100.0	18,631,970	11,021	25.5	2,429,275	1,102	2.6
1996	47,971	100.0	21,461,439	12,745	26.6	2,513,738	1,155	2.4
1997	52,221	100.0	25,011,741	14,979	28.7	2,304,699	1,066	2.0
1998	49,486	100.0	28,206,782	16,749	33.8	2,527,301	1,174	2.3
1999	54,863	100.0	30,812,524	18,089	33.0	2,596,945	1,202	2.2
2000	60,993	100.0	36,216,533	21,504	35.3	2,848,015	1,293	2.1
2001	65,147	100.0	40,794,652	24,310	37.3	2,875,286	1,312	2.0
2002	69,606	100.0	43,061,763	25,960	37.3	2,750,542	1,261	1.8
2003	73,411	100.0	44,457,391	26,560	36.2	2,879,676	1,331	1.8
2004	76,974	100.0	47,926,692	27,971	36.3	2,411,721	1,131	1.5
2005	82,513	100.0	50,296,834	29,394	35.6	2,359,492	1,092	1.3
2006	85,104	100.0	52,603,606	30,561	35.9	2,345,136	1,069	1.2
2007	83,860	100.0	58,342,192	33,935	40.5	2,392,411	1,087	1.3
2008	87,480	100.0	65,772,104	37,991	43.4	2,534,021	1,205	1.4
2009	89,528	100.0	73,782,646	42,155	47.1	2,690,328	1,235	1.4
2010	96,512	100.0	78,807,044	43,513	45.1	2,404,050	1,071	1.1
2011	99,268	100.0	81,512,968	44,168	44.5	1,658,801	783	0.8
2012	99,913	100.0	80,601,345	42,923	43.0	1,796,721	853	0.9
2013	101,572	100.0	80,488,469	44,666	44.7	1,728,664	940	0.9
2014	96,909	100.0	79,731,844	44,769	46.2	2,043,992	1,134	1.2
2015	94,858	100.0	81,558,142	45,754	48.2	2,125,486	1,213	1.3
2016	94,517	100.0	80,573,360	44,915	47.5	2,528,364	1,407	1.5
2017	94,392	100.0	90,296,155	49,465	52.4	1,078,762	581	0.6
2018	92,789	100.0	90,540,880	48,640	52.4	991,627	522	0.6
2019	91,057	100.0	84,486,191	46,471	51.0	1,164,840	603	0.7
2020	87,616	100.0	70,065,113	38,539	44.0	971,161	503	0.6

주: 원자력, 수력은 발전량 기준임  
 자료: www.kepco.co.kr (한국전력통계)

### 5. Fuel Consumption for Generation

석탄 Coal			석유 Petroleum						
유연탄 Bituminous Coal			소계 Subtotal			방카C유 Bunker-C			
소비량 Consumption		점유율 Ratio	소비량 Consumption		점유율 Ratio	소비량 Consumption		점유율 Ratio	
M/T	1,000 toe	(%)	kℓ	1,000 toe	(%)	kℓ	1,000 toe	(%)	
-	-	-	7,596,508	7,475	78.0	7,092,164	6,994	73.0	1981
-	-	-	8,140,409	8,042	78.8	7,425,802	7,327	71.9	1982
545,655	338	2.9	7,632,873	7,531	65.1	6,926,560	6,841	59.2	1983
3,715,204	2,286	18.0	6,114,016	6,025	47.3	5,460,617	5,391	42.3	1984
5,647,169	3,376	24.0	4,639,173	4,576	33.1	4,349,166	4,296	31.1	1985
6,045,670	3,621	23.2	3,267,275	3,216	20.6	2,869,139	2,828	18.1	1986
5,032,756	3,012	16.6	1,247,497	1,220	6.7	7,929,195	913	5.0	1987
6,371,546	3,769	18.2	2,736,533	2,687	13.0	2,124,308	2,091	10.1	1988
5,913,118	3,553	15.5	3,458,676	3,398	14.8	2,846,370	2,804	12.2	1989
6,516,015	3,899	15.0	4,482,279	4,398	16.9	3,643,426	3,592	13.8	1990
6,561,193	3,948	13.8	6,386,732	6,280	22.0	4,895,177	4,831	16.9	1991
7,208,608	4,316	13.8	8,166,462	8,004	25.5	5,517,119	5,442	17.4	1992
10,260,221	6,154	18.0	7,961,710	7,828	22.9	5,611,726	5,534	16.2	1993
13,968,312	8,516	22.1	9,184,676	9,016	23.4	6,509,197	6,415	16.7	1994
16,202,695	9,919	22.9	9,686,754	9,465	21.9	6,467,208	6,369	14.7	1995
18,947,701	11,590	24.2	9,807,908	9,416	19.6	6,095,098	5,913	12.3	1996
22,707,042	13,913	26.7	9,880,476	9,604	18.4	5,513,752	5,422	10.3	1997
25,679,481	15,575	31.5	3,404,219	3,320	6.7	2,276,328	2,235	4.5	1998
28,215,579	16,887	30.8	3,348,422	3,268	6.0	2,730,231	2,685	4.9	1999
33,368,518	20,211	33.1	5,086,067	4,993	8.2	4,297,082	4,231	6.9	2000
37,919,366	22,998	35.3	5,604,382	5,539	8.5	4,926,551	4,877	7.5	2001
40,311,221	24,699	35.5	4,804,957	4,751	6.8	4,455,276	4,429	6.4	2002
41,577,715	25,229	34.4	5,054,789	4,912	6.7	4,267,870	4,189	5.7	2003
45,514,971	26,842	34.8	4,339,836	4,162	5.4	3,681,635	3,538	4.6	2004
47,937,342	28,303	34.3	4,167,583	4,005	4.8	3,578,026	3,445	4.2	2005
50,258,470	29,492	34.7	3,789,478	3,735	4.4	3,547,138	3,511	4.1	2006
55,949,781	32,848	39.2	4,018,927	3,995	4.8	3,899,079	3,888	4.6	2007
63,238,083	36,783	42.1	2,141,528	2,122	2.4	2,034,572	2,027	2.3	2008
71,092,318	40,959	45.7	3,055,850	3,024	3.4	2,943,672	2,926	3.3	2009
76,402,994	42,438	44.0	2,824,346	2,804	2.9	2,693,701	2,687	2.8	2010
79,854,167	43,382	43.7	2,174,197	2,158	2.2	2,050,365	2,050	2.1	2011
78,804,624	39,855	39.9	3,412,819	3,321	3.3	3,272,119	3,196	3.2	2012
78,759,805	43,726	43.8	3,550,813	3,521	3.5	3,401,690	3,389	3.4	2013
77,687,852	43,635	45.0	1,692,083	1,667	1.7	1,581,186	1,570	1.6	2014
79,432,656	44,541	47.0	1,962,050	1,955	2.1	1,850,640	1,856	2.0	2015
78,044,996	43,508	46.0	2,938,724	2,866	3.0	2,783,521	2,719	2.9	2016
89,217,393	48,883	51.8	1,101,446	1,084	1.1	927,885	928	1.0	2017
89,549,253	48,118	51.9	1,228,356	1,212	1.3	1,013,229	1,020	1.1	2018
83,321,351	45,868	50.4	684,493	648	0.7	361,925	360	0.4	2019
69,093,952	38,036	43.4	283,175	282	0.3	283,175	282	0.3	2020

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

## 5. 발전 연료 소비량(계속)

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

1. 코크스 소비실적

2. C.O.M 소비실적



### 5. Fuel Consumption for Generation(Continued)

점유율 Ratio	액화천연가스			원자력		수력		
	L N G			Nuclear		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	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	15.0	34,119	38.9	1,523	1.7	2020

1. Cokes Consumption  
2. C.O.M(Coal and Oil Mixture) Consumption

## 6. 화력 발전소 열효율

단위: %

	합계 Total		한전, 자회사 Total of KEPCO & Subsidiaries		기 력 Thermal				
	발전단 Gross	송전단 Net	발전단 Gross	송전단 Net	소계 Subtotal		무연탄 Anthracite coal		발전단 Gross
					발전단 Gross	송전단 Net	발전단 Gross	송전단 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
1996	38.21	36.60	38.37	36.77	37.79	35.97	32.77	30.20	38.94
1997	38.38	36.82	38.73	37.11	38.05	36.23	33.18	30.50	38.99
1998	39.45	37.81	39.48	37.81	38.41	36.57	33.47	30.58	39.17
1999	39.51	37.73	39.52	37.73	38.40	36.39	33.99	30.33	39.06
2000	39.45	37.64	39.45	37.63	38.59	36.60	34.48	30.91	39.25
2001	39.57	37.80	39.52	37.72	38.67	36.73	33.93	30.37	39.30
2002	39.96	38.26	39.87	38.12	38.78	36.86	34.66	31.11	39.30
2003	39.94	38.23	39.86	38.12	38.67	36.76	34.51	30.93	39.16
2004	40.66	38.96	40.62	38.88	38.82	36.83	34.74	30.80	39.25
2005	40.70	38.98	40.62	38.86	38.87	36.88	34.94	30.89	39.26
2006	40.97	39.30	40.83	39.11	38.90	36.96	34.59	31.41	39.31
2007	40.90	39.21	40.79	39.06	38.93	36.99	34.86	31.64	39.36
2008	40.84	39.14	40.67	38.93	39.10	37.14	35.26	32.19	39.45
2009	40.55	38.79	40.46	38.67	39.24	37.29	37.24	34.07	39.46
2010	40.83	39.14	40.67	38.94	38.91	36.95	34.71	31.75	39.33
2011	40.44	38.75	40.51	38.76	38.62	36.63	35.58	32.54	38.96
2012	40.48	38.86	40.57	38.82	38.53	36.55	38.55	35.26	38.75
2013	39.55	37.94	40.06	38.29	38.29	36.32	34.93	31.97	38.64
2014	41.25	39.50	40.71	38.87	38.79	36.76	36.26	33.05	38.94
2015	40.92	38.62	39.97	38.07	38.39	36.37	34.99	31.91	38.55
2016	39.79	37.92	39.33	37.40	37.99	35.94	35.24	32.11	38.12
2017	39.82	37.90	39.50	37.51	38.66	36.56	35.32	32.06	38.79
2018	40.82	38.88	40.21	38.25	38.94	36.84	35.75	32.36	39.03
2019	40.70	38.71	39.88	37.88	38.78	36.65	36.40	32.77	38.84
2020	41.14	39.20	40.16	38.11	38.84	36.64	36.05	32.34	38.91

주: 1987년부터 지역난방 열공급실적 포함

자료: www.kepco.co.kr (한국전력통계)

## 6. Thermal Plant Efficiency

Unit: %

유연탄 Bituminous Coal	기 력 Thermal									타사 Other Co.		
	중유 Heavy Oil		액화천연가스 LNG		복합화력 Combined Cycle		내연력 Internal-Combustion					
	송전단 Net	발전단 Gross	송전단 Net	발전단 Gross	송전단 Net	발전단 Gross	송전단 Net	발전단 Gross	송전단 Net	발전단 Gross	송전단 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	
36.91	37.66	35.75	36.94	35.35	41.46	40.60	29.97	29.38	35.29	33.77	1995	
37.21	37.45	35.62	36.79	35.16	39.89	39.13	32.30	31.59	33.26	32.06	1996	
37.25	37.73	35.90	36.12	34.43	41.39	40.50	33.67	32.87	31.73	31.14	1997	
37.44	37.22	35.27	36.30	34.73	43.97	43.04	36.30	35.27	38.48	37.59	1998	
37.21	37.35	35.32	36.07	34.48	44.09	43.19	34.60	33.57	38.69	37.53	1999	
37.43	37.45	35.30	35.68	34.01	44.15	43.22	37.20	35.79	39.32	38.07	2000	
37.51	37.71	35.64	35.42	33.68	45.07	44.15	39.87	38.33	41.01	40.14	2001	
37.52	37.59	35.42	36.10	34.50	45.56	44.68	40.09	38.64	42.10	41.33	2002	
37.40	37.58	35.36	36.37	34.67	45.71	44.80	39.74	38.19	41.75	40.96	2003	
37.46	37.40	34.80	36.09	34.28	47.19	46.33	39.11	37.57	41.75	40.97	2004	
37.41	37.55	35.22	36.45	34.56	47.13	46.26	40.03	38.19	42.44	41.55	2005	
37.44	37.44	35.39	35.47	33.76	47.52	46.63	40.02	37.86	44.00	43.33	2006	
37.49	37.25	35.16	35.55	33.91	46.45	45.47	40.67	38.31	43.01	42.11	2007	
37.54	36.68	34.50	35.40	33.97	46.10	45.24	40.39	38.09	43.75	42.92	2008	
37.56	37.60	35.77	35.27	33.99	46.74	45.63	41.08	38.78	42.49	41.67	2009	
37.41	36.40	34.34	35.10	33.71	46.45	45.55	40.58	30.35	43.64	42.73	2010	
37.04	35.83	33.59	34.92	33.55	47.30	46.40	41.14	39.01	39.43	38.68	2011	
36.83	36.27	34.09	36.24	34.80	47.73	46.81	41.11	39.01	42.94	42.10	2012	
36.72	36.26	34.06	36.06	34.83	45.42	44.30	41.20	38.95	36.04	35.50	2013	
36.97	38.55	36.31	34.21	32.70	48.24	47.13	43.40	41.19	47.66	46.91	2014	
36.54	38.94	36.86	35.27	33.70	50.21	49.07	40.35	41.18	48.31	47.09	2015	
36.11	38.09	36.03	30.46	28.89	47.53	46.38	39.41	36.70	48.15	47.18	2016	
36.72	36.55	34.20	35.32	33.91	46.16	45.13	38.80	33.73	44.30	43.40	2017	
36.95	37.44	35.04	-	-	47.65	46.60	37.96	35.82	48.99	47.33	2018	
36.73	35.77	33.66	-	-	46.94	45.84	40.56	38.41	51.02	49.07	2019	
36.73	36.08	33.64	35.89	34.56	47.01	45.77	38.28	35.80	49.41	48.34	2020	

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

## 7. 송배전 손실

	송전단전력량(A)	송 변 전 손 실 Transmission & Substation Loss		배 전 Distribution
	Net Generation	손실량(B) Loss	손실율(B/A) Loss rate	손실량(C) Loss
	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

주: 송전단은 양수전력량 제외분임  
 자료: www.kepco.co.kr (한국전력통계)

## 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

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

## 8. 산업분류별 전력 소비량

단위: GWh

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

자료: www.kepco.co.kr (한국전력통계)

## 8. Electricity Consumption by Industry

		2018		2019		2020	
			%		%		%
<b>합계</b>	<b>Total</b>	526,149.2	100.0	520,498.7	100.0	509,270	100.0
가정용	Residential	70,687.2	13.4	70,455.4	13.5	74,074	14.5
공공용	Public	24,568.6	4.7	24,458.1	4.7	23,623	4.6
<b>서비스업 및 기타</b>	<b>Service</b>	149,983	28.5	148,311	28.5	144,444	28.4
<b>산업</b>	<b>Industry</b>	280,910	53.4	277,275	53.3	267,129	52.5
농림어업	Agri.-Fishery	17,126	3.3	17,305	3.3	17,037	3.3
광업	Mining	1,478	0.3	1,493	0.3	1,552	0.3
제조업	Total Manuf.	262,306	49.9	258,477	49.7	248,540	48.8
식료품	Food	10,567	2.0	10,933	2.1	11,534	2.3
음료	Beverages	1,128	0.2	1,135	0.2	1,167	0.2
담배	Tobacco	181	0.0	195	0.0	201	0.0
섬유제품	Textiles, except apparel	9,465	1.8	8,665	1.7	7,654	1.5
의복, 액세서리, 모피제품	Wearing apparel, clothing accessories and fur articles	700	0.1	655	0.1	583	0.1
가죽, 가방, 신발	Leather, luggage and footwear	540	0.1	499	0.1	459	0.1
목재, 나무제품	Wood and of products of wood	1,883	0.4	1,742	0.3	1,703	0.3
펄프, 종이, 종이제품	Pulp, paper	8,216	1.6	8,040	1.5	7,853	1.5
인쇄, 기록매체	Printing and reproduction of recorded media	1,244	0.2	1,221	0.2	1,188	0.2
코크스, 연탄, 석유정제품	Coke, briquettes and refined petroleum products	13,062	2.5	13,360	2.6	12,550	2.5
화학물질, 화학제품	Chemicals and chemical products	40,265	7.7	40,187	7.7	38,342	7.5
의료용 물질, 의약품	Pharmaceuticals, medicinal chemical	2,222	0.4	2,347	0.5	2,499	0.5
고무제품, 플라스틱제품	Rubber and plastics products	9,042	1.7	8,884	1.7	8,679	1.7
비금속 광물제품	Other non-metallic mineral products	12,166	2.3	11,746	2.3	11,154	2.2
1차 금속	Basic metal	44,744	8.5	41,871	8.0	36,343	7.1
금속가공제품	Fabricated metal	9,303	1.8	8,952	1.7	8,409	1.7
전자, 영상, 음향, 컴퓨터, 통신장비	Electronic components, computer	51,638	9.8	51,983	10.0	53,311	10.5
의료, 정밀, 광학, 시계	Medical, precision and optical	4,321	0.8	4,095	0.8	3,843	0.8
전기장비	Electrical equipment	6,434	1.2	6,727	1.3	6,902	1.4
기타기계, 장비	Other machinery	10,523	2.0	10,327	2.0	10,169	2.0
자동차, 트레일러	Motor vehicles, trailers	17,582	3.3	17,452	3.4	16,489	3.2
기타 운송장비	Other transport equipment	4,081	0.8	4,281	0.8	4,170	0.8
가구	Furniture	680	0.1	655	0.1	673	0.1
기타 제품	Other manufacturing	2,240	0.4	2,450	0.5	2,589	0.5
산업기계, 장비수리	Maintenance and repair services	79	0.0	76	0.0	76	0.0

## 9. 종별 고객호수 및 판매 전력량

	고객호수 Number of Customers				계약용량 Contracted Capacity
	합계 Total	전 등 Lighting		동 력 Power	
		주택용 Residential	가로등 Street lighting		
	호(Customer)				
1981	5,682,341	5,375,418	26,989	279,934	11,455,619
1982	5,985,146	5,662,899	28,314	293,933	11,934,397
1983	6,341,630	5,965,558	30,650	345,422	12,728,928
1984	6,621,304	6,248,193	34,709	338,402	13,843,572
1985	6,931,167	6,513,423	39,830	377,914	14,838,997
1986	7,298,666	6,819,129	44,334	435,203	16,350,311
1987	7,659,359	7,107,465	51,874	500,020	18,510,279
1988	8,109,627	7,447,643	65,961	596,023	21,128,962
1989	8,702,520	7,925,818	82,665	694,037	23,603,072
1990	9,315,211	8,402,039	113,069	800,103	27,445,800
1991	10,052,770	8,968,169	136,526	948,075	26,546,208
1992	10,747,587	9,416,246	167,777	1,163,564	30,577,482
1993	11,499,368	9,910,793	208,618	1,379,957	35,151,208
1994	12,160,982	10,309,485	278,021	1,573,476	39,933,277
1995	12,771,338	10,476,101	343,619	1,951,618	44,896,631
1996	13,329,502	10,812,846	370,239	2,146,417	50,069,757
1997	13,913,351	11,128,407	399,327	2,385,617	54,137,261
1998	14,102,163	11,160,467	427,212	2,514,484	53,909,512
1999	14,379,369	11,269,741	458,594	2,651,034	57,653,769
2000	14,975,793	11,510,731	482,790	2,982,272	62,117,938
2001	15,618,745	11,904,058	523,041	3,191,646	67,522,271
2002	16,490,026	12,427,392	551,238	3,511,396	72,219,358
2003	16,775,526	12,704,193	576,513	3,494,820	-
2004	17,061,591	12,156,544	612,218	3,596,338	-
2005	17,329,494	12,224,192	660,624	3,687,890	-
2006	17,624,836	12,280,190	712,278	3,800,247	-
2007	18,038,810	12,392,777	821,139	3,949,447	-
2008	18,419,048	12,553,340	883,533	4,062,127	-
2009	18,727,411	12,682,652	985,102	4,123,920	-
2010	19,229,450	12,904,238	1,117,657	4,275,608	-
2011	19,814,866	13,181,372	1,271,913	4,439,499	-
2012	20,475,899	13,514,464	1,398,414	4,652,872	-
2013	21,017,693	13,822,791	1,511,494	5,683,408	-
2014	21,532,269	14,117,408	1,604,510	5,810,351	-
2015	22,030,215	14,419,050	1,672,745	5,938,420	-
2016	22,552,719	14,728,391	1,751,669	6,072,659	-
2017	23,077,023	15,085,547	1,830,973	6,160,503	-
2018	23,501,542	15,317,045	1,918,848	6,265,649	-
2019	23,860,032	15,487,494	2,010,103	6,362,435	-
2020	24,198,304	15,609,631	2,130,215	6,458,458	-

주: 동력은 일반용, 교육용, 산업용, 농사용을 포함  
 자료: www.kepco.co.kr (전력통계속보)



### 9. Electricity Sold and Customers by Tariff

판매전력량 Power Sold (MWh)					1인당 전력소비량 Consumption per Capita	
합계 Total	증가율 Growth Rate	전 등 Lighting		동 력 Power		
		주택용 Residential	가로등 Street lighting		(MWh)	(kWh)
(MWh)	%	(MWh)			(kWh)	
35,424,455	8.2	5,577,038	67,547	29,779,870	915	1981
37,879,626	6.9	6,230,538	85,568	31,563,520	963	1982
42,620,384	12.5	7,355,577	101,509	35,163,298	1,068	1983
47,051,137	10.4	8,329,435	117,516	38,604,186	1,164	1984
50,732,095	7.8	9,180,700	160,097	41,391,298	1,243	1985
56,309,525	11.0	9,808,900	198,462	46,302,162	1,367	1986
64,169,084	14.0	10,886,765	246,937	53,035,162	1,543	1987
74,317,726	15.8	12,587,009	327,881	61,402,836	1,771	1988
82,191,862	10.6	14,475,818	402,309	67,313,737	1,939	1989
94,383,292	14.8	16,960,708	469,466	76,953,118	2,202	1990
104,374,022	10.6	18,614,385	508,743	85,250,895	2,412	1991
115,243,978	10.4	20,459,168	604,135	94,180,675	2,639	1992
127,733,923	10.8	21,854,842	820,746	105,058,335	2,899	1993
146,540,499	14.7	28,713,150	988,377	116,838,971	3,297	1994
163,270,294	11.4	30,303,082	1,108,064	131,859,147	3,640	1995
182,470,373	11.8	32,838,347	1,238,823	148,393,203	4,006	1996
200,783,627	10.0	35,101,434	1,381,925	164,300,269	4,366	1997
193,470,338	-3.6	35,352,823	1,419,829	156,697,685	4,167	1998
214,214,891	10.7	38,432,579	1,563,323	174,218,990	4,572	1999
239,535,486	11.8	44,968,217	1,759,253	192,808,015	5,067	2000
257,731,354	7.6	52,289,302	1,877,624	203,564,427	5,444	2001
278,451,371	8.0	58,469,488	2,075,944	217,905,939	5,845	2002
293,599,230	5.4	62,432,397	2,197,210	228,969,622	6,126	2003
312,095,586	6.3	49,513,298	2,367,077	244,238,826	6,491	2004
332,412,828	6.5	52,044,462	2,570,006	260,287,453	6,883	2005
348,719,371	4.9	53,912,272	2,687,040	273,302,435	7,191	2006
368,605,433	5.7	55,680,846	2,793,943	290,663,273	7,607	2007
385,070,137	4.5	57,877,514	2,847,241	304,954,395	7,922	2008
394,474,637	2.4	59,427,255	2,954,231	312,971,989	8,092	2009
434,160,228	10.1	63,199,602	3,081,490	348,189,079	8,883	2010
455,070,261	4.8	63,523,655	3,145,498	369,794,267	9,142	2011
466,592,949	2.5	65,483,733	3,158,091	380,331,187	9,331	2012
474,848,580	1.8	65,814,572	3,156,226	392,538,249	9,285	2013
477,591,701	0.6	64,457,263	3,221,008	409,913,430	9,305	2014
483,654,816	1.3	65,618,610	3,341,240	414,694,966	9,555	2015
497,038,904	2.8	68,056,786	3,462,314	425,519,804	9,699	2016
507,746,386	2.2	68,543,760	3,556,775	435,645,851	9,869	2017
526,149,162	3.6	72,894,709	3,582,649	449,671,804	10,195	2018
520,498,738	-1.1	72,638,868	3,571,475	444,288,395	10,039	2019
509,269,715	-2.2	76,303,405	3,506,999	429,459,311	9,826	2020

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

## 10. 지역별 고객호수

단위: 호

	합계 Total	서울 Seoul	부산 Busan	대구 <sup>1</sup> Daegu <sup>1</sup>	인천 <sup>1</sup> Incheon <sup>1</sup>	광주 <sup>1</sup> Gwangju <sup>1</sup>	대전 <sup>1</sup> Daejeon <sup>1</sup>	울산 <sup>1</sup> Ulsan <sup>1</sup>	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

1. 1981~1982 인천은 경기, 대구는 경북에 포함

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

1981~1999 울산은 경남에 포함

자료: www.kepco.co.kr (한국전력통계)

### 10. Customers by Region

Unit: Customers

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

1. Until 1982 from 1981, Incheon was a part of Gyeonggi area. and Daegu was a part of Gyeongbuk area.  
 Until 1986, Gwangju was a part of Jeonnam area. Until 1988, Daejeon was a part of Chungnam area.  
 Until 1999, Ulsan was a part of Gyeongnam area.

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

## 11. 지역별 판매 전력량

단위: MWh

	합계 Total	서울 Seoul	부산 Busan	대구 <sup>1</sup> Daegu <sup>1</sup>	인천 <sup>1</sup> Incheon <sup>1</sup>	광주 <sup>1</sup> Gwangju <sup>1</sup>	대전 <sup>1</sup> Daejeon <sup>1</sup>	울산 <sup>1</sup> Ulsan <sup>1</sup>	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

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

자료: www.kepco.co.kr (한국전력통계)

### 11. Power Sold by Region

Unit: MWh

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

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

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

## 12. 종별 판매단가 및 판매수입

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

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

2. 1981~1993년 이전은 동력 전체 고객

자료: www.kepco.co.kr (한국전력통계)

## 12. Average Prices per kWh and Total Revenues by Tariff

판매수입 Revenues from Sales				
합계 Total	전 등 Lighting		동 력 Power	
	주택용 Residential	가로등 Street lighting		
1,000 KRW				
2,278,213,424	416,119,361	5,283,500	1,856,810,563	1981
2,646,596,884	468,450,526	7,776,032	2,170,370,326	1982
2,885,847,889	538,889,430	8,630,261	2,338,328,198	1983
3,172,400,557	610,828,881	9,916,972	2,551,654,704	1984
3,445,722,446	674,003,733	13,320,667	2,758,398,046	1985
3,688,880,988	699,638,496	16,278,065	2,972,964,425	1986
4,073,692,124	781,074,998	17,975,469	3,274,641,657	1987
4,421,004,587	905,541,478	18,231,798	3,497,231,311	1988
4,556,005,382	1,000,778,289	20,051,209	3,535,175,884	1989
4,996,726,916	1,164,463,510	22,654,463	3,809,608,943	1990
5,659,869,358	1,359,461,082	23,827,765	4,276,580,511	1991
6,695,094,977	1,661,629,880	31,068,507	5,002,396,590	1992
7,523,500,082	1,798,384,094	42,354,050	5,682,761,938	1993
8,824,120,639	2,467,970,639	51,328,723	6,304,821,278	1994
10,004,979,019	2,620,217,437	59,380,811	7,325,380,772	1995
11,493,847,557	2,921,082,494	67,635,634	8,505,129,431	1996
13,103,807,061	3,231,024,101	77,640,901	9,795,142,060	1997
13,944,793,061	3,415,238,117	89,472,284	10,440,082,660	1998
15,334,844,616	3,705,145,616	98,206,287	11,531,492,713	1999
17,882,184,141	4,259,408,737	115,971,626	13,506,803,778	2000
19,861,385,283	4,787,877,903	127,940,937	14,945,566,443	2001
20,943,327,071	5,184,230,824	137,459,416	15,621,636,831	2002
21,925,576,497	5,494,326,608	144,463,055	16,286,786,835	2003
23,276,653,272	5,466,721,140	154,649,377	17,655,282,754	2004
24,752,637,345	5,767,493,514	168,727,452	18,816,416,379	2005
26,652,703,238	6,163,640,653	184,370,077	20,304,692,507	2006
28,695,989,957	6,365,005,846	199,695,515	22,131,288,596	2007
30,328,758,201	6,654,217,289	206,418,500	23,468,122,411	2008
32,975,019,408	6,801,453,931	226,430,707	25,947,134,770	2009
37,390,071,008	7,574,768,788	250,009,506	29,565,292,715	2010
40,647,051,421	7,621,964,092	274,238,526	32,750,848,803	2011
46,237,819,965	8,099,666,224	312,298,567	37,825,855,174	2012
50,488,373,086	8,359,482,143	338,753,964	41,790,136,978	2013
53,144,071,420	8,066,376,737	365,234,262	44,712,460,421	2014
53,963,686,067	8,116,164,990	378,803,714	45,468,717,363	2015
55,287,523,060	8,270,443,259	392,456,597	46,624,623,204	2016
55,614,010,810	7,437,258,827	403,630,974	47,773,121,009	2017
57,217,586,406	7,790,409,259	407,555,748	49,019,621,399	2018
56,556,500,292	7,623,684,703	406,828,844	48,525,986,745	2019
55,918,578,210	8,232,506,704	401,011,598	47,285,059,907	2020

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

2. Power total customers from 1981 to 1993

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

### 13. 전력구입실적 Power Purchasing Results

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

자료: www.kepco.co.kr (한국전력통계)

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

#### 13-1. 2020 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	수력 Hydro	양수 Pumping	기타 Other
구입량 Volume (GWh)	515,107	152,319	185,178	1,876	2,184	140,784	19,179	3,156	3,257	7,174
구입액 Payment (bil. Won)	43,767	9,092	15,209	153	422	13,913	1,539	258	368	607
단가 Unit cost (Won/kWh)	84.97	59.69	82.13	81.47	193.12	98.83	80.24	81.72	113.07	84.55

자료: www.kepco.co.kr (전력통계속보)

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

#### 13-2. 2020 전력구입실적(PPA 사업자 구입) Purchase Results from Power Purchase Agreement

	합계 Total	복합화력 Combined Cycle					지역전기 Community Energy Service	태양광 Solar energy	기타 신재생 Renewables
		POSCO 에너지	GS EPS	GS Power	CGN	소계 Subtotal			
구입량 Volume (GWh)	14,732	62	1,095	-	1,865	3,022	107	11,522	82
구입액 Payment (bil. Won)	1,291	18	140	-	221	379	8	898	6
단가 Unit cost (Won/kWh)	87.62	291.93	127.49	-	118.70	125.46	75.91	77.94	68.99

주: 기타 신재생에는 소수력, 풍력, 바이오, 폐기물, 연료전지 포함.

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

자료: www.kepco.co.kr (한국전력통계)



### 14. 발전원별 전력구입량 Power Trading Results by Energy Source

	합계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	석유류 Oil	액화천연가스/복합 LNG/Combined	수력 Hydro	양수 Pumping	신재생/기타 Renewable/ Others
GWh									
2008	281,873	114,685	108,487	6,093	17,240	-	1,770	2,068	-
2009	299,510	124,412	110,408	6,346	19,119	-	2,438	1,978	-
2010	318,062	125,142	117,644	5,247	17,770	-	2,382	1,527	-
2011	338,864	140,367	124,002	5,229	16,606	-	2,129	1,503	-
2012	354,866	142,115	129,296	5,184	15,307	57,249	3,106	1,741	869
2013	392,431	144,255	160,404	6,326	8,941	65,518	3,007	2,480	1,499
2014	405,690	141,123	178,840	7,298	12,819	57,894	2,760	2,814	2,143
2015	440,863	141,894	183,359	7,649	11,854	85,155	3,287	2,774	4,890
2016	462,357	147,763	185,778	7,777	9,474	96,114	4,123	3,214	8,114
2017	471,800	143,548	184,604	8,020	14,417	105,285	3,348	3,634	8,944
2018	479,287	132,396	186,886	6,462	14,684	119,947	3,558	4,086	11,267
2019	490,018	149,056	189,330	7,746	7,560	114,864	2,070	5,037	14,355
2020	495,114	157,106	194,176	6,778	9,391	106,447	1,510	3,639	16,067
2016	508,879	154,175	199,505	7,071	13,262	111,710	2,140	3,617	17,399
2017	520,230	141,098	224,834	4,014	5,735	117,540	2,255	4,171	20,583
2018	536,287	126,883	226,585	2,420	6,834	144,039	2,763	3,892	22,873
2019	529,075	138,607	215,012	2,331	4,011	138,655	2,193	3,444	24,822
2020	515,203	152,328	185,179	1,876	2,184	140,866	3,156	3,257	26,358

자료: www.kepco.co.kr (전력통계속보)

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

### 15. 발전원별 전력거래금액 Power Purchasing Amounts by Energy Source

	합계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	석유류 Oil	액화천연가스/복합 LNG/Combined	수력 Hydro	양수 Pumping	신재생/기타 Renewable/ Others
GWh									
2008	13,392	4,573	4,616	299	1,223	-	97	187	-
2009	14,669	4,983	4,671	325	1,447	-	140	203	-
2010	15,747	4,984	4,940	276	1,430	-	148	179	-
2011	17,374	5,532	5,416	284	1,520	4,255	152	176	40
2012	19,018	5,456	4,985	286	1,764	5,934	261	261	71
2013	26,880	5,642	8,219	744	1,717	9,433	404	527	194
2014	26,965	5,030	10,787	797	1,867	7,518	302	441	224
2015	32,312	5,633	11,163	842	2,189	10,912	445	613	515
2016	36,844	5,793	12,488	767	2,144	13,695	562	567	829
2017	42,613	5,686	12,246	833	3,650	17,714	606	810	1,068
2018	42,069	5,179	10,972	595	3,253	19,297	608	835	1,331
2019	43,917	8,192	12,419	706	1,671	18,497	333	866	1,685
2020	40,951	9,836	13,270	731	1,408	13,445	179	483	1,600
2016	40,514	10,489	14,732	626	1,462	11,102	186	385	1,531
2017	43,343	8,573	17,755	385	949	13,163	219	450	1,849
2018	48,631	7,889	18,793	258	1,185	17,485	302	490	2,229
2019	47,685	8,094	18,808	240	918	16,518	236	419	2,453
2020	41,567	9,093	15,209	153	422	13,918	258	368	2,146

자료: www.kepco.co.kr (전력통계속보)

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

### 16. 발전원별 전력구입단가 Power Purchasing Unit Cost by Energy Source

	합계 Total	원자력 Nuclear	유연탄 Bituminous	무연탄 Anthracite	석유류 Oil	액화천연가스/복합 LNG/Combined	수력 Hydro	양수 Pumping	신재생/기타 Renewable/ Others
GWh									
2008	47.51	39.87	42.55	49.14	70.96	-	54.57	90.39	-
2009	48.99	40.05	42.31	51.20	75.60	-	57.48	102.74	-
2010	49.51	39.83	41.99	52.66	80.48	-	62.06	116.97	-
2011	51.27	39.41	43.68	54.23	91.51	-	71.30	117.09	-
2012	53.59	38.39	38.56	55.11	115.21	103.65	84.03	150.15	81.70
2013	68.50	39.11	51.24	117.63	192.06	143.98	134.39	212.35	129.42
2014	66.47	35.64	60.31	109.19	145.62	129.86	109.37	156.61	104.53
2015	73.29	39.70	60.88	110.13	184.65	128.14	135.43	220.81	105.32
2016	79.69	39.20	67.22	98.64	226.27	142.48	136.19	176.43	102.18
2017	90.32	39.61	66.34	103.88	253.20	168.25	180.95	222.90	119.45
2018	87.77	39.12	58.71	91.73	221.50	160.88	170.92	204.42	118.13
2019	89.62	54.96	65.59	91.18	220.97	161.03	160.89	171.83	117.41
2020	82.71	62.61	68.34	107.78	149.91	126.31	118.39	132.82	99.58
2016	79.61	68.03	73.84	88.57	110.28	99.38	87.01	106.35	88.01
2017	83.31	60.76	78.97	95.89	165.40	111.99	96.95	107.96	89.82
2018	90.68	62.18	82.94	106.49	173.37	121.39	109.36	125.81	97.46
2019	90.13	58.39	87.47	102.85	228.79	119.13	107.83	121.62	98.82
2020	80.68	59.69	82.13	81.48	193.12	98.81	81.72	113.07	81.41

1. 신재생은 RPS 제외분임

1. Excluding RPS.

자료: www.kepco.co.kr (전력통계속보)

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

## 17. 현행 전기요금표

### 1. 주택용 전력(저압)

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

#### • 하계(7.1~8.31)

(적용일자: 2021년 1월 1일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
300kWh 이하 사용	910	88.3
301 ~ 450kWh 사용	1,600	182.9
450kWh 초과 사용	7,300	275.6

※ 슈퍼유저요금: 하계(7~8월), 1,000kWh초과 전력량요금은 704.5원/kWh 적용

#### • 기타계절(1.1~6.30, 9.1~12.31)

(적용일자: 2021년 1월 1일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
200kWh 이하 사용	910	88.3
201 ~ 400kWh 사용	1,600	182.9
400kWh 초과 사용	7,300	275.6

※ 슈퍼유저요금: 동계(12~2월), 1,000kWh초과 전력량요금은 704.5원/kWh 적용

### 2. 주택용 전력(고압)

- 고압으로 공급받는 가정용 고객에게 적용

#### • 하계(7.1~8.31)

(적용일자: 2021년 1월 1일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
300kWh 이하 사용	730	73.3
301 ~ 450kWh 사용	1,260	142.3
450kWh 초과 사용	6,060	210.6

※ 슈퍼유저요금: 하계(7~8월), 1,000kWh초과 전력량요금은 569.6원/kWh 적용

#### • 기타계절(1.1~6.30, 9.1~12.31)

(적용일자: 2021년 1월 1일)

구 간	기본요금(원/호)	전력량 요금(원/kWh)
200kWh 이하 사용	730	73.3
201 ~ 400kWh 사용	1,260	142.3
400kWh 초과 사용	6,060	210.6

※ 슈퍼유저요금: 동계(12~2월), 1,000kWh초과 전력량요금은 569.6원/kWh 적용

### 17. Table for Current Electricity Tariff

#### 3. 일반용 전력(갑 I)

- 타 종별을 제외한 고객으로 계약전력 300kW 이상 고객에 적용

(적용일자: 2021년 1월 1일)

		기본요금 (원/kW)	전력량 요금(원/kWh)		
			여름철 (6~8월)	봄-가을철 (3~5, 9~10월)	겨울철 (11~2월)
저압전력		6,160	100.7	60.2	87.3
고압A	선택 I	7,170	110.9	66.9	98.6
	선택 II	8,230	106.9	62.6	93.3
고압B	선택 I	7,170	108.8	65.8	95.6
	선택 II	8,230	103.5	60.5	90.3

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

#### 4. 일반용 전력(갑 II)

- 타 종별을 제외한 고객으로 계약전력 300kW 이상 고객에 적용

(적용일자: 2021년 1월 1일)

		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철 (6~8월)	봄-가을철 (3~5,9~10월)	겨울철 (11~2월)
고압A	선택 I	7,170	경 부 하	57.7	57.7	66.4
			중간부하	108.9	65.1	96.8
			최대부하	131.4	76.4	111.6
	선택 II	8,230	경 부 하	52.4	52.4	61.1
			중간부하	103.6	59.8	91.5
			최대부하	126.1	71.1	106.3
고압B	선택 I	7,170	경 부 하	57.1	57.1	66.1
			중간부하	105.7	63.0	93.4
			최대부하	122.1	68.4	107.6
	선택 II	8,230	경 부 하	51.8	51.8	60.8
			중간부하	100.4	57.7	88.1
			최대부하	116.8	63.1	102.3

※ 대상: 시간대별 구분 계량기가 설치된 고객

## 17. 현행 전기요금표(계속)

### 5. 일반용 전력(을)

- 타 종별을 제외한 고객으로 계약전력 300kW 이상 고객에 적용

		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철 (6-8월)	봄-가을철 (3-5,9-10월)	겨울철 (11-2월)
고압A	선택 I	7,220	경 부 하	56.6	56.6	63.6
			중 간 부 하	109.5	79.1	109.7
			최 대 부 하	191.6	109.8	167.2
	선택 II	8,320	경 부 하	51.1	51.1	58.1
			중 간 부 하	104.0	73.6	104.2
			최 대 부 하	186.1	104.3	161.7
	선택 III	9,810	경 부 하	50.2	50.2	57.5
			중 간 부 하	103.4	72.3	103.6
			최 대 부 하	173.7	96.0	150.5
고압B	선택 I	6,630	경 부 하	55.0	55.0	62.0
			중 간 부 하	107.3	77.3	107.3
			최 대 부 하	188.5	107.6	163.5
	선택 II	7,380	경 부 하	51.2	51.2	58.2
			중 간 부 하	103.5	73.5	103.5
			최 대 부 하	184.7	103.8	159.7
	선택 III	8,190	경 부 하	49.5	49.5	56.6
			중 간 부 하	101.8	71.9	101.8
			최 대 부 하	183.1	102.2	158.0
고압C	선택 I	6,590	경 부 하	54.5	54.5	61.4
			중 간 부 하	107.4	77.4	107.0
			최 대 부 하	188.3	107.8	163.6
	선택 II	7,520	경 부 하	49.8	49.8	56.7
			중 간 부 하	102.7	72.7	102.3
			최 대 부 하	183.6	103.1	158.9
	선택 III	8,090	경 부 하	48.7	48.7	55.6
			중 간 부 하	101.6	71.6	101.2
			최 대 부 하	182.5	102.0	157.8

### 6. 전기자동차 충전전력

	기본요금 (원/kW)	전력량 요금(원/kWh)			
		시 간 대	여름철 (6-8월)	봄-가을철 (3-5,9-10월)	겨울철 (11-2월)
저 압	2,390	경 부 하	52.6	53.7	75.7
		중 간 부 하	140.3	65.5	123.2
		최 대 부 하	227.5	70.4	185.8
고 압	2,580	경 부 하	47.5	48.5	64.9
		중 간 부 하	105.7	59.3	96.0
		최 대 부 하	158.7	63.2	133.8

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

### 7. 산업용(갑)I

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

(적용일자: 2021년 1월 1일)

	기본요금 (원/kW)	전력량 요금(원/kWh)			
		여름철 (6-8월)	봄-가을철 (3-5,9-10월)	겨울철 (11-2월)	
저 압 전력	5,550	76.0	54.2	74.3	
고압A	선택 I	6,490	84.6	60.9	84.5
	선택 II	7,470	79.8	56.3	78.0
고압B	선택 I	6,000	83.4	59.8	83.0
	선택 II	6,900	78.7	55.2	76.9

### 17. Table for Current Electricity Tariff(Continued)

#### 8. 산업용(갑)II

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

(적용일자 : 2021년 1월 1일)

		기본요금 (원/kW)	전력량 요금 (원/kWh)			
			시간대	여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
고압A	선택 I	6,490	경 부 하	55.5	55.5	62.9
			중 간 부 하	81.3	60.3	79.8
			최 대 부 하	114.8	79.5	109.2
	선택 II	7,470	경 부 하	50.6	50.6	58.0
			중 간 부 하	76.4	55.4	74.9
			최 대 부 하	109.9	74.6	104.3
고압B	선택 I	6,000	경 부 하	52.3	52.3	59.5
			중 간 부 하	79.9	58.9	77.5
			최 대 부 하	113.7	77.7	106.2
	선택 II	6,900	경 부 하	47.8	47.8	55.0
			중 간 부 하	75.4	54.4	73.0
			최 대 부 하	109.2	73.2	101.7

※ 대상: 시간대별 구분 계량기가 설치된 고객

#### 9. 산업용(을)

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

		기본요금 (원/kW)	전력량 요금 (원/kWh)			
			시간대	여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
고압A	선택 I	7,220	경 부 하	56.6	56.6	63.6
			중 간 부 하	109.5	79.1	109.7
			최 대 부 하	191.6	109.8	167.2
	선택 II	8,320	경 부 하	51.1	51.1	58.1
			중 간 부 하	104.0	73.6	104.2
			최 대 부 하	186.1	104.3	161.7
	선택 III	9,810	경 부 하	50.2	50.2	57.5
			중 간 부 하	103.4	72.3	103.6
			최 대 부 하	173.7	96.0	150.5
고압B	선택 I	6,630	경 부 하	55.0	55.0	62.0
			중 간 부 하	107.3	77.3	107.3
			최 대 부 하	188.5	107.6	163.5
	선택 II	7,380	경 부 하	51.2	51.2	58.2
			중 간 부 하	103.5	73.5	103.5
			최 대 부 하	184.7	103.8	159.7
	선택 III	8,190	경 부 하	49.5	49.5	56.6
			중 간 부 하	101.8	71.9	101.8
			최 대 부 하	183.1	102.2	158.0
고압C	선택 I	6,590	경 부 하	54.5	54.5	61.4
			중 간 부 하	107.4	77.4	107.0
			최 대 부 하	188.3	107.8	163.6
	선택 II	7,520	경 부 하	49.8	49.8	56.7
			중 간 부 하	102.7	72.7	102.3
			최 대 부 하	183.6	103.1	158.9
	선택 III	8,090	경 부 하	48.7	48.7	55.6
			중 간 부 하	101.6	71.6	101.2
			최 대 부 하	182.5	102.0	157.8

### 17. 현행 전기요금표(계속)

#### 10. 교육용(갑)

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

(적용일자 : 2021년 1월 1일)

		기본요금 (원/kW)	전력량 요금(원/kWh)		
			여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
저압전력		5,230	91.9	54.7	79.1
고압A	선택 I	5,550	91.6	54.8	77.6
	선택 II	6,370	87.1	50.4	73.1
고압B	선택 I	5,550	90.9	54.4	76.8
	선택 II	6,370	86.4	49.9	72.3

#### 11. 교육용(을)

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

		기본요금 (원/kW)	전력량 요금 (원/kWh)			
			시간대	여름철 (6~8월)	봄·가을철 (3~5,9~10월)	겨울철 (11~2월)
고압A	선택 I	6,090	경 부 하	44.8	44.8	48.8
			중 간 부 하	89.5	59.2	88.0
			최 대 부 하	155.4	79.7	126.7
	선택 II	6,980	경 부 하	40.3	40.3	44.3
			중 간 부 하	85.0	54.7	83.5
			최 대 부 하	150.9	75.2	122.2
고압B	선택 I	6,090	경 부 하	43.3	43.3	47.1
			중 간 부 하	86.8	57.5	85.1
			최 대 부 하	149.7	77.3	122.4
	선택 II	6,980	경 부 하	38.8	38.8	42.6
			중 간 부 하	82.3	53.0	80.6
			최 대 부 하	145.2	72.8	117.9

#### 12. 농사용

- 농사용전력(갑): 양곡생산을 위한 양수, 배수펌프 및 수문조작에 사용하는 전력
- 농사용전력(을): 다음 중 하나에 해당하는 계약전력 1,000kW 미만의 고객으로 농사용전력(갑) 이외의 고객
- 농사용 육묘 또는 전조재배에 사용하는 전력

(적용일자 : 2021년 1월 1일)

		기본요금(원/kW)	전력량 요금(원/kWh)	
갑		360	36.9	
을	저압	1,150	34.2	
	고압(A,B)	1,210	여름철	36.9
			봄·가을철	34.9
			겨울철	36.9

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

### 17. Table for Current Electricity Tariff(Continued)

#### 13. 가로등

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

(적용일자: 2021년 1월 1일)

	기본요금(원/kW)	전력량 요금(원/kWh)
갑(정액등)	W당 37.5 (월 최저요금 1,220원)	
을(종량등)	6,290	80.9

#### 14. 심야전력

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

(적용일자: 2021년 1월 1일)

	기본요금(원/kW)	전력량 요금(원/kWh)	
갑		겨울철: 71.8, 기타계절: 50.4 (월 최저요금: 20kWh에 해당하는 요금)	
을 I		겨울철: 57.3, 기타계절: 40.2 (월 최저요금: 20kWh에 해당하는 요금)	
을 II	7,160원 × $\frac{\text{기타시간 사용전력량}}{\text{월간 총사용전력량}}$	심야시간대	겨울철: 57.3 기타계절: 40.2
		기타시간	83.4
(월 최저요금 kW당 710원)			

※ 겨울철: 11월~익년2월, 기타계절: 3월~10월

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

#### 15. 수요관리형 선택요금 I(CPP요금)

- 일반용(을)·산업용(을) 고압A(공급전압 22,900V) 고객 중 "CPP요금"적용기간(1~2월, 7~8월)에 대응하는 전년도 동일 기간에서 토, 일요일 및 공휴일을 제외한 평일 사용전력량 중 최대부하시간대 사용전력량 점유비가 25%이상인 고객 중 희망 고객

- 단, 지식서비스 산업, 전기차 충전전력, 산업용 기타사업 할인고객 제외

	기본요금(원/kW)	전력량 요금(원/kWh)			
		시간대	7.1~8.31	1.1~2월 말일	
선택 I	7,220	경부하	47	49.4	
		중간부하	비피크일	86.1	81.4
			피크일		186.5
		최대부하	비피크일	146.7	121.4
			피크일	652.5	569.9
		고압A 선택 II	8,320	경부하	41.5
중간부하	비피크일			80.6	75.9
	피크일				180.7
최대부하	비피크일			141.2	115.9
	피크일			647	564.4
선택 III	9,810			경부하	40.8
		중간부하	비피크일	80.1	75.5
			피크일		179.7
		최대부하	비피크일	132.1	108.1
			피크일	605.1	526.5

## 17. 현행 전기요금표(계속)

## 16. 수요관리형 선택요금 II

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

		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철 (6-8월)	봄·가을철 (3-5, 9-10월)	겨울철 (11-2월)
고압B	선택 I	6,630	경 부 하	60.0	60.0	67.0
			중 간 부 하	112.3	82.3	112.3
			최 대 부 하	299.7	174.4	168.5
	선택 II	7,380	경 부 하	56.2	56.2	63.2
			중 간 부 하	108.5	78.5	108.5
			최 대 부 하	293.8	168.5	164.7
선택 III	8,190	경 부 하	54.5	54.5	61.6	
		중 간 부 하	106.8	76.9	106.8	
		최 대 부 하	291.4	166.1	163	
고압C	선택 I	6,590	경 부 하	59.5	59.5	66.4
			중 간 부 하	112.4	82.4	112
			최 대 부 하	299.4	174.7	168.6
	선택 II	7,520	경 부 하	54.8	54.8	61.7
			중 간 부 하	107.7	77.7	107.3
			최 대 부 하	292.1	167.4	163.9
	선택 III	8,090	경 부 하	53.7	53.7	60.6
			중 간 부 하	106.6	76.6	106.2
			최 대 부 하	290.4	165.7	162.8

## 17. 전기자동차 충전전력요금

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

	기본요금 (원/kW)	전력량 요금(원/kWh)			
		시간대	여름철	봄·가을철	겨울철
저압	2,390	경 부 하	52.6	53.7	75.7
		중 간 부 하	140.3	65.5	123.2
		최 대 부 하	227.5	70.4	185.8
고압	2,580	경 부 하	47.5	48.5	64.9
		중 간 부 하	105.7	59.3	96.0
		최 대 부 하	158.7	63.2	133.8



### 17. Table for Current Electricity Tariff(Continued)

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

		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철	봄·가을철	겨울철
선택 I	저압	2,390	경 부 하	64.2	53.7	78.9
			중 간 부 하	130.5	65.5	111.4
			최 대 부 하	171.8	70.4	140.3
	고압	2,580	경 부 하	58.1	48.5	67.7
			중 간 부 하	98.2	59.3	86.7
			최 대 부 하	119.5	63.2	100.7
선택 II	저압	2,390	경 부 하	51.4	53.7	74.1
			중 간 부 하	108.3	65.5	95
			최 대 부 하	239.1	70.4	195.3
	고압	2,580	경 부 하	46.5	48.5	63.5
			중 간 부 하	81.3	59.3	73.8
			최 대 부 하	166.9	63.2	140.7
선택 III	저압	2,390	경 부 하	58.4	53.7	83.8
			중 간 부 하	106.9	65.5	93.7
			최 대 부 하	204.3	70.4	166.7
	고압	2,580	경 부 하	52.8	48.5	71.9
			중 간 부 하	80.2	59.3	72.8
			최 대 부 하	142.3	63.2	119.9
선택 IV	저압	2,390	계 절 별 단일단가	140.3	65.5	123.2
	고압	2,580		105.7	59.3	96.0

### 18. 일반용 보완전력요금

		기본요금 (원/kW)	전력량 요금(원/kWh)			
			시간대	여름철	봄·가을철	겨울철
저압	5,310	경 부 하	69.2	69.2	69.2	
		중 간 부 하	101.9	74.6	85.9	
		최 대 부 하	150.5	88.6	105.4	
고압	4,910	경 부 하	65	65	65	
		중 간 부 하	95.8	70.8	79.1	
		최 대 부 하	136.2	81.6	96.7	

### 19. 산업용 보완전력요금

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

### 20. 역송전력 요금

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

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

## 17. 현행 전기요금표(계속)

### ◎ 선택요금제도

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

### ◎ 전압구분

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

### ◎ 계절별 시간대별 구분

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

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

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

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

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

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

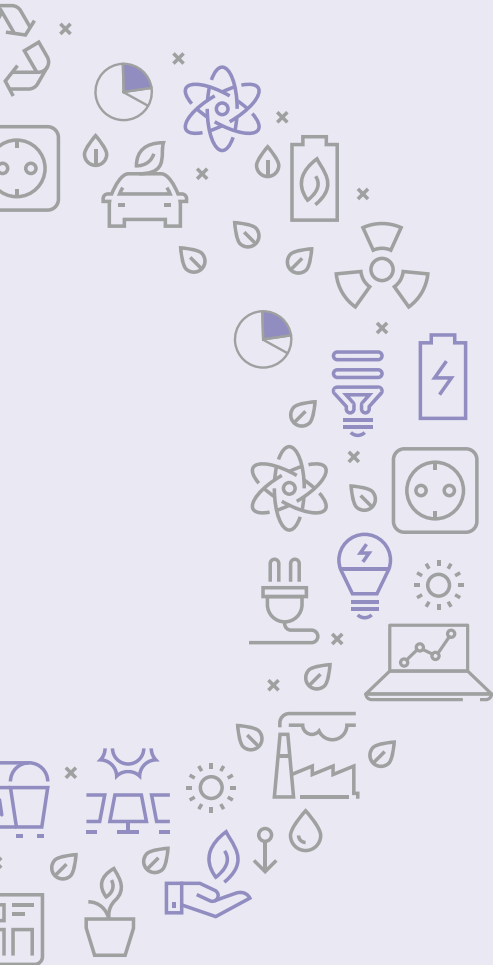
자료: cyber.kepco.co.kr(한전사이버지점)

Source: cyber.kepco.co.kr

## 7. 해외 에너지통계

### World Energy Statistics

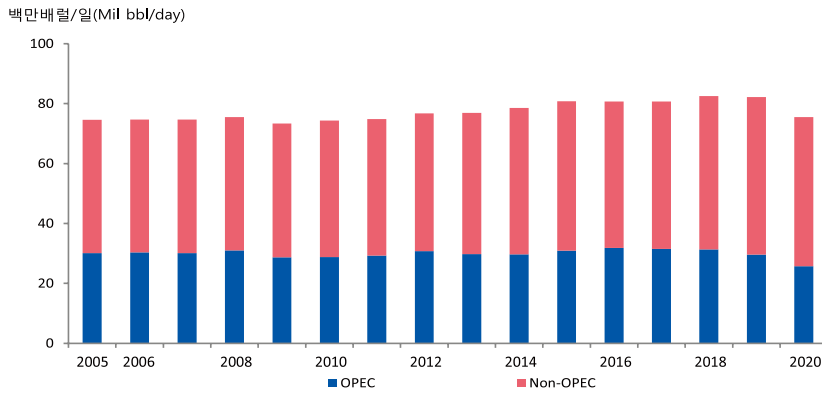
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  - 1-1. OECD 국가별 경제활동별 부가가치(USD, 2019년)  
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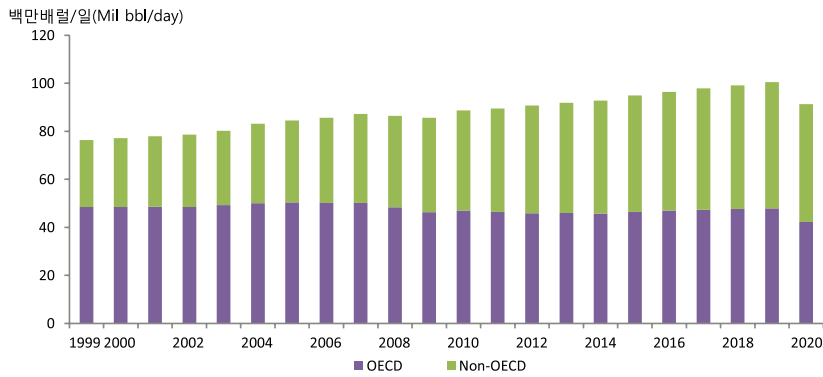
● 세계 원유 생산 World Crude Oil Production

<2005~2020>



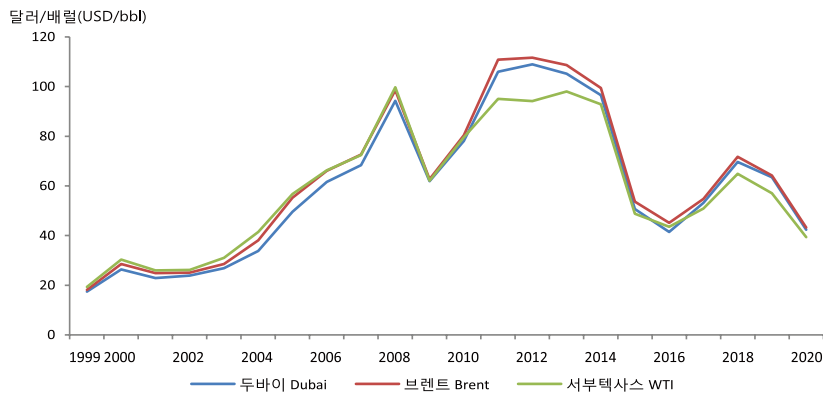
● 세계 석유 수요 World Oil Demand

<1999~2020>



● 국제 석유 가격 International Oil Prices

<1999~2020>



## 1. 주요 에너지 지표

## 1-1. OECD 국가별 경제활동별 부가가치(USD, 2019년)

단위: 백만 달러

	산업부문 Industry					유통, 보수, 운수, 숙박, 음식점 등 Distributive trade, repairs; transport; accommod., food serv.	정보·통신업 Information and communication
	농림어업 Agriculture, Forestry and Fisheries	제조업 Manufacturing	건설업 Construction	기타 Others	소계 Subtotal		
호주	26,448	75,298	95,165	194,104	391,015	199,464	38,206
오스트리아	4,810	72,107	21,722	84,155	182,793	83,433	14,904
벨기에	2,565	59,580	23,793	69,853	155,790	81,679	20,378
캐나다	33,426	162,534	117,433	282,967	596,360	287,439	77,298
칠레	9,493	29,634	16,945	58,055	114,127	44,338	8,320
체코	4,588	54,517	9,186	62,201	130,491	36,831	12,301
덴마크	3,317	48,036	14,925	56,126	122,403	61,092	14,442
에스토니아	587	3,806	1,622	4,858	10,872	5,583	1,668
핀란드	5,968	38,303	13,648	45,628	103,546	35,385	13,129
프랑스	37,712	272,287	125,576	327,986	763,561	413,216	131,570
독일	22,483	738,537	143,963	839,476	1,744,460	519,150	168,338
그리스	8,204	17,279	3,026	25,857	54,366	46,843	5,183
헝가리	5,138	27,381	5,939	31,451	69,909	24,442	7,288
아일랜드	3,451	117,424	7,597	123,083	251,555	39,867	54,609
이스라엘	3,760	41,292	19,901	47,548	112,502	48,873	27,946
이탈리아	36,560	285,009	75,948	337,749	735,266	369,020	65,064
일본	40,343	974,217	239,046	1,113,810	2,367,417	911,053	231,042
한국	29,509	432,321	79,018	473,778	1,014,626	214,194	73,296
라트비아	1,005	3,405	1,729	4,116	10,255	7,165	1,380
룩셈부르크	134	3,291	3,458	4,230	11,113	9,158	3,653
멕시코	41,054	216,028	81,581	266,088	604,751	342,412	30,649
네덜란드	13,614	93,548	37,841	117,031	262,034	157,417	40,320
뉴질랜드	7,930	21,453	13,195	28,531	71,109	32,749	5,248
노르웨이	6,013	26,628	24,664	94,797	152,101	54,053	16,746
폴란드	10,543	99,157	37,011	127,364	274,075	133,344	24,493
포르투갈	4,315	27,281	8,274	34,995	74,865	48,166	7,289
슬로바키아	1,836	20,823	5,671	24,580	52,909	16,814	4,511
슬로베니아	951	10,903	2,443	12,483	26,780	9,464	1,777
스페인	34,597	145,353	71,480	194,787	446,217	283,609	49,498
스웨덴	7,195	71,988	30,637	87,096	196,916	87,931	43,464
스위스	4,310	145,375	37,343	160,753	347,781	148,518	33,659
터키	64,021	162,035	72,224	195,586	493,867	232,141	27,663
영국	18,082	293,985	167,349	397,468	876,885	477,038	230,627
미국	219,338	2,294,472	762,703	2,925,158	6,201,669	3,112,175	1,550,996

주: 1. 4차 국제표준산업분류 기준

2. 2015년 불변가격, 불변환율 기준

자료: OECD iLibrary

# 1. Energy indicators

## 1-1. Gross Value Added by Economic Activity by OECD Countries(USD, 2019)

Unit: Million USD

금융·보험업 등 Financial and insurance activities	부동산업 등 Real estate activities	교육, 과학, 기술, 행정, 지원업 등 Prof., scientific, techn.; admin., support serv. activities	공공, 의무 사회 서비스, 교육, 보건업 등 Public admin.; compulsory s.s.; education; human healths	기타 서비스업 Other service activities	총부가가치 Gross value added	국내총생산 GDP	
117,901	156,713	142,838	247,684	33,503	1,252,722	1,338,551	Australia
16,983	34,489	37,414	62,548	9,991	370,238	414,424	Austria
28,054	41,478	69,739	93,856	8,982	440,188	492,934	Belgium
115,992	194,747	118,835	319,208	31,492	1,580,294	1,690,127	Canada
13,101	19,970	26,083	43,091	..	239,340	262,807	Chile
9,464	15,234	14,003	26,381	4,365	194,437	215,595	Czech Republic
16,906	28,692	26,128	59,635	8,969	290,200	334,638	Denmark
1,031	2,226	2,206	3,201	598	23,595	27,079	Estonia
6,655	28,151	20,282	44,822	6,804	220,448	255,049	Finland
106,137	291,395	327,976	508,769	68,247	2,337,868	2,616,812	France
126,729	339,932	375,594	581,370	123,778	3,240,887	3,600,339	Germany
9,267	31,041	8,836	34,191	6,330	178,989	203,713	Greece
4,801	9,906	13,301	18,195	3,814	124,118	146,969	Hungary
15,028	16,656	40,551	35,861	4,746	339,725	370,781	Ireland
16,093	44,942	33,635	55,495	9,206	307,400	345,435	Israel
92,458	233,634	167,940	274,337	70,381	1,723,182	1,916,766	Italy
189,066	544,879	360,097	742,938	182,240	4,553,474	4,591,291	Japan
90,508	119,642	139,327	248,879	37,740	1,505,519	1,638,147	South Korea
775	3,091	2,076	4,423	902	26,667	30,571	Latvia
16,225	5,119	8,861	9,407	1,024	61,330	67,314	Luxembourg
51,715	131,747	81,310	126,346	22,368	1,178,167	1,254,384	Mexico
56,720	47,866	112,615	153,064	17,806	754,654	840,250	Netherlands
11,456	28,164	20,937	28,725	6,449	183,223	200,743	New Zealand
19,751	27,579	27,910	82,806	6,957	360,968	406,896	Norway
22,519	26,605	43,391	68,701	10,955	504,062	570,115	Poland
9,269	22,754	15,756	35,955	5,470	192,183	222,362	Portugal
2,584	8,745	7,790	12,777	3,058	88,291	99,088	Slovak Republic
1,630	3,075	4,276	6,567	1,068	43,708	50,270	Slovenia
42,980	140,054	112,698	214,604	58,918	1,202,974	1,324,561	Spain
23,994	41,725	56,376	96,549	14,083	488,585	549,821	Sweden
73,456	48,444	78,016	135,077	17,062	736,234	758,168	Switzerland
30,640	73,731	50,928	118,255	21,123	886,153	997,434	Turkey
226,814	373,770	347,812	523,312	97,941	2,855,601	3,191,493	United Kingdom
1,345,166	2,361,802	2,391,273	4,137,934	491,623	19,265,299.78	19,974,534	United States

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

2. Based on 2015 constant prices, constant exchange rates

Source: OECD iLibrary

1-2. 세계 에너지·경제통계(2019년)

	인구	국내총생산		에너지 생산	에너지 순수입	1차에너지 공급	최종에너지 소비	전력소비		가정에너지 소비	수송에너지 소비
	Population	GDP		Energy prod.	Net imports	TPES <sup>1</sup>	TFEC <sup>2</sup>	Electricity consumption		Residen. energy con.	Transport. energy con.
	millions	(PPP)		Mtoe				TWh	Mil.toe	Mtoe	
		bil. USD(2015)									
세계	7,665.97	84,165.01	127,207.26	14,744.86	-125.57	14,485.75	9,983.11	25,027.28	1,964.55	2,096.59	2,889.37
OECD	1,357.07	51,300.39	58,477.50	4,649.79	973.23	5,368.99	3,787.86	10,548.69	831.65	707.83	1,283.49
중동	243.11	2,219.14	4,805.88	1,978.83	-1,201.11	743.92	510.29	1,059.60	81.61	87.96	140.76
비OECD 유럽 및 유라시아	340.81	2,545.17	6,647.49	2,026.68	-816.32	1,167.26	771.63	1,603.92	109.05	217.97	155.27
중국 (홍콩 포함)	1,405.22	14,651.24	23,478.94	2,719.35	784.35	3,403.39	2,101.22	7,201.84	564.72	352.11	326.27
비OECD 아시아(중국제외)	2,562.63	7,173.89	20,958.34	1,562.91	490.52	1,965.05	1,356.30	2,927.36	241.72	322.56	286.55
비OECD 아메리카	449.50	3,716.72	6,483.32	620.32	-39.98	560.01	422.95	953.48	78.25	71.07	155.88
아프리카	1,307.70	2,614.47	6,420.76	1,186.98	-316.27	857.03	612.75	732.39	57.55	337.09	121.06
알바니아	2.85	12.99	38.33	1.73	0.75	2.33	2.09	6.56	0.53	0.50	0.83
알제리	43.05	177.35	510.07	148.41	-84.90	62.99	43.69	71.49	5.38	13.28	15.40
앙골라	31.83	109.80	193.35	80.48	-65.91	14.92	10.62	13.71	1.15	6.10	2.60
아르헨티나	44.94	570.47	831.77	78.18	2.10	79.44	56.61	129.38	10.80	13.64	18.00
아르메니아	2.96	12.87	35.56	0.93	2.56	3.40	2.46	6.17	0.50	0.81	0.81
호주	25.37	1,338.55	1,209.03	444.80	-303.98	128.74	82.34	251.05	18.45	10.59	33.86
오스트리아	8.88	415.02	468.26	12.00	24.90	33.39	28.02	74.06	5.46	6.53	9.00
아제르바이잔	10.02	53.46	145.20	60.10	-43.66	15.94	10.80	22.49	1.61	3.48	2.82
바레인	1.64	34.71	69.89	24.10	-8.22	15.42	6.93	33.04	2.82	0.90	1.27
방글라데시	163.05	261.52	744.79	31.65	12.73	43.78	33.28	81.80	6.78	14.55	4.05
벨라루스	9.47	58.91	178.65	4.37	22.08	25.90	19.11	35.42	2.66	4.92	4.10
벨기에	11.49	492.93	555.35	15.82	49.82	54.88	40.13	88.30	7.05	7.81	8.84
베냉	11.80	14.18	38.02	2.88	2.43	5.28	4.42	1.26	0.11	1.78	1.98
볼리비아	11.51	38.19	89.75	17.53	-8.25	9.16	6.91	8.95	0.71	0.97	3.83
보스니아헤르체고비나	3.30	18.17	46.17	5.40	1.97	7.21	4.29	12.50	0.95	1.69	1.32
보츠와나	2.30	16.65	38.07	1.69	0.96	2.64	1.80	3.71	0.28	0.56	0.81
브라질	211.05	1,809.84	3,027.51	311.91	-11.41	292.71	227.33	545.64	44.17	26.65	86.22
브루나이	0.43	13.28	26.65	15.26	-10.90	4.08	1.55	4.44	0.34	0.15	0.45

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

2. TFEC: Total Final Energy Consumption

3. 연소에 의한 CO<sub>2</sub> 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제빙커링 배출 포함.

자료: OECD iLibrary



1-2. Energy Indicators by Country(2019)

CO <sub>2</sub> 배출량 <sup>3</sup> CO <sub>2</sub> Emiss. <sup>3</sup>	1인당 에너지 소비		전력소비/ 최종에너지소비 Elec.Cons./TFEC	TPES/GDP	TPES/GDP (PPP)	CO <sub>2</sub> /TPES	CO <sub>2</sub> /Pop.	CO <sub>2</sub> /GDP	CO <sub>2</sub> /GDP (PPP)	
	Energy Consumption per Capita									
	1차에너지 TPES	전력소비 Electricity								
MtofCO <sub>2</sub>	toe/capita	kWh/capita	%	toe/2015 USD	tCO <sub>2</sub> /toe	tCO <sub>2</sub> /capita	kgCO <sub>2</sub> /2015 USD			
33,621.53	1.89	3,264.70	19.68	0.17	0.11	2.32	4.39	0.40	0.26	<b>World</b>
11,317.68	3.96	7,773.10	21.96	0.10	0.09	2.11	8.34	0.22	0.19	OECD
1,754.28	3.06	4,358.50	15.99	0.34	0.15	2.36	7.22	0.79	0.37	Middle East
2,547.80	3.42	4,706.20	14.13	0.46	0.18	2.18	7.48	1.00	0.38	Non-OECD Europe and Eurasia
9,919.13	2.42	5,125.10	26.88	0.23	0.14	2.91	7.06	0.68	0.42	China (P.R. of China and Hong Kong)
4,575.22	0.77	1,142.30	17.82	0.27	0.09	2.33	1.79	0.64	0.22	Asia (excluding China)
941.95	1.25	2,121.20	18.50	0.15	0.09	1.68	2.10	0.25	0.15	Non-OECD Americas
1,262.86	0.66	560.10	9.39	0.33	0.13	1.47	0.97	0.48	0.20	Africa
4.05	0.82	2,297.70	25.44	0.18	0.06	1.74	1.42	0.31	0.11	Albania
142.37	1.46	1,660.40	12.32	0.36	0.12	2.26	3.31	0.80	0.28	Algeria
18.77	0.47	430.90	10.80	0.14	0.08	1.26	0.59	0.17	0.10	Angola
162.22	1.77	2,878.90	19.08	0.14	0.10	2.04	3.61	0.28	0.20	Argentina
5.85	1.15	2,086.90	20.41	0.26	0.10	1.72	1.98	0.45	0.16	Armenia
380.74	5.07	9,897.10	22.40	0.10	0.11	2.96	15.01	0.28	0.31	Australia
63.00	3.76	8,341.80	19.49	0.08	0.07	1.89	7.09	0.15	0.13	Austria
34.05	1.59	2,244.20	14.86	0.30	0.11	2.14	3.40	0.64	0.23	Azerbaijan
32.60	9.40	20,131.80	40.68	0.44	0.22	2.11	19.88	0.94	0.47	Bahrain
89.26	0.27	501.70	20.38	0.17	0.06	2.04	0.55	0.34	0.12	Bangladesh
55.41	2.73	3,740.90	13.92	0.44	0.14	2.14	5.85	0.94	0.31	Belarus
90.19	4.78	7,685.70	17.56	0.11	0.10	1.64	7.85	0.18	0.16	Belgium
7.09	0.45	106.40	2.44	0.37	0.14	1.34	0.60	0.50	0.19	Benin
20.85	0.80	777.00	10.23	0.24	0.10	2.28	1.81	0.55	0.23	Bolivia
20.69	2.19	3,785.50	22.03	0.40	0.16	2.87	6.27	1.14	0.45	Bosnia and Herzegovina
7.25	1.15	1,610.20	15.32	0.16	0.07	2.75	3.15	0.44	0.19	Botswana
410.99	1.39	2,585.30	19.43	0.16	0.10	1.40	1.95	0.23	0.14	Brazil
6.59	9.49	10,244.30	21.67	0.31	0.15	1.61	15.32	0.50	0.25	Brunei Darrussalam

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. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

## 1-2. 세계 에너지·경제통계(2019년)(계속)

	인구	국내총생산		에너지 생산	에너지 순수입	1차에너지 공급	최종에너지 소비	전력소비		가정에너지 소비	수송에너지 소비
	Population	GDP		Energy prod.	Net imports	TPES <sup>1</sup>	TFEC <sup>2</sup>	Electricity consumption		Residen. energy con.	Transport. energy con.
	millions	(PPP)						TWh	Mil.toe	Mtoe	
		bil. USD(2015)		Mtoe							
불 가 리 아	6.98	57.97	150.75	11.66	7.21	18.33	10.06	35.73	2.59	2.16	3.41
캄 보 디 아	16.49	23.74	69.19	3.88	4.47	8.08	6.80	10.55	0.88	2.35	1.90
카 메 룬	25.88	36.28	89.10	12.99	-3.22	9.76	7.87	6.63	0.56	4.99	1.08
캐 나 다	37.59	1,690.13	1,731.76	535.59	-229.94	305.59	205.54	564.56	45.54	35.40	68.00
칠 레	19.04	262.81	439.46	13.67	28.63	41.36	28.31	80.99	6.37	4.63	9.63
중 국	1,397.72	14,317.78	23,035.64	2,719.21	753.56	3,389.30	2,093.08	7,154.27	560.86	350.76	323.55
콜 롬 비 아	48.91	321.69	684.10	127.29	-80.26	44.05	30.93	75.00	5.81	6.03	11.25
콩 고	5.38	8.22	15.58	20.18	-16.73	3.24	1.96	2.01	0.14	1.15	0.44
코 스타 리 카	5.05	62.15	91.24	2.67	2.89	5.30	3.95	10.55	0.87	0.48	2.00
코 트 디 부 아 르	25.72	60.16	141.90	10.41	0.48	10.62	7.50	7.55	0.63	4.54	1.41
크 로 아 티 아	4.07	55.88	109.15	3.89	4.96	8.58	7.27	17.23	1.39	2.22	2.23
쿠 바	11.33	94.20	292.60	4.77	5.22	9.57	6.39	17.27	1.32	1.25	0.61
퀴 라 소	0.16	1.85	1.66	0.02	2.37	0.77	0.69	0.78	0.06	0.08	0.35
키 프 로 스	0.88	23.67	32.18	0.16	2.70	2.26	1.62	4.96	0.41	0.35	0.69
체 코	10.67	214.10	407.06	26.84	17.57	42.76	26.96	69.63	5.02	6.85	6.72
북 한	25.67	29.75	111.67	14.48	1.11	15.59	14.32	11.43	0.87	1.57	1.38
콩고 민주공화국	86.79	44.49	81.00	30.68	-0.30	30.26	19.47	9.10	0.71	17.71	0.73
덴 마 크	5.82	337.66	310.97	12.23	6.98	16.00	13.51	33.73	2.68	4.17	4.28
도미니카 공화국	10.74	89.32	190.22	1.08	9.18	9.83	7.12	17.28	1.56	1.53	2.63
에콰도르	17.37	101.74	183.74	31.02	-15.27	15.38	12.68	26.17	2.22	1.80	6.49
이집트	100.39	402.06	1,286.12	93.68	3.44	96.19	60.82	160.37	13.44	13.52	18.03
엘살바도르	6.45	25.77	52.84	1.96	2.80	4.57	2.85	6.58	0.55	0.66	1.26
에리트레아	4.87	5.13	13.31	0.64	0.26	0.89	0.57	0.42	0.03	0.43	0.09
에스토니아	1.33	27.50	46.11	5.40	0.25	5.24	2.96	9.27	0.63	0.95	0.84
에티오피아	112.08	89.57	231.76	40.11	5.46	44.79	42.05	10.74	0.95	36.54	2.53
핀란드	5.52	255.30	253.49	19.24	14.51	33.32	25.58	85.97	7.02	5.09	4.17
프랑스	67.46	2,616.81	2,916.46	131.19	120.45	242.48	150.07	475.07	37.14	37.37	45.21
가봉	2.17	15.38	30.62	15.23	-10.41	4.65	4.18	2.41	0.19	1.28	0.07
조지아	3.72	17.79	53.57	1.09	4.12	5.10	4.59	12.32	1.04	1.30	1.40

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

2. TFEC: Total Final Energy Consumption

3. 연소에 의한 CO<sub>2</sub> 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제빙커링 배출 포함.

자료: OECD iLibrary

1-2. Energy Indicators by Country(2019)(Continued)

CO <sub>2</sub> 배출량 <sup>3</sup> CO <sub>2</sub> Emiss. <sup>3</sup>	1인당 에너지 소비 Energy Consumption per Capita		전력소비/ 최종에너지소비 Elec.Cons./TFEC	TPES/GDP	TPES/GDP (PPP)	CO <sub>2</sub> /TPES	CO <sub>2</sub> /Pop.	CO <sub>2</sub> /GDP	CO <sub>2</sub> /GDP (PPP)	
	1차에너지 TPES	전력소비 Electricity								
	MtofCO <sub>2</sub>	toe/capita	kWh/capita	%	toe/2015 USD	tCO <sub>2</sub> /toe	tCO <sub>2</sub> /capita	kgCO <sub>2</sub> /2015 USD		
38.02	2.63	5,121.10	25.74	0.32	0.12	2.07	5.45	0.66	0.25	Bulgaria
12.86	0.49	640.00	12.92	0.34	0.12	1.59	0.78	0.54	0.19	Cambodia
6.50	0.38	256.30	7.08	0.27	0.11	0.67	0.25	0.18	0.07	Cameroon
571.01	8.13	15,017.60	22.16	0.18	0.18	1.87	15.19	0.34	0.33	Canada
90.50	2.17	4,254.00	22.51	0.16	0.09	2.19	4.75	0.34	0.21	Chile
9,876.50	2.42	5,118.50	26.80	0.24	0.15	2.91	7.07	0.69	0.43	People's Rep. of China
74.88	0.90	1,533.50	18.78	0.14	0.06	1.70	1.53	0.23	0.11	Colombia
3.66	0.60	373.70	7.00	0.39	0.21	1.13	0.68	0.44	0.23	Congo
7.50	1.05	2,089.20	22.11	0.09	0.06	1.42	1.49	0.12	0.08	Costa Rica
10.74	0.41	293.70	8.37	0.18	0.07	1.01	0.42	0.18	0.08	Côte d'Ivoire
15.34	2.11	4,236.60	19.11	0.15	0.08	1.79	3.77	0.27	0.14	Croatia
25.17	0.84	1,524.30	20.63	0.10	0.03	2.63	2.22	0.27	0.09	Cuba
2.17	4.80	4,954.00	8.87	0.42	0.46	2.83	13.57	1.17	1.31	Curacao
6.40	2.57	5,659.40	25.07	0.10	0.07	2.83	7.28	0.27	0.20	Cyprus
94.31	4.01	6,526.80	18.64	0.20	0.11	2.21	8.84	0.44	0.23	Czech Republic
53.41	0.61	445.50	6.09	0.52	0.14	3.43	2.08	1.80	0.48	DPR of Korea
2.21	0.35	104.90	3.66	0.68	0.37	0.07	0.03	0.05	0.03	Dem. Rep. of the Congo
28.35	2.75	5,797.70	19.85	0.05	0.05	1.77	4.87	0.08	0.09	Denmark
25.19	0.92	1,609.20	21.97	0.11	0.05	2.56	2.35	0.28	0.13	Dominican Republic
35.35	0.89	1,506.20	17.51	0.15	0.08	2.30	2.04	0.35	0.19	Ecuador
225.48	0.96	1,597.50	22.10	0.24	0.07	2.34	2.25	0.56	0.18	Egypt
7.41	0.71	1,020.30	19.14	0.18	0.09	1.62	1.15	0.29	0.14	El Salvador
0.77	0.18	86.90	5.91	0.17	0.07	0.86	0.16	0.15	0.06	Eritrea
9.88	3.94	6,998.20	21.25	0.19	0.11	1.88	7.43	0.36	0.21	Estonia
14.76	0.40	95.90	2.25	0.50	0.19	0.33	0.13	0.16	0.06	Ethiopia
40.12	6.04	15,568.30	27.45	0.13	0.13	1.20	7.27	0.16	0.16	Finland
293.87	3.59	7,042.60	24.75	0.09	0.08	1.21	4.36	0.11	0.10	France
2.45	2.14	1,107.10	4.65	0.30	0.15	0.53	1.13	0.16	0.08	Gabon
9.31	1.37	3,312.30	22.59	0.29	0.10	1.83	2.50	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. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

1-2. 세계 에너지·경제통계(2019년)(계속)

	인구 Population	국내총생산 GDP		에너지 생산 Energy prod.	에너지 순수입 Net imports	1차에너지 공급 TPES <sup>1</sup>	최종에너지 소비 TFEC <sup>2</sup>	전력소비 Electricity consumption		가정에너지 소비 Residen. energy con.	수송에너지 소비 Transport. energy con.
		(PPP)						TWh	Mil.toe		
		millions	bil. USD(2015)								
독일	83.09	3,586.24	4,153.93	104.39	207.48	294.33	221.68	548.92	42.95	56.56	56.81
가나	30.42	61.47	180.40	16.76	-5.27	11.19	8.29	13.50	1.20	3.34	2.84
지브롤터	0.03	1.52	1.31	-	4.43	0.27	0.23	0.21	0.02	-	0.19
그리스	10.72	203.71	301.45	6.02	19.31	22.07	15.98	54.88	4.32	4.04	6.05
과테말라	16.60	70.51	144.64	9.57	6.23	14.55	12.09	11.16	0.92	7.49	3.12
아이티	11.26	9.00	18.82	3.52	1.04	4.53	3.46	0.42	0.04	2.60	0.49
온두라스	9.75	24.33	50.97	2.73	3.14	5.74	4.19	7.62	0.62	1.67	1.41
홍콩	7.51	333.46	443.30	0.14	30.79	14.09	8.14	47.58	3.86	1.35	2.72
형가리	9.77	146.98	309.74	11.01	18.61	26.66	20.14	43.45	3.47	5.67	5.05
아이슬란드	0.36	20.84	19.36	5.33	1.02	6.01	3.06	18.96	1.57	0.45	0.36
인도	1,366.42	2,716.81	9,246.96	580.16	365.50	937.94	629.81	1,349.29	112.74	160.08	105.03
인도네시아	270.63	1,049.34	3,227.42	470.41	-230.44	241.04	160.54	271.73	22.32	31.80	54.31
이란	82.91	408.99	1,133.20	351.52	-76.42	272.87	200.98	284.83	22.47	54.36	47.81
이라크	39.31	207.00	431.10	249.06	-193.27	55.24	23.25	51.49	3.82	5.57	11.56
아일랜드	4.93	371.86	413.93	4.08	10.25	13.64	11.39	29.31	2.44	2.82	4.06
이스라엘	9.05	345.52	342.25	8.04	15.57	21.69	15.82	63.57	5.17	2.25	6.06
이탈리아	60.34	1,914.72	2,336.20	34.41	122.49	148.97	117.72	314.18	25.10	31.04	35.86
자메이카	2.95	14.91	26.72	0.21	3.38	3.06	2.14	3.28	0.28	0.26	0.87
일본	126.14	4,592.15	5,372.14	49.83	377.09	415.31	279.11	1,000.88	79.76	41.87	69.33
요르단	10.10	41.20	93.65	0.63	9.05	9.23	6.47	18.39	1.61	1.49	3.07
카자흐스탄	18.51	211.11	466.45	166.94	-93.33	73.08	41.62	96.71	6.19	15.17	5.90
케냐	52.57	79.57	200.10	22.58	7.09	28.88	18.72	8.27	0.79	12.52	3.18
한국	51.71	1,634.87	2,156.26	48.36	246.79	280.19	181.93	562.49	45.04	20.59	36.65
코소보	1.79	7.56	20.09	1.85	0.81	2.67	1.57	5.23	0.41	0.59	0.43
쿠웨이트	4.21	114.23	180.63	162.08	-124.81	37.09	18.40	68.38	5.19	2.65	5.40
키르기스스탄	6.46	7.91	29.75	2.39	1.56	4.02	3.50	12.60	1.06	2.30	0.39
라트비아	1.91	30.57	55.38	2.83	2.17	4.49	4.02	7.13	0.57	1.19	1.11
레바논	6.86	47.32	93.28	0.27	8.65	8.63	5.27	19.44	1.67	1.03	2.86
리비아	6.78	40.47	114.02	77.03	-54.82	21.87	10.94	27.38	1.54	1.45	5.75
리투아니아	2.79	48.04	97.11	1.98	6.02	7.61	6.62	12.43	0.91	1.42	2.14
룩셈부르크	0.62	64.87	66.34	0.23	4.33	3.95	3.84	7.63	0.55	0.46	2.17

1. TPES: Total Primary Energy Supply. 세계 1차에너지는 국제버킹과 전력열 교역량을 포함.

2. TFEC: Total Final Energy Consumption

3. 연소에 의한 CO<sub>2</sub> 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제버킹 배출 포함.

자료: OECD iLibrary

1-2. Energy Indicators by Country(2019)(Continued)

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

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

2. TFEC: Total Final Energy Consumption

3. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

1-2. 세계 에너지·경제통계(2019년)(계속)

	인구	국내총생산		에너지 생산	에너지 순수입	1차에너지 공급	최종에너지 소비	전력소비		가정에너지 소비	수송에너지 소비
	Population	GDP		Energy prod.	Net imports	TPES <sup>1</sup>	TFEC <sup>2</sup>	Electricity consumption		Residen. energy con.	Transport. energy con.
	millions	bil. USD(2015)		Mtoe			TWh	Mil.toe	Mtoe		
			(PPP)								
말 레 이 시 아	31.95	363.72	906.14	97.91	-2.88	91.89	65.04	163.01	13.65	3.39	21.78
몰 타	0.50	13.48	20.27	0.02	3.08	0.73	0.55	2.55	0.21	0.09	0.25
모 리 셔 스	1.27	13.54	28.12	0.21	2.21	1.47	0.88	3.05	0.26	0.14	0.40
멕 시 코	125.78	1,254.38	2,387.22	149.28	35.16	183.71	115.77	304.98	24.08	17.69	50.04
몰 도 바	2.66	9.14	30.94	0.69	3.36	4.00	3.07	5.77	0.44	1.27	0.72
몽 골	3.23	14.11	38.78	27.99	-17.75	6.66	4.41	7.71	0.59	0.91	0.91
몬 테 네 그 로	0.62	4.76	11.93	0.74	0.37	1.09	0.80	3.19	0.26	0.24	0.26
모 로 코	36.47	112.29	274.36	2.25	20.57	22.25	16.76	34.02	2.88	4.19	6.21
모 잠 비 크	30.37	18.17	39.77	19.93	-8.86	11.09	8.35	13.72	1.10	5.34	1.21
미 안 마	54.05	83.82	287.55	28.85	-5.26	23.52	20.34	19.85	1.69	11.14	2.17
나 미 비 아	2.50	11.16	24.24	0.57	1.54	2.06	1.83	4.08	0.35	0.19	0.68
네 팔	28.61	26.61	88.41	10.64	3.57	14.11	13.93	6.62	0.57	10.50	1.54
네 델 란 드	17.35	840.25	934.98	32.99	56.58	71.54	56.92	116.86	9.42	9.20	10.93
뉴 질 랜 드	5.01	205.06	198.95	15.38	6.48	20.48	15.04	41.86	3.37	1.55	5.41
니 카 라 과	6.55	12.89	33.28	2.29	1.78	3.99	2.60	3.92	0.32	1.14	0.72
니 제 르	23.31	12.15	28.74	3.59	-0.09	3.40	3.11	1.36	0.11	2.54	0.39
나 이 지 리 아	200.96	510.98	1,015.50	258.66	-100.50	157.51	135.53	26.71	2.35	104.13	19.02
노 르 웨 이	5.35	406.90	330.36	194.46	-167.11	27.42	20.66	127.08	9.94	4.06	4.43
오 만	4.98	73.68	143.02	81.81	-56.40	23.44	23.83	34.62	2.91	1.56	4.09
파 키 스 탄	216.57	322.11	1,038.27	73.46	38.72	111.36	92.31	116.43	9.76	44.36	16.96
파 나 마	4.25	64.03	118.94	0.84	8.66	4.90	3.70	9.99	0.83	0.59	1.71
파 라 과 이	7.05	40.91	86.80	7.37	-0.11	7.19	6.48	13.23	1.10	1.76	2.62
페 루	32.51	214.85	399.14	24.59	1.21	25.91	20.71	50.66	4.28	3.85	9.05
필 리 핀	108.12	395.93	948.17	32.22	30.20	61.62	36.34	96.05	7.49	9.71	12.74
폴 란 드	38.39	570.12	1,217.51	59.32	48.79	102.72	74.49	165.66	12.07	17.96	22.75
포 르 투 갈	10.29	221.94	341.97	5.88	18.36	21.77	16.78	51.61	4.12	2.65	5.94
카 타 르	2.83	169.99	250.70	224.65	-178.40	41.35	20.49	47.10	3.75	1.84	4.05
루 마 니 아	19.36	217.06	523.02	24.54	10.03	32.94	24.59	54.64	3.92	7.73	6.59
러 시 아	144.37	1,445.49	3,738.32	1,529.95	-729.76	772.65	521.44	1,003.98	64.97	143.78	99.15
사 우 디 아 라 비 아	34.27	678.58	1,599.12	640.00	-426.44	214.58	139.77	354.48	25.28	12.82	45.57
세 네 갈	16.30	22.74	55.42	1.80	3.39	4.80	2.80	4.77	0.37	1.24	0.98

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

2. TFEC: Total Final Energy Consumption

3. 연소에 의한 CO<sub>2</sub> 배출량만이며, IEA 에너지밸런스 와 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제병커링 배출 포함.

자료: OECD iLibrary

1-2. Energy Indicators by Country(2019)(Continued)

CO <sub>2</sub> 배출량 <sup>3</sup> CO <sub>2</sub> Emiss. <sup>3</sup>	1인당 에너지 소비		전력소비/ 최종에너지소비 Elec.Cons./TFEC	TPES/GDP	TPES/GDP (PPP)	CO <sub>2</sub> /TPES	CO <sub>2</sub> /Pop.	CO <sub>2</sub> /GDP	CO <sub>2</sub> /GDP (PPP)	
	Energy Consumption per Capita									
	1차에너지 TPES	전력소비 Electricity								
MtoFCO <sub>2</sub>	toe/capita	kWh/capita	%	toe/2015 USD	tCO <sub>2</sub> /toe	tCO <sub>2</sub> /capita	kgCO <sub>2</sub> /2015 USD			
236.59	2.88	5,101.90	20.98	0.25	0.10	2.57	7.41	0.65	0.26	Malaysia
1.66	1.45	5,077.90	38.98	0.05	0.04	2.28	3.32	0.12	0.08	Malta
4.17	1.16	2,412.50	29.41	0.11	0.05	2.83	3.29	0.31	0.15	Mauritius
419.39	1.46	2,424.70	20.80	0.15	0.08	2.28	3.33	0.33	0.18	Mexico
8.28	1.50	2,171.60	14.31	0.44	0.13	2.07	3.11	0.91	0.27	Republic of Moldova
22.66	2.06	2,389.90	13.35	0.47	0.17	3.40	7.02	1.61	0.58	Mongolia
2.60	1.76	5,130.20	32.83	0.23	0.09	2.39	4.20	0.55	0.22	Montenegro
65.90	0.61	932.70	17.16	0.20	0.08	2.96	1.81	0.59	0.24	Morocco
6.55	0.37	451.80	13.22	0.61	0.28	0.59	0.22	0.36	0.16	Mozambique
35.13	0.44	367.30	8.31	0.28	0.08	1.49	0.65	0.42	0.12	Myanmar
3.81	0.83	1,635.00	18.98	0.18	0.09	1.85	1.52	0.34	0.16	Namibia
10.01	0.49	231.40	4.06	0.53	0.16	0.71	0.35	0.38	0.11	Nepal
146.32	4.12	6,737.30	16.55	0.09	0.08	2.05	8.43	0.17	0.16	Netherlands
33.40	4.09	8,350.30	22.43	0.10	0.10	1.63	6.67	0.16	0.17	New Zealand
4.88	0.61	598.80	12.28	0.31	0.12	1.22	0.75	0.38	0.15	Nicaragua
2.07	0.15	58.40	3.43	0.28	0.12	0.61	0.09	0.17	0.07	Niger
92.02	0.78	132.90	1.73	0.31	0.16	0.58	0.46	0.18	0.09	Nigeria
34.86	5.12	23,762.00	48.12	0.07	0.08	1.27	6.52	0.09	0.11	Norway
68.99	4.71	6,958.80	12.19	0.32	0.16	2.94	13.85	0.94	0.48	Oman
174.51	0.51	537.60	10.58	0.35	0.11	1.57	0.81	0.54	0.17	Pakistan
12.57	1.15	2,352.20	22.37	0.08	0.04	2.56	2.96	0.20	0.11	Panama
7.81	1.02	1,877.80	17.04	0.18	0.08	1.09	1.11	0.19	0.09	Paraguay
52.21	0.80	1,558.40	20.68	0.12	0.06	2.02	1.61	0.24	0.13	Peru
135.25	0.57	888.40	20.61	0.16	0.06	2.19	1.25	0.34	0.14	Philippines
287.38	2.68	4,315.60	16.21	0.18	0.08	2.80	7.49	0.50	0.24	Poland
42.41	2.12	5,017.10	24.53	0.10	0.06	1.95	4.12	0.19	0.12	Portugal
86.89	14.61	16,631.60	18.32	0.24	0.16	2.10	30.70	0.51	0.35	Qatar
70.09	1.70	2,822.70	15.94	0.15	0.06	2.13	3.62	0.32	0.13	Romania
1,640.33	5.35	6,954.10	12.46	0.53	0.21	2.12	11.36	1.13	0.44	Russian Federation
495.15	6.26	10,344.10	18.09	0.32	0.13	2.31	14.45	0.73	0.31	Saudi Arabia
8.52	0.29	292.50	13.35	0.21	0.09	1.77	0.52	0.37	0.15	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. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

## 1-2. 세계 에너지·경제통계(2019년)(계속)

	인구	국내총생산		에너지 생산 Energy prod.	에너지 순수입 Net imports	1차에너지 공급 TPES <sup>1</sup>	최종에너지 소비 TFEC <sup>2</sup>	전력소비		가정에너지 소비 Residen. energy con.	수송에너지 소비 Transport. energy con.
	Population	GDP						TWh	Mil.toe		
	millions	bil. USD(2015)		Mtoe							
세 르 비 아	6.95	45.45	121.44	10.22	5.50	15.29	9.05	33.34	2.41	2.85	2.30
싱 가 포 르	5.70	345.71	540.34	0.64	88.29	34.43	19.15	53.90	4.45	0.74	2.50
슬 로 바 키 아	5.45	98.91	181.37	7.04	11.86	17.06	11.28	28.44	2.17	2.62	2.81
슬 로 베 니 아	2.09	50.21	76.02	3.47	3.61	6.80	4.99	14.92	1.18	1.02	1.93
남 아 프 리 카	58.56	326.44	714.54	159.77	-14.69	140.13	69.09	224.56	16.09	12.54	19.21
남 수 단	11.06	11.27	15.79	8.92	-8.11	0.72	0.50	0.57	0.05	0.15	0.27
스 페 인	47.10	1,324.64	1,796.02	34.10	100.56	121.40	85.52	255.33	20.17	14.54	32.63
스 리 랑 카	21.80	92.18	277.16	5.21	7.94	12.09	10.29	14.94	1.27	3.43	3.38
수 단	42.81	77.21	204.09	18.09	1.88	19.77	12.75	13.09	1.18	5.76	3.48
수 리 남	0.58	4.69	8.79	0.95	0.15	1.05	0.70	1.78	0.15	0.10	0.30
스 웨 덴	10.28	549.82	523.77	37.11	15.75	49.03	32.46	131.44	10.71	7.36	7.03
스 위 스	8.58	757.91	590.23	13.06	13.44	24.44	18.12	63.06	4.92	5.09	5.69
시 리 아	17.07	17.88	39.48	4.44	5.21	9.27	5.52	13.55	1.08	1.22	1.85
대 만	23.77	578.58	1,128.23	11.55	102.72	109.51	69.79	265.21	21.17	5.91	12.06
타 지 키 스 탄	9.32	10.37	33.40	2.86	1.04	3.86	3.19	15.35	1.30	0.85	0.45
탄 자 니 아	58.01	60.31	149.42	19.77	2.53	22.15	19.06	7.00	0.57	13.56	1.64
태 국	69.63	460.53	1,247.72	75.09	70.40	138.60	102.42	200.06	16.61	9.51	26.99
토 고	8.08	5.09	12.45	2.73	0.62	3.29	2.13	1.36	0.11	1.46	0.35
트리니다드토바고	1.40	22.89	34.42	34.44	-17.10	17.12	12.35	8.76	0.72	0.36	0.92
튀 니 지	11.70	46.17	122.07	5.07	6.53	11.27	8.25	18.28	1.50	2.25	2.44
터 키	82.58	997.50	2,334.03	45.70	105.76	146.50	104.39	272.03	21.77	21.56	28.05
투르크메니스탄	5.94	45.72	97.31	81.08	-52.21	28.39	18.09	16.44	1.07	0.39	4.33
우 크 라 이 나	44.39	101.80	486.99	60.45	32.87	89.36	49.66	133.66	10.03	14.01	10.03
아랍에미리트	9.77	388.77	652.60	237.54	-161.61	52.63	56.86	131.43	10.81	3.81	12.11
영 국	66.80	3,115.36	2,944.40	121.65	64.11	170.66	127.31	317.28	25.40	38.03	41.13
미 국	328.53	9,974.53	19,974.53	2,309.79	-20.18	2,212.75	1,588.48	4,186.69	329.32	270.71	637.29
우 루 과 이	3.46	56.60	73.29	3.34	2.03	5.27	4.83	11.76	0.97	0.84	1.29
우즈베키스탄	33.58	100.97	244.92	54.47	-8.42	47.07	30.00	60.14	4.56	10.78	5.93
베네수엘라	28.52	251.89	559.50	80.71	-47.33	33.11	20.88	57.84	4.87	2.72	10.21
베 트 남	96.46	251.21	735.23	60.05	35.45	91.19	61.60	223.80	17.99	7.50	14.03
예 멘	29.16	36.78	119.21	2.73	1.55	4.16	2.52	2.85	0.19	0.71	1.14
잠 비 아	17.86	24.14	61.91	9.34	1.18	10.50	8.06	12.87	1.08	5.28	0.69

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

2. TFEC: Total Final Energy Consumption

3. 연소에 의한 CO<sub>2</sub> 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출. 세계 배출량은 국제빙커링 배출 포함.

자료: OECD iLibrary



1-2. Energy Indicators by Country(2019)(Continued)

CO <sub>2</sub> 배출량 <sup>3</sup> CO <sub>2</sub> Emiss. <sup>3</sup>	1인당 에너지 소비 Energy Consumption per Capita		전력소비/ 최종에너지소비 Elec.Cons./ TFEC	TPES/GDP	TPES/GDP (PPP)	CO <sub>2</sub> /TPES	CO <sub>2</sub> /Pop.	CO <sub>2</sub> /GDP	CO <sub>2</sub> /GDP (PPP)	
	1차에너지 TPES	전력소비 Electricity								
MtofCO <sub>2</sub>	toe/capita	kWh/capita	%	toe/2015 USD	tCO <sub>2</sub> /toe	tCO <sub>2</sub> /capita	kgCO <sub>2</sub> /2015 USD			
45.14	2.20	4,801.00	26.60	0.34	0.13	2.95	6.49	0.99	0.37	Serbia
47.38	6.04	9,449.30	23.22	0.10	0.06	1.38	8.31	0.14	0.09	Singapore
29.67	3.13	5,214.60	19.20	0.17	0.09	1.74	5.44	0.30	0.16	Slovak Republic
13.12	3.25	7,143.40	23.57	0.14	0.09	1.93	6.28	0.26	0.17	Slovenia
433.57	2.39	3,834.90	23.29	0.43	0.20	3.09	7.40	1.33	0.61	South Africa
1.70	0.07	51.30	9.22	0.06	0.05	2.35	0.15	0.15	0.11	South Sudan
230.91	2.58	5,420.50	23.58	0.09	0.07	1.90	4.90	0.17	0.13	Spain
22.70	0.55	685.10	12.32	0.13	0.04	1.88	1.04	0.25	0.08	Sri Lanka
18.49	0.46	305.60	9.27	0.26	0.10	0.94	0.43	0.24	0.09	Sudan
2.64	1.81	3,061.70	21.72	0.22	0.12	2.51	4.55	0.56	0.30	Suriname
33.65	4.77	12,786.80	32.99	0.09	0.09	0.69	3.27	0.06	0.06	Sweden
35.64	2.85	7,354.10	27.14	0.03	0.04	1.46	4.15	0.05	0.06	Switzerland
23.59	0.54	793.90	19.62	0.52	0.23	2.54	1.38	1.32	0.60	Syrian Arab Republic
255.96	4.61	11,155.30	30.33	0.19	0.10	2.34	10.77	0.44	0.23	Chinese Taipei
7.54	0.41	1,647.20	40.78	0.37	0.12	1.95	0.81	0.73	0.23	Tajikistan
10.71	0.38	120.80	3.01	0.37	0.15	0.48	0.18	0.18	0.07	United Rep. of Tanzania
251.41	1.99	2,873.40	16.22	0.30	0.11	1.81	3.61	0.55	0.20	Thailand
1.50	0.41	167.80	5.36	0.65	0.26	0.46	0.19	0.29	0.12	Togo
16.60	12.23	6,282.40	5.87	0.75	0.50	0.97	11.85	0.73	0.48	Trinidad and Tobago
26.19	0.96	1,563.40	18.13	0.24	0.09	2.32	2.24	0.57	0.21	Tunisia
366.42	1.77	3,294.20	20.86	0.15	0.06	2.50	4.44	0.37	0.16	Turkey
69.21	4.78	2,766.90	5.93	0.62	0.29	2.44	11.65	1.51	0.71	Turkmenistan
170.40	2.01	3,011.40	20.20	0.88	0.18	1.91	3.84	1.67	0.35	Ukraine
177.99	5.39	13,451.10	19.01	0.14	0.08	3.38	18.22	0.46	0.27	U.A.E
342.24	2.55	4,749.90	19.95	0.05	0.06	2.01	5.12	0.11	0.12	United Kingdom
4,744.45	6.74	12,743.80	20.73	0.11	0.11	2.14	14.44	0.24	0.24	United States
6.17	1.52	3,396.60	20.14	0.09	0.07	1.17	1.78	0.11	0.08	Uruguay
111.81	1.40	1,790.90	15.19	0.47	0.19	2.38	3.33	1.11	0.46	Uzbekistan
90.09	1.16	2,028.40	23.33	0.13	0.06	2.72	3.16	0.36	0.16	Venezuela
282.28	0.95	2,320.00	29.21	0.36	0.12	3.10	2.93	1.12	0.38	Viet Nam
9.60	0.14	97.70	7.70	0.11	0.03	2.31	0.33	0.26	0.08	Yemen
5.74	0.59	720.70	13.36	0.44	0.17	0.55	0.32	0.24	0.09	Zambia

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. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines.

CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD iLibrary

### 1-3. OECD 국가별 에너지 수입(2020년) Energy Imports of OECD Countries(2020)

	석탄	석유제품	천연가스	전력	합계	
	Coal	Oil	Natural gas	Electricity	Total	
Mtoe						
<b>O E C D 계</b>	<b>297.06</b>	<b>581.01</b>	<b>687.40</b>	<b>42.69</b>	<b>2834.75</b>	<b>OECD Total</b>
호 주	0.47	30.49	3.74	-	49.56	Australia
오스트리아	2.32	5.85	13.68	2.11	32.43	Austria
벨기에	2.76	24.41	17.91	1.15	76.45	Belgium
캐나다	4.66	8.63	19.87	0.84	74.11	Canada
칠레	6.07	8.03	4.09	-	26.06	Chile
체코	2.84	4.22	6.26	1.15	21.20	Czech Republic
덴마크	0.64	6.87	2.29	1.62	18.12	Denmark
에스토니아	0.01	2.12	0.35	0.63	3.13	Estonia
핀란드	1.78	5.57	2.11	1.86	23.13	Finland
프랑스	5.09	44.07	41.29	1.69	127.74	France
독일	20.60	35.02	66.47	4.13	213.51	Germany
그리스	0.19	3.99	4.99	0.85	37.14	Greece
헝가리	0.93	3.16	10.19	1.65	22.53	Hungary
아이슬란드	0.10	0.61	-	-	0.73	Iceland
아일랜드	0.23	5.06	2.90	0.15	11.49	Ireland
이스라엘	4.58	1.50	0.62	-	19.12	Israel
이탈리아	4.63	12.39	54.38	3.42	130.71	Italy
일본	113.72	43.52	94.33	-	370.24	Japan
한국	72.64	40.12	48.03	-	294.90	South Korea
라트비아	0.02	2.02	0.91	0.36	3.94	Latvia
룩셈부르크	0.04	2.36	0.62	0.56	3.72	Luxembourg
멕시코	1.11	43.23	52.82	0.86	98.44	Mexico
네덜란드	4.01	73.63	42.86	1.70	182.03	Netherlands
뉴질랜드	0.60	3.06	-	-	7.74	New Zealand
노르웨이	0.79	6.75	0.03	0.39	11.58	Norway
폴란드	7.63	7.93	14.47	1.77	58.39	Poland
포르투갈	0.01	2.82	5.13	0.65	20.65	Portugal
슬로바키아	1.95	1.46	3.60	1.14	13.94	Slovak Republic
슬로베니아	0.19	3.92	0.73	0.61	5.56	Slovenia
스페인	2.95	15.06	28.26	1.54	108.28	Spain
스웨덴	1.49	7.99	1.30	1.02	33.10	Sweden
스위스	0.08	6.44	2.85	2.32	14.85	Switzerland
터키	25.47	17.73	39.52	0.16	114.06	Turkey
영국	3.70	25.12	36.95	1.93	114.06	United Kingdom
미국	2.62	71.97	61.17	5.28	475.86	United States

자료: OECD iLibrary

1-4. OECD 국가별 에너지 수출(2020년)  
Energy Exports of OECD Countries(2020)

	석탄	석유제품	천연가스	전력	합계	
	Coal	Oil	Natural gas	Electricity	Total	
Mtoe						
<b>O E C D 계</b>	<b>350.93</b>	<b>629.96</b>	<b>437.17</b>	<b>43.66</b>	<b>2091.62</b>	<b>OECD Total</b>
호 주	251.77	3.97	92.67	-	363.13	Australia
오 스트 리 아	0.03	2.80	8.32	1.92	13.84	Austria
벨 기 에	0.29	24.24	2.90	1.21	31.42	Belgium
캐 나 다	19.14	19.60	59.80	5.78	299.44	Canada
칠 레	0.04	0.57	-	-	0.61	Chile
체 코	1.16	1.79	-	2.02	5.46	Czech Republic
덴 마 크	0.11	6.85	1.42	1.09	10.75	Denmark
에 스토 니 아	0.01	0.55	-	0.32	2.03	Estonia
핀 란 드	0.10	9.26	-	0.57	9.99	Finland
프 랑 스	0.01	13.08	8.17	5.54	27.71	France
독 일	1.44	22.01	-	5.76	32.0	Germany
그 리 스	-	19.0	0.03	0.08	19.24	Greece
헝 가 리	0.19	2.83	3.56	0.64	7.81	Hungary
아 이 스 랜 드	-	-	-	-	-	Iceland
아 일 랜 드	-	1.51	-	0.16	1.69	Ireland
이 스 라 엘	-	4.90	-	0.54	5.43	Israel
이 탈 리 아	0.21	22.47	0.26	0.65	25.32	Italy
일 본	2.27	9.57	-	-	11.84	Japan
한 국	-	62.27	-	-	62.33	South Korea
라 트 비 아	0.0	0.30	-	0.22	1.86	Latvia
룩셈부르크	-	0.0	-	0.09	0.11	Luxembourg
멕시코	0.0	7.30	0.0	0.51	69.67	Mexico
네덜란드	0.21	91.67	28.65	1.93	125.03	Netherlands
뉴질랜드	0.78	-	-	-	1.72	New Zealand
노르웨이	0.03	17.87	93.40	2.15	189.75	Norway
폴란드	7.59	4.47	1.16	0.63	14.62	Poland
포르투갈	0.05	5.17	-	0.52	6.25	Portugal
슬로바키아	0.03	3.78	-	1.12	5.07	Slovak Republic
슬로베니아	-	1.91	-	0.78	2.70	Slovenia
스페인	1.25	19.79	1.04	1.26	28.57	Spain
스웨덴	0.02	10.61	0.02	3.17	16.09	Sweden
스위스	0.0	0.44	-	2.80	3.25	Switzerland
터키	0.21	6.93	0.56	0.21	8.64	Turkey
영국	0.94	18.84	8.20	0.39	69.82	United Kingdom
미국	41.16	202.59	126.59	1.22	554.51	United States

자료: OECD iLibrary

## 1-5. OECD 국가별 최종에너지 소비(부문별, 2019년)

단위: 백만 toe

	산업 부문 Industry						국내항공 Domestic Aircraft	육상 Land
	농림어업 Agriculture, Forestry and Fisheries	제조업 Manufacturing	건설업 Construction	광업 Mining and quarrying	기타 Other	소계 Subtotal		
<b>O E C D 계</b>	<b>78.60</b>	<b>678.34</b>	<b>32.21</b>	<b>30.16</b>	<b>77.07</b>	<b>896.37</b>	<b>84.85</b>	<b>1118.57</b>
호 주	2.32	16.67	0.54	4.71	0.23	24.46	2.95	27.84
오 스 트 리 아	0.52	6.68	0.30	0.28	0.18	7.96	0.03	8.42
벨 기 에	0.90	10.13	0.21	0.05	0.35	11.64	0.0	8.49
캐 나 다	6.98	34.85	2.58	4.28	5.32	54.01	6.94	53.26
칠 레	0.68	3.04	0.24	4.79	2.50	11.25	0.63	8.57
체 코	0.63	5.98	0.18	0.08	0.36	7.23	0.05	6.42
덴 마 크	0.69	1.87	0.16	0.08	0.12	2.92	0.03	3.95
에 스토니아	0.11	0.39	0.05	0.01	0.02	0.58	0.0	0.81
핀 란 드	0.72	10.27	0.40	0.17	0.17	11.72	0.07	3.88
프 랑 스	4.37	24.27	1.53	0.40	1.30	31.87	1.73	42.01
독 일	3.59	50.27	2.49	0.35	2.61	59.31	0.73	53.79
그 리 스	0.29	2.25	0.13	0.09	0.11	2.88	0.22	5.15
형 가 리	0.68	3.84	0.29	0.04	0.31	5.15	0.0	4.83
아 이스 랜드	0.26	1.28	0.02	0.0	0.01	1.58	0.01	0.33
아 일 랜드	0.24	2.01	0.10	0.05	0.13	2.53	0.01	3.90
이 스 라 엘	0.32	0.50	-	0.19	2.23	3.25	0.03	5.95
이 탈 리 아	2.93	22.47	0.39	0.12	2.04	27.96	0.91	33.14
일 본	3.76	76.55	2.0	0.28	2.58	85.17	3.53	61.0
<b>한 국</b>	<b>2.73</b>	<b>42.57</b>	<b>0.74</b>	<b>0.20</b>	<b>3.68</b>	<b>49.92</b>	<b>1.10</b>	<b>34.83</b>
라 트 비 아	0.21	0.79	0.03	0.01	0.03	1.06	0.0	1.05
룩셈부르크	0.02	0.56	0.02	0.0	0.03	0.64	0.0	2.15
멕시코	4.21	17.49	0.23	1.53	14.40	37.85	0.01	48.61
네덜란드	4.11	12.72	0.70	0.11	0.35	17.99	0.01	10.48
뉴질랜드	0.67	3.05	0.17	0.09	1.25	5.23	0.34	4.92
노르웨이	0.42	5.66	0.33	0.10	0.05	6.56	0.35	3.30
폴란드	3.79	15.08	0.19	0.46	0.82	20.35	0.03	21.97
포르투갈	0.47	4.32	0.14	0.08	0.07	5.09	0.17	5.64
슬로바키아	0.13	3.28	0.02	0.06	0.16	3.66	-	2.55
슬로베니아	0.07	1.19	0.04	0.02	0.07	1.40	0.0	1.90
스페인	2.89	17.29	1.39	0.48	0.54	22.60	2.32	28.74
스웨덴	0.67	9.39	0.33	0.54	0.82	11.74	0.16	6.50
스위스	0.11	2.82	0.17	-	0.45	3.55	0.07	5.30
터키	4.66	24.97	0.64	0.39	4.93	35.59	1.20	25.95
영국	1.42	15.77	0.71	0.01	4.83	22.74	0.89	38.27
미국	21.43	220.57	14.59	9.03	23.82	289.44	60.29	531.60

자료: OECD iLibrary

1-5. Final Energy Consumption of OECD Countries(by Sector, 2019)

Unit: Million toe

수송부문 Transport				가정부문 Residential	상업·공공부문 Commercial and public services	기타 Other	합계 Total	
철도 Rail	국내수상 Domestic Shipping	기타 Other	소계 Subtotal					
<b>27.78</b>	<b>21.48</b>	<b>30.80</b>	<b>1283.49</b>	<b>707.83</b>	<b>491.64</b>	<b>408.54</b>	<b>3787.86</b>	<b>OECD Total</b>
1.44	0.78	0.84	33.86	10.59	8.14	5.30	82.34	Australia
0.20	0.0	0.34	9.0	6.53	2.49	2.04	28.02	Austria
0.16	0.15	0.04	8.84	7.81	4.54	7.29	40.13	Belgium
2.25	1.27	4.28	68.0	35.40	28.49	19.65	205.54	Canada
0.09	0.34	0.0	9.63	4.63	1.89	0.92	28.31	Chile
0.22	0.01	0.03	6.72	6.85	3.17	2.99	26.96	Czech Republic
0.11	0.12	0.07	4.28	4.17	1.94	0.20	13.51	Denmark
0.01	0.01	0.0	0.84	0.95	0.47	0.13	2.96	Estonia
0.09	0.13	0.01	4.17	5.09	2.97	1.63	25.58	Finland
0.85	0.50	0.11	45.21	37.37	21.56	14.07	150.07	France
1.24	0.27	0.78	56.81	56.56	27.05	21.95	221.68	Germany
0.03	0.64	0.0	6.05	4.04	1.86	1.15	15.98	Greece
0.14	0.01	0.07	5.05	5.67	2.06	2.22	20.14	Hungary
-	0.02	0.0	0.36	0.45	0.53	0.15	3.06	Iceland
0.04	0.09	0.02	4.06	2.82	1.74	0.25	11.39	Ireland
0.08	-	-	6.06	2.25	1.70	2.56	15.82	Israel
0.52	0.60	0.69	35.86	31.04	15.79	7.07	117.72	Italy
1.67	3.13	-	69.33	41.87	49.11	33.64	279.11	Japan
0.34	0.39	0.0	36.65	20.59	20.90	53.86	181.93	South Korea
0.05	0.0	0.0	1.11	1.19	0.57	0.10	4.02	Latvia
0.02	-	-	2.17	0.46	0.53	0.04	3.84	Luxembourg
0.74	0.68	-	50.04	17.69	4.31	5.88	115.77	Mexico
0.16	0.28	-	10.93	9.20	6.73	12.07	56.92	Netherlands
0.05	0.11	-	5.41	1.55	1.25	1.60	15.04	New Zealand
0.06	0.71	-	4.43	4.06	3.0	2.61	20.66	Norway
0.36	0.0	0.39	22.75	17.96	7.79	5.64	74.49	Poland
0.05	0.09	0.0	5.94	2.65	1.92	1.18	16.78	Portugal
0.04	-	0.23	2.81	2.62	1.21	0.99	11.28	Slovak Republic
0.03	-	0.0	1.93	1.02	0.45	0.20	4.99	Slovenia
0.38	1.03	0.16	32.63	14.54	10.16	5.59	85.52	Spain
0.23	0.14	-	7.03	7.36	4.03	2.30	32.46	Sweden
0.27	0.04	0.01	5.69	5.09	3.18	0.61	18.12	Switzerland
0.23	0.39	0.28	28.05	21.56	13.94	5.25	104.39	Turkey
1.09	0.87	-	41.13	38.03	17.11	8.30	127.31	United Kingdom
14.48	8.69	22.23	637.29	270.71	216.59	174.45	1588.48	United States

Source: OECD iLibrary

### 1-6. OECD 국가별 최종에너지 소비(원별, 2019년) Final Energy Consumption of OECD Countries(by Source, 2019)

단위: 백만 toe

Unit: Million toe

	석탄 Coal & peat	석유 Oil products	가스 Gas	신재생 Renewables	전력 Electricity	열 Heat	합계 <sup>1)</sup> Total <sup>1)</sup>	
<b>OECD 계</b>	<b>95.34</b>	<b>1767.42</b>	<b>796.21</b>	<b>225.83</b>	<b>831.65</b>	<b>60.83</b>	<b>3787.86</b>	<b>OECD Total</b>
호주	3.0	44.01	12.61	4.19	18.45	-	82.34	Australia
오스트리아	0.44	11.27	5.08	3.75	5.46	1.73	28.02	Austria
벨기에	1.33	18.81	10.45	1.84	7.05	0.48	40.13	Belgium
캐나다	2.56	93.17	52.68	10.85	45.54	0.57	205.54	Canada
칠레	0.23	15.34	2.40	3.97	6.37	-	28.31	Chile
체코	2.09	9.19	5.28	3.04	5.02	2.03	26.96	Czech Republic
덴마크	0.11	5.25	1.58	1.39	2.68	2.48	13.51	Denmark
에스토니아	0.03	1.14	0.24	0.44	0.63	0.46	2.96	Estonia
핀란드	0.57	7.10	0.75	6.16	7.02	3.92	25.58	Finland
프랑스	1.22	65.94	29.47	12.13	37.14	3.73	150.07	France
독일	6.15	90.53	55.80	15.36	42.95	9.63	221.68	Germany
그리스	0.20	8.73	1.32	1.36	4.32	0.05	15.98	Greece
헝가리	0.24	7.53	5.98	1.83	3.47	0.96	20.14	Hungary
아이슬란드	0.11	0.56	-	0.10	1.57	0.73	3.06	Iceland
아일랜드	0.42	6.07	1.97	0.44	2.44	-	11.39	Ireland
이스라엘	0.0	8.73	1.55	0.38	5.17	-	15.82	Israel
이탈리아	0.80	45.28	33.69	8.41	25.10	4.15	117.72	Italy
일본	20.78	142.67	28.86	4.60	79.76	0.54	279.11	Japan
<b>한국</b>	<b>7.92</b>	<b>97.50</b>	<b>21.79</b>	<b>1.99</b>	<b>45.04</b>	<b>5.50</b>	<b>181.93</b>	<b>South Korea</b>
라트비아	0.04	1.43	0.32	1.04	0.57	0.58	4.02	Latvia
룩셈부르크	0.04	2.36	0.62	0.16	0.55	0.09	3.84	Luxembourg
멕시코	2.51	69.19	12.30	7.68	24.08	-	115.77	Mexico
네덜란드	0.87	23.51	19.22	1.73	9.42	2.13	56.92	Netherlands
뉴질랜드	0.66	6.94	2.82	1.24	3.37	-	15.04	New Zealand
노르웨이	0.60	7.19	0.97	1.35	9.94	0.51	20.66	Norway
폴란드	9.55	29.12	11.19	6.16	12.07	5.58	74.49	Poland
포르투갈	0.01	8.28	1.81	2.22	4.12	0.25	16.78	Portugal
슬로바키아	0.83	3.42	2.93	1.20	2.17	0.55	11.28	Slovak Republic
슬로베니아	0.05	2.34	0.60	0.60	1.18	0.17	4.99	Slovenia
스페인	0.48	43.85	14.68	6.34	20.17	-	85.52	Spain
스웨덴	0.70	9.02	0.81	6.89	10.71	4.33	32.46	Sweden
스위스	0.09	8.33	2.77	1.20	4.92	0.52	18.12	Switzerland
터키	10.81	39.61	25.85	4.45	21.77	1.03	104.39	Turkey
영국	2.03	53.75	39.67	5.08	25.40	1.24	127.31	United Kingdom
미국	15.40	763.80	382.60	90.73	329.32	6.03	1588.48	United States

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

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

1-7. OECD 국가별 신재생에너지 공급 현황(2020년)  
Renewable Energies and Waste Supply of OECD Countries(2020)

단위: 천 toe

Unit: Thousand toe

	수력 Hydro	지열 Geothermal	태양광/열 Solar photovoltaic/ Thermal	풍력 Wind	바이오/해양 등 Bio/Tidal etc.	폐기물 Waste	합계 Total	
<b>O E C D 계</b>	<b>128.67</b>	<b>41.32</b>	<b>46.96</b>	<b>80.36</b>	<b>284.36</b>	<b>15.35</b>	<b>597.02</b>	<b>OECD Total</b>
호 주	1.27	-	2.25	1.75	5.82	-	11.09	Australia
오스트리아	3.61	0.02	0.35	0.58	5.42	0.19	10.18	Austria
벨기에	0.02	0.00	0.46	1.11	2.76	0.39	4.74	Belgium
캐나다	33.07	-	0.41	3.10	12.89	0.14	49.62	Canada
칠레	1.78	0.21	0.72	0.48	8.12	-	11.32	Chile
체코	0.18	-	0.21	0.06	4.31	0.10	4.86	Czech Republic
덴마크	0.00	0.00	0.18	1.41	3.86	0.54	5.99	Denmark
에스토니아	0.00	-	0.01	0.07	1.87	0.03	1.98	Estonia
핀란드	1.36	-	0.02	0.68	9.07	0.34	11.48	Finland
프랑스	5.35	0.46	1.36	3.50	13.84	1.22	25.74	France
독일	1.58	0.35	5.10	11.26	23.97	3.11	45.36	Germany
그리스	0.29	0.00	0.67	0.80	1.24	-	3.00	Greece
헝가리	0.02	0.16	0.23	0.06	2.41	0.07	2.94	Hungary
아일랜드	1.13	4.17	-	0.00	0.02	-	5.32	Iceland
아일랜드	0.08	-	0.02	0.99	0.47	0.15	1.71	Ireland
이스라엘	-	-	0.71	0.02	0.04	-	0.77	Israel
이탈리아	4.01	5.36	2.38	1.61	12.56	0.88	26.80	Italy
일본	6.93	2.56	6.95	0.74	9.51	0.34	27.04	Japan
한국	0.33	0.24	1.61	0.27	3.34	0.41	6.21	South Korea
라트비아	0.22	-	0.00	0.02	1.56	0.04	1.84	Latvia
룩셈부르크	0.01	-	0.02	0.03	0.30	0.01	0.37	Luxembourg
멕시코	2.31	2.70	1.49	1.69	8.69	-	16.88	Mexico
네덜란드	0.00	0.15	0.72	1.32	3.25	0.95	6.38	Netherlands
뉴질랜드	2.08	4.66	0.02	0.20	1.00	-	7.97	New Zealand
노르웨이	12.12	-	0.00	0.85	1.44	0.20	14.61	Norway
폴란드	0.18	0.03	0.25	1.36	7.98	0.12	9.92	Poland
포르투갈	1.07	0.20	0.25	1.05	3.00	0.11	5.68	Portugal
슬로바키아	0.38	0.01	0.06	0.00	1.58	0.02	2.05	Slovak Republic
슬로베니아	0.42	0.01	0.04	0.00	0.70	-	1.18	Slovenia
스페인	2.61	0.02	3.65	4.84	7.09	0.24	18.45	Spain
스웨덴	6.17	-	0.10	2.37	10.79	0.93	20.36	Sweden
스위스	3.26	0.00	0.28	0.01	1.38	0.59	5.52	Switzerland
터키	6.72	10.49	1.79	2.12	2.76	0.01	23.89	Turkey
영국	0.56	0.00	1.15	6.50	12.37	1.18	21.77	United Kingdom
미국	25.21	9.52	13.46	29.36	92.25	3.01	172.82	United States

자료: IEA, Extended World Energy Balance 2021.

Source: IEA, Extended World Energy Balance 2021.

## 2. 에너지통계 Energy Statistics

## 2-1. 세계 1차에너지 공급 Primary Energy Supply of World

단위: 백만toe

Unit: Million toe

	합계 Total	증감율 Growth Rate(%)	석유 Oil	천연가스 Natural Gas	석탄 Coal	원자력 Nuclear	수력 Hydro	신재생 Renewables
1981	6,582.9	-0.7%	2,870.2	1,308.5	1,818.6	189.2	392.0	4.4
1982	6,559.4	-0.4%	2,779.2	1,311.8	1,845.2	207.4	407.8	7.9
1983	6,645.5	1.3%	2,756.0	1,328.1	1,894.7	233.0	426.4	7.3
1984	6,966.0	4.8%	2,816.7	1,439.0	1,981.0	281.6	440.2	7.4
1985	7,169.8	2.9%	2,816.2	1,488.9	2,070.9	335.3	448.3	10.3
1986	7,329.8	2.2%	2,902.3	1,502.4	2,101.8	361.3	454.0	7.9
1987	7,581.5	3.4%	2,957.1	1,578.1	2,180.3	392.9	462.1	11.0
1988	7,866.8	3.8%	3,049.8	1,653.7	2,244.7	428.4	474.0	16.1
1989	8,031.4	2.1%	3,104.6	1,727.9	2,260.6	440.5	472.9	24.9
1990	8,118.1	1.1%	3,159.3	1,768.2	2,211.2	453.1	489.9	36.5
1991	8,166.9	0.6%	3,157.6	1,807.2	2,181.1	474.5	500.6	45.9
1992	8,229.9	0.8%	3,208.0	1,817.9	2,158.7	478.3	500.9	66.0
1993	8,282.5	0.6%	3,175.6	1,853.6	2,162.8	494.8	531.3	64.3
1994	8,393.2	1.3%	3,240.4	1,865.2	2,177.5	504.0	534.4	71.7
1995	8,565.2	2.0%	3,287.6	1,926.3	2,234.5	525.9	562.9	28.1
1996	8,816.4	2.9%	3,360.9	2,016.2	2,282.4	544.8	571.2	40.9
1997	8,915.4	1.1%	3,445.9	2,015.2	2,285.1	541.1	581.1	46.9
1998	8,969.0	0.6%	3,470.8	2,048.3	2,254.7	550.1	589.9	55.2
1999	9,126.6	1.8%	3,538.9	2,094.2	2,258.0	571.1	594.9	69.5
2000	9,356.4	2.5%	3,581.4	2,177.4	2,342.1	584.3	602.4	68.7
2001	9,461.5	1.1%	3,609.4	2,216.6	2,351.4	600.8	586.6	96.7
2002	9,677.7	2.3%	3,640.2	2,276.7	2,411.0	610.5	598.5	140.8
2003	10,031.2	3.7%	3,719.0	2,343.1	2,610.0	598.3	597.1	163.7
2004	10,525.1	4.9%	3,865.2	2,413.8	2,795.2	624.9	635.2	190.7
2005	10,893.6	3.5%	3,911.6	2,499.5	2,923.2	626.7	662.2	270.4
2006	11,220.3	3.0%	3,950.1	2,562.1	3,075.1	635.2	688.1	309.7
2007	11,588.4	3.3%	4,009.7	2,647.3	3,199.8	621.8	700.7	409.0
2008	11,738.5	1.3%	3,994.8	2,717.7	3,256.3	619.0	727.6	423.0
2009	11,549.9	-1.6%	3,921.6	2,655.7	3,238.7	614.1	737.7	382.1
2010	12,119.4	4.9%	4,038.2	2,864.1	3,464.0	626.4	782.1	344.7
2011	12,414.4	2.4%	4,081.4	2,914.2	3,628.8	600.4	794.7	395.0
2012	12,589.0	1.4%	4,138.9	2,986.3	3,723.7	559.9	833.6	346.6
2013	12,829.3	1.9%	4,179.1	3,052.8	3,867.0	563.7	861.6	283.0
2014	12,953.9	1.0%	4,251.6	3,081.5	3,911.2	575.5	884.3	316.6
2015	13,060.2	0.8%	4,341.0	3,146.7	3,784.7	582.7	883.2	366.7
2016	13,258.5	1.5%	4,557.3	3,073.2	3,706.0	591.2	913.3	417.4
2017	13,474.6	1.6%	4,662.1	3,309.4	3,772.1	611.3	948.8	561.3
2018	13,763.0	2.1%	4,572.7	3,311.8	3,792.7	577.1	891.8	616.8
2019	13,889.1	3.1%	4,583.2	3,356.8	3,765.1	595.4	900.2	688.4
2020	13,295.0	-3.4%	4,149.6	3,287.0	3,616.7	572.8	911.5	757.4

주: 1차에너지는 발전에 사용된 신재생에너지를 포함한 상업적 거래연료로 구성됨.

자료: BP Statistical Review of World Energy 2021.



2-2. 국별 1차에너지 공급(2020년) Primary Energy Supply by Country(2020)

단위: 억사줄

Unit: EJ(Exajoules)

	합계 Total	석유 Oil	천연가스 Natural Gas	석탄 Coal	원자력 Nuclear	수력 Hydro	신재생 Renewables	
<b>전세계</b>	<b>556.63</b>	<b>173.73</b>	<b>137.62</b>	<b>151.42</b>	<b>23.98</b>	<b>38.16</b>	<b>31.71</b>	<b>Total World</b>
Non-OECD	339.52	95.21	74.34	123.96	7.31	25.02	13.67	Non-OECD
OECD	217.11	78.52	63.28	27.46	16.67	13.14	18.04	OECD
중국	145.46	28.50	11.90	82.27	3.25	11.74	7.79	China
미국	87.79	32.54	29.95	9.20	7.39	2.56	6.15	US
유럽연합	55.74	20.03	13.68	5.91	6.11	3.04	6.97	European Union
인도	31.98	9.02	2.15	17.54	0.40	1.45	1.43	India
러시아연합	28.31	6.39	14.81	3.27	1.92	1.89	0.04	Russian Federation
일본	17.03	6.49	3.76	4.57	0.38	0.69	1.13	Japan
캐나다	13.63	4.26	4.05	0.50	0.87	3.42	0.54	Canada
독일	12.11	4.21	3.12	1.84	0.57	0.17	2.21	Germany
이란	12.03	3.31	8.39	0.07	0.06	0.19	0.01	Iran
브라질	12.01	4.61	1.16	0.58	0.14	3.52	2.01	Brazil
<b>한국</b>	<b>11.79</b>	<b>4.90</b>	<b>2.04</b>	<b>3.03</b>	<b>1.42</b>	<b>0.03</b>	<b>0.36</b>	<b>South Korea</b>
사우디아라비아	10.56	6.51	4.04	0.00	-	-	0.01	Saudi Arabia
프랑스	8.70	2.68	1.46	0.19	3.14	0.54	0.68	France
인도네시아	7.63	2.34	1.50	3.26	-	0.17	0.37	Indonesia
영국	6.89	2.39	2.61	0.19	0.45	0.06	1.20	United Kingdom
멕시코	6.48	2.46	3.11	0.21	0.10	0.24	0.36	Mexico
터키	6.29	1.82	1.67	1.66	-	0.69	0.45	Turkey
이탈리아	5.86	2.13	2.44	0.21	-	0.41	0.67	Italy
호주	5.57	1.83	1.47	1.69	-	0.13	0.45	Australia
태국	5.12	2.39	1.69	0.73	-	0.04	0.28	Thailand
스페인	4.97	2.21	1.17	0.07	0.52	0.24	0.77	Spain
남아프리카공화국	4.90	1.02	0.15	3.48	0.14	0.00	0.11	South Africa
대만	4.82	1.89	0.90	1.63	0.28	0.03	0.09	Taiwan
아랍에미리트	4.19	1.51	2.51	0.11	0.01	-	0.05	United Arab Emirates
말레이시아	4.11	1.38	1.37	1.14	-	0.18	0.04	Malaysia
베트남	4.09	0.98	0.31	2.10	-	0.61	0.08	Vietnam
폴란드	4.01	1.28	0.78	1.67	-	0.02	0.27	Poland
이집트	3.65	1.33	2.08	0.03	-	0.12	0.09	Egypt
파키스탄	3.47	0.88	1.48	0.62	0.08	0.36	0.04	Pakistan
싱가포르	3.42	2.93	0.45	0.02	-	-	0.01	Singapore
네덜란드	3.37	1.51	1.32	0.18	0.04	0.00	0.33	Netherlands
우크라이나	3.31	0.45	1.06	0.98	0.68	0.06	0.09	Ukraine
아르헨티나	3.15	1.03	1.58	0.03	0.09	0.27	0.13	Argentina
카자흐스탄	3.11	0.75	0.60	1.64	-	0.09	0.03	Kazakhstan

Note: Primary energy comprises commercially traded fuels including modern renewables used to generate electricity.  
Source: BP Statistical Review of World Energy 2021.

## 2-3. 지역별 1차에너지 공급

단위: 역사줄

	1970	1980	1990	2000	2010	2011	2012	2013
<b>전세계</b>	<b>204.20</b>	<b>279.40</b>	<b>342.14</b>	<b>394.47</b>	<b>505.38</b>	<b>517.64</b>	<b>524.61</b>	<b>534.32</b>
Non-OECD	60.82	103.83	144.90	164.19	271.19	285.90	295.10	302.69
OECD	143.38	175.57	197.24	230.28	234.19	231.74	229.51	231.63
유럽연합	45.02	58.31	62.57	64.33	65.07	63.12	62.36	61.82
<b>북미</b>	<b>73.42</b>	<b>87.28</b>	<b>96.18</b>	<b>113.87</b>	<b>113.50</b>	<b>113.49</b>	<b>111.14</b>	<b>113.92</b>
미국	65.35	74.44	81.00	95.13	92.91	92.05	89.62	92.04
캐나다	6.62	9.59	10.62	12.87	13.27	13.78	13.81	14.14
멕시코	1.44	3.25	4.56	5.86	7.31	7.66	7.71	7.74
<b>중남미</b>	<b>6.30</b>	<b>11.10</b>	<b>14.02</b>	<b>20.38</b>	<b>26.19</b>	<b>27.27</b>	<b>27.99</b>	<b>28.70</b>
브라질	1.59	3.93	5.36	8.04	10.95	11.46	11.67	12.10
아르헨티나	1.27	1.69	1.84	2.55	3.23	3.34	3.46	3.59
<b>유럽</b>	<b>57.50</b>	<b>72.08</b>	<b>90.01</b>	<b>87.42</b>	<b>88.53</b>	<b>86.50</b>	<b>86.18</b>	<b>85.29</b>
독일	12.99	15.23	15.05	14.31	13.70	13.20	13.37	13.74
프랑스	6.45	8.25	9.46	11.05	10.65	10.24	10.23	10.33
영국	9.18	8.56	9.01	9.57	8.92	8.43	8.53	8.48
이탈리아	5.02	6.17	6.66	7.53	7.27	7.13	6.92	6.60
<b>독립국가연합</b>	<b>31.63</b>	<b>48.29</b>	<b>45.65</b>	<b>31.70</b>	<b>35.23</b>	<b>36.71</b>	<b>37.10</b>	<b>36.53</b>
러시아	n/a	n/a	36.14	25.84	27.99	28.92	28.98	28.65
카자흐스탄	n/a	n/a	3.09	1.33	2.24	2.53	2.66	2.67
우즈베키스탄	n/a	n/a	1.87	2.15	1.88	1.95	1.93	1.96
<b>중동</b>	<b>2.56</b>	<b>5.25</b>	<b>10.74</b>	<b>17.09</b>	<b>29.33</b>	<b>30.63</b>	<b>31.84</b>	<b>32.68</b>
이란	0.60	1.46	2.92	5.03	8.72	9.11	9.21	9.55
사우디아라비아	0.95	1.51	3.34	4.81	8.74	9.18	9.74	9.78
이라크	0.13	0.34	0.82	1.08	1.45	1.54	1.63	1.76
<b>아프리카</b>	<b>3.14</b>	<b>6.12</b>	<b>9.38</b>	<b>11.50</b>	<b>15.99</b>	<b>16.04</b>	<b>16.64</b>	<b>17.10</b>
남아공	1.52	2.32	3.70	4.26	5.26	5.20	5.12	5.14
이집트	0.33	0.76	1.40	2.04	3.24	3.30	3.47	3.45
<b>아시아-태평양</b>	<b>29.65</b>	<b>49.28</b>	<b>76.16</b>	<b>112.51</b>	<b>196.60</b>	<b>206.99</b>	<b>213.73</b>	<b>220.09</b>
중국	8.49	17.48	28.70	42.45	104.29	112.54	117.05	121.38
인도	2.73	4.35	8.24	13.37	22.48	23.80	25.04	26.02
일본	11.73	15.28	18.67	22.33	21.11	20.02	19.89	19.73
한국	0.60	1.63	3.82	7.94	10.82	11.33	11.44	11.47
인도네시아	0.38	1.08	2.20	4.24	6.40	6.88	7.32	7.56

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

자료: BP Statistical Review of World Energy 2021.

2-3. Primary Energy Supply by Region

Unit: EJ(Exajoules)

2014	2015	2016	2017	2018	2019	2020	'20년 점유율 Share of total	
<b>539.56</b>	<b>544.41</b>	<b>551.74</b>	<b>561.82</b>	<b>576.13</b>	<b>581.51</b>	<b>556.63</b>	<b>100.0%</b>	<b>Total World</b>
309.91	314.16	320.58	328.54	339.28	347.04	339.52	61.0%	Non-OECD
229.65	230.25	231.16	233.28	236.85	234.48	217.11	39.0%	OECD
59.59	60.35	61.03	61.80	61.79	60.74	55.74	10.0%	European Union
<b>114.88</b>	<b>114.04</b>	<b>113.85</b>	<b>114.40</b>	<b>117.92</b>	<b>116.90</b>	<b>107.90</b>	<b>19.4%</b>	<b>Total North America</b>
92.99	92.09	91.96	92.26	95.64	94.90	87.79	15.8%	United States
14.19	14.26	14.11	14.24	14.44	14.45	13.63	2.4%	Canada
7.70	7.69	7.79	7.90	7.84	7.55	6.48	1.2%	Mexico
<b>28.89</b>	<b>28.97</b>	<b>28.53</b>	<b>28.75</b>	<b>28.58</b>	<b>28.33</b>	<b>26.19</b>	<b>4.7%</b>	<b>Total S. &amp; Cent. America</b>
12.38	12.20	11.89	12.04	12.12	12.42	12.01	2.2%	Brazil
3.59	3.66	3.63	3.64	3.59	3.38	3.15	0.6%	Argentina
<b>82.01</b>	<b>82.72</b>	<b>83.81</b>	<b>84.64</b>	<b>84.74</b>	<b>83.46</b>	<b>77.15</b>	<b>13.9%</b>	<b>Total Europe</b>
13.16	13.40	13.62	13.78	13.44	13.05	12.11	2.2%	Germany
9.89	9.95	9.79	9.72	9.88	9.67	8.70	1.6%	France
7.99	8.08	7.99	7.96	7.95	7.73	6.89	1.2%	United Kingdom
6.24	6.42	6.45	6.52	6.57	6.45	5.86	1.1%	Italy
<b>36.82</b>	<b>36.41</b>	<b>36.88</b>	<b>37.30</b>	<b>39.08</b>	<b>38.90</b>	<b>37.12</b>	<b>6.7%</b>	<b>Total CIS</b>
28.72	28.23	28.82	29.00	30.11	29.90	28.31	5.1%	Russia
2.73	2.74	2.73	2.94	3.24	3.15	3.11	0.6%	Kazakhstan
2.02	1.93	1.85	1.85	1.92	1.92	1.87	0.3%	Uzbekistan
<b>33.83</b>	<b>34.82</b>	<b>35.82</b>	<b>36.30</b>	<b>36.47</b>	<b>37.51</b>	<b>36.44</b>	<b>6.5%</b>	<b>Total Middle East</b>
9.98	9.93	10.40	10.79	11.42	11.97	12.03	2.2%	Iran
10.49	10.82	10.96	10.93	10.65	10.68	10.56	1.9%	Saudi Arabia
1.69	1.68	1.93	1.91	2.00	2.20	2.06	0.4%	Iraq
<b>17.75</b>	<b>18.09</b>	<b>18.59</b>	<b>19.03</b>	<b>19.50</b>	<b>19.87</b>	<b>18.58</b>	<b>3.3%</b>	<b>Total Africa</b>
5.20	5.09	5.33	5.30	5.10	5.21	4.90	0.9%	South Africa
3.44	3.52	3.69	3.80	3.85	3.86	3.65	0.7%	Egypt
<b>225.38</b>	<b>229.36</b>	<b>234.24</b>	<b>241.41</b>	<b>249.85</b>	<b>256.54</b>	<b>253.25</b>	<b>45.5%</b>	<b>Total Asia Pacific</b>
124.82	126.53	128.63	132.80	137.58	142.03	145.46	26.1%	China
27.79	28.68	29.95	31.14	33.14	33.89	31.98	5.7%	India
19.22	18.92	18.70	18.91	18.80	18.37	17.03	3.1%	Japan
11.57	11.75	12.03	12.27	12.43	12.25	11.79	2.1%	South Korea
7.02	7.09	7.17	7.47	8.07	8.65	7.63	1.4%	Indonesia

Note: Primary energy comprises commercially traded fuels including modern renewables used to generate electricity.  
Source: BP Statistical Review of World Energy 2020.

## 2-4. 원유 매장량

단위: 십억 배럴

	2000 at end 2000	2010 at end 2010	2019 at end 2019	2020 at end 2020	'20년 점유율 Share of total	가채년수 <sup>1</sup> R/P ratio <sup>1</sup>	
<b>전세계</b>	<b>1300.9</b>	<b>1636.9</b>	<b>1734.8</b>	<b>1732.4</b>	<b>100.0%</b>	<b>53.5</b>	<b>Total World</b>
Non-OECD	1038.2	1398.3	1473.3	1472.4	85.0%	66.9	Non-OECD
OPEC	835.6	1139.8	1216.0	1216.0	70.2%	106.8	OPEC
Non-OPEC	465.3	497.1	518.8	516.4	29.8%	24.6	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
<b>북미</b>	<b>236.5</b>	<b>220.3</b>	<b>243.9</b>	<b>242.9</b>	<b>14.0%</b>	<b>28.2</b>	<b>Total North America</b>
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
<b>중남미</b>	<b>96.0</b>	<b>320.1</b>	<b>324.0</b>	<b>323.4</b>	<b>18.7%</b>	<b>151.3</b>	<b>Total S. &amp; Cent. America</b>
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
에쿠아도르	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
<b>유럽</b>	<b>21.0</b>	<b>13.6</b>	<b>14.2</b>	<b>13.6</b>	<b>0.8%</b>	<b>10.4</b>	<b>Total Europe</b>
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
<b>독립국가연합</b>	<b>120.1</b>	<b>144.2</b>	<b>146.2</b>	<b>146.2</b>	<b>8.4%</b>	<b>29.6</b>	<b>Total CIS</b>
카자흐스탄	112.1	105.8	107.8	107.8	6.2%	27.6	Kazakhstan
아제르바이잔	5.4	30.0	30.0	30.0	1.7%	45.3	Azerbaijan
러시아	1.2	7.0	7.0	7.0	0.4%	26.7	Russia
투르크메니스탄	0.5	0.6	0.6	0.6	◆	7.6	Turkmenistan
우즈베키스탄	0.6	0.6	0.6	0.6	◆	34.7	Uzbekistan

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

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

자료: BP Statistical Review of World Energy 2020.

2-4. Proven Reserves of Crude Oil

Unit: Billion barrels

	2000 at end 2000	2010 at end 2010	2019 at end 2019	2020 at end 2020	'20년 점유율 Share of total	가채년수 <sup>1</sup> R/P ratio <sup>1</sup>	
<b>중동</b>	<b>696.7</b>	<b>765.9</b>	<b>836.0</b>	<b>835.9</b>	<b>48.3%</b>	<b>82.6</b>	<b>Total Middle East</b>
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
아랍에미리트	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
<b>아프리카</b>	<b>92.9</b>	<b>124.9</b>	<b>125.0</b>	<b>125.1</b>	<b>7.2%</b>	<b>49.8</b>	<b>Total Africa</b>
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
<b>아시아 태평양</b>	<b>37.7</b>	<b>47.8</b>	<b>45.3</b>	<b>45.2</b>	<b>2.6%</b>	<b>16.6</b>	<b>Total Asia Pacific</b>
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: \* Morethan 500 years, ^ Less than 0.05, ◆ Less than 0.05%

Source: BP Statistical Review of World Energy 2020.

## 2-5. 국별 원유 생산

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2019	2020	'20년 점유율 Share of total 2019	
<b>전세계</b>	<b>57,344.7</b>	<b>67,841.0</b>	<b>81,812.7</b>	<b>91,631.8</b>	<b>94,960.9</b>	<b>88,391.1</b>	<b>100.0%</b>	<b>Total World</b>
Non-OECD	37,041.8	46,489.2	61,385.6	67,015.4	65,968.4	60,174.7	68.1%	Non-OECD
Non-OPEC	41,613.7	40,793.1	47,089.9	54,955.0	59,496.8	57,275.4	64.8%	Non-OPEC
OPEC	15,730.9	27,047.9	34,722.8	36,676.8	35,464.1	31,115.7	35.2%	OPEC
OECD	20,302.9	21,351.8	20,427.1	24,616.4	28,992.5	28,216.4	31.9%	OECD
유럽연합	749.4	780.7	867.2	535.4	414.5	394.3	0.4%	European Union
<b>북미</b>	<b>15,305.2</b>	<b>13,778.5</b>	<b>13,707.3</b>	<b>19,763.4</b>	<b>24,362.9</b>	<b>23,521.1</b>	<b>26.6%</b>	<b>Total North America</b>
미국	10,580.4	8,321.6	6,900.8	12,788.8	17,072.4	16,475.7	18.6%	United States
캐나다	1,812.8	2,402.1	3,040.9	4,388.1	5,372.4	5,135.5	5.8%	Canada
멕시코	2,912.0	3,054.8	3,765.6	2,586.5	1,918.1	1,909.9	2.2%	Mexico
<b>중남미</b>	<b>3,721.4</b>	<b>5,779.0</b>	<b>7,337.4</b>	<b>7,758.1</b>	<b>6,205.7</b>	<b>5,840.9</b>	<b>6.6%</b>	<b>Total S. &amp; Cent. America</b>
브라질	561.0	714.9	1,705.6	2,525.0	2,876.2	3,025.6	3.4%	Brazil
베네수엘라	1,744.0	2,959.0	3,302.1	2,630.9	918.3	539.8	0.6%	Venezuela
<b>유럽</b>	<b>4,564.9</b>	<b>6,643.2</b>	<b>5,829.4</b>	<b>3,595.7</b>	<b>3,423.6</b>	<b>3,579.3</b>	<b>4.0%</b>	<b>Total Europe</b>
노르웨이	823.0	2,903.0	2,962.1	1,946.0	1,736.8	2,001.5	2.3%	Norway
영국	2,695.4	2,769.2	1,837.8	963.5	1,118.1	1,029.0	1.2%	United Kingdom
<b>독립국가연합</b>	<b>11,870.2</b>	<b>7,168.5</b>	<b>11,686.9</b>	<b>13,998.2</b>	<b>14,727.0</b>	<b>13,495.8</b>	<b>15.3%</b>	<b>Total CIS</b>
러시아	10,862.6	6,235.8	9,597.7	11,086.8	11,679.0	10,666.6	12.1%	Russia
카자흐스탄	484.8	450.4	1,294.6	1,694.8	1,918.6	1,810.9	2.0%	Kazakhstan
<b>중동</b>	<b>10,596.5</b>	<b>20,150.4</b>	<b>25,479.8</b>	<b>30,020.7</b>	<b>30,161.8</b>	<b>27,664.2</b>	<b>31.3%</b>	<b>Total Middle East</b>
사우디아라비아	3,601.0	8,973.5	10,838.6	11,997.9	11,832.3	11,039.0	12.5%	Saudi Arabia
이라크	1,425.3	530.3	1,833.0	3,986.0	4,779.5	4,113.7	4.7%	Iraq
아랍에미리트	1,211.1	2,444.0	2,945.5	3,898.0	3,998.6	3,656.5	4.1%	U.A.E
이란	2,205.2	3,743.8	4,217.5	3,852.8	3,399.0	3,084.0	3.5%	Iran
쿠웨이트	1,127.0	2,130.0	2,669.2	3,069.4	2,976.1	2,686.0	3.0%	Kuwait
카타르	315.2	460.9	1,147.9	1,932.5	1,862.7	1,809.2	2.0%	Qatar
<b>아프리카</b>	<b>5,368.8</b>	<b>7,050.2</b>	<b>9,777.4</b>	<b>8,118.4</b>	<b>8,451.8</b>	<b>6,864.6</b>	<b>7.8%</b>	<b>Total Africa</b>
나이지리아	1,498.9	1,948.6	2,482.0	2,201.4	2,102.4	1,797.6	2.0%	Nigeria
알제리아	1,087.0	1,309.5	1,989.9	1,557.7	1,486.6	1,331.9	1.5%	Algeria
앙골라	232.5	632.9	1,269.0	1,795.6	1,419.7	1,323.6	1.5%	Angola
<b>아시아·태평양</b>	<b>5,917.7</b>	<b>7,271.1</b>	<b>7,994.4</b>	<b>8,377.3</b>	<b>7,628.2</b>	<b>7,425.1</b>	<b>8.4%</b>	<b>Total Asia Pacific</b>
중국	2,508.3	2,992.6	3,642.0	4,308.8	3,836.0	3,900.7	4.4%	China
인도네시아	1,342.0	1,578.0	1,095.7	837.6	781.4	743.0	0.8%	Indonesia

주: 원유, 셰일유, 오일샌드, NGL 포함. 바이오매스와 석탄 파생물 등의 다른 에너지원의 액체연료는 제외.  
 자료: BP Statistical Review of World Energy 2021.

2-5. Crude Oil Production by Country

단위: 백만 톤

Unit: Million tonnes

	1985	1995	2005	2015	2019	2020	'20년 점유율 Share of total 2019	
<b>전세계</b>	<b>2,791.5</b>	<b>3,279.1</b>	<b>3,931.9</b>	<b>4,358.1</b>	<b>4,478.0</b>	<b>4,165.1</b>	<b>100.0%</b>	<b>Total World</b>
OECD	968.2	1,007.1	954.5	1,140.9	1,323.6	1,281.4	30.8%	OECD
Non-OECD	1,823.3	2,271.9	2,977.3	3,217.2	3,154.4	2,883.8	69.2%	Non-OECD
OPEC	765.7	1,315.7	1,674.9	1,749.0	1,679.1	1,474.2	35.4%	OPEC
Non-OPEC	2,025.8	1,963.4	2,257.0	2,609.1	2,798.8	2,691.0	64.6%	Non-OPEC
유럽연합	36.1	37.7	42.1	26.1	20.2	19.3	0.5%	European Union
<b>북미</b>	<b>730.2</b>	<b>645.7</b>	<b>638.2</b>	<b>911.0</b>	<b>1,106.2</b>	<b>1,060.0</b>	<b>25.4%</b>	<b>Total North America</b>
미국	498.7	383.6	309.0	567.4	747.8	712.7	17.1%	United States
캐나다	85.7	111.9	142.7	216.1	263.5	252.2	6.1%	Canada
멕시코	145.9	150.2	186.5	127.5	94.9	95.1	2.3%	Mexico
<b>중남미</b>	<b>192.6</b>	<b>300.1</b>	<b>374.7</b>	<b>398.4</b>	<b>318.3</b>	<b>300.3</b>	<b>7.2%</b>	<b>Total S. &amp; Cent. America</b>
브라질	29.5	37.5	89.0	132.2	150.8	159.2	3.8%	Brazil
베네수엘라	91.5	155.3	169.4	135.4	46.6	27.4	0.7%	Venezuela
<b>유럽</b>	<b>217.3</b>	<b>315.2</b>	<b>273.3</b>	<b>166.6</b>	<b>158.2</b>	<b>167.1</b>	<b>4.0%</b>	<b>Total Europe</b>
노르웨이	39.2	138.4	138.4	87.6	78.5	92.0	2.2%	Norway
영국	127.6	129.9	84.7	45.3	51.8	48.1	1.2%	United Kingdom
<b>독립국가연합</b>	<b>589.9</b>	<b>354.3</b>	<b>575.6</b>	<b>684.5</b>	<b>719.4</b>	<b>660.1</b>	<b>15.8%</b>	<b>Total CIS</b>
러시아	542.3	310.7	474.8	544.6	573.4	524.4	12.6%	Russia
카자흐스탄	22.7	20.6	61.5	80.2	91.0	86.1	2.1%	Kazakhstan
<b>중동</b>	<b>514.1</b>	<b>975.4</b>	<b>1,222.5</b>	<b>1,411.8</b>	<b>1,413.5</b>	<b>1,297.3</b>	<b>31.1%</b>	<b>Total Middle East</b>
사우디아라비아	172.1	431.3	516.6	568.0	556.6	519.6	12.5%	Saudi Arabia
이라크	69.8	26.0	89.9	195.6	234.2	202.0	4.9%	Iraq
아랍에미레이트	56.0	114.4	136.6	176.1	180.5	165.6	4.0%	U.A.E
이란	110.4	185.5	207.9	180.2	157.8	142.7	3.4%	Iran
쿠웨이트	55.5	104.9	130.4	148.2	143.4	130.1	3.1%	Kuwait
카타르	15.3	21.8	52.6	81.2	77.7	75.9	1.8%	Qatar
<b>아프리카</b>	<b>258.0</b>	<b>336.3</b>	<b>464.7</b>	<b>386.1</b>	<b>401.6</b>	<b>327.3</b>	<b>7.9%</b>	<b>Total Africa</b>
나이지리아	73.8	95.1	121.1	105.7	101.1	86.9	2.1%	Nigeria
알제리아	47.1	55.8	86.4	67.2	64.3	57.6	1.4%	Algeria
앙골라	11.5	31.2	62.4	88.2	69.1	64.5	1.5%	Angola
<b>아시아-태평양</b>	<b>289.4</b>	<b>352.3</b>	<b>382.9</b>	<b>399.8</b>	<b>360.8</b>	<b>353.1</b>	<b>8.5%</b>	<b>Total Asia Pacific</b>
중국	124.9	149.0	181.4	214.6	191.0	194.8	4.7%	China
인도네시아	66.3	76.5	53.7	40.6	38.2	36.4	0.9%	Indonesia

Note: Includes crude oil, shale oil, oil sands and NGLs(the liquid content of natural gas where this is recovered separately).  
Excludes liquid fuels from other sources such as biomass and coal derivatives.  
Source: BP Statistical Review of World Energy 2021.

## 2-6. 국별 석유제품 소비

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2019	2020	'20년 점유율 Share of total 2019	
<b>전세계</b>	<b>59,391.5</b>	<b>70,298.0</b>	<b>83,691.1</b>	<b>92,786.6</b>	<b>97,598.3</b>	<b>88,477.4</b>	<b>100.0%</b>	<b>Total World</b>
Non-OECD	21,145.1	24,703.8	33,746.4	47,836.3	51,542.0	48,195.1	54.5%	Non-OECD
OECD	38,246.4	45,594.2	49,944.7	44,950.3	46,056.4	40,282.3	45.5%	OECD
유럽연합	11,444.1	12,482.4	13,180.4	10,910.8	11,297.9	9,774.5	11.0%	European Union
<b>북미</b>	<b>18,782.3</b>	<b>21,255.7</b>	<b>24,891.2</b>	<b>22,905.7</b>	<b>23,710.3</b>	<b>20,772.4</b>	<b>23.5%</b>	<b>Total North America</b>
미국	15,726.4	17,634.4	20,531.5	18,524.4	19,475.4	17,177.6	19.4%	United States
캐나다	1,699.0	1,898.9	2,342.4	2,442.0	2,536.8	2,282.5	2.6%	Canada
멕시코	1,356.9	1,722.4	2,017.4	1,939.3	1,698.2	1,312.3	1.5%	Mexico
<b>중남미</b>	<b>3,138.8</b>	<b>4,207.4</b>	<b>5,066.6</b>	<b>6,376.5</b>	<b>5,888.7</b>	<b>5,273.8</b>	<b>6.0%</b>	<b>Total S. &amp; Cent. America</b>
브라질	1,052.3	1,552.6	1,894.2	2,557.9	2,438.4	2,322.5	2.6%	Brazil
아르헨티나	412.4	459.0	481.6	693.6	562.7	502.6	0.6%	Argentina
베네수엘라	418.1	484.0	659.3	696.9	295.9	241.6	0.3%	Venezuela
<b>유럽</b>	<b>15,593.8</b>	<b>15,998.1</b>	<b>16,742.4</b>	<b>14,319.3</b>	<b>14,826.2</b>	<b>12,787.5</b>	<b>14.5%</b>	<b>Total Europe</b>
독일	2,643.5	2,859.6	2,549.9	2,269.1	2,269.9	2,045.1	2.3%	Germany
프랑스	1,769.1	1,875.5	1,931.8	1,544.4	1,527.8	1,304.7	1.5%	France
영국	1,616.0	1,765.8	1,828.9	1,538.0	1,531.0	1,191.8	1.3%	United Kingdom
<b>독립국가연합</b>	<b>6,635.6</b>	<b>3,864.6</b>	<b>3,359.7</b>	<b>4,102.3</b>	<b>4,367.0</b>	<b>4,148.8</b>	<b>4.7%</b>	<b>Total CIS</b>
러시아	4,943.7	3,058.0	2,647.3	3,196.8	3,393.5	3,238.4	3.7%	Russia
카자흐스탄	421.1	242.4	193.2	363.6	387.2	379.4	0.4%	Kazakhstan
<b>중동</b>	<b>2,965.7</b>	<b>4,475.9</b>	<b>6,275.0</b>	<b>8,872.9</b>	<b>9,010.5</b>	<b>8,320.6</b>	<b>9.4%</b>	<b>Total Middle East</b>
사우디아라비아	993.2	1,354.3	2,112.5	3,878.7	3,634.7	3,543.8	4.0%	Saudi Arabia
이란	888.0	1,210.6	1,594.9	1,581.8	1,840.7	1,715.2	1.9%	Iran
아랍에미리트	169.1	395.8	495.7	949.3	968.9	797.5	0.9%	U.A.E
<b>아프리카</b>	<b>1,725.9</b>	<b>2,192.6</b>	<b>2,892.8</b>	<b>3,877.5</b>	<b>4,097.7</b>	<b>3,559.0</b>	<b>4.0%</b>	<b>Total Africa</b>
이집트	406.2	462.6	608.2	819.8	733.7	658.7	0.7%	Egypt
남아공	295.5	417.6	516.8	600.7	566.5	490.0	0.6%	South Africa
<b>아시아-태평양</b>	<b>10,549.5</b>	<b>18,303.7</b>	<b>24,463.4</b>	<b>32,332.5</b>	<b>35,697.9</b>	<b>33,615.3</b>	<b>38.0%</b>	<b>Total Asia Pacific</b>
중국	1,807.4	3,342.2	6,878.0	12,066.5	14,005.1	14,224.6	16.1%	China
인도	896.0	1,585.1	2,603.4	4,147.4	5,147.6	4,669.1	5.3%	India
일본	4,488.3	5,903.6	5,385.9	4,113.5	3,689.4	3,268.5	3.7%	Japan
한국	537.3	2,016.9	2,237.9	2,503.0	2,703.2	2,560.2	2.9%	South Korea
인도네시아	453.9	864.7	1,290.1	1,551.5	1,626.1	1,230.1	1.4%	Indonesia
싱가폴	230.0	605.8	796.0	1,328.6	1,401.4	1,332.4	1.5%	Singapore

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

2. 연료용 에탄올과 바이오디젤 소비량 포함.

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

자료: BP Statistical Review of World Energy 2021.



2-6. Petroleum Products Consumption by Country

단위: 백만 톤

Unit: Million tonnes

	1985	1995	2005	2015	2019	2020	'20년 점유율 Share of total 2019	
<b>전세계</b>	<b>2,818.9</b>	<b>3,297.2</b>	<b>3,890.7</b>	<b>4,237.8</b>	<b>4,422.7</b>	<b>4,006.7</b>	<b>100.0%</b>	<b>Total World</b>
OECD	1,774.3	2,103.9	2,300.6	2,028.0	2,064.5	1,796.8	44.8%	OECD
Non-OECD	1,044.6	1,193.2	1,590.1	2,209.9	2,358.2	2,209.9	55.2%	Non-OECD
유럽연합	555.9	600.6	635.4	517.7	535.5	462.5	11.5%	European Union
<b>북미</b>	<b>841.9</b>	<b>952.2</b>	<b>1,121.7</b>	<b>1,004.4</b>	<b>1,029.0</b>	<b>893.9</b>	<b>22.3%</b>	<b>Total North America</b>
미국	706.3	791.7	926.8	812.8	844.9	739.7	18.5%	United States
캐나다	74.6	84.7	104.4	106.8	110.4	98.1	2.4%	Canada
멕시코	60.9	75.8	90.5	84.9	73.7	56.1	1.4%	Mexico
<b>중남미</b>	<b>151.7</b>	<b>199.7</b>	<b>240.5</b>	<b>299.7</b>	<b>274.2</b>	<b>246.1</b>	<b>6.1%</b>	<b>Total S. &amp;C ent. America</b>
브라질	49.6	72.0	88.4	118.5	111.5	106.8	2.7%	Brazil
아르헨티나	20.1	21.9	22.5	32.7	26.8	24.3	0.6%	Argentina
베네수엘라	20.4	22.6	31.4	33.0	13.7	11.2	0.3%	Venezuela
<b>유럽</b>	<b>759.6</b>	<b>766.7</b>	<b>800.8</b>	<b>677.1</b>	<b>700.0</b>	<b>603.1</b>	<b>15.1%</b>	<b>Total Europe</b>
독일	126.3	135.1	120.4	106.7	106.6	96.2	2.4%	Germany
영국	77.5	82.2	83.8	70.7	70.7	54.7	1.4%	United Kingdom
프랑스	84.3	88.9	92.4	73.3	72.3	61.4	1.5%	France
<b>독립국가연합</b>	<b>332.9</b>	<b>191.4</b>	<b>159.5</b>	<b>187.1</b>	<b>198.3</b>	<b>187.9</b>	<b>4.7%</b>	<b>Total CIS</b>
러시아	247.4	150.6	125.0	145.4	153.9	146.3	3.7%	Russia
카자흐스탄	20.7	12.0	9.3	16.8	17.5	17.3	0.4%	Kazakhstan
<b>중동</b>	<b>143.1</b>	<b>213.1</b>	<b>286.3</b>	<b>389.8</b>	<b>390.8</b>	<b>361.2</b>	<b>9.0%</b>	<b>Total Middle East</b>
사우디아라비아	46.8	60.2	89.3	167.0	153.2	150.0	3.7%	Saudi Arabia
이란	43.4	58.7	75.6	70.4	80.2	75.3	1.9%	Iran
아랍에미리트	8.7	20.6	24.6	41.7	42.7	34.7	0.9%	U.A.E
<b>아프리카</b>	<b>84.3</b>	<b>105.5</b>	<b>137.5</b>	<b>182.4</b>	<b>190.1</b>	<b>165.1</b>	<b>4.1%</b>	<b>Total Africa</b>
이집트	20.8	23.3	29.3	39.0	34.1	30.7	0.8%	Egypt
남아공	14.1	20.0	24.8	28.6	27.0	23.3	0.6%	South Africa
<b>아시아-태평양</b>	<b>505.3</b>	<b>868.5</b>	<b>1,144.2</b>	<b>1,497.4</b>	<b>1,640.2</b>	<b>1,549.5</b>	<b>38.7%</b>	<b>Total Asia Pacific</b>
중국	89.7	160.2	327.9	568.0	654.3	669.2	16.7%	China
인도	43.3	75.2	120.9	193.9	236.5	213.1	5.3%	India
일본	210.2	274.8	248.5	187.9	168.3	149.0	3.7%	Japan
한국	26.1	94.8	100.6	109.2	116.4	110.6	2.8%	South Korea
인도네시아	21.8	41.5	60.9	69.8	72.1	53.2	1.3%	Indonesia
싱가폴	12.1	32.0	41.4	69.0	72.0	69.5	1.7%	Singapore

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

2. Consumption of fuel ethanol and biodiesel is also included.

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

Source: BP Statistical Review of World Energy 2021.

## 2-7. 원유가격 International Oil Market Prices

단위: 달러/배럴

Unit: Dollar/Barrel

	OPEC	Dubai <sup>1</sup>	Brent <sup>2</sup>	WTI <sup>3</sup>	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	15.65	18.23	19.67	16.01
1990	21.26	20.26	23.73	24.46	20.77
1991	17.70	16.63	20.00	21.53	17.09
1992	17.82	17.17	19.32	20.57	17.70
1993	15.64	14.93	16.97	18.45	15.79
1994	15.53	14.74	15.82	17.21	15.25
1995	16.86	16.10	17.02	18.42	16.40
1996	20.29	18.52	20.67	22.16	19.32
1997	18.76	18.23	19.09	20.61	18.63
1998	12.33	12.21	12.05	13.34	14.40
1999	17.45	17.33	17.41	18.03	19.30
2000	27.55	26.31	26.81	28.53	30.26
2001	23.19	22.84	22.93	24.86	25.96
2002	24.50	23.88	24.14	25.03	26.15
2003	28.17	26.80	27.41	28.48	30.99
2004	35.97	33.74	34.42	38.04	41.47
2005	50.65	49.59	50.59	55.25	56.70
2006	61.01	61.59	62.69	66.11	66.25
2007	69.46	68.34	68.83	72.66	72.41
2008	94.10	94.29	95.03	98.52	99.75
2009	60.86	61.92	62.24	62.67	62.09
2010	77.38	78.13	78.40	80.34	79.61
2011	107.44	105.98	106.73	110.91	95.11
2012	109.52	109.03	109.33	111.68	94.15
2013	105.94	105.25	105.51	108.70	98.05
2014	97.02	96.56	96.80	99.45	92.91
2015	51.22	50.69	51.08	53.60	48.76
2016	41.02	41.41	42.14	45.13	43.47
2017	53.02	53.18	53.48	54.74	50.85
2018	70.15	69.66	69.98	71.69	64.90
2019	63.71	63.53	63.91	64.16	57.04
2020	42.41	42.29	42.51	43.21	39.34

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

2. 1976-1983년 Forties 가격, 1984-2020년은 Brent 가격.

3. 1976-1983년은 공시가격, 1984-2020년은 현물가격.

자료: 한국석유공사, BP Statistical Review of World Energy 2021

2-8. 국별 석유 정제 능력 Refinery Capacities

단위: 천 배럴/일

Unit: Thousand Barrels per Day

	1985	1995	2005	2015	2019	2020	'20년 점유율 Share of total 2019	
<b>전세계</b>	<b>73,387</b>	<b>76,800</b>	<b>88,045</b>	<b>97,898</b>	<b>101,748</b>	<b>101,947</b>	<b>100%</b>	<b>Total World</b>
Non-OECD	31,917	34,570	42,322	53,111	56,207	57,143	56.1%	Non-OECD
OECD	41,470	42,230	45,723	44,787	45,541	44,804	43.9%	OECD
미국	15,459	15,333	17,339	18,317	18,974	18,143	17.8%	United States
중국	2,348	4,386	8,463	15,024	16,199	16,691	16.4%	China
유럽연합	14,241	13,476	14,387	12,871	12,770	12,663	12.4%	European Union
러시아	7,072	6,612	5,313	6,472	6,676	6,736	6.6%	Russia
인도	867	1,133	2,558	4,307	4,994	5,018	4.9%	India
한국	751	1,727	2,598	3,128	3,393	3,572	3.5%	South Korea
일본	4,724	5,006	4,531	3,721	3,343	3,285	3.2%	Japan
사우디아라비아	1,510	1,692	2,102	2,899	2,905	2,905	2.8%	Saudi Arabia
이란	1,085	1,405	1,692	2,075	2,495	2,475	2.4%	Iran
브라질	1,435	1,481	1,942	2,281	2,290	2,290	2.2%	Brazil
독일	2,198	2,104	2,322	2,049	2,085	2,085	2.0%	Germany
캐나다	1,880	1,792	1,896	1,931	2,054	2,065	2.0%	Canada
이탈리아	2,585	2,359	2,515	1,900	1,900	1,900	1.9%	Italy
스페인	1,312	1,308	1,377	1,562	1,586	1,586	1.6%	Spain
멕시코	1,263	1,444	1,463	1,522	1,558	1,558	1.5%	Mexico
싱가포르	1,043	1,175	1,420	1,514	1,514	1,514	1.5%	Singapore
아랍에미레이트	180	220	711	1,149	1,307	1,331	1.3%	U.A.E
베네수엘라	1,243	1,217	1,291	1,303	1,303	1,303	1.3%	Venezuela
영국	1,864	1,844	1,819	1,337	1,227	1,251	1.2%	United Kingdom
프랑스	2,184	1,728	1,978	1,375	1,245	1,245	1.2%	France
태국	166	477	1,078	1,252	1,235	1,245	1.2%	Thailand
네덜란드	1,478	1,257	1,274	1,298	1,291	1,229	1.2%	Netherlands
대만	570	732	1,159	988	1,083	1,131	1.1%	Taiwan
인도네시아	824	941	1,004	1,111	1,111	1,127	1.1%	Indonesia
말레이시아	209	365	522	612	625	955	0.9%	Malaysia
이라크	660	648	728	763	919	919	0.9%	Iraq
터키	466	713	613	596	822	822	0.8%	Turkey
쿠웨이트	584	824	936	936	736	800	0.8%	Kuwait
이집트	433	633	810	810	795	795	0.8%	Egypt
벨기에	569	669	756	776	776	776	0.8%	Belgium
알제리	440	434	443	651	657	657	0.6%	Algeria
폴란드	361	341	507	581	581	581	0.6%	Poland
아르헨티나	677	639	615	657	580	580	0.6%	Argentina

Source: BP Statistical Review of World Energy 2021

## 2-9. 액화천연가스 매장량

단위: 조 m<sup>3</sup>

	2000 at end 2000	2010 at end 2010	2019 at end 2019	2020 at end 2020	'20년 점유율 Share of total 2020	가채년수 <sup>1</sup> R/P ratio <sup>1</sup>	
<b>전세계</b>	<b>138.0</b>	<b>179.9</b>	<b>190.3</b>	<b>188.1</b>	<b>100.0%</b>	<b>48.80</b>	<b>Total World</b>
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
<b>북미</b>	<b>7.3</b>	<b>10.5</b>	<b>14.8</b>	<b>15.2</b>	<b>8.1%</b>	<b>13.65</b>	<b>Total North America</b>
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
<b>중남미</b>	<b>6.8</b>	<b>8.1</b>	<b>7.9</b>	<b>7.9</b>	<b>4.2%</b>	<b>51.66</b>	<b>Total S. &amp; Cent. America</b>
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
<b>유럽</b>	<b>5.4</b>	<b>4.7</b>	<b>3.3</b>	<b>3.2</b>	<b>1.7%</b>	<b>14.50</b>	<b>Total Europe</b>
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
<b>독립국가연합</b>	<b>38.6</b>	<b>51.3</b>	<b>56.8</b>	<b>56.6</b>	<b>30.1%</b>	<b>70.54</b>	<b>Total CIS</b>
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: BP Statistical Review of World Energy 2021

2-9. Proven Reserves of LNG

Unit: Trillion m<sup>3</sup>

	2000 at end 2000	2010 at end 2010	2019 at end 2019	2020 at end 2020	'20년 점유율 Share of total	가채년수 <sup>1</sup> R/P ratio <sup>1</sup>	
<b>중동</b>	<b>58.3</b>	<b>77.8</b>	<b>75.8</b>	<b>75.8</b>	<b>40.3%</b>	<b>110.41</b>	<b>Total Middle East</b>
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
<b>아프리카</b>	<b>11.9</b>	<b>14.0</b>	<b>14.9</b>	<b>12.9</b>	<b>6.9%</b>	<b>55.72</b>	<b>Total Africa</b>
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
<b>아시아-태평양</b>	<b>9.8</b>	<b>13.5</b>	<b>16.8</b>	<b>16.6</b>	<b>8.8%</b>	<b>25.40</b>	<b>Total Asia Pacific</b>
중국	1.4	2.7	8.4	8.4	4.5%	43.29	China
호주	1.7	2.9	2.4	2.4	1.3%	16.77	Australia
인도네시아	2.7	3.0	1.4	1.3	0.7%	19.83	Indonesia
인도	0.7	1.1	1.3	1.3	0.7%	55.57	India
미얀마	0.3	0.2	0.4	0.4	0.2%	24.45	Myanmar
말레이시아	1.1	1.0	0.9	0.9	0.5%	12.41	Malaysia
베트남	0.2	0.6	0.6	0.6	0.3%	74.14	Vietnam
파키스탄	0.5	0.6	0.4	0.4	0.2%	12.57	Pakistan
브루나이	0.4	0.3	0.2	0.2	0.1%	17.59	Brunei
태국	0.4	0.3	0.1	0.1	0.1%	4.37	Thailand
파푸아뉴기니	^	0.1	0.2	0.2	0.1%	13.69	Papua New Guinea
방글라데시	0.3	0.3	0.1	0.1	0.1%	4.46	Bangladesh

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

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

Source: BP Statistical Review of World Energy 2021

## 2-10. 국별 천연가스 생산

단위: 억사줄

	1970	1980	1990	2000	2010	2011	2012	2013
<b>전세계</b>	<b>35.14</b>	<b>51.42</b>	<b>70.91</b>	<b>86.43</b>	<b>113.43</b>	<b>117.29</b>	<b>119.77</b>	<b>121.18</b>
Non-OECD	9.05	21.44	40.90	48.44	72.72	75.85	77.03	78.11
OECD	26.09	29.99	30.01	37.99	40.71	41.44	42.73	43.07
유럽연합	3.35	5.94	5.13	4.67	4.52	4.23	4.10	4.10
<b>북미</b>	<b>22.91</b>	<b>22.37</b>	<b>22.08</b>	<b>26.22</b>	<b>27.93</b>	<b>29.54</b>	<b>30.61</b>	<b>30.96</b>
미국	20.57	18.90	17.40	18.67	20.71	22.22	23.37	23.60
캐나다	1.94	2.56	3.72	6.35	5.39	5.44	5.41	5.47
멕시코	0.40	0.90	0.95	1.20	1.84	1.88	1.83	1.89
<b>중남미</b>	<b>0.67</b>	<b>1.27</b>	<b>2.17</b>	<b>3.66</b>	<b>5.78</b>	<b>5.91</b>	<b>6.14</b>	<b>6.26</b>
아르헨티나	0.21	0.29	0.62	1.31	1.40	1.36	1.32	1.24
트리니다드토바고	0.06	0.10	0.20	0.50	1.45	1.39	1.39	1.39
베네수엘라	0.31	0.59	0.88	1.12	1.10	1.09	1.15	1.10
<b>유럽</b>	<b>3.78</b>	<b>8.23</b>	<b>8.76</b>	<b>11.16</b>	<b>11.16</b>	<b>10.25</b>	<b>10.35</b>	<b>10.08</b>
노르웨이	-	0.90	0.91	1.78	3.82	3.62	4.10	3.89
영국	0.39	1.31	1.71	4.08	2.08	1.66	1.41	1.33
네덜란드	1.01	2.88	2.28	2.21	2.71	2.50	2.46	2.61
<b>독립국가연합</b>	<b>6.75</b>	<b>14.84</b>	<b>26.31</b>	<b>23.19</b>	<b>26.64</b>	<b>27.91</b>	<b>27.51</b>	<b>28.02</b>
러시아	n/a	n/a	21.59	19.33	21.54	22.21	21.67	22.12
투르크메니스탄	n/a	n/a	2.85	1.53	1.44	2.03	2.12	2.12
우즈베키스탄	n/a	n/a	1.33	1.83	2.06	2.04	2.03	2.01
<b>중동</b>	<b>0.37</b>	<b>1.23</b>	<b>3.63</b>	<b>7.35</b>	<b>17.09</b>	<b>18.72</b>	<b>19.64</b>	<b>20.25</b>
이란	0.13	0.16	0.89	2.03	5.18	5.44	5.65	5.67
카타르	0.04	0.18	0.23	0.93	4.43	5.41	5.85	6.04
사우디아라비아	0.06	0.33	1.15	1.70	3.00	3.16	3.40	3.42
아랍에미레이트	0.03	0.26	0.71	1.35	1.80	1.84	1.91	1.92
<b>아프리카</b>	<b>0.11</b>	<b>0.89</b>	<b>2.60</b>	<b>4.86</b>	<b>7.26</b>	<b>7.22</b>	<b>7.44</b>	<b>7.17</b>
알제리	0.09	0.55	1.86	3.31	2.79	2.87	2.82	2.86
이집트	^	0.08	0.28	0.73	2.12	2.13	2.11	1.94
나이지리아	^	0.06	0.14	0.40	1.11	1.31	1.41	1.19
<b>아시아-태평양</b>	<b>0.54</b>	<b>2.59</b>	<b>5.37</b>	<b>9.99</b>	<b>17.57</b>	<b>17.73</b>	<b>18.08</b>	<b>18.44</b>
중국	0.10	0.52	0.56	0.99	3.48	3.82	4.01	4.39
말레이시아	-	0.09	0.65	1.79	2.34	2.41	2.49	2.61
인도네시아	0.05	0.68	1.60	2.54	3.13	2.98	2.82	2.79

주 : ^는 0.005 이하, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2021

2-10. Natural Gas Production by Country

Unit: EJ(Exajoules)

2014	2015	2016	2017	2018	2019	2020	'20년 점유율 Share of total	
<b>123.76</b>	<b>126.42</b>	<b>127.87</b>	<b>132.34</b>	<b>138.70</b>	<b>143.14</b>	<b>138.73</b>	<b>100.0%</b>	<b>Total World</b>
79.05	80.30	81.19	84.42	87.19	88.76	85.51	61.6%	Non-OECD
44.72	46.12	46.68	47.92	51.51	54.39	53.22	38.4%	OECD
3.60	3.03	2.96	2.76	2.48	2.20	1.72	1.2%	European Union
<b>32.94</b>	<b>34.16</b>	<b>33.95</b>	<b>34.50</b>	<b>37.90</b>	<b>40.69</b>	<b>39.96</b>	<b>28.8%</b>	<b>Total North America</b>
25.37	26.65	26.18	26.86	30.27	33.48	32.93	23.7%	United States
5.72	5.79	6.19	6.26	6.36	6.08	5.95	4.3%	Canada
1.85	1.73	1.57	1.38	1.27	1.13	1.08	0.8%	Mexico
<b>6.34</b>	<b>6.41</b>	<b>6.40</b>	<b>6.53</b>	<b>6.33</b>	<b>6.20</b>	<b>5.50</b>	<b>4.0%</b>	<b>Total S. &amp; Cent. America</b>
1.24	1.28	1.34	1.34	1.42	1.50	1.38	1.0%	Argentina
1.37	1.29	1.13	1.15	1.22	1.24	1.06	0.8%	Trinidad & Tobago
1.14	1.30	1.34	1.39	1.14	0.92	0.68	0.5%	Venezuela
<b>9.58</b>	<b>9.39</b>	<b>9.36</b>	<b>9.46</b>	<b>9.05</b>	<b>8.47</b>	<b>7.87</b>	<b>5.7%</b>	<b>Total Europe</b>
3.87	4.18	4.17	4.45	4.37	4.11	4.01	2.9%	Norway
1.35	1.46	1.50	1.51	1.47	1.42	1.42	1.0%	United Kingdom
2.17	1.65	1.59	1.37	1.16	1.00	0.72	0.5%	Netherlands
<b>27.41</b>	<b>27.18</b>	<b>27.23</b>	<b>28.81</b>	<b>30.29</b>	<b>30.89</b>	<b>28.89</b>	<b>20.8%</b>	<b>Total CIS</b>
21.28	21.04	21.21	22.88	24.09	24.45	22.99	16.6%	Russia
2.29	2.37	2.28	2.11	2.21	2.27	2.12	1.5%	Turkmenistan
2.03	1.93	1.91	1.92	2.06	2.06	1.69	1.2%	Uzbekistan
<b>20.97</b>	<b>21.63</b>	<b>22.47</b>	<b>23.02</b>	<b>23.88</b>	<b>24.42</b>	<b>24.72</b>	<b>17.8%</b>	<b>Total Middle East</b>
6.32	6.61	7.18	7.70	8.35	8.69	9.03	6.5%	Iran
6.10	6.33	6.28	6.14	6.09	6.20	6.17	4.4%	Qatar
3.50	3.57	3.79	3.93	4.04	4.00	4.04	2.9%	Saudi Arabia
1.90	2.11	2.14	2.14	2.09	2.09	2.00	1.4%	U.A.E
<b>7.33</b>	<b>7.49</b>	<b>7.63</b>	<b>8.26</b>	<b>8.69</b>	<b>8.78</b>	<b>8.33</b>	<b>6.0%</b>	<b>Total Africa</b>
2.89	2.93	3.29	3.35	3.38	3.13	2.93	2.1%	Algeria
1.69	1.53	1.45	1.76	2.11	2.34	2.10	1.5%	Egypt
1.44	1.71	1.53	1.70	1.74	1.77	1.78	1.3%	Nigeria
<b>19.20</b>	<b>20.16</b>	<b>20.85</b>	<b>21.77</b>	<b>22.56</b>	<b>23.70</b>	<b>23.47</b>	<b>16.9%</b>	<b>Total Asia Pacific</b>
4.72	4.88	4.97	5.37	5.81	6.39	6.98	5.0%	China
2.60	2.77	2.76	2.82	2.78	2.85	2.64	1.9%	Malaysia
2.75	2.74	2.70	2.62	2.62	2.43	2.27	1.6%	Indonesia

Note : ^ Less than 0.005, ◆ Less than 0.05%  
Source: BP Statistical Review of World Energy 2021

## 2-11. 국별 천연가스 소비

단위: 억사줄

	1970	1980	1990	2000	2010	2011	2012	2013
<b>전세계</b>	<b>34.61</b>	<b>51.26</b>	<b>70.14</b>	<b>86.38</b>	<b>113.78</b>	<b>116.49</b>	<b>119.54</b>	<b>121.49</b>
Non-OECD	8.96	19.32	34.19	37.87	57.86	60.77	62.53	63.29
OECD	25.66	31.94	35.95	48.51	55.92	55.71	57.01	58.20
유럽연합	3.44	8.24	10.49	12.92	15.22	14.01	13.76	13.48
<b>북미</b>	<b>22.30</b>	<b>21.81</b>	<b>21.87</b>	<b>27.13</b>	<b>29.03</b>	<b>29.89</b>	<b>31.02</b>	<b>32.07</b>
미국	20.70	19.21	18.61	22.62	23.33	23.70	24.77	25.45
캐나다	1.25	1.79	2.30	3.21	3.31	3.64	3.59	3.81
멕시코	0.36	0.80	0.97	1.29	2.38	2.55	2.65	2.80
<b>중남미</b>	<b>0.68</b>	<b>1.30</b>	<b>2.14</b>	<b>3.54</b>	<b>5.30</b>	<b>5.48</b>	<b>5.82</b>	<b>6.02</b>
아르헨티나	0.21	0.40	0.71	1.16	1.52	1.58	1.64	1.66
브라질	^	0.04	0.11	0.35	0.99	0.99	1.17	1.38
<b>유럽</b>	<b>3.91</b>	<b>10.11</b>	<b>17.38</b>	<b>20.11</b>	<b>22.43</b>	<b>20.90</b>	<b>20.37</b>	<b>19.96</b>
독일	0.58	2.20	2.29	2.99	3.17	2.91	2.92	3.06
영국	0.43	1.69	1.98	3.65	3.55	2.95	2.77	2.75
이탈리아	0.44	0.94	1.64	2.44	2.85	2.67	2.57	2.40
터키	-	-	0.12	0.50	1.29	1.51	1.56	1.58
프랑스	0.34	0.91	1.09	1.50	1.78	1.55	1.60	1.63
네덜란드	0.64	1.27	1.33	1.48	1.68	1.47	1.41	1.41
<b>독립국가연합</b>	<b>6.82</b>	<b>13.57</b>	<b>18.40</b>	<b>16.26</b>	<b>19.07</b>	<b>19.73</b>	<b>19.57</b>	<b>19.29</b>
러시아	n/a	n/a	14.91	13.18	15.26	15.68	15.43	15.30
우즈베키스탄	n/a	n/a	1.26	1.75	1.59	1.70	1.66	1.66
<b>중동</b>	<b>0.34</b>	<b>1.14</b>	<b>3.44</b>	<b>6.60</b>	<b>13.70</b>	<b>14.34</b>	<b>14.80</b>	<b>15.24</b>
이란	0.09	0.16	0.82	2.14	5.20	5.51	5.49	5.54
사우디아라비아	0.06	0.33	1.15	1.70	3.00	3.16	3.40	3.42
아랍에미레이트	0.03	0.17	0.59	1.10	2.13	2.22	2.30	2.33
<b>아프리카</b>	<b>0.06</b>	<b>0.67</b>	<b>1.44</b>	<b>2.00</b>	<b>3.53</b>	<b>3.82</b>	<b>4.13</b>	<b>4.21</b>
이집트	^	0.08	0.28	0.69	1.56	1.72	1.82	1.78
알제리아	0.04	0.39	0.70	0.69	0.91	0.96	1.08	1.16
<b>아시아-태평양</b>	<b>0.51</b>	<b>2.65</b>	<b>5.47</b>	<b>10.74</b>	<b>20.72</b>	<b>22.35</b>	<b>23.83</b>	<b>24.70</b>
중국	0.10	0.52	0.56	0.89	3.92	4.87	5.43	6.19
일본	0.13	0.91	1.81	2.72	3.60	4.03	4.44	4.45
인도	0.02	0.04	0.42	0.91	2.12	2.17	2.01	1.76
한국	-	-	0.11	0.71	1.62	1.74	1.89	1.98

주: ^는 0.005 이하, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2021



2-11. Natural Gas Consumption by Country

Unit: EJ(Exajoules)

2014	2015	2016	2017	2018	2019	2020	'20년 점유율 Share of total	
<b>122.40</b>	<b>125.22</b>	<b>128.11</b>	<b>131.53</b>	<b>138.16</b>	<b>140.54</b>	<b>137.62</b>	<b>100.0%</b>	<b>Total World</b>
65.12	66.76	68.44	71.10	74.67	75.74	74.34	54.0%	Non-OECD
57.28	58.45	59.67	60.43	63.50	64.80	63.28	46.0%	OECD
11.93	12.48	13.25	13.87	13.61	14.08	13.68	9.9%	European Union
<b>32.81</b>	<b>33.65</b>	<b>33.79</b>	<b>33.71</b>	<b>36.93</b>	<b>37.98</b>	<b>37.11</b>	<b>27.0%</b>	<b>Total North America</b>
26.00	26.77	26.97	26.64	29.58	30.57	29.95	21.8%	United States
3.97	3.98	3.83	3.97	4.19	4.24	4.05	2.9%	Canada
2.84	2.91	2.99	3.10	3.15	3.17	3.11	2.3%	Mexico
<b>6.21</b>	<b>6.40</b>	<b>6.27</b>	<b>6.35</b>	<b>6.09</b>	<b>5.88</b>	<b>5.24</b>	<b>3.8%</b>	<b>Total S. &amp; Cent. America</b>
1.66	1.68	1.74	1.74	1.75	1.68	1.58	1.1%	Argentina
1.46	1.55	1.34	1.35	1.29	1.29	1.16	0.8%	Brazil
<b>18.00</b>	<b>18.33</b>	<b>19.35</b>	<b>20.12</b>	<b>19.74</b>	<b>19.93</b>	<b>19.48</b>	<b>14.2%</b>	<b>Total Europe</b>
2.66	2.77	3.06	3.16	3.09	3.19	3.12	2.3%	Germany
2.52	2.59	2.90	2.83	2.86	2.78	2.61	1.9%	United Kingdom
2.12	2.32	2.43	2.58	2.49	2.55	2.44	1.8%	Italy
1.68	1.65	1.60	1.86	1.70	1.56	1.67	1.2%	Turkey
1.36	1.47	1.60	1.61	1.54	1.57	1.46	1.1%	France
1.24	1.23	1.27	1.30	1.28	1.33	1.32	1.0%	Netherlands
<b>19.38</b>	<b>19.02</b>	<b>19.34</b>	<b>19.73</b>	<b>20.90</b>	<b>20.67</b>	<b>19.38</b>	<b>14.1%</b>	<b>Total CIS</b>
15.20	14.71	15.14	15.52	16.36	16.00	14.81	10.8%	Russia
1.75	1.67	1.56	1.55	1.60	1.60	1.55	1.1%	Uzbekistan
<b>16.11</b>	<b>17.25</b>	<b>18.03</b>	<b>18.60</b>	<b>19.09</b>	<b>19.60</b>	<b>19.88</b>	<b>14.4%</b>	<b>Total Middle East</b>
6.24	6.62	7.07	7.38	7.91	8.04	8.39	6.1%	Iran
3.50	3.57	3.79	3.93	4.04	4.00	4.04	2.9%	Saudi Arabia
2.28	2.57	2.59	2.61	2.56	2.57	2.51	1.8%	U.A.E
<b>4.47</b>	<b>4.77</b>	<b>4.94</b>	<b>5.22</b>	<b>5.54</b>	<b>5.59</b>	<b>5.51</b>	<b>4.0%</b>	<b>Total Africa</b>
1.66	1.66	1.78	2.01	2.15	2.12	2.08	1.5%	Egypt
1.30	1.37	1.39	1.42	1.56	1.63	1.55	1.1%	Algeria
<b>25.42</b>	<b>25.79</b>	<b>26.40</b>	<b>27.81</b>	<b>29.87</b>	<b>30.89</b>	<b>31.02</b>	<b>22.5%</b>	<b>Total Asia Pacific</b>
6.78	7.01	7.54	8.69	10.22	11.10	11.90	8.6%	China
4.49	4.27	4.19	4.21	4.17	3.89	3.76	2.7%	Japan
1.75	1.72	1.83	1.93	2.09	2.13	2.15	1.6%	India
1.80	1.64	1.72	1.79	2.08	2.02	2.04	1.5%	South Korea

Note : ^ Less than 0.005, ◆ Less than 0.05%  
Source: BP Statistical Review of World Energy 2021

## 2-12. 석탄 매장량

단위: 백만 톤

	무연탄/역청탄 Anthracite & bituminous	아역청탄 Sub-bituminous & lignite	합계 Total	'20년 점유율 Share of Total	가채년수 R/P ratio	
<b>전세계</b>	<b>753,639</b>	<b>320,469</b>	<b>1,074,108</b>	<b>100.0%</b>	<b>139</b>	<b>Total World</b>
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
<b>북미</b>	<b>224,444</b>	<b>32,290</b>	<b>256,734</b>	<b>23.9%</b>	<b>484</b>	<b>Total North America</b>
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
<b>중남미</b>	<b>8,616</b>	<b>5,073</b>	<b>13,689</b>	<b>1.3%</b>	<b>240</b>	<b>Total S. &amp; Cent. America</b>
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
<b>유럽</b>	<b>59,084</b>	<b>78,156</b>	<b>137,240</b>	<b>12.8%</b>	<b>299</b>	<b>Total Europe</b>
독일	-	35,900	35,900	3.3%	334	Germany
우크라이나	32,039	2,336	34,375	3.2%	*	Ukraine
폴란드	22,530	5,865	28,395	2.6%	282	Poland
터키	550	10,975	11,525	1.1%	168	Turkey
세르비아	402	7,112	7,514	0.7%	189	Serbia
체코	1,081	2,514	3,595	0.3%	113	Czech Republic
헝가리	276	2,633	2,909	0.3%	475	Hungary
그리스	-	2,876	2,876	0.3%	205	Greece
불가리아	192	2,174	2,366	0.2%	192	Bulgaria
스페인	868	319	1,187	0.1%	282	Spain
루마니아	11	280	291	◆	19	Romania
영국	26	-	26	◆	16	United Kingdom

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

주: \*는 500년 이상, ◆는 0.05% 이하

자료: BP Statistical Review of World Energy 2021

2-12. Proven Reserves of Coal

Unit: Million tonnes

	무연탄/역청탄 Anthracite & bituminous	아역청탄 Sub-bituminous & lignite	합계 Total	'20년 점유율 Share of Total	가채년수 <sup>1</sup> R/P ratio <sup>1</sup>	
<b>독립국가연합</b>	<b>100,208</b>	<b>90,447</b>	<b>190,655</b>	<b>17.8%</b>	<b>367</b>	<b>CIS</b>
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
<b>중동-아프리카</b>	<b>15,974</b>	<b>66</b>	<b>16,040</b>	<b>1.5%</b>	<b>60</b>	<b>Total Middle East &amp; Africa</b>
남아공	9,893	-	9,893	0.9%	40	South Africa
중동	1,203	-	1,203	0.1%	*	Middle East
짐바브웨	502	-	502	◆	153	Zimbabwe
<b>아시아 태평양</b>	<b>345,313</b>	<b>114,437</b>	<b>459,750</b>	<b>42.8%</b>	<b>78</b>	<b>Total Asia Pacific</b>
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  
 Note: \* More than 500 years, ◆ less than 0.05%  
 Source: BP Statistical Review of World Energy 2021

## 2-13. 국별 석탄 생산

단위: 역사줄

	1981	1990	2000	2010	2011	2012	2013	2014
<b>전세계</b>	<b>77.21</b>	<b>94.80</b>	<b>96.48</b>	<b>150.84</b>	<b>161.85</b>	<b>163.71</b>	<b>166.66</b>	<b>166.07</b>
Non-OECD	36.16	48.72	54.07	106.85	117.46	120.00	123.23	121.65
OECD	41.05	46.08	42.41	43.99	44.39	43.70	43.43	44.42
유럽연합	14.80	13.37	8.26	6.45	6.57	6.59	6.24	5.99
<b>북미</b>	<b>19.46</b>	<b>24.35</b>	<b>24.65</b>	<b>23.88</b>	<b>24.15</b>	<b>22.53</b>	<b>21.87</b>	<b>22.15</b>
미국	18.42	22.54	22.79	22.09	22.27	20.72	20.05	20.33
캐나다	0.97	1.67	1.64	1.48	1.48	1.49	1.53	1.51
멕시코	0.07	0.14	0.23	0.31	0.39	0.31	0.30	0.30
<b>중남미</b>	<b>0.28</b>	<b>0.81</b>	<b>1.48</b>	<b>2.35</b>	<b>2.68</b>	<b>2.76</b>	<b>2.72</b>	<b>2.85</b>
콜롬비아	0.12	0.59	1.10	2.14	2.47	2.56	2.46	2.55
브라질	0.12	0.07	0.11	0.11	0.11	0.12	0.15	0.15
<b>유럽</b>	<b>18.86</b>	<b>20.55</b>	<b>11.62</b>	<b>9.60</b>	<b>9.94</b>	<b>9.96</b>	<b>9.44</b>	<b>8.60</b>
폴란드	4.31	4.19	3.01	2.32	2.33	2.42	2.39	2.26
독일	6.23	5.24	2.54	1.92	1.96	2.00	1.89	1.85
터키	0.29	0.49	0.52	0.73	0.75	0.71	0.65	0.68
우크라이나	n/a	3.63	1.52	1.35	1.52	1.64	1.60	1.09
체코	1.79	1.52	1.05	0.87	0.88	0.85	0.74	0.71
세르비아	n/a	n/a	n/a	0.30	0.33	0.31	0.32	0.24
<b>독립국가연합</b>	<b>14.50</b>	<b>10.34</b>	<b>6.50</b>	<b>8.39</b>	<b>8.77</b>	<b>9.31</b>	<b>9.51</b>	<b>9.56</b>
러시아	n/a	7.77	5.09	6.32	6.60	7.05	7.25	7.39
카자흐스탄	n/a	2.39	1.36	1.99	2.08	2.16	2.15	2.05
<b>중동</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>
<b>아프리카</b>	<b>3.28</b>	<b>4.40</b>	<b>5.46</b>	<b>6.15</b>	<b>6.11</b>	<b>6.36</b>	<b>6.38</b>	<b>6.59</b>
남아공	3.13	4.19	5.30	6.03	6.00	6.14	6.08	6.20
<b>아시아-태평양</b>	<b>20.80</b>	<b>34.32</b>	<b>46.73</b>	<b>100.45</b>	<b>110.16</b>	<b>112.76</b>	<b>116.72</b>	<b>116.30</b>
중국	13.01	22.61	29.61	69.72	77.53	78.44	79.32	78.05
인도네시아	0.01	0.26	1.90	6.79	8.72	9.52	11.71	11.30
인도네시아	2.67	4.45	6.38	10.57	10.49	10.68	10.71	11.28
호주	2.84	4.80	7.19	10.49	10.26	11.13	11.97	12.81
베트남	0.14	0.12	0.27	1.05	1.09	0.99	0.96	0.96
몽골	0.08	0.14	0.10	0.48	0.63	0.59	0.64	0.47
태국	0.02	0.15	0.22	0.21	0.25	0.20	0.20	0.19

주: 상업용 연료이며, ◆는 0.05% 이하.

자료: BP Statistical Review of World Energy 2021

## 2-13. Coal Production by Country

Unit: EJ(Exajoules)

2015	2016	2017	2018	2019	2020	'20년 점유율 Share of total	
<b>161.85</b>	<b>153.33</b>	<b>157.20</b>	<b>165.17</b>	<b>167.86</b>	<b>159.61</b>	<b>100.0%</b>	<b>Total World</b>
120.54	115.52	118.92	127.00	131.44	129.67	81.2%	Non-OECD
41.31	37.81	38.28	38.18	36.42	29.93	18.8%	OECD
5.83	5.44	5.39	5.20	4.56	3.79	2.4%	European Union
<b>19.64</b>	<b>16.33</b>	<b>17.30</b>	<b>16.90</b>	<b>15.66</b>	<b>11.76</b>	<b>7.4%</b>	<b>Total North America</b>
17.99	14.70	15.66	15.40	14.29	10.71	6.7%	United States
1.36	1.37	1.33	1.22	1.14	0.89	0.6%	Canada
0.29	0.25	0.31	0.28	0.23	0.15	0.1%	Mexico
<b>2.70</b>	<b>2.81</b>	<b>2.76</b>	<b>2.57</b>	<b>2.56</b>	<b>1.60</b>	<b>1.0%</b>	<b>Total S. &amp; Cent. America</b>
2.46	2.60	2.60	2.42	2.43	1.46	0.9%	Colombia
0.12	0.11	0.09	0.10	0.09	0.09	0.1%	Brazil
<b>7.90</b>	<b>7.56</b>	<b>7.25</b>	<b>7.28</b>	<b>6.48</b>	<b>5.53</b>	<b>3.5%</b>	<b>Total Europe</b>
2.22	2.18	2.08	1.98	1.87	1.68	1.1%	Poland
1.79	1.66	1.65	1.58	1.19	0.98	0.6%	Germany
0.54	0.65	0.63	0.69	0.73	0.60	0.4%	Turkey
0.72	0.76	0.57	0.59	0.58	0.54	0.3%	Ukraine
0.71	0.67	0.64	0.62	0.56	0.43	0.3%	Czech Republic
0.30	0.30	0.30	0.28	0.29	0.29	0.2%	Serbia
<b>9.84</b>	<b>10.10</b>	<b>10.78</b>	<b>11.52</b>	<b>11.47</b>	<b>10.58</b>	<b>6.6%</b>	<b>Total CIS</b>
7.80	8.12	8.62	9.23	9.23	8.37	5.2%	Russia
1.93	1.85	2.02	2.13	2.07	2.04	1.3%	Kazakhstan
<b>0.03</b>	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<b>0.05</b>	<b>0.05</b>	<b>◆</b>	<b>Total Middle East</b>
<b>6.33</b>	<b>6.42</b>	<b>6.66</b>	<b>6.87</b>	<b>6.84</b>	<b>6.47</b>	<b>4.1%</b>	<b>Total Africa</b>
5.96	6.01	5.97	6.01	6.21	5.97	3.7%	South Africa
<b>115.40</b>	<b>110.09</b>	<b>112.41</b>	<b>119.99</b>	<b>124.81</b>	<b>123.62</b>	<b>77.5%</b>	<b>Total Asia Pacific</b>
76.59	70.82	73.17	76.87	79.76	80.91	50.7%	China
11.39	11.25	11.38	13.76	15.20	13.88	8.7%	Indonesia
11.77	11.89	11.99	12.80	12.60	12.68	7.9%	India
12.80	12.83	12.50	13.09	13.21	12.42	7.8%	Australia
0.98	0.91	0.90	0.99	1.09	1.14	0.7%	Vietnam
0.46	0.67	0.94	1.04	1.09	0.82	0.5%	Mongolia
0.16	0.18	0.17	0.16	0.15	0.14	0.1%	Thailand

Note: Commercial solid fuels only, ◆ less than 0.05%  
Source: BP Statistical Review of World Energy 2021

## 2-14. 국별 석탄 소비

단위: 억사줄

	1970	1980	1990	2000	2010	2011	2012	2013	2014
<b>전세계</b>	<b>61.41</b>	<b>75.09</b>	<b>93.23</b>	<b>98.73</b>	<b>151.21</b>	<b>158.47</b>	<b>159.08</b>	<b>161.97</b>	<b>162.50</b>
Non-OECD	24.93	34.49	47.66	52.28	105.22	113.36	115.79	118.34	119.56
OECD	36.48	40.59	45.57	46.46	45.99	45.12	43.29	43.63	42.94
유럽연합	15.98	17.33	16.34	11.85	10.44	10.75	10.70	10.50	10.00
<b>북미</b>	<b>13.05</b>	<b>16.48</b>	<b>20.49</b>	<b>24.18</b>	<b>22.45</b>	<b>21.25</b>	<b>18.85</b>	<b>19.48</b>	<b>19.39</b>
미국	12.29	15.46	19.22	22.63	20.88	19.70	17.42	18.08	18.04
캐나다	0.71	0.93	1.14	1.28	1.03	0.93	0.89	0.86	0.82
멕시코	0.05	0.10	0.14	0.27	0.53	0.62	0.54	0.53	0.53
<b>중남미</b>	<b>0.30</b>	<b>0.45</b>	<b>0.66</b>	<b>0.88</b>	<b>1.18</b>	<b>1.26</b>	<b>1.32</b>	<b>1.45</b>	<b>1.52</b>
브라질	0.10	0.25	0.40	0.54	0.61	0.65	0.64	0.69	0.73
칠레	0.05	0.05	0.11	0.13	0.19	0.24	0.28	0.32	0.32
<b>유럽</b>	<b>20.61</b>	<b>21.19</b>	<b>23.97</b>	<b>16.56</b>	<b>15.34</b>	<b>15.99</b>	<b>16.34</b>	<b>15.81</b>	<b>14.84</b>
독일	6.24	5.92	5.51	3.57	3.23	3.28	3.37	3.47	3.33
폴란드	2.94	4.26	3.28	2.35	2.31	2.30	2.14	2.23	2.07
터키	0.19	0.29	0.67	0.94	1.32	1.42	1.53	1.32	1.51
우크라이나	n/a	n/a	3.48	1.61	1.60	1.74	1.79	1.73	1.49
체코	1.55	1.61	1.25	0.89	0.79	0.77	0.74	0.71	0.69
이탈리아	0.41	0.53	0.61	0.52	0.57	0.64	0.66	0.57	0.55
영국	4.02	2.98	2.72	1.54	1.29	1.32	1.63	1.55	1.25
<b>독립국가연합</b>	<b>13.07</b>	<b>14.13</b>	<b>9.62</b>	<b>5.28</b>	<b>5.29</b>	<b>5.57</b>	<b>5.84</b>	<b>5.52</b>	<b>5.39</b>
러시아	n/a	n/a	7.63	4.43	3.79	3.94	4.12	3.79	3.67
카자흐스탄	n/a	n/a	1.62	0.75	1.40	1.52	1.58	1.57	1.55
<b>중동</b>	<b>0.01</b>	<b>0.05</b>	<b>0.13</b>	<b>0.32</b>	<b>0.42</b>	<b>0.43</b>	<b>0.50</b>	<b>0.47</b>	<b>0.47</b>
<b>아프리카</b>	<b>1.30</b>	<b>1.96</b>	<b>3.16</b>	<b>3.47</b>	<b>4.19</b>	<b>4.13</b>	<b>4.02</b>	<b>4.07</b>	<b>4.26</b>
남아공	1.15	1.79	2.82	3.12	3.89	3.79	3.70	3.70	3.75
<b>아시아-태평양</b>	<b>13.07</b>	<b>20.82</b>	<b>35.19</b>	<b>48.04</b>	<b>102.34</b>	<b>109.85</b>	<b>112.20</b>	<b>115.19</b>	<b>116.62</b>
중국	6.95	12.74	22.08	29.56	73.22	79.71	80.71	82.44	82.49
인도	1.57	2.37	4.59	6.88	12.16	12.75	13.82	14.79	16.23
일본	2.53	2.44	3.27	4.00	4.87	4.62	4.88	5.07	4.99
인도네시아	^	0.01	0.14	0.55	1.65	1.96	2.22	2.39	1.89
한국	0.24	0.55	1.01	1.80	3.23	3.50	3.38	3.41	3.53
베트남	0.05	0.10	0.09	0.20	0.61	0.73	0.67	0.72	0.87
호주	0.83	1.17	1.60	2.13	2.19	2.13	2.00	1.89	1.88

주: 상업용 연료이며, ◆는 0.05% 이하.

자료: BP Statistical Review of World Energy 2021

2-14. Coal Consumption by Country

Unit: EJ(Exajoules)

2015	2016	2017	2018	2019	2020	'20년 점유율 Share of total	
<b>158.64</b>	<b>156.61</b>	<b>157.40</b>	<b>159.26</b>	<b>157.64</b>	<b>151.42</b>	<b>100.0%</b>	<b>Total World</b>
118.40	118.65	119.75	122.93	125.34	123.96	81.9%	Non-OECD
40.24	37.96	37.65	36.33	32.30	27.46	18.1%	OECD
9.99	9.58	9.44	9.03	7.32	5.91	3.9%	European Union
<b>16.94</b>	<b>15.55</b>	<b>15.29</b>	<b>14.50</b>	<b>12.52</b>	<b>9.91</b>	<b>6.5%</b>	<b>Total North America</b>
15.58	14.26	13.87	13.28	11.34	9.20	6.1%	United States
0.82	0.77	0.78	0.65	0.63	0.50	0.3%	Canada
0.53	0.52	0.64	0.57	0.54	0.21	0.1%	Mexico
<b>1.50</b>	<b>1.45</b>	<b>1.42</b>	<b>1.41</b>	<b>1.45</b>	<b>1.48</b>	<b>1.0%</b>	<b>Total S. &amp; Cent. America</b>
0.74	0.67	0.70	0.69	0.65	0.58	0.4%	Brazil
0.31	0.31	0.32	0.31	0.31	0.30	0.2%	Chile
<b>14.21</b>	<b>13.70</b>	<b>13.23</b>	<b>12.90</b>	<b>11.13</b>	<b>9.40</b>	<b>6.2%</b>	<b>Total Europe</b>
3.29	3.20	3.01	2.90	2.25	1.84	1.2%	Germany
2.04	2.07	2.08	2.09	1.86	1.67	1.1%	Poland
1.45	1.61	1.65	1.71	1.76	1.66	1.1%	Turkey
1.14	1.36	1.08	1.17	1.08	0.98	0.6%	Ukraine
0.68	0.69	0.65	0.65	0.60	0.49	0.3%	Czech Republic
0.52	0.46	0.40	0.37	0.28	0.21	0.1%	Italy
0.97	0.46	0.38	0.32	0.22	0.19	0.1%	United Kingdom
<b>5.45</b>	<b>5.33</b>	<b>5.22</b>	<b>5.56</b>	<b>5.45</b>	<b>5.17</b>	<b>3.4%</b>	<b>Total CIS</b>
3.86	3.74	3.51	3.63	3.57	3.27	2.2%	Russia
1.43	1.42	1.52	1.70	1.66	1.64	1.1%	Kazakhstan
<b>0.44</b>	<b>0.41</b>	<b>0.40</b>	<b>0.38</b>	<b>0.40</b>	<b>0.38</b>	<b>0.3%</b>	<b>Total Middle East</b>
<b>4.02</b>	<b>4.28</b>	<b>4.27</b>	<b>4.20</b>	<b>4.32</b>	<b>4.11</b>	<b>2.7%</b>	<b>Total Africa</b>
3.52	3.78	3.72	3.53	3.64	3.48	2.3%	South Africa
<b>116.07</b>	<b>115.90</b>	<b>117.57</b>	<b>120.30</b>	<b>122.37</b>	<b>120.97</b>	<b>79.9%</b>	<b>Total Asia Pacific</b>
80.94	80.21	80.59	81.11	81.79	82.27	54.3%	China
16.55	16.84	17.44	18.59	18.60	17.54	11.6%	India
5.03	5.02	5.10	4.99	4.91	4.57	3.0%	Japan
2.14	2.23	2.39	2.84	3.41	3.26	2.2%	Indonesia
3.58	3.41	3.61	3.63	3.44	3.03	2.0%	South Korea
1.10	1.19	1.19	1.58	2.07	2.10	1.4%	Vietnam
1.95	1.94	1.88	1.83	1.75	1.69	1.1%	Australia

Note: Commercial solid fuels only, ◆ less than 0.05%  
Source: BP Statistical Review of World Energy 2021

## 2-15. 국별 원자력 소비

단위: 역사줄

	1970	1980	1990	2000	2010	2011	2012	2013
<b>전세계</b>	<b>0.79</b>	<b>7.12</b>	<b>20.00</b>	<b>25.81</b>	<b>25.99</b>	<b>24.75</b>	<b>22.91</b>	<b>22.95</b>
OECD	0.73	6.19	17.34	22.50	21.61	20.14	18.19	18.21
Non-OECD	0.06	0.93	2.67	3.31	4.38	4.61	4.72	4.74
유럽연합	0.17	1.85	7.29	8.60	8.02	7.82	7.53	7.43
<b>북미</b>	<b>0.24</b>	<b>3.02</b>	<b>6.83</b>	<b>8.74</b>	<b>8.87</b>	<b>8.72</b>	<b>8.46</b>	<b>8.71</b>
미국	0.23	2.64	6.07	7.94	7.97	7.76	7.51	7.66
캐나다	0.01	0.38	0.72	0.72	0.85	0.87	0.87	0.95
멕시코	-	-	0.03	0.08	0.06	0.09	0.08	0.11
<b>중남미</b>	<b>^</b>	<b>0.02</b>	<b>0.10</b>	<b>0.12</b>	<b>0.20</b>	<b>0.21</b>	<b>0.21</b>	<b>0.20</b>
브라질	-	-	0.02	0.06	0.14	0.15	0.15	0.14
아르헨티나	-	0.02	0.07	0.06	0.07	0.06	0.06	0.06
<b>유럽</b>	<b>0.45</b>	<b>2.37</b>	<b>8.94</b>	<b>10.49</b>	<b>9.69</b>	<b>9.55</b>	<b>9.26</b>	<b>9.09</b>
프랑스	0.06	0.61	3.14	4.15	4.02	4.13	3.94	3.91
우크라이나	n/a	n/a	0.76	0.77	0.84	0.84	0.84	0.77
독일	0.06	0.56	1.53	1.70	1.32	1.01	0.92	0.90
스페인	0.01	0.05	0.54	0.62	0.58	0.54	0.57	0.52
스웨덴	^	0.26	0.68	0.57	0.54	0.56	0.59	0.61
영국	0.26	0.37	0.66	0.85	0.58	0.64	0.65	0.65
벨기에	^	0.13	0.43	0.48	0.45	0.45	0.37	0.39
체코	-	-	0.13	0.14	0.26	0.26	0.28	0.28
스위스	0.02	0.14	0.23	0.26	0.25	0.25	0.24	0.24
핀란드	-	0.07	0.19	0.23	0.22	0.22	0.22	0.22
<b>독립국가연합</b>	<b>0.04</b>	<b>0.74</b>	<b>1.18</b>	<b>1.33</b>	<b>1.62</b>	<b>1.64</b>	<b>1.67</b>	<b>1.61</b>
러시아	n/a	n/a	1.18	1.31	1.60	1.61	1.65	1.59
<b>중동</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>^</b>	<b>0.01</b>	<b>0.04</b>
이란	-	-	-	-	-	^	0.01	0.04
<b>아프리카</b>	<b>-</b>	<b>-</b>	<b>0.08</b>	<b>0.13</b>	<b>0.13</b>	<b>0.12</b>	<b>0.12</b>	<b>0.13</b>
남아공	-	-	0.08	0.13	0.13	0.12	0.12	0.13
<b>아시아-태평양</b>	<b>0.06</b>	<b>0.97</b>	<b>2.87</b>	<b>5.00</b>	<b>5.47</b>	<b>4.51</b>	<b>3.18</b>	<b>3.17</b>
중국	-	-	-	0.17	0.70	0.81	0.91	1.03
한국	-	0.03	0.53	1.09	1.39	1.44	1.39	1.28
인도	0.01	0.02	0.06	0.16	0.22	0.30	0.31	0.31
일본	0.05	0.83	1.95	3.19	2.74	1.52	0.17	0.13

주: ^은 0.05 이하

자료: BP Statistical Review of World Energy 2021



2-15. Nuclear Energy Consumption by Country

Unit: EJ(Exajoules)

2014	2015	2016	2017	2018	2019	2020	'20년 점유율 Share of total 2020	
<b>23.28</b>	<b>23.46</b>	<b>23.66</b>	<b>23.74</b>	<b>24.13</b>	<b>24.93</b>	<b>23.98</b>	<b>100.0%</b>	<b>Total World</b>
18.22	17.98	17.86	17.64	17.59	17.78	16.67	69.5%	OECD
5.07	5.47	5.80	6.10	6.54	7.15	7.31	30.5%	Non-OECD
7.45	7.17	6.95	6.84	6.82	6.82	6.11	25.5%	European Union
<b>8.75</b>	<b>8.67</b>	<b>8.69</b>	<b>8.63</b>	<b>8.58</b>	<b>8.59</b>	<b>8.35</b>	<b>34.8%</b>	<b>Total North America</b>
7.69	7.64	7.68	7.63	7.60	7.60	7.39	30.8%	United States
0.98	0.92	0.91	0.91	0.90	0.90	0.87	3.6%	Canada
0.09	0.11	0.10	0.10	0.09	0.10	0.10	0.4%	Mexico
<b>0.19</b>	<b>0.20</b>	<b>0.22</b>	<b>0.20</b>	<b>0.20</b>	<b>0.22</b>	<b>0.23</b>	<b>1.0%</b>	<b>Total S. &amp; Cent. America</b>
0.14	0.13	0.14	0.14	0.14	0.14	0.14	0.6%	Brazil
0.05	0.06	0.08	0.05	0.06	0.08	0.09	0.4%	Argentina
<b>9.09</b>	<b>8.82</b>	<b>8.53</b>	<b>8.43</b>	<b>8.38</b>	<b>8.29</b>	<b>7.44</b>	<b>31.0%</b>	<b>Total Europe</b>
4.00	3.98	3.65	3.59	3.69	3.56	3.14	13.1%	France
0.81	0.80	0.73	0.77	0.76	0.74	0.68	2.8%	Ukraine
0.89	0.84	0.77	0.69	0.68	0.67	0.57	2.4%	Germany
0.53	0.52	0.53	0.52	0.50	0.52	0.52	2.2%	Spain
0.59	0.51	0.57	0.59	0.61	0.59	0.48	2.0%	Sweden
0.58	0.64	0.65	0.63	0.58	0.50	0.45	1.9%	United Kingdom
0.31	0.24	0.39	0.38	0.26	0.39	0.31	1.3%	Belgium
0.28	0.24	0.22	0.26	0.27	0.27	0.27	1.1%	Czech Republic
0.25	0.21	0.19	0.18	0.22	0.23	0.20	0.9%	Switzerland
0.22	0.21	0.21	0.20	0.21	0.22	0.21	0.9%	Finland
<b>1.68</b>	<b>1.81</b>	<b>1.80</b>	<b>1.85</b>	<b>1.85</b>	<b>1.88</b>	<b>1.94</b>	<b>8.1%</b>	<b>Total CIS</b>
1.66	1.78	1.78	1.83	1.83	1.86	1.92	8.0%	Russia
<b>0.04</b>	<b>0.03</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.3%</b>	<b>Total Middle East</b>
0.04	0.03	0.06	0.06	0.06	0.06	0.06	0.2%	Iran
<b>0.13</b>	<b>0.11</b>	<b>0.14</b>	<b>0.13</b>	<b>0.10</b>	<b>0.12</b>	<b>0.14</b>	<b>0.6%</b>	<b>Total Africa</b>
0.13	0.11	0.14	0.13	0.10	0.12	0.14	0.6%	South Africa
<b>3.40</b>	<b>3.82</b>	<b>4.23</b>	<b>4.44</b>	<b>4.95</b>	<b>5.77</b>	<b>5.82</b>	<b>24.3%</b>	<b>Total Asia Pacific</b>
1.22	1.56	1.93	2.23	2.64	3.11	3.25	13.6%	China
1.43	1.50	1.47	1.34	1.19	1.30	1.42	5.9%	South Korea
0.32	0.35	0.34	0.34	0.35	0.40	0.40	1.7%	India
-	0.04	0.16	0.26	0.44	0.59	0.38	1.6%	Japan

Note: ^ less than 0.05

Source: BP Statistical Review of World Energy 2021

## 2-16. 국별 수력 소비

단위: 역사줄

	1970	1980	1990	2000	2010	2011	2012	2013
<b>전세계</b>	<b>11.75</b>	<b>17.32</b>	<b>21.59</b>	<b>26.52</b>	<b>32.25</b>	<b>32.66</b>	<b>33.84</b>	<b>34.99</b>
Non-OECD	3.12	6.19	9.29	12.57	19.12	19.26	20.48	21.54
OECD	8.62	11.12	12.29	13.95	13.13	13.40	13.37	13.45
유럽연합	2.35	2.98	2.85	3.56	3.50	2.87	3.07	3.38
<b>북미</b>	<b>4.27</b>	<b>5.50</b>	<b>6.12</b>	<b>6.63</b>	<b>6.06</b>	<b>6.79</b>	<b>6.36</b>	<b>6.33</b>
캐나다	1.58	2.51	2.96	3.57	3.30	3.51	3.53	3.61
미국	2.53	2.82	2.92	2.73	2.41	2.95	2.54	2.46
멕시코	0.15	0.17	0.24	0.33	0.35	0.34	0.30	0.26
<b>중남미</b>	<b>0.66</b>	<b>2.01</b>	<b>3.61</b>	<b>5.56</b>	<b>6.58</b>	<b>6.94</b>	<b>6.77</b>	<b>6.54</b>
브라질	0.40	1.29	2.07	3.04	3.79	4.00	3.85	3.60
콜롬비아	0.06	0.14	0.27	0.31	0.38	0.45	0.44	0.41
베네수엘라	0.04	0.15	0.37	0.63	0.72	0.78	0.76	0.77
아르헨티나	0.02	0.15	0.18	0.34	0.38	0.37	0.34	0.38
페루	0.04	0.07	0.10	0.16	0.19	0.20	0.20	0.21
<b>유럽</b>	<b>3.46</b>	<b>4.65</b>	<b>5.02</b>	<b>6.18</b>	<b>6.10</b>	<b>5.31</b>	<b>5.80</b>	<b>6.10</b>
노르웨이	0.58	0.84	1.21	1.42	1.10	1.12	1.31	1.18
스웨덴	0.41	0.59	0.73	0.79	0.62	0.63	0.73	0.57
프랑스	0.57	0.70	0.54	0.66	0.59	0.42	0.55	0.65
이탈리아	0.40	0.45	0.32	0.44	0.48	0.43	0.39	0.49
스위스	0.29	0.33	0.30	0.37	0.34	0.30	0.36	0.35
<b>독립국가연합</b>	<b>1.24</b>	<b>1.84</b>	<b>2.11</b>	<b>2.08</b>	<b>2.04</b>	<b>1.98</b>	<b>1.98</b>	<b>2.11</b>
러시아	n/a	n/a	1.67	1.64	1.56	1.52	1.52	1.67
카자흐스탄	n/a	n/a	0.07	0.08	0.08	0.07	0.07	0.07
<b>중동</b>	<b>0.04</b>	<b>0.10</b>	<b>0.15</b>	<b>0.11</b>	<b>0.16</b>	<b>0.17</b>	<b>0.20</b>	<b>0.22</b>
이란	0.02	0.06	0.07	0.04	0.10	0.10	0.12	0.13
<b>아프리카</b>	<b>0.28</b>	<b>0.48</b>	<b>0.57</b>	<b>0.75</b>	<b>1.01</b>	<b>1.03</b>	<b>1.03</b>	<b>1.08</b>
동아프리카	0.11	0.18	0.21	0.31	0.51	0.52	0.54	0.57
<b>아시아-태평양</b>	<b>1.81</b>	<b>2.73</b>	<b>3.99</b>	<b>5.22</b>	<b>10.30</b>	<b>10.43</b>	<b>11.70</b>	<b>12.60</b>
중국	0.24	0.58	1.27	2.22	6.68	6.42	8.00	8.38
인도	0.30	0.55	0.66	0.77	1.02	1.23	1.07	1.22
일본	0.75	0.88	0.87	0.84	0.83	0.77	0.71	0.73
베트남	0.01	0.01	0.05	0.15	0.27	0.38	0.49	0.53
한국	0.01	0.02	0.05	0.04	0.03	0.04	0.04	0.04

자료: BP Statistical Review of World Energy 2021

2-16. Hydro Energy Consumption by Country

Unit: EJ(Exajoules)

2014	2015	2016	2017	2018	2019	2020	'20년 점유율 Share of total 2020	
<b>35.68</b>	<b>35.38</b>	<b>36.38</b>	<b>36.60</b>	<b>37.37</b>	<b>37.69</b>	<b>38.16</b>	<b>100.0%</b>	<b>Total World</b>
22.50	22.43	23.26	23.59	24.12	24.81	25.02	65.6%	Non-OECD
13.17	12.95	13.12	13.01	13.25	12.87	13.14	34.4%	OECD
3.38	3.04	3.10	2.62	3.07	2.83	3.04	8.0%	European Union
<b>6.20</b>	<b>6.01</b>	<b>6.16</b>	<b>6.51</b>	<b>6.33</b>	<b>6.14</b>	<b>6.22</b>	<b>16.3%</b>	<b>Total North America</b>
3.50	3.48	3.49	3.55	3.45	3.38	3.42	9.0%	Canada
2.34	2.24	2.39	2.67	2.59	2.54	2.56	6.7%	United States
0.36	0.28	0.28	0.29	0.29	0.21	0.24	0.6%	Mexico
<b>6.29</b>	<b>6.12</b>	<b>6.21</b>	<b>6.30</b>	<b>6.43</b>	<b>6.25</b>	<b>5.87</b>	<b>15.4%</b>	<b>Total S. &amp; Cent. America</b>
3.42	3.28	3.45	3.34	3.48	3.55	3.52	9.2%	Brazil
0.41	0.41	0.42	0.52	0.51	0.48	0.39	1.0%	Colombia
0.72	0.67	0.56	0.53	0.51	0.43	0.28	0.7%	Venezuela
0.37	0.38	0.35	0.37	0.37	0.33	0.27	0.7%	Argentina
0.20	0.22	0.22	0.26	0.28	0.28	0.27	0.7%	Peru
<b>5.90</b>	<b>5.79</b>	<b>5.89</b>	<b>5.26</b>	<b>5.79</b>	<b>5.60</b>	<b>5.82</b>	<b>15.3%</b>	<b>Total Europe</b>
1.24	1.25	1.29	1.28	1.24	1.12	1.25	3.3%	Norway
0.58	0.69	0.56	0.58	0.56	0.58	0.65	1.7%	Sweden
0.58	0.50	0.54	0.44	0.57	0.50	0.54	1.4%	France
0.54	0.40	0.37	0.31	0.44	0.41	0.41	1.1%	Italy
0.35	0.35	0.31	0.31	0.31	0.34	0.33	0.9%	Switzerland
<b>2.03</b>	<b>1.96</b>	<b>2.14</b>	<b>2.17</b>	<b>2.19</b>	<b>2.21</b>	<b>2.36</b>	<b>6.2%</b>	<b>Total CIS</b>
1.59	1.53	1.67	1.67	1.71	1.73	1.89	4.9%	Russia
0.08	0.08	0.11	0.10	0.09	0.09	0.09	0.2%	Kazakhstan
<b>0.18</b>	<b>0.15</b>	<b>0.18</b>	<b>0.19</b>	<b>0.13</b>	<b>0.30</b>	<b>0.23</b>	<b>0.6%</b>	<b>Total Middle East</b>
0.13	0.12	0.14	0.16	0.10	0.26	0.19	0.5%	Iran
<b>1.13</b>	<b>1.09</b>	<b>1.06</b>	<b>1.13</b>	<b>1.19</b>	<b>1.22</b>	<b>1.27</b>	<b>3.3%</b>	<b>Total Africa</b>
0.60	0.59	0.56	0.58	0.62	0.61	0.65	1.7%	Eastern Africa
<b>13.94</b>	<b>14.26</b>	<b>14.74</b>	<b>15.04</b>	<b>15.32</b>	<b>15.97</b>	<b>16.41</b>	<b>43.0%</b>	<b>Total Asia Pacific</b>
9.71	10.15	10.44	10.49	10.73	11.34	11.74	30.8%	China
1.27	1.21	1.16	1.22	1.25	1.44	1.45	3.8%	India
0.75	0.78	0.72	0.71	0.73	0.66	0.69	1.8%	Japan
0.57	0.52	0.60	0.80	0.76	0.60	0.61	1.6%	Vietnam
0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.1%	South Korea

Source: BP Statistical Review of World Energy 2021

## 2-17. 국별 발전 전력량

단위: TWh

	1985	1990	1995	2000	2005	2010	2014	2015
<b>전세계</b>	<b>9,880.0</b>	<b>11,957.3</b>	<b>13,375.2</b>	<b>15,555.5</b>	<b>18,454.1</b>	<b>21,570.7</b>	<b>24,031.7</b>	<b>24,270.5</b>
Non-OECD	3,318.8	4,144.4	4,658.2	5,647.5	7,713.4	10,507.9	13,075.2	13,265.5
OECD	6,561.1	7,812.9	8,717.0	9,908.0	10,740.7	11,062.8	10,956.6	11,005.0
유럽연합	2,022.9	2,275.2	2,409.6	2,660.6	2,928.9	2,982.6	2,851.1	2,899.1
<b>북미</b>	<b>3,212.4</b>	<b>3,831.0</b>	<b>4,275.6</b>	<b>4,859.7</b>	<b>5,195.0</b>	<b>5,276.8</b>	<b>5,314.2</b>	<b>5,318.4</b>
미국	2,657.2	3,232.8	3,567.3	4,052.3	4,322.8	4,394.3	4,363.3	4,348.7
캐나다	459.0	480.6	557.9	603.8	624.2	607.0	647.6	659.3
멕시코	96.2	117.6	150.4	203.6	248.0	275.6	303.3	310.3
<b>중남미</b>	<b>407.8</b>	<b>508.6</b>	<b>646.4</b>	<b>808.7</b>	<b>943.2</b>	<b>1,140.5</b>	<b>1,287.3</b>	<b>1,296.6</b>
브라질	193.7	222.8	275.6	348.9	403.0	515.8	590.5	581.2
아르헨티나	45.3	51.0	67.2	89.0	105.8	126.0	138.6	145.4
<b>유럽</b>	<b>2,883.7</b>	<b>3,212.8</b>	<b>3,279.6</b>	<b>3,620.3</b>	<b>3,959.9</b>	<b>4,065.8</b>	<b>3,939.2</b>	<b>3,982.7</b>
독일	522.5	549.9	536.8	576.6	622.6	633.1	627.8	647.6
프랑스	343.5	420.8	494.3	540.0	576.1	569.3	564.9	571.8
영국	298.1	319.7	337.4	377.1	398.4	382.1	338.1	338.9
터키	34.2	57.5	86.2	124.9	162.0	211.2	252.0	261.8
이탈리아	185.7	216.9	241.5	276.6	303.7	302.1	279.8	283.0
<b>독립국가연합</b>	<b>1,213.7</b>	<b>1,363.7</b>	<b>1,068.3</b>	<b>1,071.7</b>	<b>1,180.6</b>	<b>1,284.0</b>	<b>1,337.9</b>	<b>1,340.9</b>
러시아	962.0	1,082.2	860.0	877.8	954.1	1,038.0	1,064.2	1,067.5
카자흐스탄	81.3	87.4	66.7	51.6	67.9	82.6	94.6	91.6
<b>중동</b>	<b>179.6</b>	<b>253.7</b>	<b>347.3</b>	<b>470.7</b>	<b>648.0</b>	<b>873.7</b>	<b>1,051.4</b>	<b>1,109.7</b>
사우디아라비아	51.7	79.9	109.9	138.7	191.1	240.1	312.3	338.8
이란	38.9	57.7	84.4	119.3	177.1	235.7	273.5	279.5
<b>아프리카</b>	<b>259.0</b>	<b>318.8</b>	<b>362.8</b>	<b>438.8</b>	<b>556.2</b>	<b>672.3</b>	<b>767.9</b>	<b>788.4</b>
남아공	143.5	167.2	186.7	210.7	244.9	259.6	254.8	250.1
이집트	30.3	42.0	50.7	73.3	104.9	144.4	171.2	181.8
<b>아시아-태평양</b>	<b>1,723.9</b>	<b>2,468.9</b>	<b>3,395.3</b>	<b>4,285.7</b>	<b>5,971.3</b>	<b>8,257.7</b>	<b>10,333.7</b>	<b>10,433.9</b>
중국	410.7	621.2	1,007.0	1,355.6	2,500.3	4,207.2	5,794.5	5,814.6
인도	186.4	287.8	427.1	571.4	704.5	937.5	1,262.2	1,317.3
일본	672.0	881.5	1,010.9	1,099.7	1,153.1	1,156.0	1,062.7	1,030.1
<b>한국</b>	<b>62.7</b>	<b>118.5</b>	<b>203.5</b>	<b>290.4</b>	<b>389.5</b>	<b>495.0</b>	<b>540.4</b>	<b>547.8</b>
인도네시아	16.4	33.1	54.1	93.3	127.6	169.8	228.6	234.0
대만	55.6	90.2	133.1	184.8	227.5	247.1	260.0	258.1

주: 출력기준

자료: BP Statistical Review of World Energy 2021

2-17. Power Generation by Country

Unit: TWh

2016	2017	2018	2019	2020	'20년 점유율 Share of total 2020	
<b>24,915.2</b>	<b>25,623.9</b>	<b>26,659.1</b>	<b>27,001.0</b>	<b>26,823.2</b>	<b>100.0%</b>	<b>Total World</b>
13,832.4	14,504.4	15,346.4	15,832.5	15,942.4	59.4%	Non-OECD
11,082.8	11,119.5	11,312.8	11,168.4	10,880.8	40.6%	OECD
2,920.1	2,952.4	2,937.5	2,892.5	2,770.6	10.3%	European Union
<b>5,331.1</b>	<b>5,287.7</b>	<b>5,452.5</b>	<b>5,382.4</b>	<b>5,243.6</b>	<b>19.5%</b>	<b>Total North America</b>
4,347.9	4,302.5	4,461.6	4,411.2	4,286.6	16.0%	United States
663.7	660.1	655.8	648.7	643.9	2.4%	Canada
319.4	325.1	335.1	322.6	313.2	1.2%	Mexico
<b>1,305.6</b>	<b>1,306.8</b>	<b>1,330.9</b>	<b>1,339.0</b>	<b>1,282.8</b>	<b>4.8%</b>	<b>Total S. &amp; Cent. America</b>
578.9	589.3	601.4	626.3	620.1	2.3%	Brazil
147.2	145.6	146.8	139.5	142.5	0.5%	Argentina
<b>4,021.4</b>	<b>4,061.3</b>	<b>4,065.5</b>	<b>3,992.1</b>	<b>3,871.3</b>	<b>14.4%</b>	<b>Total Europe</b>
649.7	652.9	642.9	609.4	571.9	2.1%	Germany
556.2	554.0	574.0	562.8	524.9	2.0%	France
339.2	338.2	332.8	324.8	312.8	1.2%	United Kingdom
274.4	297.3	304.8	303.9	305.4	1.1%	Turkey
289.8	295.8	289.7	293.9	282.7	1.1%	Italy
<b>1,369.3</b>	<b>1,383.0</b>	<b>1,416.4</b>	<b>1,428.8</b>	<b>1,397.1</b>	<b>5.2%</b>	<b>Total CIS</b>
1,091.0	1,091.2	1,109.2	1,118.1	1,085.4	4.0%	Russia
94.6	103.1	107.3	106.5	109.2	0.4%	Kazakhstan
<b>1,143.7</b>	<b>1,190.5</b>	<b>1,207.4</b>	<b>1,253.6</b>	<b>1,265.2</b>	<b>4.7%</b>	<b>Total Middle East</b>
345.5	349.5	344.0	343.7	340.9	1.3%	Saudi Arabia
286.1	305.2	314.4	318.7	331.6	1.2%	Iran
<b>796.5</b>	<b>824.8</b>	<b>847.2</b>	<b>863.4</b>	<b>843.9</b>	<b>3.1%</b>	<b>Total Africa</b>
252.7	255.1	256.3	252.6	239.5	0.9%	South Africa
188.2	193.2	199.4	200.6	198.6	0.7%	Egypt
<b>10,947.6</b>	<b>11,569.8</b>	<b>12,339.3</b>	<b>12,741.6</b>	<b>12,919.3</b>	<b>48.2%</b>	<b>Total Asia Pacific</b>
6,133.2	6,604.4	7,166.1	7,503.4	7,779.1	29.0%	China
1,401.7	1,471.3	1,579.2	1,603.7	1,560.9	5.8%	India
1,035.1	1,042.1	1,053.2	1,030.3	1,004.8	3.7%	Japan
561.0	576.4	592.9	585.3	574.0	2.1%	South Korea
247.9	254.7	267.1	278.9	275.2	1.0%	Indonesia
264.1	270.3	275.5	274.1	279.8	1.0%	Taiwan

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



## 8. 주요 경제통계

### Major Economic Statistics

1. 주요 통계 지표  
Indicators of Major Statistics
2. 경제활동별 국내 총생산(2015년 기준 연쇄가격)  
Gross Domestic Product by Economic Activity  
(At chained 2015 year prices)
3. 수송시설 및 설비  
Transport Facilities and Equipments
4. 수송 실적  
Transport Performance
5. 업종별 보일러 보유 현황  
Number of Boilers by Sector
6. 용량별 보일러 보유 현황  
Number of Boilers by Capacity
7. 전도시 소비자 물가지수  
All Cities Consumer Price Indices
8. 생산자 물가지수  
Producer Price Indices
9. 특수 분류별 생산자 물가지수  
Producer Price Indices by Special Classification
10. 주요 에너지 제품별 생산자 물가지수  
Producer Price Indices of Major Energy Products
11. 가계동향  
Average Income and Expenditure per Household
12. 냉난방도일  
Heating and Cooling Degree-Days

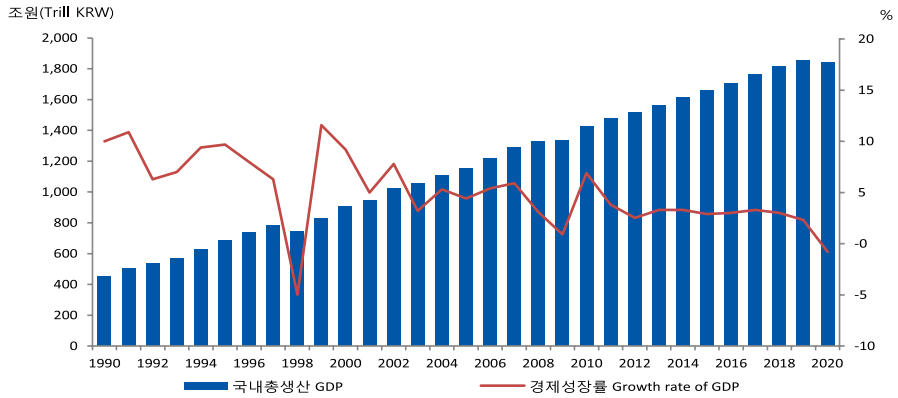






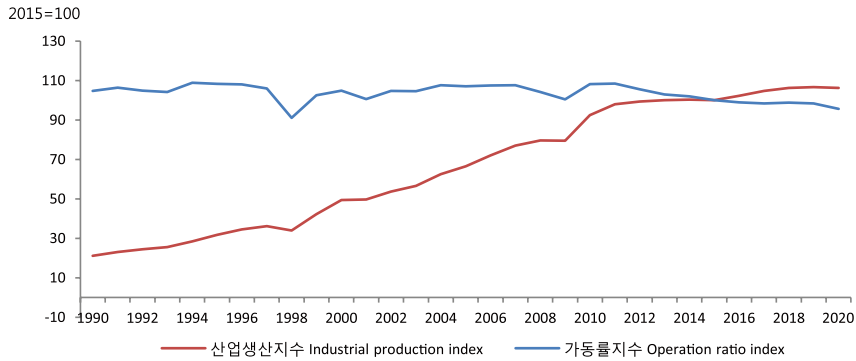
● 국내총생산, 경제성장률 GDP and Growth Rate of GDP

<2005~2020>



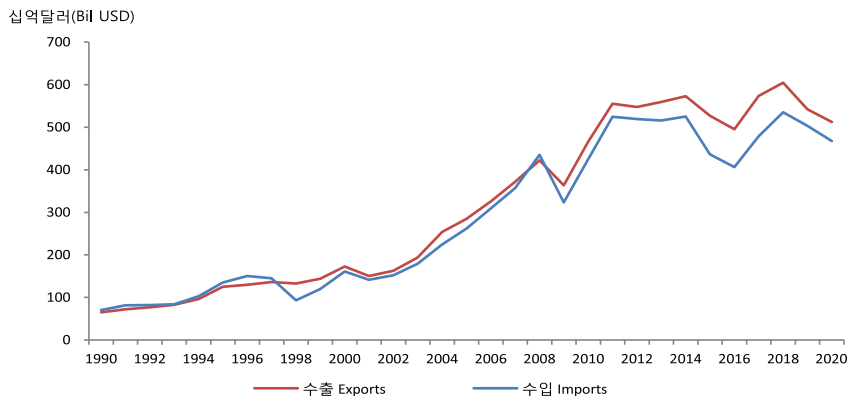
● 산업생산지수, 가동률지수 Industrial Production Index

<1999~2020>



● 수출입 Imports and Export

<1999~2020>



## 1. 주요 통계 지표

	인구		가구	국내총생산 GDP		GDP 디플레이터
	Population			Household	당해년가격	
	1,000 Persons	증가율(%) Growth Rate(%)	1,000 Household		At Current Prices	At Chained 2015 Prices
1981	38,723	1.57	-	49,670	187,576	26.5
1982	39,326	1.56	-	57,287	203,216	28.2
1983	39,910	1.49	-	68,080	230,398	29.5
1984	40,406	1.24	-	78,591	254,709	30.9
1985	40,806	0.99	-	88,130	274,675	32.1
1986	41,214	1.00	-	102,986	305,789	33.7
1987	41,622	0.99	-	121,698	344,696	35.3
1988	42,031	0.98	-	145,995	386,017	37.8
1989	42,449	0.99	-	165,802	413,320	40.1
1990	42,869	0.99	11,244	200,556	454,146	44.2
1991	43,296	0.99	11,549	242,481	503,094	48.2
1992	43,748	1.04	11,896	277,541	534,279	51.9
1993	44,195	1.02	12,233	315,181	571,024	55.2
1994	44,642	1.01	12,586	372,493	623,950	59.7
1995	45,093	1.01	13,018	436,989	683,940	63.9
1996	45,525	0.96	13,241	490,851	737,908	66.5
1997	45,954	0.94	13,550	542,002	783,441	69.2
1998	46,287	0.72	13,839	537,215	743,255	72.3
1999	46,617	0.71	14,146	591,453	828,483	71.4
2000	47,008	0.84	14,507	651,634	903,551	72.1
2001	47,370	0.77	14,775	707,021	947,395	74.6
2002	47,645	0.58	15,110	784,741	1,020,582	76.9
2003	47,892	0.52	15,434	837,365	1,052,703	79.5
2004	48,083	0.40	15,732	908,439	1,107,416	82.0
2005	48,185	0.21	16,039	957,448	1,155,130	82.9
2006	48,438	0.53	16,322	1,005,602	1,215,940	82.7
2007	48,684	0.51	16,602	1,089,660	1,286,459	84.7
2008	49,055	0.76	16,883	1,154,217	1,325,219	87.1
2009	49,308	0.52	17,168	1,205,348	1,335,724	90.2
2010	49,554	0.50	17,495	1,322,611	1,426,618	92.7
2011	49,937	0.77	17,879	1,388,937	1,479,198	93.9
2012	50,200	0.53	18,119	1,440,111	1,514,737	95.1
2013	50,429	0.46	18,388	1,500,819	1,562,674	96.0
2014	50,747	0.63	18,705	1,562,929	1,612,718	96.9
2015	51,015	0.53	19,013	1,658,020	1,658,020	100.0
2016	51,218	0.40	19,281	1,740,780	1,706,880	102.0
2017	51,362	0.28	19,571	1,835,698	1,760,812	104.3
2018	51,607	0.48	19,871	1,898,193	1,812,005	104.8
2019	51,709	0.20	20,116	1,924,498	1,852,666	103.8
2020	51,781	0.14	20,350	1,933,152	1,836,881	105.2

자료: 통계청, 한국은행

### 1. Indicators of Major Statistics

국민총소득 GNI				1인당 명목 GNI	대미달러환율 Exchange rates to USD		
당해년가격 At Current Prices	당해년가격 At Current Prices	2015년 연쇄가격 At Chained 2015 Prices	성장율 Growth Rate	Per Capita GNI	종가환율 Closing rate		
bil. USD	bil. Won		%		USD	연평균 Average	
72	48,993	195,631	5.5	1,857	-	-	
78	56,757	214,778	9.8	1,973	-	-	1982
87	67,370	244,858	14.0	2,175	-	-	1983
96	77,480	270,633	10.5	2,379	-	-	1984
99	86,197	289,085	6.8	2,427	-	-	1985
114	100,772	329,433	14.0	2,774	-	-	1986
146	120,224	378,644	14.9	3,512	-	-	1987
198	144,864	429,338	13.4	4,718	-	-	1988
246	165,314	466,945	8.8	5,801	-	-	1989
283	200,355	511,161	9.5	6,602	712.1	716.7	1990
330	242,235	566,971	10.9	7,627	733.8	759.5	1991
355	277,173	601,723	6.1	8,114	781.1	786.9	1992
392	314,760	645,137	7.2	8,872	802.8	807.2	1993
462	371,555	705,677	9.4	10,357	803.5	788.5	1994
565	435,385	767,530	8.8	12,522	770.9	775.7	1995
608	489,129	818,588	6.7	13,351	805.1	844.9	1996
567	539,091	851,730	4.0	12,334	953.6	1,695.0	1997
379	530,262	786,371	-7.7	8,190	1,395.0	1,204.0	1998
492	584,929	870,616	10.7	10,549	1,188.7	1,138.0	1999
573	647,274	926,961	6.5	12,179	1,131.1	1,264.5	2000
544	702,236	963,701	4.0	11,484	1,291.0	1,313.5	2001
625	781,829	1,046,880	8.6	13,115	1,250.7	1,186.2	2002
700	834,443	1,074,837	2.7	14,618	1,191.9	1,192.6	2003
792	906,865	1,121,037	4.3	16,477	1,143.7	1,035.1	2004
928	950,685	1,148,216	2.4	19,262	1,024.1	1,011.6	2005
1,049	1,002,665	1,193,968	4.0	21,664	955.1	929.8	2006
1,170	1,086,897	1,261,872	5.7	24,027	929.2	936.1	2007
1,047	1,154,510	1,266,674	0.4	21,345	1,103.4	1,259.5	2008
943	1,203,480	1,298,061	2.5	19,122	1,276.4	1,164.5	2009
1,146	1,324,587	1,391,621	7.2	23,118	1,156.0	1,134.8	2010
1,261	1,397,535	1,414,273	1.6	25,256	1,108.0	1,151.8	2011
1,291	1,455,170	1,455,657	2.9	25,724	1,126.8	1,070.6	2012
1,379	1,510,385	1,511,626	3.8	27,351	1,095.0	1,055.4	2013
1,491	1,570,493	1,564,407	3.5	29,384	1,053.1	1,099.3	2014
1,470	1,663,207	1,663,207	6.3	28,814	1,131.5	1,172.5	2015
1,506	1,747,144	1,736,627	4.4	29,394	1,160.4	1,207.7	2016
1,630	1,843,181	1,793,818	3.3	31,734	1,130.5	1,070.5	2017
1,732	1,905,838	1,822,153	1.6	33,564	1,100.6	1,115.7	2018
1,665	1,941,108	1,828,547	0.4	32,204	1,166.1	1,156.4	2019
1,651	1,948,021	1,824,243	-0.2	31,881	1,180.0	1,086.3	2020

Source: Statistics Korea, Bank of Korea

## 1. 주요 통계 지표(계속)

	수출	수입	경상수지	상품수지	외환보유액	총저축
	Export	Import	Current Account Balance	Goods	International Reserves	Gross Saving
	mil. USD					bil. Won
1981	21,254	26,131	-6,487	-6,265	6,891	12,180
1982	21,853	24,251	-5,631	-6,448	6,984	15,137
1983	24,445	26,192	-3,594	-4,464	6,910	20,484
1984	29,245	30,631	-1,847	-2,372	7,650	25,228
1985	30,283	31,136	-2,178	-2,351	7,749	28,246
1986	34,714	31,584	2,607	1,976	7,955	36,490
1987	47,281	41,020	8,631	5,779	9,193	47,679
1988	60,696	51,811	12,758	9,415	12,378	60,495
1989	62,377	61,465	3,766	2,410	15,245	64,216
1990	65,016	69,844	-2,804	-3,689	14,822	78,294
1991	71,870	81,525	-8,034	-7,153	13,733	94,691
1992	76,632	81,775	-2,901	-1,440	17,154	105,874
1993	82,236	83,800	1,688	2,683	20,262	120,431
1994	96,013	102,348	-4,794	-3,861	25,673	141,205
1995	125,058	135,119	-10,230	-7,004	32,712	164,724
1996	129,715	150,339	-24,461	-17,347	33,237	176,601
1997	136,164	144,616	-10,812	-6,745	20,406	195,210
1998	132,313	93,282	40,113	39,614	52,041	203,048
1999	143,685	119,752	21,785	25,446	74,055	209,393
2000	172,268	160,481	10,181	15,393	96,198	221,026
2001	150,439	141,098	2,165	9,407	102,821	226,197
2002	162,471	152,126	4,066	14,414	121,413	247,544
2003	193,817	178,827	11,308	22,138	155,352	276,799
2004	253,845	224,463	29,290	39,173	199,066	322,993
2005	284,419	261,238	12,209	32,493	210,391	324,214
2006	325,465	309,383	2,095	24,515	238,956	331,623
2007	371,489	356,846	10,473	32,436	262,224	366,107
2008	422,007	435,275	1,753	11,746	201,223	386,166
2009	363,534	323,085	33,088	48,056	269,995	402,902
2010	466,384	425,212	27,951	47,932	291,571	464,451
2011	555,214	524,413	16,638	28,014	306,403	482,737
2012	547,870	519,584	48,791	48,589	326,968	500,807
2013	559,632	515,586	77,259	80,259	346,460	524,949
2014	572,665	525,515	83,030	86,145	363,593	548,691
2015	526,757	436,499	105,119	120,275	367,962	604,062
2016	495,426	406,193	97,924	116,462	371,102	641,904
2017	573,694	478,478	75,231	113,593	389,267	680,905
2018	604,860	535,202	77,467	110,087	403,694	682,357
2019	542,233	503,343	59,676	79,812	408,816	670,615
2020	512,498	467,633	75,276	81,945	443,098	699,348

자료: 통계청

### 1. Indicators of Major Statistics(Continued)

총투자 Gross Investment	총통화(연말) Money Supply (End or Years(M2))	광공업생산지수 Industrial Production Indexes		물가지수 Price Indexes		
		총지수 All Items	광업 및 제조업 Mining and manufacturing	생산자 Producer	소비자 Consumer	
bil. Won		2015 = 100				
12,059	17,814	7.9	8.0	48.7	26.8	1981
15,045	24,414	8.3	8.3	51.0	28.7	1982
20,422	30,007	9.6	9.6	51.1	29.7	1983
25,105	35,704	11.0	11.1	51.5	30.4	1984
28,175	42,162	11.5	11.5	51.9	31.2	1985
36,443	54,620	13.9	14.1	51.2	32.0	1986
47,634	71,161	16.6	16.8	51.4	33.0	1987
60,328	92,387	18.8	19.1	52.8	35.3	1988
64,012	116,204	19.4	19.5	53.6	37.4	1989
78,282	145,604	21.1	21.2	55.8	40.6	1990
94,804	174,030	23.1	23.2	58.5	44.4	1991
106,185	211,469	24.5	24.5	59.7	47.1	1992
120,256	248,271	25.6	25.5	60.6	49.4	1993
141,262	300,658	28.4	28.3	62.3	52.5	1994
164,443	370,600	31.8	31.6	65.2	54.8	1995
176,665	432,316	34.6	34.3	67.3	57.5	1996
195,026	517,307	36.2	35.9	69.9	60.1	1997
203,437	639,664	33.9	33.5	78.4	64.6	1998
210,105	672,544	42.2	42.0	76.8	65.1	1999
221,527	707,699	49.4	49.2	78.4	66.6	2000
226,974	764,979	49.7	49.3	78.0	69.3	2001
248,507	872,076	53.7	53.2	77.8	71.2	2002
277,800	898,069	56.6	56.2	79.5	73.7	2003
323,210	954,723	62.5	62.2	84.3	76.3	2004
323,535	1,021,449	66.5	66.1	86.1	78.4	2005
331,579	1,149,262	72.1	71.8	86.9	80.2	2006
365,302	1,273,612	77.0	76.9	88.1	82.2	2007
386,359	1,425,888	79.6	79.4	95.6	86.1	2008
402,518	1,566,850	79.5	79.2	95.4	88.5	2009
464,451	1,660,530	92.5	92.4	99.1	91.1	2010
482,737	1,751,458	98.0	98.0	105.7	94.7	2011
500,807	1,835,642	99.4	99.3	106.4	96.8	2012
524,949	1,920,795	100.1	100.0	104.7	98.0	2013
548,691	2,077,234	100.3	100.2	104.2	99.3	2014
604,062	2,247,375	100.0	100.0	100.0	100.0	2015
641,904	2,407,459	102.2	102.3	98.2	101.0	2016
680,905	2,530,354	104.8	104.6	101.6	102.9	2017
682,357	2,700,362	106.3	106.1	103.5	104.5	2018
670,615	2,913,610	106.7	106.5	103.5	104.9	2019
699,756	3,199,836	106.3	106.2	103.0	105.4	2020

Source: Statistics Korea

## 2. 경제활동별 국내 총생산(2015년 기준 연쇄가격)

단위: 십억 원

	농림어업 Agriculture, Forestry and Fisheries	광업 Mining & quarrying	제조업 Manufacturing	제조업				
				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	17,632	4,381	29,067	6,558	10,354	2,731	1,214	5,889
1982	19,010	3,874	30,549	7,148	9,976	2,910	1,227	6,095
1983	20,781	4,145	35,713	7,797	10,631	3,456	1,292	6,758
1984	20,239	4,321	42,762	8,894	12,282	4,059	1,526	7,804
1985	21,442	4,554	45,725	9,381	12,898	4,249	1,602	8,582
1986	22,562	4,779	53,170	9,966	14,663	4,653	2,364	8,960
1987	21,582	4,748	63,957	10,540	16,906	5,426	1,894	10,928
1988	23,611	4,713	72,530	11,207	16,925	6,450	2,603	12,728
1989	23,578	4,521	75,732	11,465	15,955	7,377	2,409	13,519
1990	22,250	4,127	84,286	11,650	16,138	7,065	1,281	16,296
1991	22,960	4,195	96,142	12,825	15,700	7,695	4,328	16,719
1992	25,020	3,708	101,867	13,085	15,096	8,138	4,962	19,040
1993	23,965	3,678	109,195	13,582	13,657	8,204	6,170	20,291
1994	23,993	4,029	121,858	14,424	13,735	9,325	4,339	24,423
1995	25,630	3,957	137,668	14,692	13,101	9,721	4,547	27,891
1996	26,627	3,935	149,868	15,531	13,320	9,736	5,681	29,321
1997	27,774	3,880	159,258	15,714	13,675	10,199	10,482	30,660
1998	25,674	3,175	148,018	14,658	12,043	8,787	9,671	30,722
1999	26,990	3,384	178,584	15,006	14,792	10,354	8,698	36,050
2000	27,070	3,370	207,466	16,094	15,669	10,591	8,635	38,431
2001	27,180	3,407	213,365	16,120	15,761	10,149	9,174	41,036
2002	26,360	3,393	233,593	16,926	16,567	11,141	9,005	45,325
2003	24,738	3,470	245,340	16,680	14,906	11,101	9,702	45,378
2004	26,642	3,333	270,703	17,047	14,073	10,813	12,031	49,468
2005	26,794	3,256	285,096	16,921	14,288	10,863	12,132	50,295
2006	27,414	3,219	307,506	17,011	14,869	11,198	13,193	52,192
2007	28,783	3,031	332,669	17,235	15,254	11,307	12,688	55,386
2008	30,636	3,028	344,459	17,707	15,963	11,695	13,613	55,558
2009	32,056	2,952	336,416	17,260	15,132	12,132	12,224	57,284
2010	30,888	2,661	382,243	17,372	16,462	12,570	13,079	63,637
2011	30,571	2,346	402,282	17,213	16,722	12,628	14,429	64,951
2012	30,420	2,260	407,960	18,241	18,077	12,619	13,409	64,521
2013	31,697	2,356	420,493	19,421	18,522	12,594	13,389	66,962
2014	33,307	2,363	433,854	19,543	18,612	13,039	14,079	68,112
2015	33,225	2,145	441,134	20,344	17,292	13,171	14,312	70,966
2016	31,353	2,296	451,294	20,281	15,004	14,290	15,575	71,317
2017	32,060	2,205	468,070	21,067	15,288	13,677	15,544	73,717
2018	32,109	2,042	483,530	21,679	14,503	13,891	14,667	75,565
2019	33,373	1,916	488,935	22,502	13,294	13,733	13,798	74,871
2020	32,054	1,912	484,649	22,991	12,689	13,796	12,373	75,371

자료: 한국은행

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

Unit: Billion Won

비금속광물제품 제조업	1차금속 제조업	금속가공제품 제조업	컴퓨터, 전자 및 광학기기 제조업	전기장비 제조업	기계 및 장비 제조업	운송장비 제조업	기타 제조업 및 산업용 장비 수리업	
Non-metallic mineral products	Basic metals	Fabricated metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment	Transport equipment	Other manufacturing, repair and installation of machinery and equipment	
1,558	4,058	1,989	759	563	1,282	2,231	1,628	1981
1,621	4,600	2,070	800	592	1,430	2,660	1,741	1982
2,106	5,234	2,807	1,036	796	1,892	3,296	2,104	1983
2,581	6,215	3,448	1,375	1,037	2,186	4,283	2,425	1984
2,765	6,757	4,199	1,404	1,047	2,356	4,750	2,511	1985
2,821	7,888	4,538	1,963	1,507	2,880	5,110	3,341	1986
3,251	9,449	4,518	2,826	2,175	3,838	6,250	4,210	1987
3,868	10,499	4,851	3,418	2,689	4,302	7,493	4,660	1988
4,313	11,473	5,934	3,455	2,726	4,801	7,881	4,740	1989
5,692	12,716	7,086	4,016	3,172	5,473	10,002	4,846	1990
6,278	13,556	8,648	4,267	3,343	6,670	11,567	5,096	1991
6,840	14,702	7,431	4,586	3,603	6,746	13,350	4,858	1992
6,917	14,990	9,920	5,279	4,121	7,417	15,113	4,917	1993
7,233	15,713	11,466	6,446	4,982	9,396	18,066	4,956	1994
6,776	17,967	13,435	8,446	5,799	12,630	19,926	5,008	1995
7,599	18,372	15,634	9,121	6,977	14,595	23,056	5,193	1996
7,474	18,675	16,570	9,460	7,559	14,967	24,412	5,262	1997
5,824	16,932	14,585	12,229	7,121	9,672	18,047	4,479	1998
7,154	18,730	16,312	16,306	9,780	12,762	23,857	5,184	1999
8,078	20,223	19,219	21,901	12,668	16,075	27,829	5,876	2000
8,536	21,307	18,932	23,519	12,615	15,554	28,390	5,372	2001
8,734	23,264	20,347	27,175	14,321	17,730	30,181	5,557	2002
9,237	23,078	22,776	31,049	15,244	19,467	31,512	5,646	2003
9,387	25,480	25,717	37,707	16,309	21,450	34,549	5,445	2004
9,343	25,154	28,360	42,056	17,464	22,720	37,669	5,748	2005
9,636	24,005	29,528	49,041	18,538	25,041	43,407	6,193	2006
10,068	24,838	32,082	57,174	19,290	27,120	48,849	6,781	2007
10,462	22,857	29,039	62,421	19,617	28,915	53,967	7,036	2008
10,672	21,876	26,158	66,093	20,323	26,629	45,715	6,770	2009
11,477	25,222	28,560	79,034	24,460	32,897	51,102	7,296	2010
11,492	25,867	29,619	87,601	24,784	34,887	54,876	7,509	2011
11,165	24,861	31,938	89,962	25,607	36,067	54,442	7,744	2012
11,800	25,260	31,638	95,029	27,052	36,803	54,537	8,200	2013
11,787	26,578	33,623	100,226	27,885	37,439	54,223	8,886	2014
12,377	26,839	36,336	101,873	26,522	37,042	54,291	9,769	2015
12,909	27,152	36,303	112,337	25,621	35,412	55,167	9,928	2016
14,248	27,932	36,178	117,707	28,043	43,395	50,676	10,469	2017
14,190	26,880	35,698	131,090	29,794	43,706	49,528	10,970	2018
13,503	26,644	35,067	139,442	30,271	43,312	50,473	9,967	2019
12,882	25,605	32,627	144,821	30,311	44,259	45,866	9,963	2020

Source: Bank of Korea

## 2. 경제활동별 국내 총생산(2015년 기준 연쇄가격)(계속)

단위: 십억 원

	전기, 가스 및 수도사업 Electricity, gas & Water supply	건설업 Construction	서비스업 Services	도소매 및 음식숙박업 Wholesale & retail trade, Restaurants & hotels	운수업 Transport and storage	금융 및 보험업 Finance and insurance	부동산업 Information and communication	정보통신업 Information & communication
1981	2,152	21,805	102,126	27,867	8,622	3,915	15,823	1,413
1982	2,284	25,221	111,846	30,385	9,494	4,299	17,917	1,535
1983	2,964	30,567	122,853	33,173	10,076	4,761	19,867	1,810
1984	3,753	32,277	134,148	35,474	10,926	5,573	20,607	2,177
1985	4,509	33,973	145,948	37,447	11,351	6,805	22,433	2,393
1986	5,717	35,146	161,156	42,263	12,051	7,846	24,148	2,657
1987	6,434	38,610	180,528	47,368	13,279	9,963	26,134	3,130
1988	7,098	41,767	203,128	52,666	14,684	12,926	28,942	3,657
1989	7,953	46,896	222,009	56,498	15,585	14,947	31,442	4,344
1990	9,300	57,923	242,657	61,148	16,934	16,433	34,226	5,171
1991	10,338	64,872	268,159	66,475	18,295	19,098	37,968	6,130
1992	11,728	63,879	289,481	69,793	19,477	21,577	41,631	6,999
1993	13,271	69,525	313,257	74,213	19,959	25,363	45,592	7,961
1994	15,089	72,628	342,838	79,895	21,499	28,271	49,996	9,650
1995	16,201	76,384	374,083	85,454	23,501	32,153	54,638	11,327
1996	17,966	81,607	403,358	90,756	25,309	33,980	59,722	13,714
1997	19,674	82,721	432,244	93,833	27,747	35,096	66,132	15,858
1998	19,858	73,498	421,758	85,450	26,110	33,460	70,967	16,662
1999	22,005	68,330	460,854	99,466	30,228	36,162	73,232	20,894
2000	24,473	64,922	495,989	107,128	33,787	35,656	78,273	27,308
2001	25,710	67,899	526,377	111,774	35,283	38,609	82,820	32,528
2002	27,936	70,743	570,718	118,617	36,567	47,821	83,671	38,046
2003	28,924	76,829	584,947	115,138	36,873	47,551	86,792	40,472
2004	30,886	78,338	603,821	115,004	38,919	47,418	89,451	44,167
2005	33,077	78,384	630,414	116,897	40,200	50,502	93,606	48,405
2006	33,982	78,981	661,440	120,869	41,923	52,811	98,056	50,789
2007	35,333	80,858	699,783	126,962	44,433	59,364	100,634	52,461
2008	36,616	78,208	726,755	129,015	46,547	63,003	105,026	54,343
2009	38,327	79,283	741,372	128,394	44,473	66,637	107,141	56,340
2010	39,918	76,144	779,212	137,208	50,295	68,643	109,866	58,443
2011	39,823	72,505	809,610	143,211	52,571	70,356	113,402	61,601
2012	40,543	72,170	836,807	148,401	55,626	73,997	113,859	64,106
2013	39,510	75,294	866,808	153,620	56,446	77,293	115,168	67,895
2014	40,511	76,415	894,041	155,151	57,135	82,077	120,196	69,064
2015	41,760	81,174	921,470	160,346	58,500	88,258	122,198	69,789
2016	41,263	89,140	948,419	164,705	58,714	89,948	126,461	73,517
2017	43,814	94,369	973,106	167,747	60,289	93,709	129,307	75,814
2018	43,083	91,741	1,010,423	172,543	62,522	99,000	133,423	79,246
2019	44,928	89,366	1,044,554	178,610	63,574	102,360	135,309	82,894
2020	46,811	88,088	1,034,275	168,483	53,954	111,654	137,650	85,521

자료: 한국은행



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

Unit: Billion Won

사업서비스업 Business activities	공공행정, 국방 및 사회보장 Public administration, defence and social security	교육서비스업 Education	보건 및 사회복지 Health & social work	문화 및 기타 서비스 Cultural & other	총부가가치 (기초가격) Gross value added at basic prices	국내총생산 Gross domestic product at market prices(GDP)	
5,819	20,268	22,500	4,054	4,685	172,059	187,576	1981
6,564	21,366	24,242	5,207	5,049	186,111	203,216	1982
7,945	22,601	25,537	6,718	5,676	209,871	230,398	1983
9,646	23,325	26,942	8,414	6,503	231,729	254,709	1984
11,632	24,495	28,341	10,474	7,406	250,200	274,675	1985
13,930	25,915	29,904	11,405	8,290	278,502	305,789	1986
17,017	27,470	31,331	12,172	9,170	312,488	344,696	1987
20,311	29,429	32,949	13,499	10,128	349,965	386,017	1988
23,020	31,582	34,743	14,570	11,360	374,453	413,320	1989
26,271	33,863	36,671	15,823	12,485	410,297	454,146	1990
30,426	36,334	38,535	17,505	13,895	455,316	503,094	1991
33,612	38,871	40,380	18,882	15,106	484,856	534,279	1992
36,518	41,489	42,076	20,270	16,461	519,602	571,024	1993
41,246	43,689	44,006	22,365	18,719	566,543	623,950	1994
46,651	45,500	45,849	24,167	20,835	620,865	683,940	1995
50,841	48,521	47,625	25,200	22,885	669,503	737,908	1996
56,194	51,409	49,200	27,151	24,768	711,354	783,441	1997
51,255	53,372	48,949	26,120	23,139	677,790	743,255	1998
52,225	56,319	50,476	27,559	25,824	752,357	828,483	1999
57,563	57,424	52,166	27,477	28,077	819,508	903,551	2000
61,013	59,113	55,081	26,271	30,348	858,697	947,395	2001
67,298	61,358	58,504	28,080	33,734	927,265	1,020,582	2002
73,286	63,818	61,515	29,849	33,356	957,728	1,052,703	2003
77,562	66,406	63,728	31,704	33,130	1,008,287	1,107,416	2004
81,344	69,115	65,247	33,838	34,185	1,051,713	1,155,130	2005
87,767	72,070	68,376	36,010	36,135	1,107,876	1,215,940	2006
95,356	74,602	70,852	39,110	38,411	1,176,059	1,286,459	2007
100,934	76,677	73,303	40,577	39,369	1,215,778	1,325,219	2008
102,580	80,058	74,116	43,731	39,624	1,226,048	1,335,724	2009
110,450	82,556	75,424	46,645	41,370	1,308,667	1,426,618	2010
116,793	84,904	77,321	49,825	41,212	1,356,276	1,479,198	2011
120,689	87,761	78,852	53,265	41,259	1,389,384	1,514,737	2012
128,150	90,221	80,729	56,505	41,320	1,436,068	1,562,674	2013
135,199	92,972	81,146	60,491	40,890	1,480,547	1,612,718	2014
141,919	95,491	82,134	63,337	39,499	1,520,908	1,658,020	2015
145,077	98,023	83,161	67,975	40,839	1,563,765	1,706,880	2016
147,950	100,723	84,806	72,330	40,496	1,613,713	1,760,812	2017
153,605	104,101	86,223	78,268	41,604	1,663,057	1,812,005	2018
157,572	108,117	87,582	85,932	42,683	1,702,671	1,852,666	2019
156,898	112,396	85,465	87,054	34,705	1,686,896	1,836,881	2020

Source: Bank of Korea

### 3. 수송시설 및 설비

	도로연장	자동차				
	Length of Roads	Motor Vehicles	승용차	승합차	화물차	특수
	km		Passenger car	Bus	Truck	Special
		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

주: 1. 자동차 대수는 이륜차 제외

2. 2015년 까지의 여객수송실적은 일반열차와 광역전철 여객수송실적의 합으로 계산되었으나 2016년부터 철도통계의 개편에 따라 여객수송실적은 일반열차의 여객수송실적으로만 계산됨

자료: 국토교통부, 코레일

### 3. Transport Facilities and Equipments

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

Note: Excluding the two-wheeled vehicles  
Source: Minister of Land, Infrastructure and Transport, KORAIL

## 4. 수송 실적

	여객 Passengers								
	공로 <sup>1</sup>	철도 <sup>2</sup>	지하철	해운	항공		항공 Aircraft	국내선 Domestic Lines	국제선 International Lines
	Highway <sup>1</sup>	Railways <sup>2</sup>	Subway	Shipping	내항 Coastal	외항 Oversea			
1,000명(Thousnad persons)									
1981	8,683,130	441,129	58,326	9,281	9,230	51	4,784	1,555	3,229
1982	9,259,252	443,570	89,298	9,658	9,602	56	5,345	1,844	3,501
1983	9,901,324	469,423	115,623	9,035	8,979	56	6,066	2,363	3,703
1984	10,200,619	489,061	292,347	9,438	9,371	67	6,811	2,869	3,942
1985	10,601,047	503,123	420,168	8,599	8,534	65	7,849	3,467	4,382
1986	10,932,607	518,956	685,120	8,800	8,727	73	9,031	4,092	4,939
1987	11,455,784	525,056	754,815	8,127	8,028	99	10,559	5,101	5,458
1988	11,905,341	564,240	916,951	8,974	8,838	136	12,649	6,297	6,352
1989	11,949,830	584,659	1,007,148	9,045	8,850	195	17,235	8,952	8,283
1990	12,721,877	644,814	1,186,633	8,496	8,260	236	20,690	11,064	9,626
1991	12,854,212	679,281	1,422,615	8,819	8,485	335	22,524	12,253	10,271
1992	12,848,750	716,364	1,546,279	9,071	8,733	338	25,812	14,555	11,257
1993	12,117,439	723,057	1,576,040	8,286	7,990	296	27,201	15,550	11,651
1994	11,603,575	729,003	1,603,945	8,280	7,869	411	31,482	18,406	13,076
1995	11,289,507	790,381	1,693,003	9,097	8,702	395	35,612	21,009	14,603
1996	11,480,422	819,542	1,728,171	9,936	9,413	523	39,559	23,567	15,992
1997	10,887,456	832,999	1,855,166	10,463	9,899	564	43,237	25,639	16,598
1998	10,783,922	829,050	1,838,870	8,815	8,277	538	33,608	19,504	14,104
1999	10,455,862	823,563	2,015,999	9,857	9,052	805	37,895	21,145	16,750
2000	10,410,577	837,268	2,235,221	10,701	9,702	999	41,967	22,515	19,452
2001	9,857,403	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	46,965	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	13,204	11,100	2,105	46,842	17,158	29,684
2006	9,108,648	969,145	2,079,961	13,958	11,574	2,385	49,888	17,181	32,707
2007	9,301,810	989,294	2,090,290	15,184	12,634	2,550	53,715	16,848	36,867
2008	9,798,410	1,018,977	2,141,872	16,697	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	1,118,622	2,358,758	16,926	14,266	2,660	63,629	20,981	42,649
2012	25,982,998	1,151,523	2,410,931	17,419	14,538	2,881	69,304	21,602	47,703
2013	26,327,678	1,224,820	2,476,394	18,800	16,063	2,737	73,340	22,353	50,987
2014	26,678,513	1,263,472	2,526,167	16,917	14,271	2,646	81,426	24,648	56,779
2015	27,193,794	1,269,417	2,522,900	17,998	15,381	2,617	89,415	27,980	61,434
2016	28,090,714	137,550	2,562,845	18,200	15,423	2,777	103,914	30,913	73,001
2017	28,192,366	156,282	2,572,907	19,638	16,910	2,728	109,362	32,406	76,956
2018	28,409,618	156,746	2,586,886	17,605	14,625	2,980	117,526	31,601	85,925

1. 2011년부터 승용차 통계 포함(Including car from 2011)

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

자료: 국토교통부, 코레일

### 4. Transport Performance

화물 Freight								
공로 <sup>1</sup> Highway <sup>1</sup>	철도 Railways	해운 Shipping	항공사 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
1,895,686	30,915	1,526,252	120,327	1,405,925	4,442	273	4,169	2018

1. 비영업용 화물차 포함(Including non-business trucks).  
Source: Minister of Land, Infrastructure and Transport, KORAIL

## 5. 업종별 보일러 보유 현황

단위: 대

	합계		산업용 Industrial				
	Total	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

주: 검사대상기준  
자료: 한국에너지공단

### 5. Number of Boilers by Sector

Unit: Each

1차금속 Metals & Metal Products	기타 Others	난방용 Heating					건물 및 기타 Building & Others	
		소계 Subtotal	아파트 Apartment	공공건물 Public Building	목욕탕 Bathhouse			
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	11	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	

Note: Inspection Facility Basis  
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

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

Source: Korea Energy Agency

## 7. 전도시 소비자물가지수

2015 = 100.0

	총지수 Total item	식품· 비주류음료	주류 및 담배	의류 및 신발	주택·수도· 전기 및 연료	전기·가스 및 기타연료 Electricity, gas & other fuels	가정용품 및 가사 서비스	보건 Health
		Food & nonalcoholic beverages	Alcoholic beverages & cigarettes	Clothing & footwear	Housing water & fuels		Furnishings & household equipment	
1981	26.8	-	-	-	-	-	-	-
1982	28.7	-	-	-	-	-	-	-
1983	29.7	-	-	-	-	-	-	-
1984	30.4	-	-	-	-	-	-	-
1985	31.2	23.6	23.1	34.6	32.3	30.6	47.5	37.7
1986	32.0	24.1	23.6	35.4	33.1	30.3	48.7	39.1
1987	33.0	24.8	24.0	36.6	33.9	30.6	50.3	40.4
1988	35.3	27.5	24.5	39.5	35.1	30.3	53.2	43.3
1989	37.4	29.1	25.7	44.7	36.6	29.9	56.9	44.6
1990	40.6	32.0	27.1	49.1	39.4	30.2	60.4	47.9
1991	44.4	35.5	28.0	51.8	43.8	32.6	63.7	50.9
1992	47.1	37.4	29.5	55.0	47.0	34.8	65.8	52.6
1993	49.4	38.5	31.2	56.8	49.5	36.0	67.9	54.0
1994	52.5	42.5	34.3	58.2	51.5	36.8	70.3	56.0
1995	54.8	43.8	35.0	59.2	53.7	37.6	71.6	59.0
1996	57.5	45.1	38.3	59.9	56.2	40.3	73.0	61.7
1997	60.1	46.9	40.8	60.9	59.1	44.6	73.3	64.3
1998	64.6	51.6	43.4	63.3	63.4	55.9	77.5	67.7
1999	65.1	53.9	46.2	64.4	61.5	53.4	76.5	68.7
2000	66.6	54.4	46.6	65.4	63.7	60.4	74.6	73.7
2001	69.3	57.2	48.9	67.3	67.5	66.6	76.0	82.1
2002	71.2	59.9	52.5	69.4	69.4	63.0	76.7	81.7
2003	73.7	62.7	54.0	71.9	72.3	66.1	78.3	83.5
2004	76.3	67.8	54.6	72.1	74.7	69.7	78.9	84.7
2005	78.4	69.9	62.7	72.8	76.1	73.9	79.3	86.6
2006	80.2	70.2	62.6	74.8	78.3	79.7	79.5	88.3
2007	82.2	72.0	62.8	76.8	80.0	81.6	81.6	89.8
2008	86.1	75.6	63.1	78.7	83.5	88.4	85.1	91.5
2009	88.5	81.3	63.9	82.7	84.4	87.9	88.9	93.5
2010	91.1	86.5	64.1	85.1	86.4	91.3	89.2	95.2
2011	94.7	93.6	64.6	88.0	90.3	97.2	92.5	96.8
2012	96.8	97.3	65.6	92.2	94.5	102.2	95.2	97.7
2013	98.0	98.1	66.7	94.9	97.8	106.7	95.4	98.1
2014	99.3	98.4	66.6	98.7	100.6	110.6	97.5	98.8
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	101.0	102.3	100.7	101.8	99.2	89.1	101.6	101.0
2017	102.9	105.8	102.2	102.9	100.9	88.0	102.7	101.9
2018	104.5	108.7	102.5	104.0	101.6	85.6	105.0	101.8
2019	104.9	108.8	103.1	104.2	102.8	87.1	107.2	102.3
2020	105.4	113.6	103.4	104.9	103.3	85.4	107.3	103.9

자료: 통계청

### 7. All Cities Consumer Price Indices

2015 = 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	15.7	149.5	65.6	17.9	23.8	37.3		1985
28.2	16.0	158.3	66.9	18.7	24.9	39.0		1986
28.7	16.3	161.0	68.4	19.8	26.0	40.1		1987
30.2	17.3	161.0	70.9	21.6	28.5	40.9		1988
31.2	17.9	143.7	72.7	23.6	32.8	41.0		1989
32.0	18.3	153.2	76.1	26.7	37.3	42.4		1990
35.5	21.3	147.8	78.9	29.5	44.6	44.9		1991
38.8	24.2	147.5	80.9	32.6	49.2	46.6		1992
42.2	28.0	146.6	84.4	36.0	51.9	48.5		1993
45.4	32.2	143.0	86.5	39.4	55.4	50.3		1994
48.2	35.4	139.7	89.7	44.7	58.5	52.0		1995
51.8	39.0	139.1	93.1	49.7	61.8	55.0		1996
56.8	41.5	135.0	94.0	53.3	63.9	57.5		1997
66.3	49.1	134.8	97.2	55.2	67.1	62.7		1998
67.9	50.3	134.1	97.1	55.9	66.5	61.3		1999
70.9	53.0	131.0	96.1	58.8	67.1	62.1		2000
73.7	56.9	126.9	95.8	61.4	68.3	64.6		2001
74.4	58.9	121.2	96.4	64.9	70.6	66.7		2002
77.4	63.5	114.9	96.8	68.7	73.2	68.4		2003
80.1	66.8	113.1	96.7	72.5	75.9	69.8		2004
84.1	72.2	111.1	96.8	75.6	77.7	70.8		2005
88.0	74.5	109.6	94.5	79.2	79.3	74.4		2006
91.2	79.6	107.4	92.9	84.0	80.7	78.1		2007
99.2	81.4	105.9	94.2	88.6	84.6	85.2		2008
95.7	82.8	105.7	96.4	90.8	87.8	91.0		2009
100.4	84.4	104.7	97.3	92.8	89.9	94.2		2010
107.4	87.0	103.0	98.8	94.4	93.7	97.2		2011
110.9	92.6	100.4	99.0	95.8	94.9	94.1		2012
110.3	95.3	100.3	100.1	96.9	96.3	94.5		2013
108.5	97.2	100.2	100.5	98.3	97.7	97.4		2014
100.0	100.0	100.0	100.0	100.0	100.0	100.0		2015
97.8	103.0	100.1	101.8	101.6	102.5	103.4		2016
101.3	104.0	100.4	101.9	102.8	105.0	106.3		2017
103.7	104.9	99.5	102.4	104.2	108.1	106.9		2018
101.9	107.9	97.2	102.1	104.8	110.1	108.7		2019
100.0	110.2	95.2	101.1	102.5	111.1	110.8		2020

Source: Statistics Korea

## 8. 생산자 물가지수

2015 = 100.0

	총지수 All Items	상품 Goods	상품				서비스 Services	
			농림수산물 Agricultural, Forest & Marine Products	광산물 Mining Products	공산물 Manufacturing Products	전력, 가스 수도 및 폐기물 Electric Power, Gas & Water Supply	운송서비스 Transport	
1981	48.7	49.7	28.0	25.3	55.4	52.5	-	-
1982	51.0	52.0	28.2	28.0	58.3	56.9	-	-
1983	51.1	52.1	29.0	28.8	58.1	55.6	-	-
1984	51.5	52.5	29.1	30.5	58.5	55.2	-	-
1985	51.9	53.0	30.8	32.1	58.4	55.2	-	-
1986	51.2	52.2	30.4	33.8	57.4	53.6	-	-
1987	51.4	52.4	30.2	35.9	57.9	51.8	-	-
1988	52.8	53.9	35.1	37.1	58.3	47.4	-	-
1989	53.6	54.7	36.3	38.0	59.1	44.4	-	-
1990	55.8	56.9	41.5	39.3	60.5	41.9	-	-
1991	58.5	59.6	46.4	42.8	62.8	42.5	-	-
1992	59.7	60.8	47.9	43.4	64.0	45.4	-	-
1993	60.6	61.7	48.8	43.3	64.8	46.0	-	-
1994	62.3	63.4	54.7	44.4	65.9	46.2	-	-
1995	65.2	66.4	56.8	44.4	69.1	47.9	63.0	53.0
1996	67.3	67.8	57.7	44.9	70.5	50.0	67.2	56.1
1997	69.9	70.0	58.8	45.6	72.8	52.5	71.0	58.6
1998	78.4	79.5	61.0	49.3	83.6	58.2	76.7	68.0
1999	76.8	77.7	67.2	49.9	80.7	57.8	75.4	67.8
2000	78.4	79.5	65.4	51.0	82.6	62.8	76.6	70.1
2001	78.0	78.5	67.8	51.6	80.8	67.2	77.5	71.8
2002	77.8	77.5	69.6	55.8	79.5	65.5	79.2	74.2
2003	79.5	79.1	73.6	56.6	80.8	67.3	81.1	77.1
2004	84.3	85.0	82.5	61.0	87.0	68.0	83.4	81.6
2005	86.1	87.1	79.5	65.2	89.7	68.5	84.5	82.7
2006	86.9	87.4	77.5	63.7	89.8	72.9	86.5	84.8
2007	88.1	88.4	79.6	68.1	90.5	75.3	88.5	87.0
2008	95.6	98.0	80.5	74.2	101.5	78.1	90.8	92.3
2009	95.4	97.3	87.5	81.4	99.7	82.2	91.7	93.9
2010	99.1	101.8	95.3	90.2	104.0	85.2	93.3	94.8
2011	105.7	110.6	102.4	92.1	113.4	90.0	95.6	95.9
2012	106.4	110.9	103.3	95.3	112.9	96.5	97.1	98.3
2013	104.7	108.2	97.1	97.6	109.6	101.6	97.4	99.0
2014	104.2	106.7	97.7	99.7	107.2	107.0	98.8	100.6
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	98.2	96.8	105.8	104.0	96.5	94.2	101.0	100.4
2017	101.6	101.1	112.6	109.1	101.1	95.7	102.5	101.4
2018	103.5	103.3	116.7	114.5	103.3	96.2	103.9	102.9
2019	103.5	102.5	114.0	115.3	102.3	98.4	105.2	104.9
2020	103.0	100.9	124.9	112.7	99.7	98.1	106.6	106.1

자료: 한국은행

### 8. Producer Price Indices

2015 = 100.0

음식점 및 숙박서비스 Food & Accomodation	정보통신 및 방송서비스 Telecommunication & Broadcasting	금융 및 보험서비스 Financial & Insurance Activities	부동산서비스 Real Estate Activities	전문, 과학 및 기술서비스 Professional, scientific and technical activities	사업지원 서비스 Business Services	교육서비스 Education	예술, 스포츠 및 여가관련 서비스 Cultural Activities & Amusement Activities	기타서비스 Other Services	
-	-	-	-	-	-	-	-	-	1981
-	-	-	-	-	-	-	-	-	1982
-	-	-	-	-	-	-	-	-	1983
-	-	-	-	-	-	-	-	-	1984
-	-	-	-	-	-	-	-	-	1985
-	-	-	-	-	-	-	-	-	1986
-	-	-	-	-	-	-	-	-	1987
-	-	-	-	-	-	-	-	-	1988
-	-	-	-	-	-	-	-	-	1989
-	-	-	-	-	-	-	-	-	1990
-	-	-	-	-	-	-	-	-	1991
-	-	-	-	-	-	-	-	-	1992
-	-	-	-	-	-	-	-	-	1993
-	-	-	-	-	-	-	-	-	1994
59.8	85.0	87.0	69.3	38.5	84.5	-	-	-	1995
66.4	88.8	88.0	72.6	46.0	84.5	-	-	-	1996
70.2	91.3	87.5	75.9	51.9	90.0	-	-	-	1997
71.8	93.9	84.9	76.7	55.6	105.9	-	-	-	1998
72.6	95.0	91.4	74.6	54.5	92.6	-	-	-	1999
75.8	96.1	91.3	74.5	56.3	89.5	-	-	-	2000
80.9	96.9	87.4	75.7	58.8	86.3	-	-	-	2001
85.7	97.2	90.1	77.4	62.1	84.1	-	-	-	2002
85.7	96.7	90.3	80.0	65.7	82.4	-	-	-	2003
82.5	96.0	95.3	81.8	69.8	82.3	-	-	-	2004
82.1	96.0	100.2	82.5	72.4	81.3	-	-	-	2005
82.5	96.9	107.3	83.4	74.7	83.2	-	-	-	2006
82.7	97.4	114.7	85.2	76.7	84.8	-	-	-	2007
83.8	97.8	106.2	87.7	84.6	87.6	-	-	-	2008
84.8	98.7	101.3	89.9	87.2	88.5	-	-	-	2009
86.5	99.0	104.8	91.2	92.2	90.0	85.5	92.4	88.3	2010
92.2	99.0	107.5	93.1	95.2	92.4	88.4	94.3	91.6	2011
94.6	98.6	104.4	95.3	97.4	94.9	92.3	95.2	94.4	2012
96.2	97.8	98.3	97.1	97.4	96.0	95.8	96.7	96.1	2013
97.9	98.8	99.4	98.6	97.6	97.7	97.9	98.6	98.3	2014
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2015
102.2	100.5	97.7	101.6	102.8	101.7	102.1	101.7	101.7	2016
104.6	100.5	98.4	103.1	106.1	103.6	103.5	103.5	104.1	2017
107.9	99.6	97.0	104.1	108.1	108.0	106.1	106.4	107.5	2018
110.6	99.2	93.3	104.9	112.1	111.3	108.3	107.6	109.4	2019
111.8	100.6	93.6	106.0	114.6	114.6	110.2	107.5	110.8	2020

Source: Bank of Korea

## 9. 특수 분류별 생산자 물가지수

2015 = 100.0

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

자료: 통계청

### 9. Producer Price Indices by Special Classification

2015 = 100.0

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

Source: Statistics Korea

## 10. 주요 에너지 제품별 생산자 물가지수

2015 = 100.0

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

자료: 통계청



### 10. Producer Price Indices of Major Energy Products

2015=100.0

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

Source: Statistics Korea

## 11. 가계동향

단위: 원

	소득	소비지출		연료비 Fuel
	Income	Consumption expenditures	전기료 Electricity	
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	3,569,534	2,306,826	-	115,626
2004	3,652,639	2,354,298	-	113,447
2005	3,694,717	2,386,272	-	113,519
2006	3,788,318	2,425,148	-	109,701
2007	3,891,294	2,451,401	-	108,330
2008	3,939,100	2,456,135	-	107,462
2009	3,880,094	2,429,775	-	111,600
2010	3,988,658	2,511,641	-	120,948
2011	4,055,857	2,526,121	-	116,581
2012	4,212,127	2,538,967	-	116,232
2013	4,244,689	2,530,113	-	112,743
2014	4,332,768	2,569,092	-	101,787
2015	4,373,116	2,563,092	-	106,204
2016	4,356,928	2,525,237	-	108,900
2017	-	2,484,041	-	96,979
2018	-	2,429,527	-	100,104
2019	-	2,806,039	-	105,343
2020	-	2,760,625	-	110,636

주: 1. 2015년 실질 기준

2. 1990~2002년: 구분류 기준 도시 2인 이상 가구

3. 2003~2018년: 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: Won

공동주택난방비	운송기구연료비	공공교통	개인교통	
APT Heating	Fuel of vehicles	Public transport	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
-	118,599	-	-	2003
-	116,600	-	-	2004
-	115,337	-	-	2005
-	114,293	-	-	2006
-	112,719	-	-	2007
-	107,698	-	-	2008
-	105,435	-	-	2009
-	103,042	-	-	2010
-	99,878	-	-	2011
-	100,166	-	-	2012
-	106,079	-	-	2013
-	110,441	-	-	2014
-	120,384	-	-	2015
-	121,421	-	-	2016
-	104,319	-	-	2017
-	101,321	-	-	2018
-	119,786	-	-	2019
-	120,483	-	-	2020

Note: 1. At chained 2015 year prices.  
 2. 1990~2002: Old classification. Includes households of more than 2 persons in city only.  
 3. 2003~2018: New classification. Includes households of more than 2 persons.  
 4. 2019~ :Excludes agricultural/forestry households and one person households.  
 5. Refer to the Household Income and Expenditure Survey for more details.  
 Source: Household Income and Expenditure Survey, Statistics Korea

## 12. 냉난방도일 Heating and Cooling Degree-Days

단위: 원

	평균기온	난방도일(18℃)	냉방도일(24℃)	냉방도일(18℃ 기준)	평균기온	난방도일	냉방도일
	Average temperature	Heating degree day	Cooling degree day	Cooling degree day	증가율(%)	증가율(%)	증가율(%)
	℃	도일(Degree day)		도일			
1981	11.2	3,103.0	92.5	630.7	0.4	-0.4	29.0
1982	12.5	2,707.3	94.4	721.2	1.3	-12.8	14.3
1983	12.4	2,751.8	99.5	727.6	-0.1	1.6	0.9
1984	11.6	3,066.0	134.0	722.5	-0.8	11.4	-0.7
1985	11.6	3,054.7	137.3	725.2	-	-0.4	0.4
1986	11.2	3,017.7	53.1	574.4	-0.3	-1.2	-20.8
1987	11.9	2,807.6	42.9	612.5	0.7	-7.0	6.6
1988	12.1	2,881.2	117.2	729.6	0.2	2.6	19.1
1989	13.0	2,473.1	91.1	652.2	0.9	-14.2	-10.6
1990	12.8	2,557.6	125.9	673.8	-0.2	3.4	3.3
1991	12.3	2,748.9	88.0	704.0	-0.5	7.5	4.5
1992	12.5	2,636.2	84.4	623.6	0.1	-4.1	-11.4
1993	12.0	2,723.7	18.2	564.6	-0.4	3.3	-9.5
1994	13.5	2,510.8	276.4	909.3	1.5	-7.8	61.1
1995	12.2	2,738.9	109.1	646.3	-1.4	9.1	-28.9
1996	12.2	2,843.9	117.8	742.3	0.0	3.8	14.9
1997	12.9	2,625.4	204.1	784.6	0.7	-7.7	5.7
1998	13.8	2,322.9	103.8	803.0	0.9	-11.5	2.3
1999	13.2	2,560.3	170.0	829.1	-0.6	10.2	3.3
2000	12.7	2,758.5	186.0	823.7	-0.5	7.7	-0.7
2001	12.8	2,721.0	159.7	844.8	0.1	-1.4	2.6
2002	12.9	2,545.8	92.5	689.5	0.1	-6.4	-18.4
2003	12.8	2,509.4	47.3	636.8	-0.0	-1.4	-7.6
2004	13.3	2,467.4	141.2	766.1	0.5	-1.7	20.3
2005	12.1	2,889.5	121.2	750.4	-1.2	17.1	-2.0
2006	13.0	2,524.1	116.3	721.7	0.9	-12.6	-3.8
2007	13.3	2,483.2	125.2	761.4	0.3	-1.6	5.5
2008	12.9	2,589.0	110.2	745.9	-0.3	4.3	-2.0
2009	12.9	2,585.4	100.2	743.4	-0.0	-0.1	-0.3
2010	12.1	2,953.4	167.2	814.8	-0.8	14.2	9.6
2011	12.0	2,882.6	113.1	722.6	-0.1	-2.4	-11.3
2012	12.2	2,967.7	187.9	870.0	0.2	3.0	20.4
2013	12.5	2,908.0	194.8	908.9	0.3	-2.0	4.5
2014	13.4	2,501.6	125.4	822.7	0.9	-14.0	-9.5
2015	13.6	2,459.1	151.8	861.1	0.2	-1.7	4.7
2016	13.6	2,589.7	238.1	976.7	-	5.3	13.4
2017	13.0	2,687.6	188.1	889.4	-0.6	3.8	-8.9
2018	12.9	2,763.4	286.2	939.3	-0.1	2.8	5.6
2019	13.5	2,525.5	178.4	887.9	0.6	-8.6	-5.5
2020	13.2	2,499.1	129.3	770.8	-0.3	-1.0	-13.2

주. 서울시 기준  
자료: 기상청Note: Based on heating and cooling degree days in Seoul.  
Source: Korea Meteorological Administration



## 9. 에너지밸런스

Energy Balances

1. 1990년

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	무연탄				유연탄			에너지유											
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G	
1,000 toe																			
국내생산	1	7,748	756	7,748	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	5,721	643	-	643	15,077	7,448	7,629	57,345	46,040	3,159	4,288	15,817	406	260	19,863	1,362	884	1
(석유생산)	3	-	-	-	-	-	-	-	43,942	37,283	3,159	1,872	13,830	406	260	15,510	1,362	884	-
(석유수입)	4	-	-	-	-	-	-	-	13,403	8,757	-	2,416	1,987	-	-	4,353	-	-	1
수출	5	-	-	-	-	-	-	-	-3,997	-3,449	-4	-13	-1,529	-	-	-1,903	-	-	-
국제병커링	6	-	-	-	-	-	-	-	-2,280	-2,280	-	-0	-254	-35	-6	-1,421	-563	-	-
재고증감	7	948	948	818	130	-	-	-	-633	-502	-31	-680	97	-2	3	159	-29	-18	-0
연초재고	8	4,779	4,779	3,749	1,030	-	-	-	2,051	1,701	118	182	582	18	20	690	59	31	0
연말재고	9	-3,831	-3,831	-2,931	-899	-	-	-	-2,683	-2,203	-150	-862	-485	-21	-17	-531	-87	-50	-1
통계오차	10	-292	345	345	-	-637	300	-937	-261	-156	3	-145	122	-12	12	-242	81	26	-
1차에너지공급	11	24,124	9,685	8,911	774	14,440	7,748	6,692	50,175	39,653	3,126	3,450	14,253	356	269	16,455	851	892	1
에너지전환	12	-4,670	-892	-892	-	-3,778	-	-3,778	-4,923	-4,661	-0	-0	-260	-0	-1	-4,400	-	-	-
발전	13	-4,670	-892	-892	-	-3,778	-	-3,778	-4,658	-4,658	-0	-0	-257	-0	-1	-4,400	-	-	-
지역난방	14	-	-	-	-	-	-	-	-0	-0	-	-	-	-	-	-0	-	-	-
가스제조	15	-	-	-	-	-	-	-	-265	-3	-0	-0	-3	-	-	-0	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	19,454	8,792	8,019	774	10,662	7,748	2,914	45,252	34,991	3,126	3,449	13,993	356	268	12,055	851	892	1
산업부문	18	10,806	144	77	67	10,662	7,748	2,914	20,014	12,894	69	620	3,021	253	183	8,748	-	-	-
농림어업	19	-	-	-	-	-	-	-	1,687	1,686	51	162	1,326	95	11	41	-	-	-
광업	20	-	-	-	-	-	-	-	119	118	0	2	57	3	4	52	-	-	-
제조업	21	10,806	144	77	67	10,662	7,748	2,914	16,852	10,549	15	415	1,280	152	162	8,524	-	-	-
음식·담배	22	15	-	-	-	15	-	15	1,064	1,046	1	13	112	5	10	906	-	-	-
섬유·의복	23	61	-	-	-	61	-	61	1,612	1,606	0	8	30	8	9	1,550	-	-	-
목재·나무	24	-	-	-	-	-	-	-	72	72	0	0	3	0	0	68	-	-	-
펄프·인쇄	25	58	-	-	-	58	-	58	847	844	0	3	5	1	5	830	-	-	-
석유·화학	26	114	-	-	-	114	-	114	8,900	2,809	1	112	145	21	14	2,516	-	-	-
비금속	27	2,698	38	38	-	2,660	-	2,660	1,234	1,194	0	45	211	52	28	858	-	-	-
1차금속	28	7,780	32	32	-	7,748	7,748	-	952	934	0	11	85	24	28	785	-	-	-
비철금속	29	-	-	-	-	-	-	-	187	143	0	4	25	5	20	88	-	-	-
조립금속	30	-	-	-	-	-	-	-	866	799	7	18	147	16	28	584	-	-	-
기타제조	31	80	74	7	67	6	-	6	1,096	1,081	4	201	509	21	20	326	-	-	-
기타에너지	32	-	-	-	-	-	-	-	21	21	0	0	7	0	0	14	-	-	-
건설업	33	-	-	-	-	-	-	-	1,356	541	3	40	358	3	5	131	-	-	-
수송부문	34	-	-	-	-	-	-	-	14,086	12,864	2,936	22	7,748	84	40	1,199	835	0	1
철도운수	35	-	-	-	-	-	-	-	305	305	0	0	300	-	0	4	-	-	-
육상운수	36	-	-	-	-	-	-	-	11,205	9,984	2,927	21	7,023	3	0	10	-	-	-
수상운수	37	-	-	-	-	-	-	-	1,669	1,669	0	0	410	81	37	1,140	-	-	-
항공운수	38	-	-	-	-	-	-	-	908	907	9	0	15	0	2	44	835	0	1
가정부문	39	8,627	8,627	7,921	706	-	-	-	4,960	3,079	5	1,456	750	10	22	837	-	-	-
상업부문	40	-	-	-	-	-	-	-	3,916	3,886	19	1,223	1,656	8	18	961	-	-	-
공공부문	41	21	21	21	-	-	-	-	2,276	2,268	97	129	818	2	5	311	16	891	-

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,590	13,222	-	-	797	23,357	Domestic Production	
3,949	2,466	1,483	7,356	6,473	69	814	-	-	-	-	2,974	-	-	-	-	-	-	76,040	Imports	
1,263	321	941	5,397	4,513	69	814	-	-	-	-	-	-	-	-	-	-	-	43,942	(Petroleum Products)	
2,687	2,145	542	1,960	1,960	-	-	-	-	-	-	-	-	-	-	-	-	-	13,403	(Petroleum Imports)	
-112	-57	-55	-436	-423	-8	-5	-	-	-	-	-	-	-	-	-	-	-	-3,997	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-2,280	Int'l Bunkers	
-133	-101	-33	3	12	-1	-8	-	-	-	-	49	-	-	-	-	-	-	365	Stock Change(+/-)	
109	74	35	240	229	2	10	-	-	-	-	109	-	-	-	-	-	-	6,939	Former Stock	
-243	-174	-68	-238	-216	-3	-18	-	-	-	-	-60	-	-	-	-	-	-	-6,574	Ending Stock	
-102	-23	-80	-3	-15	-0	12	-	-	-	-	-	-	-	-	-	-	-	-553	Statistical Difference	
3,601	2,285	1,316	6,921	6,048	60	813	-	-	-	-	3,023	-	1,590	13,222	-	-	797	92,931	Primary Supply	
-233	-231	-2	-28	-28	-	-	-	-	-	-	-3,023	1,011	-1,590	-13,222	8,111	75	-	-18,230	Transformation	
-0	-0	-	-	-	-	-	-	-	-	-	-2,260	-	-1,590	-13,222	9,260	79	-	-17,062	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-0	District Heating	
-233	-231	-2	-28	-28	-	-	-	-	-	-	-747	1,017	-	-	-	-	-	5	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-16	-5	-	-	-1,149	-4	-	-1,174	Own Use & Loss	
3,368	2,054	1,314	6,893	6,020	60	813	-	-	-	-	-	1,011	-	-	8,111	75	797	74,701	Final Consumption	
229	128	101	6,891	6,019	60	813	-	-	-	-	-	235	-	-	5,089	-	-	36,144	Industry	
1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	125	-	-	1,813	Agri. Fishery	
1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	87	-	-	205	Mining	
224	124	100	6,079	6,019	60	-	-	-	-	-	-	-	-	-	4,877	-	-	32,535	Manufacturing	
18	11	7	-	-	-	-	-	-	-	-	-	-	-	-	298	-	-	1,378	Food Tobacco	
6	4	2	-	-	-	-	-	-	-	-	-	-	-	-	817	-	-	2,491	Textile & Apparel	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-	126	Wood & Wood Pro.	
2	2	0	-	-	-	-	-	-	-	-	-	-	-	-	333	-	-	1,238	Pulp & Publications	
42	12	30	6,049	5,989	60	-	-	-	-	-	-	-	-	-	939	-	-	9,953	Petro. Chemical	
39	27	11	2	2	-	-	-	-	-	-	-	-	-	-	484	-	-	4,417	Non-Metallic	
18	9	10	-	-	-	-	-	-	-	-	-	-	-	-	865	-	-	9,597	Iron & Steel	
17	11	6	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	187	Non-ferrous	
67	39	28	0	0	-	-	-	-	-	-	-	-	-	-	1,040	-	-	1,906	Fabricated Metal	
14	9	6	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-	1,221	Other Manufacturing	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	Other Energy	
3	3	0	813	-	-	813	-	-	-	-	-	-	-	-	-	-	-	1,356	Construction	
1,222	15	1,207	0	0	-	-	-	-	-	-	-	-	-	-	87	-	-	14,173	Transport	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	-	-	392	Rail	
1,221	15	1,206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,205	Land	
-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	1,669	Water	
1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	908	Air	
1,880	1,880	0	-	-	-	-	-	-	-	-	-	455	-	-	1,525	68	731	16,366	Residential	
29	27	2	1	1	-	-	-	-	-	-	-	322	-	-	896	6	66	5,206	Commercial	
8	4	4	-	-	-	-	-	-	-	-	-	-	-	-	514	1	-	2,812	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

2. 1991년

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유										
		Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal		휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유		
								Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G			
1,000 toe																			
국내생산	1	6,776	6,776	6,776	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	19,337	846	-	846	18,491	10,333	8,158	73,689	58,287	3,766	3,232	20,195	431	285	27,963	1,794	621	1
(석유생산)	3	-	-	-	-	-	-	-	59,202	49,970	3,766	1,880	18,615	431	285	22,578	1,794	621	-
(석유수입)	4	-	-	-	-	-	-	-	14,487	8,317	-	1,351	1,580	-	-	5,384	-	-	1
수출	5	-	-	-	-	-	-	-	-10,418	-9,555	-131	-	-3,022	-	-	-5,969	-433	-	-
국제병커링	6	-	-	-	-	-	-	-	-3,149	-3,149	-	-0	-363	-49	-18	-2,134	-584	-	-
재고증감	7	-104	-104	-155	52	-	-	-	-170	-61	-15	593	-214	1	-0	-404	-46	25	-1
연초재고	8	3,831	3,831	2,931	899	-	-	-	2,683	2,203	150	862	485	21	17	531	87	50	1
연말재고	9	-3,934	-3,934	-3,087	-848	-	-	-	-2,853	-2,264	-165	-269	-699	-20	-17	-935	-133	-25	-1
통계오차	10	-1,833	547	547	-	-2,380	-1,375	-1,005	-326	252	170	-285	154	-13	15	-154	210	153	-
1차에너지공급	11	24,206	8,065	7,168	898	16,141	8,958	7,183	59,627	45,773	3,789	3,541	16,750	369	282	19,301	941	799	1
에너지전환	12	-4,759	-946	-888	-58	-3,813	-	-3,813	-6,948	-6,503	-1	-0	-295	-0	-2	-6,205	-	-	-
발전	13	-4,759	-946	-888	-58	-3,813	-	-3,813	-6,498	-6,498	-0	-0	-290	-0	-2	-6,205	-	-	-
지역난방	14	-	-	-	-	-	-	-	-4	-4	-	-	-0	-	-	-4	-	-	-
가스제조	15	-	-	-	-	-	-	-	-450	-5	-0	-0	-4	-	-	-0	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	19,447	7,119	6,280	839	12,328	8,958	3,370	52,675	39,266	3,788	3,540	16,455	369	280	13,092	941	799	1
산업부문	18	12,532	204	52	152	12,328	8,958	3,370	24,251	14,298	89	657	3,487	260	191	9,613	-	-	-
농림어업	19	-	-	-	-	-	-	-	1,849	1,848	59	152	1,490	93	11	42	-	-	-
광업	20	-	-	-	-	-	-	-	121	121	0	3	62	2	4	49	-	-	-
제조업	21	12,532	204	52	152	12,328	8,958	3,370	20,631	11,800	26	499	1,543	162	169	9,401	-	-	-
음식·담배	22	10	-	-	-	10	-	10	1,084	1,070	1	15	120	5	8	921	-	-	-
섬유·의복	23	30	-	-	-	30	-	30	1,567	1,560	0	7	33	9	9	1,503	-	-	-
목재·나무	24	30	-	-	-	30	-	30	79	79	0	0	3	0	0	75	-	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	935	931	0	5	5	1	5	915	-	-	-
석유·화학	26	145	-	-	-	145	-	145	11,940	3,425	0	180	148	23	18	3,056	-	-	-
비금속	27	3,178	26	26	-	3,152	-	3,152	1,350	1,275	0	29	250	50	26	920	-	-	-
1차금속	28	8,980	21	21	-	8,958	8,958	-	1,053	1,030	0	11	89	25	28	877	-	-	-
비철금속	29	3	-	-	-	3	-	3	187	136	0	4	24	5	17	86	-	-	-
조립금속	30	-	-	-	-	-	-	-	984	909	19	19	165	20	35	652	-	-	-
기타제조	31	156	156	5	152	-	-	-	1,423	1,355	5	230	697	24	21	377	-	-	-
기타에너지	32	-	-	-	-	-	-	-	28	28	0	0	8	0	0	19	-	-	-
건설업	33	-	-	-	-	-	-	-	1,649	529	3	3	392	3	7	121	-	-	-
수송부문	34	-	-	-	-	-	-	-	16,062	14,792	3,551	21	8,717	90	38	1,435	940	0	1
철도운수	35	-	-	-	-	-	-	-	310	310	0	0	305	-	1	4	-	-	-
육상운수	36	-	-	-	-	-	-	-	12,855	11,585	3,551	20	7,999	3	0	12	-	-	-
수상운수	37	-	-	-	-	-	-	-	1,947	1,947	0	0	410	87	36	1,413	-	-	-
항공운수	38	-	-	-	-	-	-	-	950	950	0	0	3	-	0	5	940	0	1
가정부문	39	6,916	6,916	6,228	688	-	-	-	6,081	3,912	7	1,646	1,106	6	9	1,139	-	-	-
상업부문	40	-	-	-	-	-	-	-	4,080	4,072	24	1,142	2,285	10	37	574	-	-	-
공공부문	41	-	-	-	-	-	-	-	2,201	2,192	118	74	861	3	6	332	1	799	-

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,263	14,078	-	-	618	22,734	Domestic Production	
4,335	2,807	1,528	11,068	9,908	53	1,106	-	-	-	-	3,586	-	-	-	-	-	-	96,612	Imports	
1,341	349	992	7,892	6,746	53	1,093	-	-	-	-	-	-	-	-	-	-	-	59,202	(Petroleum Products)	
2,994	2,457	537	3,176	3,162	-	14	-	-	-	-	-	-	-	-	-	-	-	14,487	(Petroleum Imports)	
-138	-64	-75	-725	-715	-6	-3	-	-	-	-	-	-	-	-	-	-	-	-10,418	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-3,149	Int'l Bunkers	
72	63	9	-180	-175	1	-7	-	-	-	-	-83	-	-	-	-	-	-	-356	Stock Change(+/-)	
243	174	68	238	216	3	18	-	-	-	-	60	-	-	-	-	-	-	6,574	Former Stock	
-171	-112	-59	-418	-391	-3	-24	-	-	-	-	-143	-	-	-	-	-	-	-6,930	Ending Stock	
70	45	25	-647	-666	-0	19	-	-	-	-	-0	-	-	-	-	-	-	-2,159	Statistical Difference	
4,339	2,851	1,488	9,515	8,352	47	1,115	-	-	-	-	3,503	-	1,263	14,078	-	-	618	103,294	Primary Supply	
-445	-443	-2	-	-	-	-	-	-	-	-	-3,503	1,540	-1,263	-14,078	8,976	80	-	-19,954	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-2,340	-	-1,263	-14,078	10,201	80	-	-18,655	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-1	District Heating	
-445	-443	-2	-	-	-	-	-	-	-	-	-1,143	1,522	-	-	-	-	-	-71	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-20	18	-	-	-1,225	-4	-	-1,230	Own Use & Loss	
3,894	2,408	1,486	9,515	8,352	47	1,115	-	-	-	-	-	1,540	-	-	8,976	80	618	83,336	Final Consumption	
438	219	219	9,515	8,352	47	1,115	-	-	-	-	-	313	-	-	5,606	-	-	42,701	Industry	
2	2	-	-	-	-	-	-	-	-	-	-	0	-	-	153	-	-	2,002	Agri. Fishery	
1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	86	-	-	208	Mining	
431	213	218	8,400	8,352	47	-	-	-	-	-	-	313	-	-	5,366	-	-	38,842	Manufacturing	
14	11	3	-	-	-	-	-	-	-	-	-	14	-	-	325	-	-	1,434	Food Tobacco	
7	6	1	-	-	-	-	-	-	-	-	-	17	-	-	852	-	-	2,466	Textile & Apparel	
-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	59	-	-	168	Wood & Wood Pro.	
3	3	0	-	-	-	-	-	-	-	-	-	3	-	-	364	-	-	1,302	Pulp & Publications	
153	48	104	8,363	8,315	47	-	-	-	-	-	-	17	-	-	1,103	-	-	13,205	Petro. Chemical	
71	50	21	4	4	-	-	-	-	-	-	-	50	-	-	563	-	-	5,140	Non-Metallic	
23	11	12	-	-	-	-	-	-	-	-	-	86	-	-	898	-	-	11,016	Iron & Steel	
18	12	6	33	33	-	-	-	-	-	-	-	-	-	-	-	-	-	190	Non-ferrous	
75	48	27	0	0	-	-	-	-	-	-	-	114	-	-	1,152	-	-	2,249	Fabricated Metal	
68	24	43	-	-	-	-	-	-	-	-	-	13	-	-	51	-	-	1,643	Other Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	Other Energy	
4	4	-	1,115	-	-	1,115	-	-	-	-	-	-	-	-	-	-	-	1,649	Construction	
1,270	9	1,261	-	-	-	-	-	-	-	-	-	-	-	-	94	-	-	16,156	Transport	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94	-	-	404	Rail	
1,270	9	1,261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,855	Land	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,947	Water	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	950	Air	
2,169	2,169	0	-	-	-	-	-	-	-	-	-	810	-	-	1,675	72	538	16,091	Residential	
8	7	2	-	-	-	-	-	-	-	-	-	350	-	-	1,057	7	80	5,574	Commercial	
8	4	4	-	-	-	-	-	-	-	-	-	68	-	-	544	1	-	2,813	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

3. 1992년

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄			유연탄				에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G
1,000 toe																		
국내생산	1	5,386	5,386	5,386	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	19,762	485	-	485	19,277	10,811	8,465	90,732	69,196	4,269	5,297	23,162	502	262	32,831	2,159	715
(석유생산)	3	-	-	-	-	-	-	-	73,147	61,713	4,269	4,054	22,316	502	262	27,437	2,159	715
(석유수입)	4	-	-	-	-	-	-	-	17,585	7,482	-	1,243	846	-	-	5,394	-	-
수출	5	-	-	-	-	-	-	-	-13,769	-13,000	-16	-0	-3,967	-0	-	-7,981	-702	-333
국제병커링	6	-	-	-	-	-	-	-	-3,976	-3,976	-	-0	-482	-93	-4	-2,746	-651	-
재고증감	7	305	305	69	236	-	-	-	-706	-340	-1	-184	-290	-3	-1	88	58	-5
연초재고	8	3,934	3,934	3,087	848	-	-	-	3,618	2,850	165	269	699	20	17	1,521	133	25
연말재고	9	-3,629	-3,629	-3,018	-611	-	-	-	-4,324	-3,190	-166	-453	-989	-24	-19	-1,433	-75	-30
통계오차	10	-1,883	74	74	-	-1,957	-1,375	-582	-541	431	400	-375	216	-13	15	-140	310	18
1차에너지공급	11	23,570	6,251	5,529	722	17,319	9,436	7,883	71,740	52,311	4,651	4,737	18,639	392	271	22,051	1,174	395
에너지전환	12	-5,102	-888	-838	-49	-4,214	-	-4,214	-8,800	-8,172	-2	-1	-595	-0	-1	-7,572	-	-
발전	13	-5,102	-888	-838	-49	-4,214	-	-4,214	-8,113	-8,113	-0	-1	-586	-0	-1	-7,525	-	-
지역난방	14	-	-	-	-	-	-	-	-50	-50	-	-	-2	-	-	-48	-	-
가스제조	15	-	-	-	-	-	-	-	-638	-9	-2	-1	-7	-	-	-0	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	18,469	5,363	4,691	672	13,105	9,436	3,669	62,939	44,139	4,649	4,736	18,044	392	271	14,479	1,174	395
산업부문	18	13,381	276	28	248	13,105	9,436	3,669	30,514	15,527	117	705	3,631	257	184	10,634	-	-
농림어업	19	-	-	-	-	-	-	-	2,101	2,099	83	208	1,659	98	10	42	-	-
광업	20	-	-	-	-	-	-	-	113	112	0	2	56	2	5	48	-	-
제조업	21	13,381	276	28	248	13,105	9,436	3,669	26,254	12,857	31	493	1,612	154	162	10,404	-	-
음식·담배	22	24	-	-	-	24	-	24	1,169	1,153	1	10	119	5	7	1,011	-	-
섬유·의복	23	75	-	-	-	75	-	75	1,443	1,438	0	6	34	9	6	1,382	-	-
목재·나무	24	-	-	-	-	-	-	-	78	78	0	0	3	0	0	74	-	-
펄프·인쇄	25	6	-	-	-	6	-	6	1,073	1,071	0	4	6	1	5	1,055	-	-
석유·화학	26	131	-	-	-	131	-	131	16,960	3,815	0	169	154	22	14	3,456	-	-
비금속	27	3,442	14	14	-	3,428	-	3,428	1,526	1,432	0	27	233	43	17	1,112	-	-
1차금속	28	9,615	179	12	168	9,436	9,436	-	1,305	1,288	0	7	86	24	24	1,147	-	-
비철금속	29	5	-	-	-	5	-	5	137	123	0	4	23	6	14	77	-	-
조립금속	30	-	-	-	-	-	-	-	1,048	973	21	19	193	22	54	664	-	-
기타제조	31	82	82	2	80	-	-	-	1,477	1,451	9	245	753	20	20	403	-	-
기타에너지	32	-	-	-	-	-	-	-	37	34	-	0	10	1	0	23	-	-
건설업	33	-	-	-	-	-	-	-	2,047	459	3	3	304	3	7	140	-	-
수송부문	34	-	-	-	-	-	-	-	18,430	17,039	4,410	33	9,527	111	37	1,748	1,173	0
철도운수	35	-	-	-	-	-	-	-	316	316	0	0	311	-	1	4	-	-
육상운수	36	-	-	-	-	-	-	-	14,644	13,254	4,409	32	8,794	3	0	16	-	0
수상운수	37	-	-	-	-	-	-	-	2,288	2,288	0	1	421	109	35	1,722	-	-
항공운수	38	-	-	-	-	-	-	-	1,182	1,182	0	0	2	-	0	6	1,173	0
가정부문	39	5,087	5,087	4,662	425	-	-	-	7,607	5,242	8	2,545	1,519	7	10	1,154	-	-
상업부문	40	-	-	-	-	-	-	-	4,798	4,745	37	1,378	2,654	12	33	630	-	-
공공부문	41	-	-	-	-	-	-	-	1,590	1,586	77	75	713	4	7	314	1	395

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,216	14,133	-	-	722	21,456	Domestic Production	
5,478	3,453	2,025	16,058	14,398	59	1,601	-	-	-	-	4,453	-	-	-	-	-	-	114,946	Imports	
1,537	455	1,081	9,897	8,300	59	1,538	-	-	-	-	-	-	-	-	-	-	-	73,147	(Petroleum Products)	
3,942	2,998	943	6,161	6,098	-	63	-	-	-	-	-	-	-	-	-	-	-	17,585	(Petroleum Imports)	
-69	-21	-47	-700	-691	-7	-3	-	-	-	-	-	-	-	-	-	-	-	-13,769	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-3,976	Int'l Bunkers	
-89	-66	-24	-277	-243	-4	-30	-	-	-	-	56	-	-	-	-	-	-	-345	Stock Change(+/-)	
170	112	59	597	570	3	24	-	-	-	-	143	-	-	-	-	-	-	7,695	Former Stock	
-259	-177	-82	-874	-813	-7	-54	-	-	-	-	-87	-	-	-	-	-	-	-8,040	Ending Stock	
121	54	66	-1,093	-1,108	-2	17	-	-	-	-	72	-	-	-	-	-	-	-2,351	Statistical Difference	
5,441	3,421	2,020	13,988	12,357	46	1,585	-	-	-	-	4,581	-	1,216	14,133	-	-	722	115,962	Primary Supply	
-629	-626	-2	-	-	-	-	-	-	-	-	-4,581	2,219	-1,216	-14,133	9,911	143	-	-21,559	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-2,892	-	-1,216	-14,133	11,263	121	-	-20,071	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-8	District Heating	
-629	-626	-2	-	-	-	-	-	-	-	-	-1,633	2,246	-	-	-	-	-	-25	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-56	-27	-	-	-1,352	-20	-	-1,455	Own Use & Loss	
4,812	2,794	2,018	13,988	12,357	46	1,585	-	-	-	-	-	219	-	-	9,911	143	722	94,403	Final Consumption	
999	365	635	13,988	12,357	46	1,585	-	-	-	-	-	377	-	-	6,063	-	482	50,818	Industry	
2	2	-	-	-	-	-	-	-	-	-	-	0	-	-	185	-	-	2,286	Agri. Fishery	
1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	79	-	-	193	Mining	
995	360	634	12,403	12,357	46	-	-	-	-	-	-	377	-	-	5,799	-	482	46,293	Manufacturing	
16	12	4	-	-	-	-	-	-	-	-	-	15	-	-	347	-	-	1,556	Food Tobacco	
6	4	1	-	-	-	-	-	-	-	-	-	20	-	-	895	-	-	2,434	Textile & Apparel	
-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	65	-	-	142	Wood & Wood Pro.	
2	1	1	-	-	-	-	-	-	-	-	-	5	-	-	401	-	-	1,485	Pulp & Publications	
749	203	546	12,396	12,351	46	-	-	-	-	-	-	25	-	-	1,244	-	-	18,360	Petro. Chemical	
90	64	27	4	4	-	-	-	-	-	-	-	60	-	-	616	-	-	5,644	Non-Metallic	
17	10	7	-	-	-	-	-	-	-	-	-	103	-	-	926	-	-	11,949	Iron & Steel	
14	9	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142	Non-ferrous	
75	46	30	-	-	-	-	-	-	-	-	-	130	-	-	1,242	-	-	2,419	Fabricated Metal	
26	11	15	-	-	-	-	-	-	-	-	-	20	-	-	62	-	482	2,124	Other Manufacturing	
0	0	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	37	Other Energy	
2	2	0	1,585	-	-	1,585	-	-	-	-	-	-	-	-	-	-	-	2,047	Construction	
1,390	10	1,380	-	-	-	-	-	-	-	-	-	-	-	-	101	-	-	18,531	Transport	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	-	-	417	Rail	
1,390	10	1,380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,644	Land	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,288	Water	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,182	Air	
2,365	2,365	0	-	-	-	-	-	-	-	-	-	1,314	-	-	1,874	134	210	16,227	Residential	
53	51	2	-	-	-	-	-	-	-	-	-	446	-	-	1,300	7	29	6,581	Commercial	
4	3	1	-	-	-	-	-	-	-	-	-	82	-	-	572	1	1	2,247	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

4. 1993년

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유									
		Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal		Energy Use	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유
1,000 toe																		
국내생산	1	4,233	4,233	4,233	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	23,473	470	-	470	23,003	11,432	11,571	99,788	75,939	5,446	6,630	26,210	525	247	34,096	2,280	506
(석유생산)	3	-	-	-	-	-	-	-	78,320	66,947	5,446	4,414	24,568	525	247	28,961	2,280	506
(석유수입)	4	-	-	-	-	-	-	-	21,468	8,992	-	2,215	1,642	-	-	5,135	-	-
수출	5	-	-	-	-	-	-	-	-15,385	-13,882	-69	-1	-5,223	-	-	-7,821	-629	-139
국제병커링	6	-	-	-	-	-	-	-	-4,678	-4,678	-	-0	-516	-105	-1	-3,445	-609	-
재고증감	7	376	376	258	118	-	-	-	-360	-364	-210	-239	-119	4	4	163	34	-1
연초재고	8	3,629	3,629	3,018	611	-	-	-	4,386	3,252	166	453	1,052	24	19	1,433	75	30
연말재고	9	-3,253	-3,253	-2,759	-494	-	-	-	-4,746	-3,616	-376	-692	-1,171	-19	-14	-1,270	-41	-31
통계오차	10	-2,242	-63	-63	-	-2,179	-890	-1,288	-869	123	442	-407	-163	-15	19	-84	331	-0
1차에너지공급	11	25,840	5,016	4,428	588	20,824	10,542	10,283	78,495	57,139	5,609	5,983	20,188	410	269	22,908	1,406	366
에너지전환	12	-6,825	-880	-838	-42	-5,945	-	-5,945	-8,620	-7,770	-1	-1	-317	-0	-1	-7,450	-	-
발전	13	-6,825	-880	-838	-42	-5,945	-	-5,945	-7,646	-7,646	-0	-0	-310	-0	-1	-7,335	-	-
지역난방	14	-	-	-	-	-	-	-	-115	-115	-	-	-1	-	-	-115	-	-
가스제조	15	-	-	-	-	-	-	-	-858	-9	-1	-1	-6	-	-	-0	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	18,860	3,981	3,436	546	14,879	10,542	4,338	69,876	49,369	5,608	5,982	19,871	410	268	15,458	1,406	366
산업부문	18	15,299	420	24	396	14,879	10,542	4,338	32,654	16,286	146	752	3,836	258	176	11,118	-	-
농림어업	19	-	-	-	-	-	-	-	2,369	2,367	105	252	1,820	116	21	53	-	-
광업	20	-	-	-	-	-	-	-	96	95	1	2	55	2	3	33	-	-
제조업	21	15,299	420	24	396	14,879	10,542	4,338	28,227	13,367	37	491	1,661	137	148	10,893	-	-
음식·담배	22	29	-	-	-	29	-	29	1,186	1,168	1	11	81	6	6	1,063	-	-
섬유·의복	23	88	-	-	-	88	-	88	1,476	1,471	0	10	35	7	5	1,414	-	-
목재·나무	24	-	-	-	-	-	-	-	76	76	0	1	3	0	0	72	-	-
펄프·인쇄	25	7	-	-	-	7	-	7	1,169	1,167	0	5	9	2	3	1,149	-	-
석유·화학	26	154	-	-	-	154	-	154	18,577	4,006	3	149	167	19	11	3,657	-	-
비금속	27	4,072	12	12	-	4,060	-	4,060	1,568	1,462	0	25	249	34	16	1,138	-	-
1차금속	28	10,821	280	12	268	10,542	10,542	-	1,386	1,370	0	13	117	25	25	1,189	-	-
비철금속	29	-	-	-	-	-	-	-	140	124	0	5	25	7	13	75	-	-
조립금속	30	-	-	-	-	-	-	-	1,188	1,103	25	21	223	23	54	757	-	-
기타제조	31	128	128	-	128	-	-	-	1,416	1,388	8	251	741	14	14	360	-	-
기타에너지	32	-	-	-	-	-	-	-	45	31	-	0	13	0	0	18	-	-
건설업	33	-	-	-	-	-	-	-	1,962	456	3	7	300	3	5	139	-	-
수송부문	34	-	-	-	-	-	-	-	21,011	19,492	5,329	35	10,351	127	36	2,208	1,406	1
철도운수	35	-	-	-	-	-	-	-	333	333	0	0	329	-	1	4	-	-
육상운수	36	-	-	-	-	-	-	-	16,529	15,010	5,328	35	9,616	4	1	26	0	-
수상운수	37	-	-	-	-	-	-	-	2,733	2,733	1	0	404	123	34	2,171	-	-
항공운수	38	-	-	-	-	-	-	-	1,416	1,416	0	0	2	0	0	7	1,406	1
가정부문	39	3,561	3,561	3,411	150	-	-	-	8,811	6,316	11	3,356	1,806	13	29	1,101	-	-
상업부문	40	-	-	-	-	-	-	-	5,858	5,737	52	1,759	3,195	8	19	704	-	-
공공부문	41	-	-	-	-	-	-	-	1,541	1,538	70	80	682	4	8	327	1	365

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,502	14,535	-	-	742	21,011	Domestic Production	
6,002	3,763	2,239	17,847	16,266	56	1,525	-	-	-	-	5,790	-	-	-	-	-	-	29,051	Imports	
1,464	441	.023	9,909	8,328	56	1,525	-	-	-	-	-	-	-	-	-	-	-	78,320	(Petroleum Products)	
4,537	3,322	1,216	7,938	7,938	-	-	-	-	-	-	-	-	-	-	-	-	-	21,468	(Petroleum Imports)	
-139	-51	-88	-1,365	-1,314	-2	-49	-	-	-	-	-	-	-	-	-	-	-	-15,385	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-4,678	Int'l Bunkers	
27	81	-53	-24	-41	1	17	-	-	-	-	-38	-	-	-	-	-	-	-22	Stock Change(+/-)	
259	177	82	874	813	7	54	-	-	-	-	88	-	-	-	-	-	-	8,104	Former Stock	
-232	-97	-136	-898	-854	-6	-37	-	-	-	-	-126	-	-	-	-	-	-	-8,126	Ending Stock	
100	44	57	-1,093	-1,102	-1	11	-	-	-	-	-29	-	-	-	-	-	-	-3,140	Statistical Difference	
5,990	3,836	2,154	15,366	13,810	53	1,503	-	-	-	-	5,723	-	1,502	14,535	-	-	742	126,836	Primary Supply	
-850	-848	-1	-	-	-	-	-	-	-	-	-5,723	3,027	-1,502	-14,535	10,985	360	-	-22,832	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-3,273	-37	-1,502	-14,535	12,422	265	-	-21,130	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-	-36	-	-	-	125	-	-26	District Heating	
-850	-848	-1	-	-	-	-	-	-	-	-	-2,402	3,224	-	-	-	-	-	-36	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-48	-124	-	-	-1,436	-31	-	-1,639	Own Use & Loss	
5,141	2,988	2,153	15,366	13,810	53	1,503	-	-	-	-	-	3,027	-	-	10,985	360	742	103,850	Final Consumption	
1,003	370	633	15,366	13,810	53	1,503	-	-	-	-	-	460	-	-	6,581	-	569	55,563	Industry	
2	2	-	-	-	-	-	-	-	-	-	-	0	-	-	191	-	-	2,560	Agri. Fishery	
1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	75	-	-	171	Mining	
998	365	632	13,863	13,810	53	-	-	-	-	-	-	460	-	-	6,316	-	569	50,870	Manufacturing	
18	14	4	-	-	-	-	-	-	-	-	-	16	-	-	353	-	-	1,584	Food Tobacco	
5	4	1	-	-	-	-	-	-	-	-	-	27	-	-	861	-	-	2,453	Textile & Apparel	
-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	70	-	-	146	Wood & Wood Pro.	
2	1	1	-	-	-	-	-	-	-	-	-	7	-	-	439	-	-	1,622	Pulp & Publications	
724	193	531	13,847	13,794	53	-	-	-	-	-	-	28	-	-	1,397	-	-	20,156	Petro. Chemical	
103	74	29	3	3	-	-	-	-	-	-	-	71	-	-	682	-	-	6,394	Non-Metallic	
17	12	5	-	-	-	-	-	-	-	-	-	126	-	-	1,083	-	-	13,417	Iron & Steel	
16	6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	Non-ferrous	
85	50	34	-	-	-	-	-	-	-	-	-	159	-	-	1,376	-	-	2,723	Fabricated Metal	
28	9	18	-	-	-	-	-	-	-	-	-	25	-	-	54	-	569	2,192	Other Manufacturing	
1	1	-	13	13	-	-	-	-	-	-	-	-	-	-	-	-	-	45	Other Energy	
2	2	-	1,503	-	-	1,503	-	-	-	-	-	-	-	-	-	-	-	1,962	Construction	
1,519	5	1,513	-	-	-	-	-	-	-	-	-	-	-	-	108	-	-	21,119	Transport	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	108	-	-	441	Rail	
1,519	5	1,513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,529	Land	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,733	Water	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,416	Air	
2,495	2,490	5	-	-	-	-	-	-	-	-	-	2,016	-	-	2,057	354	148	16,947	Residential	
121	119	2	-	-	-	-	-	-	-	-	-	434	-	-	1,606	2	24	7,924	Commercial	
3	3	0	-	-	-	-	-	-	-	-	-	117	-	-	633	4	1	2,296	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유									
		Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal		휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유	
								Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G		
1,000 toe																		
국내생산	1	3,329	3,329	3,329	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	25,863	420	-	420	25,443	11,124	14,319	106,857	80,875	6,691	6,832	27,275	520	226	35,716	3,258	357
(석유생산)	3	-	-	-	-	-	-	-	82,344	70,376	6,691	4,468	24,725	520	226	30,131	3,258	357
(석유수입)	4	-	-	-	-	-	-	-	24,514	10,499	-	2,363	2,550	-	-	5,585	-	-
수출	5	-	-	-	-	-	-	-	-13,791	-12,319	-75	-64	-5,018	-	-	-6,309	-853	-
국제병커링	6	-	-	-	-	-	-	-	-5,098	-5,098	-	-0	-643	-74	-2	-3,720	-659	-
재고증감	7	-390	-390	-296	-94	-	-	-	-443	-617	130	-132	-82	-4	-3	-444	-88	4
연초재고	8	3,253	3,253	2,759	494	-	-	-	4,747	3,616	376	692	1,171	19	14	1,270	41	31
연말재고	9	-3,643	-3,643	-3,056	-587	-	-	-	-5,190	-4,233	-246	-824	-1,253	-23	-17	-1,714	-129	-27
통계오차	10	-2,269	35	35	-	-2,304	-822	-1,482	-1,161	-163	-5	-19	8	-21	24	-101	-49	-0
1차에너지급	11	26,532	3,394	3,068	326	23,139	10,301	12,838	86,364	62,677	6,741	6,616	21,540	421	246	25,142	1,608	361
에너지전환	12	-9,110	-993	-968	-25	-8,117	-	-8,117	-10,025	-9,040	-0	-1	-423	-0	-0	-8,615	-	-
발전	13	-9,110	-993	-968	-25	-8,117	-	-8,117	-8,777	-8,777	-0	-1	-421	-0	-0	-8,355	-	-
지역난방	14	-	-	-	-	-	-	-	-261	-261	-	-	-1	-	-	-260	-	-
가스제조	15	-	-	-	-	-	-	-	-987	-2	-	-0	-1	-	-	-1	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	17,423	2,401	2,100	301	15,022	10,301	4,720	76,339	53,637	6,741	6,615	21,116	421	246	16,527	1,608	361
산업부문	18	15,305	283	22	261	15,022	10,301	4,720	35,906	17,433	182	770	4,080	264	154	11,983	-	0
농림어업	19	-	-	-	-	-	-	-	2,713	2,709	135	260	2,094	130	26	63	-	-
광업	20	-	-	-	-	-	-	-	85	83	0	2	47	3	2	30	-	-
제조업	21	15,302	283	22	261	15,022	10,301	4,720	31,160	14,217	43	498	1,650	130	123	11,774	-	0
음식·담배	22	31	-	-	-	31	-	31	1,285	1,255	0	8	83	7	5	1,151	-	-
섬유·의복	23	96	-	-	-	96	-	96	1,495	1,489	0	7	27	7	6	1,442	-	-
목재·나무	24	-	-	-	-	-	-	-	110	110	0	0	3	0	0	105	-	-
펄프·인쇄	25	8	-	-	-	8	-	8	1,299	1,297	0	3	10	2	1	1,281	-	-
석유·화학	26	168	-	-	-	168	-	168	20,757	4,184	3	173	147	18	11	3,833	-	-
비금속	27	4,425	7	7	-	4,418	-	4,418	1,673	1,543	0	21	237	25	14	1,246	-	-
1차금속	28	10,405	104	15	88	10,301	10,301	-	1,607	1,588	0	6	113	22	2	1,445	-	-
비철금속	29	-	-	-	-	-	-	-	181	156	0	9	25	7	11	103	-	-
조립금속	30	-	-	-	-	-	-	-	1,206	1,106	29	17	204	24	50	782	-	0
기타제조	31	173	173	-	173	-	-	-	1,492	1,446	6	253	780	15	23	369	-	-
기타에너지	32	-	-	-	-	-	-	-	56	44	4	0	20	1	0	18	-	-
건설업	33	-	-	-	-	-	-	-	1,948	423	4	9	289	2	3	116	-	-
수송부문	34	-	-	-	-	-	-	-	23,732	22,069	6,452	30	11,224	111	41	2,610	1,601	1
철도운수	35	-	-	-	-	-	-	-	323	323	0	0	319	-	1	3	-	-
육상운수	36	-	-	-	-	-	-	-	18,669	17,006	6,451	30	10,461	4	5	54	-	-
수상운수	37	-	-	-	-	-	-	-	3,134	3,134	0	0	443	106	35	2,550	-	-
항공운수	38	-	-	-	-	-	-	-	1,606	1,606	0	0	1	0	0	3	1,601	1
가정부문	39	2,118	2,118	2,078	40	-	-	-	9,260	6,728	12	3,770	1,824	17	23	1,082	-	-
상업부문	40	-	-	-	-	-	-	-	5,923	5,896	47	1,965	3,265	24	22	573	-	-
공공부문	41	-	-	-	-	-	-	-	1,518	1,511	49	80	723	5	7	279	8	360

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,025	14,663	-	-	906	19,922	Domestic Production	
6,378	4,107	2,271	19,605	17,824	91	1,691	-	-	-	-	7,707	-	-	-	-	-	-	140,427	Imports	
1,544	428	1,116	10,423	8,645	91	1,688	-	-	-	-	-	-	-	-	-	-	-	82,344	(Petroleum Products)	
4,833	3,679	1,154	9,182	9,179	-	3	-	-	-	-	-	-	-	-	-	-	-	24,514	(Petroleum Imports)	
-138	-58	-80	-1,333	-1,163	-1	-169	-	-	-	-	-	-	-	-	-	-	-	-13,791	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-5,098	Int'l Bunkers	
124	24	100	50	58	-1	-7	-	-	-	-	-78	-	-	-	-	-	-	-911	Stock Change(+/-)	
232	97	136	899	854	6	38	-	-	-	-	126	-	-	-	-	-	-	8,127	Former Stock	
-109	-73	-36	-849	-796	-7	-45	-	-	-	-	-204	-	-	-	-	-	-	-9,037	Ending Stock	
35	-5	41	-1,033	-1,039	0	6	-	-	-	-	-11	-	-	-	-	-	-	-3,441	Statistical Difference	
6,398	4,067	2,331	17,289	15,679	89	1,521	-	-	-	-	7,618	-	1,025	14,663	-	-	906	137,108	Primary Supply	
-984	-983	-1	-	-	-	-	-	-	-	-	-7,618	4,057	-1,025	-14,663	12,602	460	-	-25,321	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-4,179	-38	-1,025	-14,663	14,189	391	-	-23,212	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-149	-43	-	-	-	104	-	-349	District Heating	
-984	-983	-1	-	-	-	-	-	-	-	-	-3,186	4,113	-	-	-	-	-	-60	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-104	26	-	-	-1,587	-35	-	-1,700	Own Use & Loss	
5,414	3,084	2,330	17,289	15,679	89	1,521	-	-	-	-	-	4,057	-	-	12,602	460	906	111,787	Final Consumption	
1,184	516	668	17,289	15,679	89	1,521	-	-	-	-	-	600	-	-	6,304	-	626	58,741	Industry	
4	4	0	-	-	-	-	-	-	-	-	-	0	-	-	251	-	-	2,964	Agri. Fishery	
2	2	-	-	-	-	-	-	-	-	-	-	0	-	-	76	-	-	161	Mining	
1,175	507	668	15,768	15,679	89	-	-	-	-	-	-	600	-	-	5,978	-	626	53,669	Manufacturing	
30	22	8	-	-	-	-	-	-	-	-	-	20	-	-	402	-	-	1,737	Food Tobacco	
6	4	2	-	-	-	-	-	-	-	-	-	44	-	-	984	-	-	2,619	Textile & Apparel	
1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	59	-	-	171	Wood & Wood Pro.	
2	1	0	-	-	-	-	-	-	-	-	-	16	-	-	507	-	-	1,830	Pulp & Publications	
820	268	552	15,753	15,664	89	-	-	-	-	-	-	35	-	-	55	-	-	21,015	Petro. Chemical	
127	99	28	3	3	-	-	-	-	-	-	-	85	-	-	1,493	-	-	7,676	Non-Metallic	
19	14	5	-	-	-	-	-	-	-	-	-	169	-	-	755	-	-	12,935	Iron & Steel	
25	10	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	181	Non-ferrous	
100	62	38	-	-	-	-	-	-	-	-	-	195	-	-	1,626	-	-	3,026	Fabricated Metal	
46	26	20	-	-	-	-	-	-	-	-	-	35	-	-	97	-	626	2,422	Other Manufacturing	
1	1	-	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	56	Other Energy	
3	3	0	1,521	-	-	1,521	-	-	-	-	-	-	-	-	-	-	-	1,948	Construction	
1,663	11	1,652	-	-	-	-	-	-	-	-	-	-	-	-	124	-	-	23,857	Transport	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124	-	-	447	Rail	
1,663	11	1,652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18,669	Land	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,134	Water	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,606	Air	
2,533	2,526	7	-	-	-	-	-	-	-	-	-	2,769	-	-	2,284	440	190	17,061	Residential	
26	23	3	-	-	-	-	-	-	-	-	-	544	-	-	3,139	14	48	9,667	Commercial	
7	7	0	-	-	-	-	-	-	-	-	-	143	-	-	752	6	42	2,462	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유										
		Anthracite	Domestic	Imported	Bituminous	원료탄	연료탄		Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G		
			국내탄	수입탄		원료탄	연료탄												
1,000 toe																			
국내생산	1	2,574	2,574	2,574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	28,550	434	-	434	28,117	11,737	16,379	119,020	89,829	7,978	9,030	31,169	586	223	35,998	4,492	353	2
(석유생산)	3	-	-	-	-	-	-	-	92,703	77,966	7,978	5,798	26,461	586	223	32,090	4,477	353	-
(석유수입)	4	-	-	-	-	-	-	-	26,317	11,862	-	3,231	4,708	-	-	3,907	14	-	2
수출	5	-	-	-	-	-	-	-	-17,749	-14,536	-58	-78	-6,208	-	-	-6,333	-1,858	-	-
국제병커링	6	-	-	-	-	-	-	-	-5,671	-5,671	-	0	-832	-90	-3	-4,031	-714	-	-
재고증감	7	-339	-339	-284	-55	-	-	-	-205	-320	-39	-47	-373	-1	5	138	-3	2	-1
연초재고	8	3,643	3,643	3,056	587	-	-	-	5,190	4,233	246	824	1,253	23	17	1,714	129	27	0
연말재고	9	-3,982	-3,982	-3,340	-642	-	-	-	-5,395	-4,553	-286	-871	-1,626	-25	-12	-1,576	-132	-25	-1
통계오차	10	-3,290	126	126	-	-3,416	-932	-2,484	-1,361	-355	-44	-237	101	-28	32	-148	-30	-1	-0
1차에너지공급	11	27,495	2,794	2,415	379	24,701	10,806	13,896	94,042	68,946	7,836	8,668	23,857	466	257	25,623	1,886	354	0
에너지전환	12	-10,168	-1,092	-1,044	-47	-9,076	-	-9,076	-11,295	-10,048	0	0	-893	0	0	-9,155	-	-	-
발전	13	-10,168	-1,092	-1,044	-47	-9,076	-	-9,076	-9,722	-9,722	0	0	-889	0	0	-8,833	-	-	-
지역난방	14	-	-	-	-	-	-	-	-324	-324	-	-	-3	-	-	-321	-	-	-
가스제조	15	-	-	-	-	-	-	-	-1,249	-2	-	0	-1	-	-	0	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	17,327	1,702	1,371	332	15,625	10,806	4,819	82,747	58,898	7,836	8,668	22,964	466	256	16,468	1,886	354	0
산업부문	18	15,972	348	27	321	15,625	10,806	4,819	36,843	17,453	187	1,008	4,286	296	156	11,520	0	1	-
농림어업	19	-	-	-	-	-	-	-	2,934	2,928	139	335	2,200	146	37	72	-	-	-
광업	20	-	-	-	-	-	-	-	80	78	0	2	43	3	1	30	-	-	-
제조업	21	15,972	338	27	321	15,625	10,806	4,819	31,877	14,040	43	663	1,772	145	116	11,301	0	1	-
음식·담배	22	32	-	-	-	32	-	32	1,371	1,329	1	21	102	8	8	1,190	-	-	-
섬유·의복	23	98	-	-	-	98	-	98	1,548	1,542	0	8	31	6	5	1,492	-	-	-
목재·나무	24	-	-	-	-	-	-	-	87	84	0	0	3	1	0	80	-	-	-
펄프·인쇄	25	8	-	-	-	8	-	8	1,328	1,322	1	3	17	1	2	1,297	-	0	-
석유·화학	26	173	-	-	-	173	-	173	21,162	3,798	4	218	140	20	21	3,395	-	-	-
비금속	27	4,519	10	10	-	4,508	-	4,508	1,590	1,450	2	17	230	32	12	1,157	-	-	-
1차금속	28	10,978	173	16	156	10,806	10,806	-	1,599	1,559	0	4	135	6	2	1,411	-	-	-
비철금속	29	-	-	-	-	-	-	-	227	196	0	11	27	7	14	136	-	-	-
조립금속	30	-	-	-	-	-	-	-	1,262	1,140	29	17	223	49	35	787	0	0	-
기타제조	31	165	165	-	165	-	-	-	1,673	1,590	7	365	856	14	15	334	-	-	-
기타에너지	32	-	-	-	-	-	-	-	31	31	0	0	8	1	0	22	-	-	-
건설업	33	-	-	-	-	-	-	-	1,951	407	5	8	271	3	3	117	-	-	-
수송부문	34	-	-	-	-	-	-	-	27,008	25,242	7,527	32	12,639	130	51	3,020	1,842	1	0
철도운수	35	-	-	-	-	-	-	-	326	326	0	0	322	-	1	3	-	-	-
육상운수	36	-	-	-	-	-	-	-	21,219	19,453	7,527	31	11,816	4	10	65	-	-	-
수상운수	37	-	-	-	-	-	-	-	3,618	3,618	0	0	499	127	40	2,952	-	-	-
항공운수	38	-	-	-	-	-	-	-	1,845	1,845	0	0	2	-	0	0	1,842	1	0
가정부문	39	1,355	1,355	1,344	11	-	-	-	10,851	8,186	14	5,076	1,965	19	18	1,095	-	-	-
상업부문	40	-	-	-	-	-	-	-	6,621	6,599	56	2,456	3,378	16	24	668	-	-	-
공공부문	41	-	-	-	-	-	-	-	1,424	1,418	53	96	696	5	7	165	44	352	-

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,369	16,757	-	-	1,050	21,751	Domestic Production	
6,980	4,668	2,313	22,211	20,370	96	1,745	-	-	-	-	9,178	-	-	-	-	-	-	156,749	Imports	
1,662	406	1,256	13,074	11,233	96	1,745	-	-	-	-	-	-	-	-	-	-	-	92,703	(Petroleum Products)	
5,318	4,262	1,057	9,137	9,137	-	-	-	-	-	-	-	-	-	-	-	-	-	26,317	(Petroleum Imports)	
-296	-172	-124	-2,917	-2,714	-	-204	-	-	-	-	-	-	-	-	-	-	-	-17,749	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-5,671	Int'l Bunkers	
10	24	-14	105	119	0	-14	-	-	-	-	35	-	-	-	-	-	-	-509	Stock Change(+/-)	
109	73	36	849	796	7	45	-	-	-	-	169	-	-	-	-	-	-	9,002	Former Stock	
-99	-49	-49	-744	-677	-7	-59	-	-	-	-	-134	-	-	-	-	-	-	-9,511	Ending Stock	
38	32	6	-1,043	-1,053	-1	11	-	-	-	-	-	-	-	-	-	-	-	-4,650	Statistical Difference	
6,740	4,558	2,182	18,356	16,722	96	1,539	-	-	-	-	9,213	-	1,369	16,757	-	-	1,050	149,927	Primary Supply	
-1,247	-1,247	-	-	-	-	-	-	-	-	-	-9,213	5,594	-1,369	-16,757	14,041	641	-	-28,527	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-4,631	-	-1,369	-16,757	15,881	514	-	-26,253	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-	-114	-	-	-	175	-	-263	District Heating	
-1,247	-1,247	-	-	-	-	-	-	-	-	-	-4,442	5,652	-	-	-	-	-	-21	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-140	56	-	-	-1,840	-47	-	-1,972	Own Use & Loss	
5,493	3,311	2,182	18,356	16,722	96	1,539	-	-	-	-	-	5,594	-	-	14,041	641	1,050	121,400	Final Consumption	
1,034	611	423	18,356	16,722	96	1,539	-	-	-	-	-	863	-	-	8,293	-	736	62,707	Industry	
6	6	0	-	-	-	-	-	-	-	-	-	0	-	-	290	-	-	3,225	Agri. Fishery	
2	2	-	-	-	-	-	-	-	-	-	-	0	-	-	88	-	-	168	Mining	
1,020	597	423	16,817	16,722	96	-	-	-	-	-	-	862	-	-	7,916	-	736	57,363	Manufacturing	
41	36	5	-	-	-	-	-	-	-	-	-	31	-	-	437	-	-	1,870	Food Tobacco	
5	3	2	-	-	-	-	-	-	-	-	-	66	-	-	1,057	-	-	2,768	Textile & Apparel	
3	3	0	-	-	-	-	-	-	-	-	-	3	-	-	68	-	-	157	Wood & Wood Pro.	
6	6	0	-	-	-	-	-	-	-	-	-	22	-	-	536	-	-	1,894	Pulp & Publications	
550	261	289	16,814	16,719	96	-	-	-	-	-	-	54	-	-	1,626	-	-	23,015	Petro. Chemical	
138	116	22	3	3	-	-	-	-	-	-	-	108	-	-	802	-	-	7,019	Non-Metallic	
40	33	7	-	-	-	-	-	-	-	-	-	209	-	-	1,385	-	-	14,171	Iron & Steel	
31	12	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	Non-ferrous	
122	79	43	-	-	-	-	-	-	-	-	-	278	-	-	1,902	-	-	3,442	Fabricated Metal	
82	47	36	-	-	-	-	-	-	-	-	-	92	-	-	104	-	736	2,769	Other Manufacturing	
1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	Other Energy	
6	6	0	1,539	-	-	1,539	-	-	-	-	-	-	-	-	-	-	-	1,951	Construction	
1,766	14	1,752	-	-	-	-	-	-	-	-	-	-	-	-	138	-	-	27,146	Transport	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138	-	-	464	Rail	
1,766	14	1,752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21,219	Land	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,618	Water	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,845	Air	
2,665	2,659	6	-	-	-	-	-	-	-	-	-	3,767	-	-	2,434	610	212	19,229	Residential	
23	21	2	-	-	-	-	-	-	-	-	-	839	-	-	2,367	22	53	9,902	Commercial	
6	6	0	-	-	-	-	-	-	-	-	-	125	-	-	808	10	49	2,415	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																		
																			석탄							석유										
																			무연탄			유연탄				에너지유										
																			Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G
1,000 toe																																				
국내생산	1	2,228	2,228	2,228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
수입	2	30,314	525	-	525	29,790	11,489	18,300	131,489	98,996	9,360	10,924	34,370	821	241	37,301	5,914	64	-																	
(석유생산)	3	-	-	-	-	-	-	-	104,079	87,259	9,360	7,096	31,658	821	241	32,714	5,304	64	-																	
(석유수입)	4	-	-	-	-	-	-	-	27,411	11,737	-	3,828	2,712	-	-	4,587	610	-	-																	
수출	5	-	-	-	-	-	-	-	-22,690	-18,155	-336	-403	-7,929	-237	-	-6,530	-2,721	-	-																	
국제병커링	6	-	-	-	-	-	-	-	-6,437	-6,437	-	-0	-958	-83	-11	-4,597	-788	-	-																	
재고증감	7	-196	-196	-214	19	-	-	-	-677	-508	-34	-240	-99	-5	-3	-141	-11	25	0																	
연초재고	8	3,982	3,982	3,340	642	-	-	-	5,390	4,553	286	871	1,626	25	12	1,576	132	25	1																	
연말재고	9	-4,178	-4,178	-3,554	-623	-	-	-	-6,067	-5,061	-320	-1,110	-1,725	-30	-15	-1,717	-143	-0	-1																	
통계오차	10	-247	-31	-31	-	-216	-69	-147	-1,763	-634	-21	-93	-169	-21	28	-340	-18	-0	-0																	
1차에너지공급	11	32,100	2,526	1,983	543	29,574	11,420	18,154	99,923	73,261	8,969	10,189	25,216	475	256	25,692	2,376	88	0																	
에너지전환	12	-13,694	-1,141	-1,089	-52	-12,553	-	-12,553	-11,356	-10,215	-0	-3	-1,515	-0	-0	-8,696	-	-	-																	
발전	13	-13,694	-1,141	-1,089	-52	-12,553	-	-12,553	-9,902	-9,902	-0	-3	-1,502	-0	-0	-8,396	-	-	-																	
지역난방	14	-	-	-	-	-	-	-	-311	-311	-	-	-12	-	-	-299	-	-	-																	
가스제조	15	-	-	-	-	-	-	-	-1,143	-2	-	-0	-1	-	-	-0	-	-	-																	
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
최종에너지소비	17	18,406	1,385	893	492	17,021	11,420	5,601	88,566	63,046	8,969	10,185	23,701	475	256	16,996	2,376	88	0																	
산업부문	18	17,523	502	13	489	17,021	11,420	5,601	38,940	18,098	213	1,037	4,537	253	159	11,898	0	0	-																	
농림어업	19	-	-	-	-	-	-	-	3,294	3,289	164	429	2,398	117	46	134	-	-	-																	
광업	20	-	-	-	-	-	-	-	71	68	0	2	38	1	1	27	-	-	-																	
제조업	21	17,523	502	13	489	17,021	11,420	5,601	33,433	14,338	45	597	1,840	134	109	11,613	0	0	-																	
음식·담배	22	37	-	-	-	37	-	37	1,370	1,327	0	6	93	8	7	1,212	-	-	-																	
섬유·의복	23	113	-	-	-	113	-	113	1,469	1,465	0	8	37	6	4	1,411	-	-	-																	
목재·나무	24	-	-	-	-	-	-	-	93	91	0	0	4	0	1	86	-	-	-																	
펄프·인쇄	25	9	-	-	-	9	-	9	1,438	1,429	0	3	14	1	2	1,410	-	-	-																	
석유·화학	26	199	-	-	-	199	-	199	22,699	4,149	3	203	155	19	30	3,739	-	-	-																	
비금속	27	3,802	2	2	-	3,800	-	3,800	1,543	1,391	1	13	203	29	7	1,140	-	-	-																	
1차금속	28	11,735	315	10	305	11,420	11,420	-	1,468	1,398	0	4	132	3	3	1,257	-	-	-																	
비철금속	29	-	-	-	-	-	-	-	157	134	0	9	23	6	14	82	-	-	-																	
조립금속	30	-	-	-	-	-	-	-	1,372	1,232	31	15	254	47	29	855	0	0	-																	
기타제조	31	1,627	184	-	184	1,442	-	1,442	1,783	1,682	10	336	917	14	13	392	-	-	-																	
기타에너지	32	-	-	-	-	-	-	-	39	39	0	0	8	0	1	29	-	-	-																	
건설업	33	-	-	-	-	-	-	-	2,143	403	3	9	262	2	3	124	0	0	-																	
수송부문	34	-	-	-	-	-	-	-	29,644	27,783	8,664	41	13,572	174	55	3,270	2,005	0	0																	
철도운수	35	-	-	-	-	-	-	-	323	323	-	1	317	-	1	3	-	-	-																	
육상운수	36	-	-	-	-	-	-	-	23,288	21,429	8,664	39	12,664	1	12	49	-	-	-																	
수상운수	37	-	-	-	-	-	-	-	4,020	4,019	0	1	583	174	43	3,218	0	-	-																	
항공운수	38	-	-	-	-	-	-	-	2,013	2,013	0	0	8	-	-	0	2,005	0	0																	
가정부문	39	883	883	881	2	-	-	-	12,022	9,230	14	6,200	1,995	27	20	975	-	-	-																	
상업부문	40	-	-	-	-	-	-	-	6,429	6,412	32	2,805	2,853	17	18	687	0	0	-																	
공공부문	41	-	-	-	-	-	-	-	1,530	1,523	47	102	744	3	3	165	371	87	-																	

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,300	18,481	-	-	1,161	23,170	Domestic Production	
7,122	4,770	2,352	25,372	23,318	88	1,967	-	-	-	-	12,473	-	-	-	-	-	-	174,277	Imports	
1,649	496	1,153	15,171	13,117	88	1,967	-	-	-	-	-	-	-	-	-	-	-	104,079	(Petroleum Products)	
5,473	4,274	1,199	10,201	10,201	-	-	-	-	-	-	-	-	-	-	-	-	-	27,411	(Petroleum Imports)	
-357	-200	-157	-4,178	-3,914	-	-264	-	-	-	-	-	-	-	-	-	-	-	-22,690	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-6,437	Int'l Bunkers	
8	-2	9	-176	-184	-0	8	-	-	-	-	-326	-	-	-	-	-	-	-1,198	Stock Change(+/-)	
93	44	49	744	677	7	59	-	-	-	-	154	-	-	-	-	-	-	9,526	Former Stock	
-86	-46	-40	-920	-862	-7	-51	-	-	-	-	-480	-	-	-	-	-	-	-10,724	Ending Stock	
102	46	56	-1,231	-1,252	-1	22	-	-	-	-	24	-	-	-	-	-	-	-1,986	Statistical Difference	
6,874	4,615	2,260	19,787	17,968	87	1,733	-	-	-	-	12,172	-	1,300	18,481	-	-	1,161	165,136	Primary Supply	
-1,142	-1,142	-	-	-	-	-	-	-	-	-	-12,172	6,937	-1,300	-18,481	15,692	811	-	-33,563	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-5,784	-	-1,300	-18,481	17,672	607	-	-30,881	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-225	-175	-	-	-	240	-	-471	District Heating	
-1,142	-1,142	-	-	-	-	-	-	-	-	-	-5,930	7,076	-	-	-	-	-	3	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-233	36	-	-	-1,980	-36	-	-2,213	Own Use & Loss	
5,733	3,473	2,260	19,787	17,968	87	1,733	-	-	-	-	-	6,937	-	-	15,692	811	1,161	131,573	Final Consumption	
1,055	658	396	19,787	17,968	87	1,733	-	-	-	-	-	1,196	-	-	9,179	-	912	67,751	Industry	
6	6	0	-	-	-	-	-	-	-	-	-	0	-	-	332	-	-	3,626	Agri. Fishery	
3	3	-	-	-	-	-	-	-	-	-	-	1	-	-	90	-	-	162	Mining	
1,040	644	396	18,055	17,968	87	-	-	-	-	-	-	1,195	-	-	8,757	-	912	61,821	Manufacturing	
43	41	2	-	-	-	-	-	-	-	-	-	40	-	-	472	-	-	1,919	Food Tobacco	
4	2	2	-	-	-	-	-	-	-	-	-	93	-	-	1,105	-	-	2,781	Textile & Apparel	
2	2	-	-	-	-	-	-	-	-	-	-	3	-	-	76	-	-	172	Wood & Wood Pro.	
9	9	0	-	-	-	-	-	-	-	-	-	25	-	-	639	-	-	2,111	Pulp & Publications	
500	274	226	18,051	17,964	87	-	-	-	-	-	-	80	-	-	1,801	-	-	24,780	Petro. Chemical	
148	126	22	4	4	-	-	-	-	-	-	-	118	-	-	825	-	-	6,287	Non-Metallic	
69	61	8	-	-	-	-	-	-	-	-	-	282	-	-	1,556	-	-	15,040	Iron & Steel	
23	15	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	157	Non-ferrous	
140	81	59	-	-	-	-	-	-	-	-	-	432	-	-	2,173	-	-	3,978	Fabricated Metal	
101	33	69	-	-	-	-	-	-	-	-	-	122	-	-	112	-	912	4,556	Other Manufacturing	
1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	Other Energy	
7	7	0	1,733	-	-	1,733	-	-	-	-	-	-	-	-	-	-	-	2,143	Construction	
1,861	6	1,855	-	-	-	-	-	-	-	-	-	-	-	-	145	-	-	29,789	Transport	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145	-	-	467	Rail	
1,860	5	1,855	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23,288	Land	
1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,020	Water	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,013	Air	
2,792	2,784	8	-	-	-	-	-	-	-	-	-	4,515	-	-	2,635	762	182	21,000	Residential	
17	17	0	-	-	-	-	-	-	-	-	-	1,073	-	-	2,829	33	10	10,375	Commercial	
7	7	0	-	-	-	-	-	-	-	-	-	153	-	-	904	15	57	2,659	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
		석탄							석유											
		Total of Coal	무연탄			유연탄			에너지유											
			Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G	
																				국내탄
1,000 toe																				
국내생산	1	2,030	2,030	2,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	32,979	433	-	433	32,546	11,480	21,066	152,797	109,614	10,378	12,126	39,098	634	224	40,789	6,365	-	-	
(석유생산)	3	-	-	-	-	-	-	-	-129,691	102,268	10,378	9,945	38,639	634	224	36,578	5,870	-	-	
(석유수입)	4	-	-	-	-	-	-	-	-23,106	7,346	-	2,181	458	-	-	4,211	495	-	-	
수출	5	-	-	-	-	-	-	-	-33,143	-27,126	-1,342	-1,418	-13,707	-118	-	-7,783	-2,758	-	-	
국제병커링	6	-	-	-	-	-	-	-	-7,067	-7,067	-	-0	-1,046	-86	-21	-5,123	-791	-	-	
재고증감	7	-343	-343	-381	38	-	-	-	-687	-225	-94	242	-68	9	4	-254	-64	0	1	
연초재고	8	4,178	4,178	3,554	623	-	-	-	6,141	5,052	320	1,110	1,725	30	15	1,709	142	0	1	
연말재고	9	-4,520	-4,520	-3,935	-586	-	-	-	-6,829	-5,277	-414	-868	-1,793	-21	-12	-1,963	-207	-	-0	
통계오차	10	261	-3	-3	0	264	517	-254	-2,528	-1,056	474	810	118	-27	43	-2,389	-85	-0	-0	
1차에너지공급	11	34,927	2,118	1,647	471	32,810	11,997	20,812	109,372	74,141	9,416	11,760	24,395	412	249	25,241	2,667	-	0	
에너지전환	12	-16,036	-1,045	-1,008	-37	-14,991	-	-14,991	-11,336	-10,577	-0	-3	-1,270	-0	-	-9,303	-	-	-	
발전	13	-16,036	-1,045	-1,008	-37	-14,991	-	-14,991	-10,210	-10,210	-0	-3	-1,256	-0	-	-8,951	-	-	-	
지역난방	14	-	-	-	-	-	-	-	-365	-365	-	-0	-13	-	-	-352	-	-	-	
가스제조	15	-	-	-	-	-	-	-	-761	-1	-	-0	-1	-	-	-0	-	-	-	
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
최종에너지소비	17	18,891	1,072	638	434	17,819	11,997	5,821	98,036	63,564	9,416	11,757	23,125	412	249	15,937	2,667	-	0	
산업부문	18	18,266	447	13	434	17,819	11,997	5,821	47,429	17,845	255	1,948	4,651	247	147	10,597	0	-	-	
농림어업	19	-	-	-	-	-	-	-	3,644	3,638	206	477	2,665	144	57	89	-	-	-	
광업	20	-	-	-	-	-	-	-	57	54	0	2	26	2	1	25	-	-	-	
제조업	21	18,266	447	13	434	17,819	11,997	5,821	41,327	13,698	46	1,461	1,689	100	88	10,313	0	-	-	
음식·담배	22	36	-	-	-	36	-	36	1,256	1,211	0	6	94	6	7	1,098	-	-	-	
섬유·의복	23	98	-	-	-	98	-	98	1,486	1,483	0	13	32	6	2	1,429	-	-	-	
목재·나무	24	-	-	-	-	-	-	-	93	91	0	0	3	0	1	86	-	-	-	
펄프·인쇄	25	7	-	-	-	7	-	7	1,442	1,431	0	2	15	1	2	1,411	-	-	-	
석유·화학	26	178	-	-	-	178	-	178	30,673	4,137	1	1,123	133	18	23	2,839	0	-	-	
비금속	27	4,353	2	2	-	4,351	-	4,351	1,473	1,275	0	12	185	25	6	1,048	-	-	-	
1차금속	28	12,323	325	11	314	11,997	11,997	-	889	829	0	4	118	3	2	702	-	-	-	
비철금속	29	-	-	-	-	-	-	-	139	116	0	8	19	5	10	73	-	-	-	
조립금속	30	-	-	-	-	-	-	-	1,592	1,392	32	12	264	20	24	1,039	0	-	-	
기타제조	31	1,270	120	-	120	1,150	-	1,150	1,792	1,617	12	279	820	15	10	481	-	-	-	
기타에너지	32	-	-	-	-	-	-	-	494	117	0	2	6	1	1	107	-	-	-	
건설업	33	-	-	-	-	-	-	-	2,400	455	3	8	271	2	2	170	-	-	-	
수송부문	34	-	-	-	-	-	-	-	30,584	28,595	9,074	39	13,235	125	63	3,804	2,253	-	0	
철도운수	35	-	-	-	-	-	-	-	321	321	-	0	319	-	0	2	-	-	-	
육상운수	36	-	-	-	-	-	-	-	23,509	21,521	9,074	38	12,341	5	11	53	-	-	-	
수상운수	37	-	-	-	-	-	-	-	4,493	4,492	1	2	567	120	52	3,750	-	-	-	
항공운수	38	-	-	-	-	-	-	-	2,261	2,261	-	0	7	-	-	-	2,253	-	0	
가정부문	39	625	625	625	-	-	-	-	11,241	8,397	6	6,107	1,506	19	23	736	-	-	-	
상업부문	40	-	-	-	-	-	-	-	7,329	7,290	31	3,576	3,007	16	14	645	0	-	-	
공공부문	41	-	-	-	-	-	-	-	1,453	1,437	50	87	726	5	3	155	413	-	-	

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,351	19,271	-	-	1,344	23,997	Domestic Production	
7,845	5,243	2,602	35,338	29,717	82	2,414	754	12	254	2,105	15,118	-	-	-	-	-	-	200,894	Imports	
2,177	711	1,466	25,246	19,627	82	2,414	751	12	254	2,105	-	-	-	-	-	-	-	129,691	(Petroleum Products)	
5,668	4,532	1,136	10,091	10,089	-	-	2	-	-	-	-	-	-	-	-	-	-	23,106	(Petroleum Imports)	
-460	-290	-170	-5,558	-4,699	-	-536	-107	-	-60	-157	-	-	-	-	-	-	-	-33,143	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,067	Int'l Bunkers
-338	-240	-98	-124	-166	1	22	0	-0	-0	19	-307	-	-	-	-	-	-	-1,337	Stock Change(+/-)	
82	44	38	1,007	862	7	51	49	1	4	34	480	-	-	-	-	-	-	10,799	Former Stock	
-420	-284	-136	-1,132	-1,028	-7	-29	-49	-1	-4	-15	-786	-	-	-	-	-	-	-12,135	Ending Stock	
154	53	101	-1,626	-61	20	32	-88	0	-45	-1,484	-19	-	-	-	-	-	-	-2,286	Statistical Difference	
7,201	4,766	2,435	28,030	24,791	102	1,932	559	12	150	484	14,792	-	1,351	19,271	-	-	1,344	181,058	Primary Supply	
-759	-759	-	-	-	-	-	-	-	-	-	-14,792	8,093	-1,351	-19,271	17,267	909	-	-36,517	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-6,757	-109	-1,351	-19,271	19,302	691	-	-33,742	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-232	-86	-	-	-	250	-	-434	District Heating	
-759	-759	-	-	-	-	-	-	-	-	-	-7,501	8,250	-	-	-	-	-	-12	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-302	39	-	-	-2,035	-32	-	-2,330	Own Use & Loss	
6,442	4,007	2,435	28,030	24,791	102	1,932	559	12	150	484	-	8,093	-	-	17,267	909	1,344	44,541	Final Consumption	
1,570	1,198	372	28,014	24,791	102	1,932	559	12	150	468	-	1,496	-	-	10,009	-	1,123	78,322	Industry	
6	6	0	-	-	-	-	-	-	-	-	-	0	-	-	359	-	-	4,004	Agri. Fishery	
3	3	-	-	-	-	-	-	-	-	-	-	1	-	-	86	-	-	145	Mining	
1,547	1,176	372	26,082	24,791	102	-	559	12	150	468	-	1,494	-	-	9,564	-	1,123	71,774	Manufacturing	
45	44	1	-	-	-	-	-	-	-	-	-	42	-	-	491	-	-	1,825	Food Tobacco	
3	2	1	-	-	-	-	-	-	-	-	-	136	-	-	1,145	-	-	2,865	Textile & Apparel	
2	2	-	-	-	-	-	-	-	-	-	-	3	-	-	87	-	-	182	Wood & Wood Pro.	
11	10	0	-	-	-	-	-	-	-	-	-	32	-	-	684	-	-	2,165	Pulp & Publications	
985	742	243	25,551	24,788	102	-	220	8	-	432	-	114	-	-	1,998	-	-	32,963	Petro. Chemical	
168	147	21	30	3	-	-	-	-	27	-	-	145	-	-	852	-	-	6,824	Non-Metallic	
60	49	11	-	-	-	-	-	-	-	-	-	346	-	-	1,800	-	-	15,358	Iron & Steel	
23	16	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	139	Non-ferrous	
158	105	53	42	-	-	-	-	-	42	-	-	495	-	-	2,388	-	-	4,475	Fabricated Metal	
92	58	34	83	-	-	-	-	-	81	2	-	181	-	-	118	-	1,123	4,485	Other Manufacturing	
1	1	-	376	-	-	-	339	4	-	34	-	-	-	-	-	-	-	494	Other Energy	
13	13	0	1,932	-	-	1,932	-	-	-	-	-	-	-	-	-	-	-	2,400	Construction	
1,990	11	1,978	0	-	-	-	0	-	-	-	-	-	-	-	151	-	-	30,736	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	151	-	-	473	Rail	
1,988	10	1,978	0	-	-	-	0	-	-	-	-	-	-	-	-	-	-	23,509	Land	
1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,493	Water	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,261	Air	
2,844	2,761	83	-	-	-	-	-	-	-	-	-	5,297	-	-	2,796	850	146	20,956	Residential	
23	22	1	16	-	-	-	-	-	-	16	-	1,139	-	-	3,294	42	8	11,812	Commercial	
15	15	0	-	-	-	-	-	-	-	-	-	161	-	-	1,017	17	67	2,715	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																		
																			석탄							석유										
																			무연탄			유연탄				에너지유										
																			Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G
1,000 toe																																				
국내생산	1	1,962	1,962	1,962	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
수입	2	33,847	473	-	473	33,374	11,866	21,507	143,829	97,806	10,060	9,351	34,328	467	204	34,403	8,992	-																		
(석유생산)	3	-	-	-	-	-	-	-	122,331	94,548	10,032	8,645	34,007	467	204	32,369	8,825	-																		
(석유수입)	4	-	-	-	-	-	-	-	21,498	3,257	28	706	321	-	-	2,035	167	-																		
수출	5	-	-	-	-	-	-	-	-42,232	-34,395	-2,060	-961	-15,978	-	-	-9,481	-5,915	-																		
국제병커링	6	-	-	-	-	-	-	-	-7,069	-7,069	-	0	-1,162	-114	-46	-5,211	-537	-																		
재고증감	7	-240	-240	-269	29	-	-	-	353	376	37	-204	292	-6	-1	299	-40	0																		
연초재고	8	4,520	4,520	3,935	586	-	-	-	6,832	5,278	414	868	1,793	21	12	1,964	207	0																		
연말재고	9	-4,760	-4,760	-4,204	-556	-	-	-	-6,478	-4,902	-377	-1,072	-1,501	-27	-13	-1,664	-247	-0																		
통계오차	10	481	22	22	-0	459	231	228	-3,979	-2,774	24	315	126	-17	41	-3,148	-115	-0																		
1차에너지공급	11	36,051	2,218	1,715	503	33,832	12,097	21,735	90,904	53,946	8,061	8,501	17,606	333	198	16,861	2,385	0																		
에너지전환	12	-18,058	-1,107	-1,089	-18	-16,950	-	-16,950	-4,192	-3,787	-	-10	-274	-0	-	-3,503	-0	-																		
발전	13	-18,058	-1,107	-1,089	-18	-16,950	-	-16,950	-3,406	-3,405	-	-6	-269	-0	-	-3,131	-0	-																		
지역난방	14	-	-	-	-	-	-	-	-380	-380	-	-3	-5	-	-	-372	-	-																		
가스제조	15	-	-	-	-	-	-	-	-406	-2	-	-1	-1	-	-	-0	-	-																		
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
최종에너지소비	17	17,993	1,111	626	485	16,882	12,097	4,785	86,712	50,159	8,061	8,490	17,332	333	198	13,358	2,385	0																		
산업부문	18	17,440	558	73	485	16,882	12,097	4,785	46,456	14,512	324	1,618	3,437	192	125	8,815	0	-																		
농림어업	19	-	-	-	-	-	-	-	3,207	3,156	215	478	2,231	106	52	76	0	-																		
광업	20	-	-	-	-	-	-	-	44	44	1	1	20	1	2	18	-	-																		
제조업	21	17,440	558	73	485	16,882	12,097	4,785	41,263	10,980	107	1,130	979	83	69	8,614	0	-																		
음식·담배	22	32	-	-	-	32	-	32	1,048	989	10	20	64	7	6	882	-	-																		
섬유·의복	23	97	-	-	-	97	-	97	1,605	1,599	22	37	42	6	3	1,489	-	-																		
목재·나무	24	-	-	-	-	-	-	-	66	66	0	0	1	0	1	63	-	-																		
펄프·인쇄	25	8	-	-	-	8	-	8	1,217	1,208	6	8	19	1	1	1,173	0	-																		
석유·화학	26	171	-	-	-	171	-	171	31,818	2,785	11	760	70	14	15	1,915	0	-																		
비금속	27	3,337	24	24	-	3,313	-	3,313	1,031	794	4	27	92	18	10	644	-	-																		
1차금속	28	12,532	435	32	403	12,097	12,097	-	713	653	1	27	55	3	1	565	-	-																		
비철금속	29	-	-	-	-	-	-	-	129	101	1	9	16	5	6	63	-	-																		
조립금속	30	-	-	-	-	-	-	-	1,634	1,539	24	26	129	14	15	1,331	0	-																		
기타제조	31	1,263	99	17	82	1,165	-	1,165	1,376	1,095	28	211	490	15	8	342	-	-																		
기타에너지	32	-	-	-	-	-	-	-	626	153	0	4	1	1	1	146	-	-																		
건설업	33	-	-	-	-	-	-	-	1,941	331	2	9	208	2	3	108	0	-																		
수송부문	34	-	-	-	-	-	-	-	26,042	23,952	7,618	48	10,469	119	52	3,662	1,983	0																		
철도운수	35	-	-	-	-	-	-	-	316	316	-	0	315	-	-	1	-	-																		
육상운수	36	-	-	-	-	-	-	-	19,270	17,183	7,617	41	9,492	3	2	27	-	-																		
수상운수	37	-	-	-	-	-	-	-	4,467	4,466	1	6	660	116	50	3,633	-	-																		
항공운수	38	-	-	-	-	-	-	-	1,989	1,986	-	0	3	0	-	0	1,983	0																		
가정부문	39	553	553	553	-	-	-	-	7,424	5,156	6	4,020	574	7	4	545	-	-																		
상업부문	40	-	-	-	-	-	-	-	5,575	5,349	57	2,718	2,300	14	15	245	-	-																		
공공부문	41	-	-	-	-	-	-	-	1,215	1,191	56	87	552	2	1	91	402	-																		

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,525	22,422	-	-	1,526	27,435	Domestic Production	
7,752	4,715	3,037	38,270	32,933	66	2,069	682	9	446	2,067	13,780	-	-	-	-	-	-	191,456	Imports	
2,880	871	2,009	24,903	19,565	66	2,069	682	9	446	2,067	-	-	-	-	-	-	-	122,331	(Petroleum Products)	
4,873	3,844	1,028	13,367	13,367	-	-	-	-	-	-	-	-	-	-	-	-	-	21,498	(Petroleum Imports)	
-1,057	-670	-387	-6,780	-5,704	-2	-462	-199	-	-84	-328	-	-	-	-	-	-	-	-42,232	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,069	Int'l Bunkers	
24	69	-45	-47	13	-2	-29	-20	-0	1	-10	101	-	-	-	-	-	-	215	Stock Change(+/-)	
420	285	136	1,133	1,028	7	29	49	1	6	14	786	-	-	-	-	-	-	12,139	Former Stock	
-396	-215	-181	-1,180	-1,015	-9	-58	-69	-1	-4	-25	-685	-	-	-	-	-	-	-11,924	Ending Stock	
158	67	90	-1,363	-41	14	13	-41	0	-75	-1,232	-44	-	-	-	-	-	-	-3,542	Statistical Difference	
6,877	4,182	2,695	30,081	27,200	75	1,591	422	9	287	496	13,838	-	1,525	22,422	-	-	1,526	166,265	Primary Supply	
-405	-405	-	-	-	-	-	-	-	-	-	-13,838	8,425	-1,525	-22,422	16,638	882	-	-34,088	Transformation	
-0	-0	-	-	-	-	-	-	-	-	-	-5,239	-100	-1,525	-22,422	18,516	675	-	-31,558	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-208	-88	-	-	-	258	-	-417	District Heating	
-405	-405	-	-	-	-	-	-	-	-	-	-8,103	8,484	-	-	-	-	-	-25	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-289	129	-	-	-1,877	-50	-	-2,088	Own Use & Loss	
6,472	3,777	2,695	30,081	27,200	75	1,591	422	9	287	496	-	8,425	-	-	16,638	882	1,526	132,177	Final Consumption	
1,873	1,279	594	30,071	27,200	75	1,591	422	9	287	486	-	.812	-	-	9,359	-	1,287	76,353	Industry	
3	3	0	48	-	-	-	-	-	-	48	-	0	-	-	346	-	-	3,553	Agri. Fishery	
0	0	-	-	-	-	-	-	-	-	-	-	1	-	-	84	-	-	129	Mining	
1,852	1,258	594	28,431	27,200	75	-	422	9	240	486	-	.810	-	-	8,929	-	1,287	70,730	Manufacturing	
39	38	1	20	-	-	-	-	-	-	20	-	68	-	-	467	-	-	1,614	Food Tobacco	
7	5	1	-	-	-	-	-	-	-	-	-	230	-	-	1,129	-	-	3,061	Textile & Apparel	
1	1	-	-	-	-	-	-	-	-	-	-	3	-	-	70	-	-	139	Wood & Wood Pro.	
9	9	0	0	-	-	-	-	-	-	0	-	38	-	-	627	-	-	1,890	Pulp & Publications	
1,337	921	416	27,695	27,200	75	-	-	-	-	420	-	164	-	-	1,981	-	-	34,133	Petro. Chemical	
123	108	15	114	0	-	-	-	-	-	113	-	156	-	-	665	-	-	5,189	Non-Metallic	
60	42	18	-	-	-	-	-	-	-	-	-	371	-	-	1,733	-	-	15,349	Iron & Steel	
28	21	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	129	Non-ferrous	
84	53	31	11	-	-	-	-	-	-	11	-	462	-	-	2,154	-	-	4,250	Fabricated Metal	
164	58	106	118	-	-	-	-	-	-	115	3	318	-	-	104	-	1,287	4,349	Other Manufacturing	
1	1	-	473	-	-	-	422	9	-	43	-	-	-	-	-	-	-	626	Other Energy	
19	19	0	1,591	-	-	1,591	-	-	-	-	-	0	-	-	-	-	-	1,941	Construction	
2,090	19	2,071	-	-	-	-	-	-	-	-	-	-	-	-	136	-	-	26,178	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	136	-	-	452	Rail	
2,087	16	2,071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19,270	Land	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,467	Water	
3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,989	Air	
2,268	2,266	2	-	-	-	-	-	-	-	-	-	5,341	-	-	2,830	825	154	17,128	Residential	
216	189	27	10	-	-	-	-	-	-	10	-	1,112	-	-	3,291	41	8	10,028	Commercial	
25	23	1	-	-	-	-	-	-	-	-	-	160	-	-	1,022	16	77	2,489	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
		석탄							석유											
		Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유										
			Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal		Energy Use	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유	
1,000 toe																				
		Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G										
국내생산	1	1,889	1,889	1,889	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	34,410	683	-	683	33,727	11,370	22,357	151,391	103,476	9,969	12,889	32,322	578	194	39,655	7,867	-	1	
(석유생산)	3	-	-	-	-	-	-	-	128,917	99,589	9,918	12,518	31,984	578	194	37,059	7,338	-	-	
(석유수입)	4	-	-	-	-	-	-	-	22,474	3,887	51	372	338	-	-	2,597	529	-	1	
수출	5	-	-	-	-	-	-	-	-42,544	-34,198	-1,488	-2,073	-12,923	-	-	-12,965	-4,749	-	-	
국제병커링	6	-	-	-	-	-	-	-	-7,558	-7,558	-	0	-1,156	-101	-23	-5,782	-495	-	-	
재고증감	7	-203	-203	-234	32	-	-	-	462	129	-37	-25	90	-6	4	60	43	-	-0	
연초재고	8	4,760	4,760	4,204	556	-	-	-	6,460	4,902	377	1,072	1,501	27	13	1,664	247	-	0	
연말재고	9	-4,963	-4,963	-4,438	-524	-	-	-	-5,999	-4,773	-415	-1,097	-1,411	-32	-9	-1,604	-204	-	-1	
통계오차	10	2,061	57	57	-	2,004	802	1,202	-4,195	-2,842	-15	-151	107	-49	58	-2,668	-125	-	0	
1차에너지공급	11	38,157	2,426	1,711	715	35,731	12,171	23,559	97,556	59,007	8,429	10,640	18,440	422	233	18,300	2,541	-	0	
에너지전환	12	-19,832	-1,156	-1,126	-30	-18,676	-	-18,676	-4,628	-4,190	-	-154	-160	-0	-	-3,876	-	-	-	
발전	13	-19,832	-1,156	-1,126	-30	-18,676	-	-18,676	-3,704	-3,704	-	-144	-159	-0	-	-3,401	-	-	-	
지역난방	14	-	-	-	-	-	-	-	-485	-485	-	-10	-	-	-	-475	-	-	-	
가스제조	15	-	-	-	-	-	-	-	-438	-1	-	-1	-1	-	-	-0	-	-	-	
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
최종에너지소비	17	18,325	1,271	585	685	17,055	12,171	4,883	92,928	54,817	8,429	10,486	18,280	422	233	14,424	2,541	-	0	
산업부문	18	17,822	768	83	685	17,055	12,171	4,883	47,800	15,060	289	1,181	3,362	218	163	9,846	0	-	-	
농림어업	19	-	-	-	-	-	-	-	3,449	3,440	237	548	2,406	76	75	98	0	-	-	
광업	20	-	-	-	-	-	-	-	41	40	0	2	17	3	1	17	-	-	-	
제조업	21	17,822	768	83	685	17,055	12,171	4,883	42,282	11,246	46	617	751	137	84	9,611	0	-	-	
음식·담배	22	32	-	-	-	32	-	32	906	846	0	25	40	9	7	765	-	-	-	
섬유·의복	23	97	-	-	-	97	-	97	1,718	1,708	0	19	11	11	3	1,664	-	-	-	
목재·나무	24	-	-	-	-	-	-	-	83	82	0	1	1	0	1	79	-	-	-	
펄프·인쇄	25	8	-	-	-	8	-	8	1,325	1,308	0	13	11	10	3	1,270	0	-	-	
석유·화학	26	171	-	-	-	171	-	171	31,907	2,306	1	45	82	25	17	2,137	0	-	-	
비금속	27	3,387	41	41	-	3,346	-	3,346	1,148	865	0	32	83	16	9	727	0	-	-	
1차금속	28	12,669	498	34	464	12,171	12,171	-	1,113	1,019	0	66	45	3	1	904	-	-	-	
비철금속	29	-	-	-	-	-	-	-	167	131	0	19	9	6	14	83	-	-	-	
조립금속	30	-	-	-	-	-	-	-	1,917	1,805	31	55	114	35	17	1,553	0	-	-	
기타제조	31	1,458	229	7	221	1,230	-	1,230	1,438	1,148	13	340	355	21	13	407	-	-	-	
기타에너지	32	-	-	-	-	-	-	-	559	26	0	1	2	1	1	21	-	-	-	
건설업	33	-	-	-	-	-	-	-	2,028	334	5	15	187	3	3	120	0	-	-	
수송부문	34	-	-	-	-	-	-	-	28,476	25,877	8,070	22	11,725	175	42	3,727	2,116	-	0	
철도운수	35	-	-	-	-	-	-	-	329	328	-	1	326	-	-	1	-	-	-	
육상운수	36	-	-	-	-	-	-	-	21,176	18,584	8,069	16	10,491	0	0	7	-	-	-	
수상운수	37	-	-	-	-	-	-	-	4,849	4,846	1	4	906	174	42	3,719	-	-	-	
항공운수	38	-	-	-	-	-	-	-	2,122	2,119	0	1	2	-	-	-	2,116	-	0	
가정부문	39	503	503	503	-	-	-	-	8,958	6,410	5	5,478	401	15	10	501	-	-	-	
상업부문	40	-	-	-	-	-	-	-	6,424	6,223	12	3,659	2,252	11	16	273	0	-	-	
공공부문	41	-	-	-	-	-	-	-	1,270	1,247	54	146	539	4	2	78	424	-	0	

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품											
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products										
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,517	25,766	-	-	1,806	30,977	Domestic Production	
8,896	5,350	3,546	39,019	33,777	82	2,123	718	9	298	2,012	16,865	-	-	-	-	-	-	02,665	Imports	
3,170	913	2,257	26,158	20,916	82	2,123	718	9	298	2,012	-	-	-	-	-	-	-	128,917	(Petroleum Products)	
5,726	4,437	1,289	12,861	12,861	-	-	-	-	-	-	-	-	-	-	-	-	-	22,474	(Petroleum Imports)	
-1,380	-844	-536	-6,967	-5,878	-4	-471	-226	-	-44	-345	-	-	-	-	-	-	-	-42,544	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,568	Int'l Bunkers
88	-2	90	245	228	-14	19	24	1	-4	-7	-15	-	-	-	-	-	-	244	Stock Change(+/-)	
396	215	181	1,162	1,015	9	58	69	1	3	8	685	-	-	-	-	-	-	11,905	Former Stock	
-309	-217	-91	-917	-787	-22	-39	-45	-0	-7	-15	-700	-	-	-	-	-	-	-11,661	Ending Stock	
205	70	135	-1,557	-271	18	-8	-43	-0	-36	-1,218	-0	-	-	-	-	-	-	-2,134	Statistical Difference	
7,808	4,573	3,235	30,741	27,842	96	1,663	473	10	214	442	16,849	-	1,517	25,766	-	-	1,806	181,651	Primary Supply	
-437	-437	-0	-	-	-	-	-	-	-	-	-16,849	10,513	-1,517	-25,766	18,422	1,033	-	-38,624	Transformation	
-0	-0	-0	-	-	-	-	-	-	-	-	-5,969	-84	-1,517	-25,766	20,582	772	-	-35,518	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-231	-127	-	-	-	310	-	-533	District Heating	
-437	-437	-0	-	-	-	-	-	-	-	-	-10,252	10,773	-	-	-	-	-	82	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-398	-49	-	-	-2,159	-50	-	-2,656	Own Use & Loss	
7,371	4,136	3,235	30,741	27,842	96	1,663	473	10	214	442	-	10,513	-	-	18,422	1,033	1,806	143,027	Final Consumption	
2,030	1,428	602	30,710	27,842	96	1,663	473	10	184	442	-	2,530	-	-	10,394	-	1,568	80,114	Industry	
9	8	1	-	-	-	-	-	-	-	-	-	1	-	-	393	-	-	3,843	Agri. Fishery	
1	1	0	-	-	-	-	-	-	-	-	-	1	-	-	82	-	-	124	Mining	
1,989	1,388	601	29,047	27,842	96	-	473	10	184	442	-	2,528	-	-	9,919	-	1,568	74,119	Manufacturing	
41	40	1	19	-	-	-	-	-	-	19	-	144	-	-	495	-	-	1,577	Food Tobacco	
10	9	1	-	-	-	-	-	-	-	-	-	295	-	-	1,240	-	-	3,350	Textile & Apparel	
1	1	0	-	-	-	-	-	-	-	-	-	2	-	-	88	-	-	173	Wood & Wood Pro.	
17	17	0	-	-	-	-	-	-	-	-	-	61	-	-	717	-	-	2,111	Pulp & Publications	
1,289	915	374	28,311	27,842	96	-	-	-	-	373	-	214	-	-	2,141	-	-	34,434	Petro. Chemical	
154	138	15	129	-	-	-	-	-	-	129	-	213	-	-	718	-	-	5,466	Non-Metallic	
94	73	21	-	-	-	-	-	-	-	-	-	503	-	-	1,634	-	-	15,919	Iron & Steel	
36	28	8	-	-	-	-	-	-	-	-	-	-	-	-	287	-	-	454	Non-ferrous	
112	82	30	-	-	-	-	-	-	-	-	-	609	-	-	2,472	-	-	4,998	Fabricated Metal	
234	84	150	56	-	-	-	-	-	-	55	2	488	-	-	127	-	1,568	5,079	Other Manufacturing	
1	1	0	532	-	-	-	473	10	-	49	-	-	-	-	-	-	-	559	Other Energy	
31	31	0	1,663	-	-	1,663	-	-	-	-	-	0	-	-	-	-	-	2,028	Construction	
2,599	18	2,580	-	-	-	-	-	-	-	-	-	-	-	-	149	-	-	28,625	Transport	
1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	149	-	-	478	Rail	
2,592	12	2,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21,176	Land	
3	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,849	Water	
3	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,122	Air	
2,548	2,531	17	-	-	-	-	-	-	-	-	-	6,409	-	-	2,974	959	159	19,961	Residential	
171	138	33	31	-	-	-	-	-	-	31	-	1,374	-	-	3,819	56	5	11,679	Commercial	
23	21	2	-	-	-	-	-	-	-	-	-	199	-	-	1,086	18	75	2,649	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유									
		Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal		휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유	
		국내탄	수입탄		원료탄	연료탄		Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G		
1,000 toe																		
국내생산	1	1,868	1,868	1,868	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	40,559	1,223	-	1,223	39,336	12,920	26,417	156,177	105,670	10,153	13,094	33,760	634	148	39,407	8,474	-
(석유생산)	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(석유수입)	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수출	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
국제병커링	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
재고증감	7	-16	-16	-18	2	-	-	-	-	-	-	-	-	-	-	-	-	0
연초재고	8	4,963	4,963	4,438	524	-	-	-	-	-	-	-	-	-	-	-	-	1
연말재고	9	-4,979	-4,979	-4,456	-523	-	-	-	-	-	-	-	-	-	-	-	-	-0
통계오차	10	514	22	22	-	493	-105	598	-3,660	-2,477	114	-284	224	-54	74	-2,526	-25	-0
1차에너지공급	11	42,925	3,096	1,871	1,225	39,829	12,814	27,015	100,618	59,743	8,232	9,670	18,931	443	221	19,725	2,521	0
에너지전환	12	-23,264	-1,283	-1,283	-	-21,981	-	-21,981	-6,779	-6,468	-	-132	-73	-0	-0	-6,263	-	-
발전	13	-23,264	-1,283	-1,283	-	-21,981	-	-21,981	-6,042	-6,042	-	-124	-72	-0	-0	-5,845	-	-
지역난방	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
가스제조	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	19,661	1,813	589	1,225	17,848	12,814	5,033	93,839	53,275	8,232	9,537	18,858	443	221	13,461	2,521	0
산업부문	18	19,125	1,277	52	1,225	17,848	12,814	5,033	48,522	14,396	288	1,139	3,668	239	164	8,897	0	-
농림어업	19	-	-	-	-	-	-	-	3,600	3,591	236	453	2,640	82	76	105	-	-
광업	20	-	-	-	-	-	-	-	54	54	0	2	23	4	2	24	-	-
제조업	21	19,125	1,277	52	1,225	17,848	12,814	5,033	42,723	10,297	46	653	707	149	83	8,660	0	-
음식·담배	22	30	-	-	-	30	-	30	889	836	0	26	41	7	5	756	-	-
섬유·의복	23	-	-	-	-	-	-	-	1,648	1,644	0	33	11	11	2	1,586	-	-
목재·나무	24	-	-	-	-	-	-	-	83	82	0	2	4	0	1	75	-	-
펄프·인쇄	25	1	-	-	-	1	-	1	1,216	1,205	0	12	9	19	4	1,160	-	-
석유·화학	26	273	-	-	-	273	-	273	33,057	2,074	0	41	80	21	17	1,915	0	-
비금속	27	3,529	26	26	-	3,503	-	3,503	1,136	868	0	32	57	17	9	753	-	-
1차금속	28	13,275	461	21	440	12,814	12,814	-	923	858	0	64	33	1	1	759	-	-
비철금속	29	109	-	-	-	109	-	109	185	143	-	13	7	4	10	110	-	-
조립금속	30	-	-	-	-	-	-	-	1,549	1,428	35	52	112	39	22	1,168	0	-
기타제조	31	1,909	790	5	785	1,119	-	1,119	1,428	1,113	9	365	351	30	11	346	0	-
기타에너지	32	-	-	-	-	-	-	-	610	46	-	12	1	0	1	32	-	-
건설업	33	-	-	-	-	-	-	-	2,145	454	6	32	299	4	3	109	0	-
수송부문	34	-	-	-	-	-	-	-	30,770	27,317	7,884	13	13,283	170	30	3,770	2,167	0
철도운수	35	-	-	-	-	-	-	-	337	337	-	1	336	-	-	1	-	-
육상운수	36	-	-	-	-	-	-	-	23,554	20,102	7,884	7	12,208	-	-	3	0	-
수상운수	37	-	-	-	-	-	-	-	4,705	4,704	0	3	735	170	30	3,765	-	-
항공운수	38	-	-	-	-	-	-	-	2,174	2,173	-	1	5	-	-	0	2,166	0
가정부문	39	536	536	536	-	-	-	-	8,881	6,080	3	5,438	127	20	9	483	-	-
상업부문	40	-	-	-	-	-	-	-	4,527	4,366	7	2,815	1,263	11	17	252	1	-
공공부문	41	-	-	-	-	-	-	-	1,140	1,116	50	133	516	3	1	59	354	-

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,402	27,241	-	-	2,130	32,641	Domestic Production	
9,249	4,925	4,324	41,258	35,396	82	2,198	1,007	10	348	2,217	18,951	-	-	-	-	-	-	215,687	Imports	
3,665	1,027	2,637	27,100	21,242	82	2,194	1,007	10	348	2,217	-	-	-	-	-	-	-	130,788	(Petroleum Products)	
5,584	3,897	1,687	14,158	14,154	-	4	-	-	-	-	-	-	-	-	-	-	-	25,388	(Petroleum Imports)	
-821	-512	-308	-7,518	-6,213	-1	-514	-384	-	-84	-321	-	-	-	-	-	-	-	-43,758	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,163	Int'l Bunkers
-3	34	-37	-105	-94	3	1	-6	-1	-2	-7	-68	-	-	-	-	-	-	-	-1,061	Stock Change(+/-)
309	217	92	917	787	22	39	45	0	7	15	700	-	-	-	-	-	-	-	11,661	Former Stock
-312	-183	-129	-1,022	-881	-19	-38	-51	-1	-9	-23	-768	-	-	-	-	-	-	-	-12,722	Ending Stock
219	101	118	-1,403	43	12	-22	-50	0	-51	-1,335	40	-	-	-	-	-	-	-	-3,105	Statistical Difference
8,644	4,548	4,096	32,231	29,132	96	1,662	567	9	212	554	18,924	-	1,402	27,241	-	-	2,130	193,240	Primary Supply	
-311	-307	-4	-	-	-	-	-	-	-	-	-18,924	12,561	-1,402	-27,241	20,600	1,167	-	-43,282	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-5,659	-108	-1,402	-27,241	22,910	871	-	-39,935	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-436	-120	-	-	-	350	-	-632	District Heating	
-311	-307	-4	-	-	-	-	-	-	-	-	-12,387	12,520	-	-	-	-	-	-178	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-442	269	-	-	-2,310	-54	-	-2,537	Own Use & Loss	
8,333	4,241	4,092	32,231	29,132	96	1,662	567	9	212	554	0	12,561	-	-	20,600	1,167	2,130	149,958	Final Consumption	
1,939	1,342	597	32,187	29,129	96	1,662	567	9	169	554	0	3,308	-	-	11,374	-	1,908	84,237	Industry	
9	8	1	-	-	-	-	-	-	-	-	-	13	-	-	456	-	-	4,069	Agri. Fishery	
1	1	-	-	-	-	-	-	-	-	-	-	2	-	-	86	-	-	142	Mining	
1,902	1,306	596	30,524	29,129	96	-	567	9	169	554	0	3,294	-	-	10,832	-	1,908	77,881	Manufacturing	
27	26	1	26	-	-	-	-	-	-	-	26	-	-	-	529	-	-	1,624	Food Tobacco	
4	3	1	-	-	-	-	-	-	-	-	-	428	-	-	1,333	-	-	3,408	Textile & Apparel	
1	1	-	-	-	-	-	-	-	-	-	-	2	-	-	98	-	-	183	Wood & Wood Pro.	
11	10	0	-	-	-	-	-	-	-	-	-	66	-	-	760	-	-	2,043	Pulp & Publications	
1,220	840	380	29,763	29,129	96	-	67	-	-	471	-	319	-	-	2,313	-	-	35,962	Petro. Chemical	
156	138	17	112	-	-	-	-	-	112	-	-	252	-	-	772	-	-	5,689	Non-Metallic	
65	46	19	-	-	-	-	-	-	-	0	647	-	-	-	1,720	-	-	16,565	Iron & Steel	
42	35	6	-	-	-	-	-	-	-	-	-	-	-	-	323	-	-	616	Non-ferrous	
121	89	32	-	-	-	-	-	-	-	-	-	721	-	-	2,838	-	-	5,108	Fabricated Metal	
256	117	139	60	-	-	-	-	-	57	3	-	682	-	-	146	-	1,908	6,073	Other Manufacturing	
0	0	0	564	-	-	-	501	9	-	54	-	-	-	-	-	-	-	610	Other Energy	
28	28	0	1,662	-	-	1,662	-	-	-	-	-	0	-	-	-	-	-	2,145	Construction	
3,453	7	3,446	-	-	-	-	-	-	-	-	-	-	-	-	175	-	-	30,945	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	175	-	-	513	Rail	
3,452	6	3,446	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23,554	Land	
1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,705	Water	
1	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,174	Air	
2,801	2,771	30	-	-	-	-	-	-	-	-	-	7,353	-	-	3,191	1,084	115	21,160	Residential	
116	99	17	45	3	-	-	-	-	42	-	-	1,671	-	-	4,700	63	33	10,993	Commercial	
24	22	2	-	-	-	-	-	-	-	-	-	229	-	-	1,160	20	74	2,623	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유										
		Anthracite	Domestic	Imported	Bituminous	원료탄	연료탄		Gasoline	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유	
			국내탄	수입탄		Coking	Steam Coal			Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G		
1,000 toe																			
국내생산	1	1,718	1,718	1,718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	42,691	1,866	-	1,866	40,825	11,813	29,012	153,545	102,518	10,374	11,085	32,993	572	130	38,293	9,072	-	
(석유생산)	3	-	-	-	-	-	-	-	-127,889	96,969	10,096	10,351	32,016	572	130	34,780	9,025	-	
(석유수입)	4	-	-	-	-	-	-	-	-25,656	5,549	278	734	977	-	-	3,513	47	-	
수출	5	-	-	-	-	-	-	-	-42,143	-33,863	-2,133	-2,491	-13,228	-	-	-10,547	-5,464	-	
국제병커링	6	-	-	-	-	-	-	-	-7,132	-7,132	-	-0	-834	-49	-	-5,569	-681	-	
재고증감	7	90	90	87	2	-	-	-	46	309	29	290	198	11	5	-112	-112	0	
연초재고	8	4,979	4,979	4,456	523	-	-	-	6,974	5,640	489	1,489	1,500	43	9	1,782	329	0	
연말재고	9	-4,889	-4,889	-4,369	-520	-	-	-	-6,928	-5,332	-460	-1,199	-1,302	-31	-4	-1,894	-440	-0	
통계오차	10	1,226	7	7	-	1,219	934	284	-3,489	-2,783	5	-351	205	-128	98	-2,572	-40	-0	
1차에너지공급	11	45,724	3,680	1,812	1,868	42,044	12,748	29,296	100,827	59,049	8,275	8,535	19,331	406	233	19,493	2,776	0	
에너지전환	12	-25,367	-1,210	-1,210	-	-24,157	-	-24,157	-7,211	-7,028	-0	-70	-45	-	-0	-6,913	-	-	
발전	13	-25,367	-1,210	-1,210	-	-24,157	-	-24,157	-6,524	-6,524	-0	-69	-42	-	-	-6,412	-	-	
지역난방	14	-	-	-	-	-	-	-	-502	-502	-	-1	-0	-	-	-501	-	-	
가스제조	15	-	-	-	-	-	-	-	-185	-2	-	-0	-2	-	-0	-0	-	-	
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
최종에너지소비	17	20,357	2,470	602	1,868	17,887	12,748	5,139	93,617	52,021	8,275	8,465	19,287	406	233	12,580	2,776	0	
산업부문	18	19,804	1,917	48	1,868	17,887	12,748	5,139	48,254	13,576	352	908	3,681	262	162	8,210	2	-	
농림어업	19	-	-	-	-	-	-	-	3,832	3,828	294	520	2,758	91	68	97	-	-	
광업	20	-	-	-	-	-	-	-	58	57	0	2	23	7	2	22	-	-	
제조업	21	19,804	1,917	48	1,868	17,887	12,748	5,139	42,127	9,267	50	359	632	150	89	7,985	2	-	
음식·담배	22	31	-	-	-	31	-	31	787	737	1	20	34	8	9	666	-	-	
섬유·의복	23	-	-	-	-	-	-	-	1,544	1,539	1	27	11	7	4	1,489	-	-	
목재·나무	24	-	-	-	-	-	-	-	77	77	0	2	4	0	1	70	-	-	
펄프·인쇄	25	-	-	-	-	-	-	-	1,115	1,108	0	8	5	20	7	1,067	-	-	
석유·화학	26	286	-	-	-	286	-	286	33,498	2,007	4	28	85	20	14	1,855	0	-	
비금속	27	3,631	18	18	-	3,613	-	3,613	1,105	871	1	21	55	16	9	769	-	-	
1차금속	28	13,370	622	31	592	12,748	12,748	-	683	622	3	29	12	4	1	573	-	-	
비철금속	29	107	-	-	-	107	-	107	163	123	0	8	5	3	12	95	-	-	
조립금속	30	-	-	-	-	-	-	-	1,369	1,263	34	36	102	33	21	1,036	0	-	
기타제조	31	2,379	1,277	-	1,277	1,103	-	1,103	1,170	855	5	169	318	36	11	316	-	-	
기타에너지	32	-	-	-	-	-	-	-	615	65	0	10	2	2	0	50	1	-	
건설업	33	-	-	-	-	-	-	-	2,238	424	7	26	268	14	3	106	0	-	
수송부문	34	-	-	-	-	-	-	-	31,708	27,761	7,848	18	13,892	115	29	3,650	2,208	0	
철도운수	35	-	-	-	-	-	-	-	341	341	-	0	339	-	-	1	-	-	
육상운수	36	-	-	-	-	-	-	-	24,833	20,888	7,847	15	12,988	4	-	35	-	-	
수상운수	37	-	-	-	-	-	-	-	4,317	4,316	1	2	559	112	29	3,614	-	-	
항공운수	38	-	-	-	-	-	-	-	2,216	2,216	0	2	6	-	-	0	2,208	0	
가정부문	39	553	553	553	-	-	-	-	8,706	5,912	5	5,381	64	12	19	432	-	-	
상업부문	40	-	-	-	-	-	-	-	3,621	3,469	6	2,064	1,120	14	21	242	3	-	
공공부문	41	-	-	-	-	-	-	-	1,328	1,302	63	94	531	2	2	47	564	-	

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품											
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products										
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,038	28,033	-	-	2,456	33,244	Domestic Production	
8,987	4,160	4,827	42,040	35,919	103	2,361	1,005	-	10	341	2,301	21,013	-	-	-	-	-	217,250	Imports	
4,145	1,041	3,104	26,775	20,690	103	2,328	1,001	10	10	341	2,301	-	-	-	-	-	-	127,889	(Petroleum Products)	
4,842	3,119	1,723	15,265	15,229	-	33	4	-	-	-	-	-	-	-	-	-	-	25,656	(Petroleum Imports)	
-495	-231	-264	-7,785	-6,515	-	-544	-380	-	-91	-255	-	-	-	-	-	-	-	-42,143	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,132	Int'l Bunkers
54	50	5	-316	-284	-8	-2	-41	0	8	9	-191	-	-	-	-	-	-	-55	Stock Change(+/-)	
312	183	129	1,022	881	19	38	51	1	9	23	768	-	-	-	-	-	-	12,721	Former Stock	
-258	-133	-124	-1,339	-1,165	-27	-40	-92	-1	-1	-14	-959	-	-	-	-	-	-	-12,777	Ending Stock	
130	17	113	-836	553	8	-33	-51	-0	-49	-1,265	-35	-	-	-	-	-	-	-2,298	Statistical Difference	
8,676	3,996	4,680	33,102	29,672	103	1,782	534	10	210	791	20,787	-	1,038	28,033	-	-	2,456	198,865	Primary Supply	
-183	-177	-6	-0	-	-	-	-	-	-	-0	-20,787	13,290	-1,038	-28,033	22,165	1,218	-	-45,763	Transformation	
-	-	-	-	-	-	-	-	-	-	-	-6,054	-88	-1,038	-28,033	24,529	842	-	-41,733	Electric Generation	
-	-	-	-0	-	-	-	-	-	-	-0	-819	-132	-	-	-	446	-	-1,008	District Heating	
-183	-177	-6	-	-	-	-	-	-	-	-	-13,389	13,388	-	-	-	-	-	-186	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-524	122	-	-	-2,364	-69	-	-2,836	Own Use & Loss	
8,493	3,819	4,674	33,102	29,672	103	1,782	534	10	210	791	-	13,290	-	-	22,165	1,218	2,456	153,103	Final Consumption	
1,690	995	694	32,988	29,672	103	1,782	534	10	161	726	-	3,612	-	-	11,678	-	2,215	85,562	Industry	
3	2	1	0	-	-	-	-	-	-	0	-	22	-	-	515	-	-	4,369	Agri. Fishery	
1	1	-	0	-	-	-	-	-	-	0	-	2	-	-	92	-	-	152	Mining	
1,655	963	693	31,205	29,672	103	-	534	10	161	724	-	3,587	-	-	11,071	-	2,215	78,803	Manufacturing	
22	20	1	29	-	-	-	-	-	-	29	-	190	-	-	549	-	-	1,558	Food Tobacco	
4	3	1	1	-	-	-	-	-	-	1	-	439	-	-	1,302	-	-	3,285	Textile & Apparel	
0	0	-	0	-	-	-	-	-	-	0	-	2	-	-	108	-	-	187	Wood & Wood Pro.	
7	7	0	0	-	-	-	-	-	-	0	-	65	-	-	770	-	-	1,951	Pulp & Publications	
1,053	589	464	30,438	29,672	103	-	56	-	-	607	-	333	-	-	2,394	-	-	36,511	Petro. Chemical	
125	116	9	110	-	-	-	-	-	105	4	-	265	-	-	800	-	-	5,801	Non-Metallic	
59	30	29	2	-	-	-	-	-	-	2	-	715	-	-	1,681	-	-	16,450	Iron & Steel	
38	37	1	2	-	-	-	-	-	-	2	-	-	-	-	340	-	-	610	Non-ferrous	
100	72	28	6	-	-	-	-	-	-	6	-	739	-	-	2,972	-	-	5,080	Fabricated Metal	
246	88	157	70	-	-	-	-	-	-	56	14	839	-	-	154	-	2,215	6,757	Other Manufacturing	
1	0	1	548	-	-	-	478	10	-	60	-	-	-	-	-	-	-	615	Other Energy	
31	29	1	1,783	-	-	1,782	-	-	-	1	-	-	-	-	-	-	-	2,238	Construction	
3,946	3	3,943	1	-	-	-	-	-	-	1	-	7	-	-	194	-	-	31,910	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	194	-	-	535	Rail	
3,945	2	3,943	0	-	-	-	-	-	-	0	-	7	-	-	-	-	-	24,841	Land	
1	1	0	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4,317	Water	
1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,216	Air	
2,738	2,712	26	56	-	-	-	-	-	-	56	-	7,526	-	-	3,372	1,111	109	21,379	Residential	
95	86	9	56	-	-	-	-	-	49	7	-	1,885	-	-	5,633	80	42	11,260	Commercial	
24	22	1	1	-	-	-	-	-	-	1	-	259	-	-	1,288	27	90	2,991	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유										
		Anthracite	Domestic	Imported	Bituminous	원료탄	연료탄		Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G		
			국내탄	수입탄		원료탄	연료탄												
1,000 toe																			
국내생산	1	1,493	1,493	1,493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	44,990	2,327	-	2,327	42,662	11,656	31,007	149,101	95,654	10,685	9,483	32,275	715	117	32,625	9,753	-	0
(석유생산)	3	-	-	-	-	-	-	-	120,429	88,159	10,153	8,527	30,385	711	117	28,899	9,368	-	-
(석유수입)	4	-	-	-	-	-	-	-	28,672	7,494	532	957	1,891	4	-	3,726	385	-	0
수출	5	-	-	-	-	-	-	-	-33,914	-25,934	-2,049	-1,412	-11,150	-	-	-5,513	-5,810	-	-
국제병커링	6	-	-	-	-	-	-	-	-7,115	-7,115	-	0	-845	-36	-	-5,272	-961	-	-
재고증감	7	221	221	192	29	-	-	-	920	1,015	10	519	263	-6	2	109	118	-	0
연초재고	8	4,889	4,889	4,369	520	-	-	-	6,928	5,332	460	1,199	1,302	31	4	1,894	440	-	0
연말재고	9	-4,668	-4,668	-4,177	-491	-	-	-	-6,008	-4,317	-450	-680	-1,039	-37	-2	-1,785	-322	-	-0
통계오차	10	2,427	29	29	-	2,398	1,608	790	-5,958	-5,018	-191	-504	-352	-231	133	-3,548	-326	-	-0
1차에너지공급	11	49,131	4,070	1,714	2,356	45,061	13,264	31,797	103,034	58,602	8,456	8,087	20,191	442	252	18,400	2,774	-	0
에너지전환	12	-27,645	-1,151	-1,151	-	-26,494	-	-26,494	-6,399	-6,236	0	-147	-102	0	0	-5,986	-	-	-
발전	13	-27,645	-1,151	-1,151	-	-26,494	-	-26,494	-5,702	-5,702	0	-145	-101	0	-	-5,456	-	-	-
지역난방	14	-	-	-	-	-	-	-	-533	-533	-	-2	0	-	-	-530	-	-	-
가스제조	15	-	-	-	-	-	-	-	-164	-2	-	0	-1	-	0	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	21,485	2,919	563	2,356	18,566	13,264	5,302	96,635	52,366	8,455	7,939	20,089	441	252	12,414	2,774	-	0
산업부문	18	20,956	2,390	34	2,356	18,566	13,264	5,302	50,032	13,198	408	932	3,392	281	169	8,015	2	-	-
농림어업	19	-	-	-	-	-	-	-	3,773	3,767	356	579	2,594	80	68	90	-	-	-
광업	20	-	-	-	-	-	-	-	63	62	0	3	30	14	1	13	-	-	-
제조업	21	20,956	2,390	34	2,356	18,566	13,264	5,302	43,983	8,875	44	320	452	165	96	7,796	2	-	-
음식·담배	22	32	-	-	-	32	-	32	776	693	0	26	33	9	6	619	-	-	-
섬유·의복	23	-	-	-	-	-	-	-	1,503	1,480	0	27	10	14	3	1,426	-	-	-
목재·나무	24	-	-	-	-	-	-	-	81	79	0	4	5	0	1	69	-	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	1,145	1,135	0	13	8	22	9	1,084	-	-	-
석유·화학	26	285	-	-	-	285	-	285	35,599	1,891	2	33	80	13	12	1,751	0	-	-
비금속	27	3,755	13	13	-	3,742	-	3,742	1,123	886	0	23	55	27	9	771	-	-	-
1차금속	28	13,920	656	21	636	13,264	13,264	-	680	631	0	24	7	3	2	596	-	-	-
비철금속	29	107	-	-	-	107	-	107	161	125	0	9	4	3	15	94	-	-	-
조립금속	30	-	-	-	-	-	-	-	1,363	1,248	36	41	105	32	23	1,009	2	-	-
기타제조	31	2,857	1,721	-	1,721	1,136	-	1,136	955	621	4	115	140	34	18	310	-	-	-
기타에너지	32	-	-	-	-	-	-	-	596	85	0	6	5	6	0	68	-	-	-
건설업	33	-	-	-	-	-	-	-	2,213	495	8	29	315	22	4	115	0	-	-
수송부문	34	-	-	-	-	-	-	-	33,490	29,257	7,961	32	15,089	108	36	3,729	2,301	-	0
철도운수	35	-	-	-	-	-	-	-	341	341	-	0	339	-	-	1	-	-	-
육상운수	36	-	-	-	-	-	-	-	26,406	22,177	7,961	26	14,161	3	0	26	-	-	-
수상운수	37	-	-	-	-	-	-	-	4,434	4,431	0	5	583	105	35	3,703	-	-	-
항공운수	38	-	-	-	-	-	-	-	2,309	2,309	-	1	6	-	-	0	2,301	-	0
가정부문	39	529	529	529	-	-	-	-	8,516	5,553	14	4,849	240	23	22	405	-	-	-
상업부문	40	-	-	-	-	-	-	-	3,378	3,163	6	2,043	834	26	24	229	2	-	-
공공부문	41	-	-	-	-	-	-	-	1,220	1,194	65	83	534	4	2	36	469	-	-

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품											
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products										
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,327	29,776	-	-	2,925	35,521	Domestic Production	
9,930	4,713	5,216	43,517	36,353	170	2,951	1,113	11	336	2,583	22,711	-	-	-	-	-	-	216,801	Imports	
4,269	1,045	3,224	28,000	20,847	170	2,942	1,111	11	336	2,583	-	-	-	-	-	-	-	120,429	(Petroleum Products)	
5,661	3,668	1,992	15,517	15,506	-	9	2	-	-	-	-	-	-	-	-	-	-	28,672	(Petroleum Imports)	
-294	-154	-140	-7,686	-5,716	-	-1,141	-532	-	-64	-233	-	-	-	-	-	-	-	-33,914	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,115	Int'l Bunkers
-233	-111	-121	138	196	9	-71	19	-0	-10	-5	406	-	-	-	-	-	-	1,548	Stock Change(+/-)	
258	133	124	1,339	1,165	27	40	92	1	1	14	959	-	-	-	-	-	-	12,777	Former Stock	
-490	-245	-246	-1,201	-970	-18	-111	-73	-1	-10	-19	-553	-	-	-	-	-	-	-11,229	Ending Stock	
-5	-103	98	-934	368	-13	-68	-28	-0	-52	-1,140	-21	-	-	-	-	-	-	-3,551	Statistical Difference	
9,398	4,345	5,053	35,035	31,200	166	1,672	572	11	210	1,204	23,096	-	1,327	29,776	-	-	2,925	209,290	Primary Supply	
-163	-159	-3	-0	-	-	-	-	-	-	-0	-23,096	14,567	-1,327	-29,776	23,947	1,316	-	-48,413	Transformation	
-0	-0	-	-0	-	-	-	-	-	-	-0	-7,671	-31	-1,327	-29,776	26,357	922	-	-44,873	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-791	-197	-	-	-	483	-	-1,039	District Heating	
-163	-159	-3	-0	-	-	-	-	-	-	-0	-14,552	14,506	-	-	-	-	-	-211	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-82	289	-	-	-2,410	-88	-	-2,291	Own Use & Loss	
9,235	4,186	5,050	35,034	31,200	166	1,672	572	11	210	1,204	-	14,567	-	-	23,947	1,316	2,925	160,876	Final Consumption	
2,039	1,291	748	34,795	31,200	166	1,672	572	11	163	1,011	-	3,984	-	-	12,423	-	2,359	89,755	Industry	
6	5	1	0	-	-	-	-	-	-	0	-	19	-	-	529	-	-	4,322	Agri. Fishery	
0	0	0	1	-	-	-	-	-	-	1	-	-	-	-	99	-	-	162	Mining	
1,988	1,242	746	33,119	31,200	166	-	572	11	163	1,007	-	3,965	-	-	11,794	-	2,359	83,058	Manufacturing	
27	26	1	55	-	-	-	-	-	-	55	-	251	-	-	582	-	-	1,641	Food Tobacco	
6	5	2	16	-	-	-	-	-	-	16	-	442	-	-	1,337	-	-	3,281	Textile & Apparel	
1	1	0	1	-	-	-	-	-	-	1	-	3	-	-	119	-	-	204	Wood & Wood Pro.	
10	10	0	1	-	-	-	-	-	-	1	-	67	-	-	802	-	-	2,015	Pulp & Publications	
1,395	885	509	32,313	31,200	166	-	134	-	-	813	-	400	-	-	2,517	-	-	38,801	Petro. Chemical	
114	110	4	124	-	-	-	-	-	114	10	-	274	-	-	853	-	-	6,006	Non-Metallic	
43	19	24	6	-	-	-	-	-	-	6	-	719	-	-	1,760	-	-	17,079	Iron & Steel	
30	30	0	6	-	-	-	-	-	-	6	-	-	-	-	389	-	-	657	Non-ferrous	
100	74	26	14	-	-	-	-	-	-	14	-	786	-	-	3,265	-	-	5,414	Fabricated Metal	
262	82	180	73	-	-	-	-	-	50	23	-	1,023	-	-	170	-	2,359	7,364	Other Manufacturing	
1	1	0	511	-	-	-	438	11	-	62	-	-	-	-	-	-	-	596	Other Energy	
44	43	1	1,675	-	-	1,672	-	-	-	3	-	0	-	-	-	-	-	2,214	Construction	
4,229	11	4,218	4	-	-	-	-	-	-	4	-	80	-	-	195	-	-	33,765	Transport	
0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	195	-	-	536	Rail	
4,227	9	4,218	2	-	-	-	-	-	-	2	-	80	-	-	-	-	-	26,485	Land	
1	1	0	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	4,434	Water	
0	0	0	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	2,309	Air	
2,805	2,752	53	158	-	-	-	-	-	-	158	-	8,109	-	-	3,636	1,203	325	22,318	Residential	
143	114	29	71	-	-	-	-	-	46	25	-	2,132	-	-	6,223	84	26	11,843	Commercial	
19	18	2	6	-	-	-	-	-	-	6	-	262	-	-	1,470	30	215	3,196	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유									
		Anthracite	Domestic	Imported	Bituminous	원료탄	연료탄		Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G	
			국내탄	수입탄		원료탄	연료탄											
1,000 toe																		
국내생산	1	1,484	1,484	1,484	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	45,894	2,784	-	2,784	43,110	11,666	31,444	145,872	93,202	9,911	9,677	31,274	715	103	33,426	8,095	-
(석유생산)	3	-	-	-	-	-	-	-	118,511	87,730	9,639	8,761	29,645	705	103	31,261	7,616	-
(석유수입)	4	-	-	-	-	-	-	-	27,361	5,472	272	916	1,630	10	-	2,166	478	0
수출	5	-	-	-	-	-	-	-	-30,025	-23,540	-1,786	-1,818	-8,895	-	-	-7,214	-3,826	-
국제병커링	6	-	-	-	-	-	-	-	-8,120	-8,120	-	0	-923	-22	-	-5,925	-1,251	-
재고증감	7	261	261	249	12	-	-	216	-0	11	-170	-29	-3	-1	218	-25	-	0
연초재고	8	4,668	4,668	4,177	491	-	-	-	6,011	4,317	450	680	1,039	37	2	1,785	322	0
연말재고	9	-4,407	-4,407	-3,928	-479	-	-	-	-5,795	-4,317	-438	-851	-1,069	-41	-3	-1,567	-348	-
통계오차	10	3,485	32	32	-	3,453	1,870	1,583	-4,857	-9,337	-155	-375	-165	-288	171	-2,978	-147	-0
1차에너지공급	11	51,124	4,562	1,766	2,796	46,563	13,536	33,027	103,073	57,605	7,981	7,313	21,262	402	273	17,528	2,846	0
에너지전환	12	-28,696	-1,220	-1,220	-	-27,477	-	-27,477	-6,404	-6,313	-0	-246	-339	-	-0	-5,729	-	-
발전	13	-28,696	-1,220	-1,220	-	-27,477	-	-27,477	-5,706	-5,705	-0	-240	-337	-	-0	-5,128	-	-
지역난방	14	-	-	-	-	-	-	-	-604	-604	-	-3	-0	-	-	-601	-	-
가스제조	15	-	-	-	-	-	-	-	-94	-4	-	-3	-1	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	22,428	3,342	546	2,796	19,086	13,536	5,550	96,669	51,292	7,981	7,068	20,923	402	273	11,799	2,846	0
산업부문	18	21,890	2,804	18	2,786	19,086	13,536	5,550	49,898	11,971	266	828	3,090	222	181	7,383	2	0
농림어업	19	-	-	-	-	-	-	-	3,245	3,239	218	526	2,271	75	57	93	-	-
광업	20	-	-	-	-	-	-	-	77	72	0	3	34	19	3	13	-	-
제조업	21	21,890	2,804	18	2,786	19,086	13,536	5,550	44,305	8,133	43	275	430	108	118	7,156	2	0
음식·담배	22	32	-	-	-	32	-	32	768	654	1	24	27	6	8	588	-	-
섬유·의복	23	-	-	-	-	-	-	-	1,337	1,310	0	25	12	9	10	1,253	-	-
목재·나무	24	-	-	-	-	-	-	-	68	66	0	3	7	0	0	55	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	1,129	1,119	0	12	8	17	7	1,074	-	-
석유·화학	26	288	-	-	-	288	-	288	36,526	1,749	0	21	74	8	18	1,628	0	-
비금속	27	4,005	5	5	-	4,000	-	4,000	1,072	880	0	20	63	18	11	768	-	-
1차금속	28	14,171	635	13	622	13,536	13,536	-	625	569	-	10	5	3	1	550	-	-
비철금속	29	111	-	-	-	111	-	111	167	131	0	8	5	4	16	98	-	-
조립금속	30	-	-	-	-	-	-	-	1,148	1,066	38	43	102	24	29	829	2	0
기타제조	31	3,283	2,163	-	2,163	1,120	-	1,120	809	500	3	106	123	15	17	236	-	-
기타에너지	32	-	-	-	-	-	-	-	654	89	0	4	4	3	0	78	-	-
건설업	33	-	-	-	-	-	-	-	2,270	527	4	24	355	20	2	121	-	-
수송부문	34	-	-	-	-	-	-	-	34,288	29,870	7,634	26	16,106	111	36	3,778	2,178	0
철도운수	35	-	-	-	-	-	-	-	348	348	-	0	347	-	-	1	-	-
육상운수	36	-	-	-	-	-	-	-	27,273	22,859	7,633	23	15,193	3	1	7	-	-
수상운수	37	-	-	-	-	-	-	-	4,477	4,476	1	1	560	108	35	3,770	-	-
항공운수	38	-	-	-	-	-	-	-	2,189	2,187	0	2	6	1	0	-	2,178	0
가정부문	39	539	539	528	10	-	-	-	7,907	5,100	8	4,233	434	47	20	358	-	-
상업부문	40	-	-	-	-	-	-	-	3,166	2,964	6	1,899	764	15	33	245	1	-
공공부문	41	-	-	-	-	-	-	-	1,411	1,388	67	81	529	7	3	35	664	-

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	-	-	1,722	32,418	-	-	3,241	38,864	Domestic Production	
9,124	4,377	4,747	43,546	35,727	338	2,797	1,462	13	271	2,938	25,264	-	-	-	-	-	-	217,031	Imports	
4,022	953	3,069	26,760	18,941	338	2,797	1,462	13	271	2,938	-	-	-	-	-	-	-	118,511	(Petroleum Products)	
5,103	3,424	1,679	16,786	16,786	-	-	-	-	-	-	-	-	-	-	-	-	-	27,361	(Petroleum Imports)	
-294	-169	-125	-6,192	-3,939	0	-1,082	-857	-	-59	-255	-	-	-	-	-	-	-	-30,025	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8,120	Int'l Bunkers	
-56	-73	16	273	222	0	37	21	-1	-3	-3	-423	-	-	-	-	-	-	55	Stock Change(+/-)	
490	245	246	1,204	970	22	111	73	1	10	19	959	-	-	-	-	-	-	11,639	Former Stock	
-547	-318	-229	-931	-748	-22	-74	-52	-2	-13	-22	-1,382	-	-	-	-	-	-	-11,584	Ending Stock	
367	-188	554	-1,286	94	15	-47	-17	1	-42	-1,290	-648	-	-	-	-	-	-	-2,020	Statistical Difference	
9,140	3,947	5,193	36,327	32,104	352	1,704	610	13	154	1,390	24,194	-	1,722	32,418	-	-	3,241	215,772	Primary Supply	
-90	-87	-3	-1	-	-	-	-	-	-	-1	-24,194	15,470	-1,722	-32,418	25,250	1,523	-30	-51,221	Transformation	
-0	-0	-	-0	-	-	-	-	-	-	-0	-7,609	-48	-1,722	-32,418	27,731	1,096	-30	-47,401	Electric Generation	
-	-	-	-	-	-	-	-	-	-	-	-800	-202	-	-	-	532	-	-1,074	District Heating	
-90	-87	-3	-0	-	-	-	-	-	-	-0	-15,571	15,698	-	-	-	-	-	32	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-214	22	-	-	-2,481	-106	-	-2,778	Own Use & Loss	
9,050	3,861	5,190	36,327	32,104	352	1,704	610	13	154	1,390	-	15,470	-	-	25,250	1,523	3,210	164,550	Final Consumption	
1,868	1,173	695	36,058	32,104	352	1,704	610	13	113	1,162	-	4,177	-	-	12,933	-	2,503	91,400	Industry	
5	5	0	1	-	-	-	-	-	-	1	-	23	-	-	511	-	-	3,780	Agri. Fishery	
4	4	0	1	-	-	-	-	-	-	1	-	-	-	-	104	-	-	181	Mining	
1,821	1,127	694	34,351	32,104	352	-	610	13	113	1,159	-	4,154	-	-	12,318	-	2,503	85,170	Manufacturing	
25	25	1	89	-	-	-	-	-	-	89	-	275	-	-	607	-	-	1,682	Food Tobacco	
6	5	2	21	-	-	-	-	-	-	21	-	431	-	-	1,260	-	-	3,028	Textile & Apparel	
1	1	0	2	-	-	-	-	-	-	2	-	5	-	-	124	-	-	198	Wood & Wood Pro.	
9	9	0	1	-	-	-	-	-	-	1	-	64	-	-	804	-	-	1,997	Pulp & Publications	
1,295	828	466	33,483	32,103	352	-	117	-	-	910	-	447	-	-	2,685	-	-	39,946	Petro. Chemical	
80	76	3	112	1	-	-	-	-	-	92	20	308	-	-	885	-	-	6,269	Non-Metallic	
42	17	25	14	-	-	-	-	-	-	14	-	797	-	-	1,798	-	-	17,390	Iron & Steel	
30	30	0	7	-	-	-	-	-	-	7	-	-	-	-	409	-	-	687	Non-ferrous	
70	64	6	12	-	-	-	-	-	-	12	-	800	-	-	3,570	-	-	5,517	Fabricated Metal	
262	72	190	46	-	-	-	-	-	-	21	25	1,029	-	-	177	-	2,503	7,800	Other Manufacturing	
1	1	0	565	-	-	-	493	13	-	59	-	-	-	-	-	-	-	654	Other Energy	
37	37	0	1,706	-	-	1,704	-	-	-	2	-	0	-	-	-	-	-	2,270	Construction	
4,415	10	4,405	3	-	-	-	-	-	-	3	-	146	-	-	200	-	-	34,634	Transport	
0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	200	-	-	549	Rail	
4,414	8	4,405	1	-	-	-	-	-	-	1	-	146	-	-	-	-	-	27,419	Land	
1	1	0	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4,477	Water	
0	0	0	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2,189	Air	
2,615	2,558	57	191	-	-	-	-	-	-	191	-	8,530	-	-	3,833	1,252	286	22,346	Residential	
135	105	30	68	-	-	-	-	-	-	41	27	2,359	-	-	6,752	105	58	12,440	Commercial	
17	15	2	7	-	-	-	-	-	-	7	-	259	-	-	1,531	166	364	3,730	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

15. 2004년

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유									
		Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal		휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유	
		국내탄	수입탄		원료탄	연료탄		Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G		
1,000 toe																		
국내생산	1	1,436	1,436	1,436	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	50,139	2,551	-	2,551	47,588	12,510	35,078	148,558	92,603	10,123	7,076	31,716	621	98	32,339	10,630	-
(석유생산)	3	-	-	-	-	-	-	-	-124,653	90,244	9,962	6,839	31,088	620	98	31,036	10,601	-
(석유수입)	4	-	-	-	-	-	-	-	-23,906	2,358	161	236	627	0	-	1,304	29	1
수출	5	-	-	-	-	-	-	-	-33,841	-26,896	-2,418	-1,064	-9,952	-	-	-7,168	-6,295	-
국제병커링	6	-	-	-	-	-	-	-	-8,929	-8,929	-	0	-922	-44	-	-6,597	-1,366	-
재고증감	7	304	304	228	76	-	-	-	-1,138	-350	11	235	-240	-5	0	-235	-116	-
연초재고	8	4,407	4,407	3,928	479	-	-	-	5,795	4,317	438	851	1,069	41	3	1,567	348	-
연말재고	9	-4,103	-4,103	-3,700	-403	-	-	-	-6,933	-4,667	-427	-615	-1,309	-46	-4	-1,802	-464	-
통계오차	10	1,320	78	78	-	1,241	1,244	-3	-3,593	-2,634	-43	-302	448	-227	166	-2,757	82	0
1차에너지공급	11	53,198	4,369	1,742	2,627	48,829	13,754	35,076	101,085	53,794	7,673	5,945	21,050	344	263	15,583	2,935	1
에너지전환	12	-31,098	-1,060	-1,060	-	-30,038	-	-30,038	-5,143	-5,055	0	-100	-48	-	0	-4,907	-	-
발전	13	-31,098	-1,060	-1,060	-	-30,038	-	-30,038	-4,358	-4,357	0	-94	-26	-	0	-4,237	-	-
지역난방	14	-	-	-	-	-	-	-	-676	-676	-	-6	0	-	-	-670	-	-
가스제조	15	-	-	-	-	-	-	-	-109	-22	-	0	-22	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	22,100	3,309	682	2,627	18,791	13,754	5,038	95,942	48,739	7,673	5,844	21,002	344	263	10,676	2,935	1
산업부문	18	21,475	2,683	65	2,618	18,791	13,754	5,038	50,839	11,033	267	773	2,869	209	184	6,728	2	0
농림어업	19	-	-	-	-	-	-	-	2,945	2,939	188	459	2,051	77	67	98	-	-
광업	20	-	-	-	-	-	-	-	66	61	0	3	27	14	4	13	-	-
제조업	21	21,475	2,683	65	2,618	18,791	13,754	5,038	45,333	7,470	71	279	418	89	109	6,502	2	0
음식·담배	22	32	-	-	-	32	-	32	755	648	1	21	23	8	8	587	-	-
섬유·의복	23	-	-	-	-	-	-	-	1,227	1,198	0	23	16	5	16	1,138	-	-
목재·나무	24	-	-	-	-	-	-	-	63	61	0	4	8	0	1	48	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	1,087	1,079	1	14	9	17	8	1,032	-	-
석유·화학	26	226	-	-	-	226	-	226	37,892	1,560	1	22	77	7	15	1,438	-	-
비금속	27	3,508	4	4	-	3,504	-	3,504	1,082	850	0	16	76	9	16	732	-	-
1차금속	28	14,492	738	10	728	13,754	13,754	-	593	542	0	4	5	3	0	529	-	-
비철금속	29	110	-	-	-	110	-	110	158	122	0	8	5	3	13	94	-	-
조립금속	30	-	-	-	-	-	-	-	919	843	43	45	98	24	19	612	2	0
기타제조	31	3,107	1,941	51	1,890	1,166	-	1,166	729	448	6	117	96	11	13	205	-	-
기타에너지	32	-	-	-	-	-	-	-	828	118	19	6	4	1	0	87	-	-
건설업	33	-	-	-	-	-	-	-	2,495	563	9	31	374	30	4	116	-	-
수송부문	34	-	-	-	-	-	-	-	34,178	29,592	7,335	15	16,388	114	33	3,417	2,290	0
철도운수	35	-	-	-	-	-	-	-	298	298	-	0	297	-	-	1	-	-
육상운수	36	-	-	-	-	-	-	-	27,461	22,876	7,335	12	15,522	1	1	6	-	-
수상운수	37	-	-	-	-	-	-	-	4,119	4,118	0	1	562	113	32	3,410	-	-
항공운수	38	-	-	-	-	-	-	-	2,300	2,300	0	1	8	0	-	-	2,290	0
가정부문	39	626	626	617	9	-	-	-	7,469	4,921	3	3,464	1,133	6	12	303	-	-
상업부문	40	-	-	-	-	-	-	-	2,109	1,869	4	1,516	108	11	31	197	2	-
공공부문	41	-	-	-	-	-	-	-	1,347	1,324	64	77	504	4	3	31	641	-

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	212	-	1,465	32,679	-	-	3,977	39,769	Domestic Production	
8,880	4,182	4,699	47,075	38,056	495	3,123	1,972	16	298	3,116	28,799	-	-	-	-	-	-	227,497	Imports	
4,064	1,012	3,052	30,345	21,347	495	3,100	1,972	16	298	3,116	-	-	-	-	-	-	-	124,653	(Petroleum Products)	
4,816	3,170	1,647	16,731	16,708	-	23	-	-	-	-	-	-	-	-	-	-	-	23,906	(Petroleum Imports)	
-99	-49	-49	-6,847	-3,963	-4	-1,248	-1,225	-	-70	-336	-	-	-	-	-	-	-	-33,841	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8,929	Int'l Bunkers
-95	-63	-31	-693	-648	-5	5	-56	-0	5	6	-701	-	-	-	-	-	-	-1,535	Stock Change(+/-)	
547	318	229	931	748	22	74	52	2	13	22	1,382	-	-	-	-	-	-	11,584	Former Stock	
-642	-381	-261	-1,624	-1,396	-27	-69	-107	-2	-8	-16	-2,083	-	-	-	-	-	-	-13,119	Ending Stock	
461	-393	854	-1,419	-11	22	5	-43	0	-37	-1,355	41	-	-	-	-	-	0	-2,233	Statistical Difference	
9,186	3,691	5,495	38,105	33,434	508	1,885	648	16	184	1,431	28,351	-	1,465	32,679	-	-	3,977	220,756	Primary Supply	
-87	-85	-2	-1	-	-	-	-	-	-	-1	-28,351	16,193	-1,465	-32,679	26,840	1,449	-49	-54,303	Transformation	
-0	-0	-	-1	-	-	-	-	-	-	-1	-10,715	-29	-1,465	-32,679	29,425	1,110	-49	-49,858	Electric Generation	
-	-	-	-0	-	-	-	-	-	-	-0	-749	-236	-	-	-	423	-	-1,238	District Heating	
-87	-85	-2	-	-	-	-	-	-	-	-	-16,255	16,128	-	-	-	-	-	-236	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-632	329	-	-	-2,585	-83	-	-2,972	Own Use & Loss	
9,099	3,606	5,493	38,104	33,434	508	1,885	648	16	184	1,430	-	16,193	-	-	26,840	1,449	3,928	166,452	Final Consumption	
2,027	1,208	819	37,779	33,434	508	1,885	648	16	140	1,149	-	4,382	-	-	13,617	-	3,337	93,650	Industry	
5	5	0	2	-	-	-	-	-	-	2	-	25	-	-	560	-	-	3,530	Agri. Fishery	
4	4	0	0	-	-	-	-	-	-	0	-	-	-	-	109	-	-	175	Mining	
1,981	1,162	819	35,883	33,434	508	-	648	16	140	1,138	-	4,357	-	-	12,948	-	3,337	87,450	Manufacturing	
23	23	1	84	-	-	-	-	-	-	84	-	271	-	-	626	-	-	1,684	Food Tobacco	
6	4	1	23	-	-	-	-	-	-	23	-	420	-	-	1,191	-	-	2,838	Textile & Apparel	
1	1	0	2	-	-	-	-	-	-	2	-	36	-	-	126	-	-	225	Wood & Wood Pro.	
8	8	0	0	-	-	-	-	-	-	0	-	66	-	-	830	-	-	1,983	Pulp & Publications	
1,491	901	591	34,840	33,434	508	-	1	-	-	898	-	437	-	-	2,832	-	-	41,386	Petro. Chemical	
65	62	3	167	-	-	-	-	-	140	28	-	337	-	-	870	-	-	5,797	Non-Metallic	
38	13	25	12	-	-	-	-	-	-	12	-	885	-	-	1,839	-	-	17,808	Iron & Steel	
29	29	0	7	-	-	-	-	-	-	7	-	-	-	-	426	-	-	694	Non-ferrous	
63	58	6	12	-	-	-	-	-	-	12	-	887	-	-	4,030	-	-	5,836	Fabricated Metal	
254	63	191	26	-	-	-	-	-	-	26	-	1,017	-	-	178	-	3,337	8,369	Other Manufacturing	
1	1	0	710	-	-	-	647	16	-	47	-	-	-	-	-	-	-	828	Other Energy	
38	37	0	1,894	-	-	1,885	-	-	-	9	-	0	-	-	-	-	-	2,495	Construction	
4,586	9	4,577	1	-	-	-	-	-	-	1	-	239	-	-	213	-	6	34,635	Transport	
0	0	0	0	-	-	-	-	-	-	0	-	-	-	-	213	-	-	511	Rail	
4,585	8	4,577	0	-	-	-	-	-	-	0	-	239	-	-	-	-	6	27,705	Land	
1	1	0	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	4,119	Water	
0	0	0	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	2,300	Air	
2,350	2,288	62	199	-	-	-	-	-	-	199	-	8,636	-	-	4,181	1,299	256	22,467	Residential	
122	90	32	118	-	-	-	-	-	-	44	73	-	2,657	-	-	7,171	116	47	12,100	Commercial
14	12	2	9	-	-	-	-	-	-	9	-	279	-	-	1,658	34	283	3,600	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유										
		Anthracite	Domestic	Imported	Bituminous	원료탄	연료탄		Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G		
			국내탄	수입탄		원료탄	연료탄												
1,000 toe																			
국내생산	1	1,274	1,274	1,274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	48,498	2,740	-	2,740	45,758	11,204	34,554	151,713	95,480	9,752	6,038	34,062	612	111	33,108	11,797	-	0
(석유생산)	3	-	-	-	-	-	-	-	130,044	94,507	9,741	5,988	33,782	612	111	32,475	11,797	-	-
(석유수입)	4	-	-	-	-	-	-	-	21,669	973	10	50	280	-	-	633	-	-	0
수출	5	-	-	-	-	-	-	-	-38,071	-31,461	-1,915	-616	-12,563	-	-	-8,824	-7,543	-	-
국제병커링	6	-	-	-	-	-	-	-	-8,555	-8,555	-	-	-805	-49	-	-6,707	-995	-	-
재고증감	7	696	696	622	74	-	-	-	1,316	1,074	12	224	224	6	1	375	233	-	-
연초재고	8	4,103	4,103	3,700	403	-	-	-	7,130	4,667	427	615	1,309	46	4	1,802	464	-	-
연말재고	9	-3,407	-3,407	-3,078	-329	-	-	-	-5,814	-3,593	-415	-391	-1,085	-40	-3	-1,428	-231	-	-
통계오차	10	4,327	59	59	-	4,268	2,531	1,737	-4,194	-3,123	11	-198	-73	-217	165	-2,786	-26	-	-0
1차에너지공급	11	54,795	4,770	1,956	2,814	50,025	13,735	36,291	102,197	53,415	7,859	5,449	20,845	353	277	15,166	3,466	-	0
에너지전환	12	-32,642	-1,059	-1,059	-	-31,582	-	-31,582	-5,121	-4,985	-0	-111	-20	-	-0	-4,854	-	-	-
발전	13	-32,642	-1,059	-1,059	-	-31,582	-	-31,582	-4,290	-4,289	-0	-94	-19	-	-0	-4,176	-	-	-
지역난방	14	-	-	-	-	-	-	-	-696	-695	-	-17	-	-	-0	-678	-	-	-
가스제조	15	-	-	-	-	-	-	-	-136	-1	-	-0	-0	-	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	22,154	3,711	897	2,814	18,443	13,735	4,709	97,076	48,430	7,859	5,338	20,826	353	277	10,312	3,466	-	0
산업부문	18	21,242	2,799	15	2,783	18,443	13,735	4,709	51,746	10,479	272	758	2,806	199	184	6,259	2	-	-
농림어업	19	-	-	-	-	-	-	-	2,769	2,749	196	416	1,898	73	70	96	-	-	-
광업	20	-	-	-	-	-	-	-	74	60	0	3	28	13	1	15	-	-	-
제조업	21	21,242	2,799	15	2,783	18,443	13,735	4,709	46,544	7,063	62	301	496	79	98	6,024	2	-	-
음식·담배	22	33	-	-	-	33	-	33	747	625	1	19	19	6	11	570	-	-	-
섬유·의복	23	-	-	-	-	-	-	-	1,020	992	1	26	17	4	17	928	-	-	-
목재·나무	24	-	-	-	-	-	-	-	51	49	0	3	8	1	1	37	-	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	980	967	0	12	8	17	7	923	-	-	-
석유·화학	26	223	-	-	-	223	-	223	39,400	1,774	8	36	146	5	13	1,566	-	-	-
비금속	27	3,175	3	3	-	3,173	-	3,173	1,100	834	0	12	69	6	15	732	-	-	-
1차금속	28	14,462	727	13	714	13,735	13,735	-	617	539	0	4	4	2	1	528	-	-	-
비철금속	29	108	-	-	-	108	-	108	140	110	-	7	5	2	5	92	-	-	-
조립금속	30	-	-	-	-	-	-	-	698	596	44	45	107	26	16	356	2	-	-
기타제조	31	3,242	2,069	-	2,069	1,173	-	1,173	845	453	6	133	107	11	13	182	-	-	-
기타에너지	32	-	-	-	-	-	-	-	945	123	1	4	6	1	0	111	-	-	-
건설업	33	-	-	-	-	-	-	-	2,360	608	13	38	386	33	15	123	-	-	-
수송부문	34	-	-	-	-	-	-	-	34,958	30,276	7,512	12	16,300	130	36	3,476	2,810	-	0
철도운수	35	-	-	-	-	-	-	-	281	281	-	0	280	-	0	1	-	-	-
육상운수	36	-	-	-	-	-	-	-	27,766	23,086	7,512	10	15,536	5	0	22	-	-	-
수상운수	37	-	-	-	-	-	-	-	4,091	4,090	-	1	478	124	36	3,452	-	-	-
항공운수	38	-	-	-	-	-	-	-	2,819	2,819	-	1	6	0	0	-	2,810	-	0
가정부문	39	912	912	882	31	-	-	-	5,781	4,582	4	3,176	1,073	6	12	311	-	-	-
상업부문	40	-	-	-	-	-	-	-	3,174	1,720	6	1,301	125	14	38	235	2	-	-
공공부문	41	-	-	-	-	-	-	-	1,417	1,372	66	91	521	4	7	32	651	-	0

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non-Energy Use	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품										
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	518	-	1,297	36,695	-	-	3,961	43,745	Domestic Production	
8,940	4,137	4,803	47,293	38,113	556	3,207	2,117	14	315	2,972	29,044	-	-	-	-	-	-	229,255	Imports	
3,925	989	2,936	31,612	22,432	556	3,207	2,117	14	315	2,972	-	-	-	-	-	-	-	130,044	(Petroleum Products)	
5,015	3,147	1,868	15,681	15,681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21,669	(Petroleum Imports)
-74	-29	-45	-6,536	-3,281	-0	-1,483	-1,401	-	-63	-307	-	-	-	-	-	-	-	-	-38,071	Exports
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8,555	Int'l Bunkers
122	74	48	120	128	-9	-31	34	-0	-3	1	134	-	-	-	-	-	-	-	2,146	Stock Change(+/-)
637	376	261	1,826	1,597	27	69	107	2	8	16	1,381	-	-	-	-	-	-	-	12,614	Former Stock
-515	-302	-213	-1,706	-1,469	-36	-100	-73	-2	-12	-14	-1,247	-	-	-	-	-	-	-	-10,468	Ending Stock
496	-329	825	-1,567	-207	24	1	-8	-	-37	-1,341	1,025	-	-	-	-	-	-	-	1,159	Statistical Difference
9,484	3,853	5,631	39,299	34,754	571	1,694	742	13	199	1,325	30,722	-	1,297	36,695	-	-	3,961	229,667	Primary Supply	
-136	-132	-4	-1	-	-	-	-	-	-	-1	-30,355	17,811	-1,297	-36,695	28,588	1,652	-65	-58,125	Transformation	
-0	-0	-0	-0	-	-	-	-	-	-	-0	-10,866	-272	-1,297	-36,695	31,359	1,209	-65	-53,559	Electric Generation	
-	-	-	-1	-	-	-	-	-	-	-1	-890	-77	-	-	-	681	-	-982	District Heating	
-135	-131	-4	-	-	-	-	-	-	-	-	-18,300	18,532	-	-	-	-	-	96	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-298	-373	-	-	-2,771	-238	-	-3,680	Own Use & Loss	
9,348	3,721	5,627	39,298	34,754	571	1,694	742	13	199	1,325	366	17,811	-	-	28,588	1,652	3,896	171,543	Final Consumption	
2,174	1,434	740	39,094	34,754	571	1,694	742	13	162	1,157	366	4,656	-	-	14,346	-	3,222	95,578	Industry	
15	15	0	5	-	-	-	-	-	-	5	27	-	-	-	603	-	-	3,399	Agri. Fishery	
7	7	0	7	-	-	-	-	-	-	7	-	-	-	-	113	-	-	187	Mining	
2,097	1,358	739	37,384	34,754	571	-	742	13	162	1,141	366	4,628	-	-	13,630	-	3,222	89,632	Manufacturing	
23	23	0	99	-	-	-	-	-	-	99	-	262	-	-	643	-	-	1,686	Food Tobacco	
5	4	1	23	-	-	-	-	-	-	23	-	398	-	-	1,120	-	-	2,538	Textile & Apparel	
0	0	-	1	-	-	-	-	-	-	1	-	9	-	-	129	-	-	189	Wood & Wood Pro.	
8	8	0	5	-	-	-	-	-	-	5	-	75	-	-	833	-	-	1,888	Pulp & Publications	
1,495	891	604	36,131	34,754	571	-	1	12	-	793	-	450	-	-	2,923	-	-	42,997	Petro. Chemical	
68	68	0	198	-	-	-	-	-	-	150	48	-	356	-	-	845	-	-	5,477	Non-Metallic
64	42	22	15	-	-	-	-	-	-	15	366	972	-	-	1,979	-	-	18,397	Iron & Steel	
20	19	0	10	-	-	-	-	-	-	10	-	-	-	-	440	-	-	687	Non-ferrous	
70	65	5	32	-	-	-	-	-	-	32	-	948	-	-	4,535	-	-	6,180	Fabricated Metal	
344	237	107	49	-	-	-	-	-	-	12	37	-	1,157	-	-	184	-	3,222	8,649	Other Manufacturing
0	0	0	822	-	-	-	741	2	-	79	-	-	-	-	-	-	-	-	945	Other Energy
55	54	1	1,697	-	-	1,694	-	-	-	3	-	0	-	-	-	-	-	-	2,360	Construction
4,680	1	4,680	1	-	-	-	-	-	-	1	-	339	-	-	224	-	-	13	35,534	Transport
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	224	-	-	-	505	Rail
4,680	0	4,680	1	-	-	-	-	-	-	1	-	339	-	-	-	-	-	13	28,119	Land
1	1	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	4,091	Water
0	0	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2,819	Air
1,189	1,108	81	11	-	-	-	-	-	-	11	-	9,524	-	-	4,375	1,466	89	22,147	Residential	
1,284	1,158	127	169	-	-	-	-	-	-	37	133	-	2,979	-	-	7,858	143	34	14,189	Commercial
21	21	0	24	-	-	-	-	-	-	24	-	313	-	-	1,785	42	538	4,095	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	Total of Coal	무연탄			유연탄			Total of Petroleum	에너지유										
		Anthracite	Domestic	Imported	Bituminous	원료탄	연료탄		Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G		
			국내탄	수입탄		원료탄	연료탄												
1,000 toe																			
국내생산	1	1,271	1,271	1,271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	49,854	3,068	-	3,068	46,786	10,868	35,919	157,041	98,400	10,514	5,622	35,094	541	101	33,344	13,184	-	0
(석유생산)	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(석유수입)	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수출	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
국제병커링	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
재고증감	7	836	836	800	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
연초재고	8	3,407	3,407	3,078	329	-	-	-	-	-	-	-	-	-	-	-	-	-	-
연말재고	9	-2,571	-2,571	-2,278	-293	-	-	-	-	-	-	-	-	-	-	-	-	-	-
통계오차	10	4,692	-2	-2	-	4,694	2,815	1,879	-3,770	-3,164	27	-350	-18	-129	150	-2,922	77	-	-0
1차에너지공급	11	56,652	5,172	2,068	3,104	51,480	13,682	37,798	102,555	51,795	7,901	4,350	20,828	352	250	14,624	3,490	-	0
에너지전환	12	-34,192	-1,060	-1,060	-	-33,131	-	-33,131	-4,890	-4,805	-0	-146	-29	-0	-	-4,630	-	-	-
발전	13	-34,192	-1,060	-1,060	-	-33,131	-	-33,131	-4,256	-4,255	-0	-132	-29	-	-	-4,094	-	-	-
지역난방	14	-	-	-	-	-	-	-	-554	-550	-	-14	-0	-0	-	-536	-	-	-
가스제조	15	-	-	-	-	-	-	-	-81	-	-	-	-	-	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	22,461	4,112	1,008	3,104	18,349	13,682	4,667	97,665	46,990	7,900	4,204	20,798	352	250	9,994	3,490	-	0
산업부문	18	21,398	3,049	7	3,042	18,349	13,682	4,667	53,114	9,881	250	652	3,003	163	174	5,638	2	-	0
농림어업	19	-	-	-	-	-	-	-	2,603	2,586	191	339	1,832	59	74	92	-	-	-
광업	20	-	-	-	-	-	-	-	91	81	0	5	44	11	3	18	-	-	-
제조업	21	21,398	3,049	7	3,042	18,349	13,682	4,667	47,763	6,333	47	268	464	62	86	5,405	2	-	0
음식·담배	22	31	-	-	-	31	-	31	665	560	0	18	15	6	13	507	-	-	-
섬유·의복	23	-	-	-	-	-	-	-	768	741	0	24	12	4	16	684	-	-	-
목재·나무	24	-	-	-	-	-	-	-	40	38	0	2	8	2	1	25	-	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	872	853	0	11	9	4	6	823	-	-	-
석유·화학	26	221	-	-	-	221	-	221	41,269	1,670	0	18	85	5	9	1,553	-	-	-
비금속	27	3,127	-	-	-	3,127	-	3,127	1,086	828	1	6	76	7	12	727	-	-	-
1차금속	28	15,484	1,802	7	1,795	13,682	13,682	-	547	467	0	3	3	1	0	459	-	-	-
비철금속	29	110	-	-	-	110	-	110	138	114	-	6	4	2	4	97	-	-	-
조립금속	30	-	-	-	-	-	-	-	616	509	38	40	120	20	12	278	2	-	0
기타제조	31	2,425	1,247	-	1,247	1,178	-	1,178	999	464	6	137	130	11	12	168	-	-	-
기타에너지	32	-	-	-	-	-	-	-	763	89	0	2	3	0	0	84	-	-	-
건설업	33	-	-	-	-	-	-	-	2,657	880	12	39	663	31	11	124	-	-	-
수송부문	34	-	-	-	-	-	-	-	35,776	30,930	7,574	9	16,388	162	37	3,738	3,021	-	0
철도운수	35	-	-	-	-	-	-	-	256	256	-	0	255	-	-	1	-	-	-
육상운수	36	-	-	-	-	-	-	-	28,054	23,210	7,574	8	15,615	2	0	11	-	-	-
수상운수	37	-	-	-	-	-	-	-	4,437	4,436	0	0	513	160	37	3,726	-	-	-
항공운수	38	-	-	-	-	-	-	-	3,028	3,028	0	1	5	0	1	0	3,021	-	0
가정부문	39	1,063	1,063	1,001	62	-	-	-	4,526	3,500	1	2,489	711	8	7	284	-	-	0
상업부문	40	-	-	-	-	-	-	-	2,970	1,450	11	964	125	13	30	305	2	-	0
공공부문	41	-	-	-	-	-	-	-	1,279	1,229	65	91	571	6	2	29	465	-	0

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화천연가스	도시가스	수력	원자력	전력	열	신재생	합계		
액화석유가스	비에너지											LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀왁스	석유코크	기타제품											
LPG	Propane	Butane	Non-Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin-Wax	Petroleum Coke	Other Products										
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	461	-	1,305	37,187	-	-	4,358	44,582	Domestic Production	
9,268	4,105	5,163	49,373	39,432	660	3,434	2,376	14	326	3,131	32,788	-	-	-	-	-	-	239,683	Imports	
3,781	997	2,784	33,223	23,284	660	3,434	2,376	14	326	3,130	-	-	-	-	-	-	-	133,760	(Petroleum Products)	
5,487	3,108	2,380	16,150	16,148	-	-	-	-	-	2	-	-	-	-	-	-	-	23,280	(Petroleum Imports)	
-78	-38	-40	-7,256	-3,560	-	-1,656	-1,560	-	-78	-402	-	-	-	-	-	-	-	-41,810	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8,270	Int'l Bunkers
26	-12	38	46	114	22	33	-113	1	6	-17	-1,270	-	-	-	-	-	-	-1,056	Stock Change(+/-)	
515	302	213	1,706	1,469	36	100	73	2	12	14	1,247	-	-	-	-	-	-	10,479	Former Stock	
-488	-314	-174	-1,660	-1,355	-14	-68	-186	-1	-5	-32	-2,517	-	-	-	-	-	-	-11,535	Ending Stock	
472	-300	773	-1,078	517	-62	-63	-153	-0	-42	-1,274	25	-	-	-	-	-	-	947	Statistical Difference	
9,689	3,754	5,935	41,071	36,503	620	1,747	550	15	199	1,438	32,004	-	1,305	37,187	-	-	4,358	234,062	Primary Supply	
-81	-81	-0	-5	-	-0	-	-	-	-	-5	-31,267	18,379	-1,305	-37,187	29,990	1,549	-266	-59,189	Transformation	
-0	-0	-0	-1	-	-	-	-	-	-	-1	-12,080	-20	-1,305	-37,187	32,782	1,059	-266	-55,466	Electric Generation	
-	-	-	-4	-	-0	-	-	-	-	-4	-805	-96	-	-	-	745	-	-709	District Heating	
-81	-80	-0	-	-	-	-	-	-	-	-	-18,144	17,947	-	-	-	-	-	-278	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-238	549	-	-	-2,792	-256	-	-2,737	Own Use & Loss	
9,608	3,674	5,934	41,067	36,503	620	1,747	550	15	199	1,434	738	18,379	-	-	29,990	1,549	4,092	174,873	Final Consumption	
2,429	1,496	934	40,803	36,503	581	1,747	550	15	158	1,249	738	4,847	-	-	15,021	-	3,459	98,577	Industry	
11	11	0	6	-	0	-	-	-	-	5	-	28	-	-	627	-	-	3,258	Agri. Fishery	
3	3	0	7	-	2	-	-	-	-	5	-	-	-	-	120	-	-	211	Mining	
2,392	1,459	933	39,038	36,503	577	-	550	15	158	1,234	738	4,819	-	-	14,274	-	3,459	92,451	Manufacturing	
20	20	-	85	-	-	-	-	-	-	85	-	253	-	-	657	-	-	1,605	Food Tobacco	
5	4	0	22	-	2	-	-	-	-	20	-	386	-	-	1,053	-	-	2,207	Textile & Apparel	
0	0	-	2	-	1	-	-	-	-	0	-	16	-	-	129	-	-	185	Wood & Wood Pro.	
7	7	-	13	-	9	-	-	-	-	4	-	92	-	-	841	-	-	1,805	Pulp & Publications	
1,755	948	807	37,843	36,503	415	-	-	11	-	915	-	398	-	-	3,005	-	-	44,893	Petro. Chemical	
57	57	0	201	-	1	-	-	-	158	42	-	513	-	-	887	-	-	5,613	Non-Metallic	
68	62	7	12	-	0	-	-	-	-	12	738	1,032	-	-	2,097	-	-	19,897	Iron & Steel	
17	17	0	7	-	1	-	-	-	-	6	-	-	-	-	454	-	-	701	Non-ferrous	
73	67	5	34	-	4	-	-	-	-	30	-	947	-	-	4,962	-	-	6,525	Fabricated Metal	
390	277	113	145	-	106	-	-	-	-	39	-	1,184	-	-	190	-	3,459	8,256	Other Manufacturing	
0	0	0	674	-	39	-	550	4	-	81	-	-	-	-	-	-	-	763	Other Energy	
23	22	1	1,753	-	2	1,747	-	-	-	5	-	0	-	-	-	-	-	2,657	Construction	
4,844	1	4,844	1	-	0	-	-	-	-	1	-	475	-	-	218	-	53	36,522	Transport	
-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	218	-	-	474	Rail	
4,844	0	4,844	1	-	0	-	-	-	-	1	-	475	-	-	-	-	53	28,583	Land	
0	0	-	0	-	0	-	-	-	-	0	-	-	-	-	-	-	-	4,437	Water	
0	0	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3,028	Air	
1,004	945	59	22	-	11	-	-	-	-	11	-	9,685	-	-	4,517	1,367	79	21,237	Residential	
1,306	1,208	98	214	-	26	-	-	-	-	41	147	-	3,173	-	8,366	140	37	14,684	Commercial	
25	25	0	26	-	1	-	-	-	-	25	-	199	-	-	1,868	42	464	3,853	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

18. 2007년

※ 제5차 에너지량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	무연탄			유연탄				에너지유											
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유	
1,000 toe																			
국내생산	1	1,342	1,342	1,342	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	54,237	3,566	-	3,566	50,671	12,869	37,802	158,831	95,181	9,948	4,043	36,540	509	117	29,265	14,760	-	0
(석유생산)	3	-	-	-	-	-	-	-	133,362	94,069	9,948	3,972	36,430	509	117	28,334	14,760	-	-
(석유수입)	4	-	-	-	-	-	-	-	25,469	1,113	-	72	110	-	-	930	-	-	0
수출	5	-	-	-	-	-	-	-	-41,801	-33,727	-1,951	-175	-14,816	-	-	-6,721	-10,065	-	-
국제병커링	6	-	-	-	-	-	-	-	-7,738	-7,738	-	-	-617	-63	-	-5,876	-1,182	-	-
재고증감	7	654	654	516	138	-	-	256	-37	-15	154	-253	10	-3	212	-142	-	-0	
연초재고	8	2,674	2,674	2,354	320	-	-	6,460	4,296	410	662	1,214	44	4	1,653	310	-	0	
연말재고	9	-2,020	-2,020	-1,838	-182	-	-	-6,204	-4,334	-425	-508	-1,467	-34	-7	-1,441	-452	-	-0	
통계오차	10	3,421	19	19	-	3,402	2,194	1,208	-3,816	-2,951	-32	-361	46	-128	126	-2,867	266	-	-0
1차에너지공급	11	59,653	5,580	1,876	3,704	54,073	15,063	39,010	105,718	50,728	7,949	3,662	20,900	328	240	14,012	3,637	-	0
에너지전환	12	-35,597	-1,195	-1,003	-192	-34,402	-	-34,402	-4,999	-4,912	-0	-108	-26	-	-	-4,778	-	-	-
발전	13	-35,597	-1,195	-1,003	-192	-34,402	-	-34,402	-4,419	-4,412	-0	-108	-26	-	-	-4,278	-	-	-
지역난방	14	-	-	-	-	-	-	-	-505	-499	-	-0	-	-	-	-499	-	-	-
가스제조	15	-	-	-	-	-	-	-	-75	-1	-	-0	-1	-	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	24,056	4,385	874	3,512	19,671	15,063	4,608	100,720	45,816	7,949	3,554	20,874	328	240	9,235	3,637	-	0
산업부문	18	23,043	3,371	3	3,368	19,671	15,063	4,608	56,364	9,168	205	613	3,019	135	161	5,035	0	-	0
농림어업	19	-	-	-	-	-	-	-	2,542	2,536	164	330	1,846	45	70	81	-	-	-
광업	20	-	-	-	-	-	-	-	79	71	0	7	41	6	3	14	-	-	-
제조업	21	19,671	-	-	-	19,671	15,063	4,608	51,178	5,761	30	244	466	60	75	4,886	0	-	0
음식·담배	22	31	-	-	-	31	-	31	571	458	0	16	11	4	11	415	-	-	-
섬유·의복	23	-	-	-	-	-	-	-	690	659	1	19	13	4	15	608	-	-	-
목재·나무	24	-	-	-	-	-	-	-	35	33	0	3	8	1	1	21	-	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	765	747	0	9	8	1	6	723	-	-	-
석유·화학	26	233	-	-	-	233	-	233	45,083	1,544	1	15	77	2	7	1,443	-	-	-
비금속	27	3,132	-	-	-	3,132	-	3,132	1,019	794	1	5	85	6	11	686	-	-	-
1차금속	28	15,063	-	-	-	15,063	15,063	-	495	423	0	2	3	0	0	418	-	-	-
비철금속	29	104	-	-	-	104	-	104	122	94	0	6	4	2	4	79	-	-	-
조립금속	30	-	-	-	-	-	-	-	592	489	21	36	135	31	12	254	0	-	0
기타제조	31	1,109	-	-	-	1,109	-	1,109	1,018	438	5	134	117	10	10	163	0	-	-
기타에너지	32	-	-	-	-	-	-	-	788	81	-	0	4	0	0	77	-	-	-
건설업	33	-	-	-	-	-	-	-	2,565	800	11	33	666	24	13	55	-	-	-
수송부문	34	-	-	-	-	-	-	-	36,139	30,964	7,686	7	16,414	167	40	3,461	3,189	-	0
철도운수	35	-	-	-	-	-	-	-	231	231	-	0	231	-	-	0	-	-	-
육상운수	36	-	-	-	-	-	-	-	28,475	23,302	7,686	5	15,599	2	0	9	-	-	-
수상운수	37	-	-	-	-	-	-	-	4,235	4,235	0	0	579	165	39	3,451	0	-	-
항공운수	38	-	-	-	-	-	-	-	3,197	3,196	-	1	5	1	1	-	3,189	-	0
가정부문	39	1,014	1,014	870	143	-	-	-	4,161	3,084	2	2,071	739	6	8	259	-	-	0
상업부문	40	-	-	-	-	-	-	-	2,781	1,387	11	789	139	12	30	406	1	-	0
공공부문	41	-	-	-	-	-	-	-	1,274	1,213	44	75	562	9	2	74	447	-	0

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



※ Based on the 5th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계	
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	Non- Energy Use	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품									
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
1,000 toe																			
-	-	-	-	-	-	-	-	-	-	-	353	-	1,084	30,731	-	-	4,828	38,338	Domestic Production
9,543	4,123	5,420	54,107	43,581	616	3,916	2,545	19	257	3,173	33,239	-	-	-	-	-	-	246,306	Imports
3,586	941	2,644	35,708	25,181	616	3,916	2,545	19	257	3,173	-	-	-	-	-	-	-	133,362	(Petroleum Products)
5,957	3,182	2,775	18,399	18,399	-	-	-	-	-	-	-	-	-	-	-	-	-	25,469	(Petroleum Imports)
-54	-32	-22	-8,020	-3,766	-	-2,081	-1,826	-	-46	-302	-	-	-	-	-	-	-	-41,801	Exports
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,738	Int'l Bunkers
190	140	51	103	131	-4	-22	-7	-0	-2	8	1,088	-	-	-	-	-	-	1,998	Stock Change(+/-)
500	325	175	1,663	1,364	14	67	183	1	4	32	2,517	-	-	-	-	-	-	11,652	Former Stock
-310	-186	-124	-1,561	-1,233	-18	-88	-190	-1	-6	-24	-1,429	-	-	-	-	-	-	-9,654	Ending Stock
448	-422	870	-1,313	606	-122	-71	-169	-0	-41	-1,517	-208	-	-	-	-	-	-	-604	Statistical Difference
10,127	3,809	6,318	44,863	40,552	490	1,742	543	19	155	1,361	34,471	-	1,084	30,731	-	-	4,828	236,486	Primary Supply
-75	-74	-1	-12	-	-	-	-	-	-	-12	-33,953	18,955	-1,084	-30,731	31,700	1,576	-337	-54,471	Transformation
-0	-0	-0	-6	-	-	-	-	-	-	-6	-14,167	-27	-1,084	-30,731	34,669	1,104	-337	-50,589	Electric Generation
-0	-0	-0	-6	-	-	-	-	-	-	-6	-821	-209	-	-	-	744	-	-791	District Heating
-75	-74	-1	-	-	-	-	-	-	-	-	-18,783	18,764	-	-	-	-	-	-94	Gas Manufacturing
-	-	-	-	-	-	-	-	-	-	-	-183	427	-	-	-2,969	-272	-	-2,996	Own Use & Loss
10,052	3,735	6,318	44,851	40,552	490	1,742	543	19	155	1,350	518	18,955	-	-	31,700	1,576	4,491	182,015	Final Consumption
2,578	1,580	998	44,618	40,552	456	1,742	543	19	128	1,178	518	5,225	-	-	16,018	-	3,699	104,866	Industry
2	2	-	5	-	0	-	-	-	-	4	-	2	-	-	670	-	-	3,214	Agri. Fishery
3	3	-	4	-	0	-	-	-	-	4	-	-	-	-	128	-	-	206	Mining
2,556	1,558	998	42,861	40,552	454	-	543	19	128	1,165	518	5,223	-	-	15,220	-	-	91,809	Manufacturing
20	20	0	93	-	0	-	-	-	-	93	-	412	-	-	673	-	-	1,686	Food Tobacco
4	4	0	27	-	2	-	-	-	-	25	-	320	-	-	1,033	-	-	2,044	Textile & Apparel
1	1	-	1	-	1	-	-	-	-	0	-	39	-	-	134	-	-	209	Wood & Wood Pro.
7	7	-	11	-	5	-	-	-	-	6	-	129	-	-	843	-	-	1,737	Pulp & Publications
1,850	979	870	41,689	40,552	330	-	-	17	-	789	-	760	-	-	3,145	-	-	49,221	Petro. Chemical
54	53	0	171	-	0	-	-	-	128	43	-	470	-	-	955	-	-	5,576	Non-Metallic
62	44	18	10	-	0	-	-	-	-	10	518	1,219	-	-	2,343	-	-	19,638	Iron & Steel
20	19	0	8	-	1	-	-	-	-	7	-	167	-	-	481	-	-	873	Non-ferrous
71	64	7	32	-	3	-	-	-	-	29	-	1,117	-	-	5,417	-	-	7,125	Fabricated Metal
468	365	103	112	-	71	-	-	-	-	41	-	589	-	-	197	-	-	2,913	Other Manufacturing
0	0	-	707	-	41	-	543	2	-	121	-	-	-	-	-	-	-	788	Other Energy
17	17	0	1,748	-	2	1,742	-	-	-	5	-	0	-	-	-	-	-	2,565	Construction
5,174	1	5,173	1	-	0	-	-	-	-	1	-	615	-	-	209	-	96	37,059	Transport
-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	209	-	-	441	Rail
5,173	0	5,173	0	-	0	-	-	-	-	0	-	615	-	-	-	-	96	29,186	Land
0	0	-	0	-	0	-	-	-	-	0	-	-	-	-	-	-	-	4,235	Water
0	0	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3,197	Air
1,051	1,000	51	25	-	11	-	-	-	-	14	-	9,723	-	-	4,659	1,391	69	21,016	Residential
1,217	1,122	95	177	-	21	-	-	-	27	129	-	3,108	-	-	8,854	142	39	14,925	Commercial
32	32	-	29	-	2	-	-	-	-	28	-	285	-	-	1,960	43	588	4,150	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제5차 에너지량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄			유연탄				에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유
									Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G	
1,000 toe																		
국내생산	1	1,289	1,289	1,289	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	61,665	3,901	-	3,901	57,764	14,638	43,126	157,786	94,210	11,811	4,378	38,105	450	98	24,252	15,115	-
(석유생산)	3	-	-	-	-	-	-	-	130,376	92,936	11,811	4,325	38,052	450	98	23,120	15,080	-
(석유수입)	4	-	-	-	-	-	-	-	27,409	1,273	-	53	53	-	-	1,132	35	0
수출	5	-	-	-	-	-	-	-	-47,586	-39,340	-3,931	-335	-18,839	-5	-	-5,536	-10,693	-
국제병커링	6	-	-	-	-	-	-	-	-7,754	-7,754	-	-	-569	-70	-	-5,945	-1,170	-
재고증감	7	697	697	593	103	-	-	-	630	621	88	171	234	-6	1	-14	147	0
연초재고	8	2,020	2,020	1,838	182	-	-	-	6,204	4,333	425	508	1,467	34	7	1,441	452	0
연말재고	9	-1,323	-1,323	-1,245	-79	-	-	-	-5,575	-3,712	-337	-337	-1,233	-39	-6	-1,454	-305	-0
통계오차	10	2,448	40	40	-	2,409	1,859	550	-2,702	-2,069	37	-344	401	-78	107	-2,278	86	-0
1차에너지급	11	66,100	5,927	1,922	4,004	60,173	16,498	43,676	100,373	45,668	8,005	3,870	19,332	291	206	10,479	3,484	0
에너지전환	12	-40,221	-1,291	-911	-379	-38,930	-	-38,930	-3,057	-2,835	-1	-90	-29	-1	-	-2,715	-	-
발전	13	-40,221	-1,291	-911	-379	-38,930	-	-38,930	-2,467	-2,462	-1	-89	-28	-1	-	-2,343	-	-
지역난방	14	-	-	-	-	-	-	-	-375	-372	-	-0	-	-	-	-372	-	-
가스제조	15	-	-	-	-	-	-	-	-215	-1	-	-0	-1	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	25,879	4,636	1,011	3,625	21,243	16,498	4,745	97,316	42,833	8,004	3,780	19,303	290	206	7,765	3,484	0
산업부문	18	24,791	3,548	5	3,543	21,243	16,498	4,745	54,964	7,924	198	603	2,698	113	131	4,180	0	0
농림어업	19	-	-	-	-	-	-	-	2,133	2,125	147	296	1,517	31	63	71	-	-
광업	20	-	-	-	-	-	-	-	71	65	0	8	37	6	2	11	-	-
제조업	21	21,243	-	-	-	21,243	16,498	4,745	50,369	4,958	40	258	494	53	58	4,055	0	0
음식·담배	22	29	-	-	-	29	-	29	407	305	1	17	9	2	9	267	-	-
섬유·의복	23	-	-	-	-	-	-	-	528	500	1	20	20	2	9	448	-	-
목재·나무	24	-	-	-	-	-	-	-	30	28	1	3	7	0	1	17	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	599	582	0	10	8	0	5	559	-	-
석유·화학	26	198	-	-	-	198	-	198	44,734	1,290	1	17	80	1	7	1,184	-	-
비금속	27	3,246	-	-	-	3,246	-	3,246	954	754	1	6	95	3	10	639	-	-
1차금속	28	16,498	-	-	-	16,498	16,498	-	436	372	-	0	3	0	0	368	-	-
비철금속	29	116	-	-	-	116	-	116	103	80	-	0	5	1	2	72	-	-
조립금속	30	-	-	-	-	-	-	-	632	537	31	37	153	35	8	272	0	0
기타제조	31	1,156	-	-	-	1,156	-	1,156	1,063	448	6	146	111	7	7	171	0	-
기타에너지	32	-	-	-	-	-	-	-	884	62	0	1	3	0	0	58	-	-
건설업	33	-	-	-	-	-	-	-	2,391	776	11	40	650	23	8	43	-	-
수송부문	34	-	-	-	-	-	-	-	34,606	29,411	7,745	7	15,353	139	39	3,061	3,066	0
철도운수	35	-	-	-	-	-	-	-	228	227	-	0	227	-	-	0	-	-
육상운수	36	-	-	-	-	-	-	-	27,560	22,371	7,745	7	14,604	2	0	13	-	-
수상운수	37	-	-	-	-	-	-	-	3,743	3,739	0	0	517	136	38	3,047	-	-
항공운수	38	-	-	-	-	-	-	-	3,074	3,074	-	0	5	0	1	1	3,066	0
가정부문	39	1,088	1,088	1,006	83	-	-	-	4,041	3,043	4	2,208	589	7	6	229	-	0
상업부문	40	-	-	-	-	-	-	-	2,528	1,336	21	872	118	23	29	273	0	0
공공부문	41	-	-	-	-	-	-	-	1,176	1,120	36	90	544	9	2	21	418	0

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 5th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	Non- Energy Use	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	236	-	1,196	32,456	-	-	5,198	40,376	Domestic Production	
10,125	4,223	5,902	53,451	41,866	496	4,160	3,093	16	236	3,584	35,436	-	-	-	-	-	-	254,887	Imports	
3,619	1,199	2,420	33,821	22,236	496	4,160	3,093	16	236	3,584	-	-	-	-	-	-	-	130,376	(Petroleum Products)	
6,506	3,025	3,482	19,630	19,630	-	-	-	-	-	-	-	-	-	-	-	-	-	27,409	(Petroleum Imports)	
-38	-25	-12	-8,208	-2,933	-	-2,503	-2,337	-	-91	-343	-	-	-	-	-	-	-	-47,586	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,754	Int'l Bunkers
45	38	8	-37	-20	5	-21	17	-0	-1	-17	-1,916	-	-	-	-	-	-	-	-590	Stock Change(+/-)
310	186	124	1,561	1,233	18	88	190	1	6	24	1,409	-	-	-	-	-	-	-	9,633	Former Stock
-265	-148	-117	-1,597	-1,252	-13	-110	-173	-1	-7	-41	-3,325	-	-	-	-	-	-	-	-10,223	Ending Stock
514	-455	969	-1,147	935	-81	-47	-110	-0	0	-1,845	1,915	-	-	-	-	-	-	-	1,662	Statistical Difference
10,647	3,781	6,866	44,059	39,850	421	1,588	662	16	144	1,378	35,671	-	1,196	32,456	-	-	5,198	240,994	Primary Supply	
-214	-214	-0	-8	-	-	-	-	-	-	-8	-35,107	19,765	-1,196	-32,456	33,116	1,668	-451	-57,940	Transformation	
-0	-0	-0	-5	-	-	-	-	-	-	-5	-14,188	-177	-1,196	-32,456	36,323	1,019	-451	-53,815	Electric Generation	
-0	-0	-0	-3	-	-	-	-	-	-	-3	-784	-354	-	-	-	1,243	-	-269	District Heating	
-214	-214	-0	-0	-	-	-	-	-	-	-0	-19,911	19,962	-	-	-	-	-	-	-165	Gas Manufacturing
-	-	-	-	-	-	-	-	-	-	-	-224	334	-	-	-3,207	-595	-	-	-3,692	Own Use & Loss
10,432	3,567	6,865	44,050	39,850	421	1,588	662	16	144	1,370	564	19,765	-	-	33,116	1,668	4,747	183,054	Final Consumption	
3,220	1,667	1,553	43,820	39,850	384	1,588	662	16	124	1,197	564	5,933	-	-	16,738	-	3,912	106,902	Industry	
2	2	-	6	-	0	-	-	-	-	6	-	6	-	-	721	-	-	2,860	Agri. Fishery	
3	3	-	3	-	0	-	-	-	-	3	-	-	-	-	124	-	-	195	Mining	
3,194	1,641	1,553	42,217	39,850	383	-	662	16	124	1,183	564	5,927	-	-	15,892	-	-	93,996	Manufacturing	
16	16	-	85	-	0	-	-	-	-	85	-	484	-	-	670	-	-	1,589	Food Tobacco	
3	3	0	25	-	3	-	-	-	-	21	-	448	-	-	1,008	-	-	1,983	Textile & Apparel	
0	0	-	1	-	1	-	-	-	-	1	-	44	-	-	136	-	-	210	Wood & Wood Pro.	
6	6	-	10	-	5	-	-	-	-	5	-	193	-	-	842	-	-	1,634	Pulp & Publications	
2,491	1,063	1,428	40,953	39,850	277	-	-	14	-	812	-	1,157	-	-	3,353	-	-	49,442	Petro. Chemical	
38	38	0	162	-	0	-	-	-	121	40	-	417	-	-	981	-	-	5,598	Non-Metallic	
52	32	20	12	-	0	-	-	-	2	10	564	1,249	-	-	2,729	-	-	21,476	Iron & Steel	
17	17	0	6	-	1	-	-	-	-	5	-	186	-	-	181	-	-	587	Non-ferrous	
68	60	7	27	-	3	-	-	-	-	24	-	1,302	-	-	5,794	-	-	7,728	Fabricated Metal	
502	405	97	113	-	68	-	-	-	-	44	-	447	-	-	198	-	-	2,865	Other Manufacturing	
0	0	-	822	-	24	-	662	2	-	134	-	-	-	-	-	-	-	884	Other Energy	
21	21	-	1,594	-	1	1,588	-	-	-	5	-	0	-	-	-	-	-	2,392	Construction	
5,191	2	5,189	4	-	0	-	-	-	-	4	-	777	-	-	196	-	178	35,756	Transport	
-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	196	-	-	424	Rail	
5,189	0	5,189	1	-	0	-	-	-	-	1	-	777	-	-	-	-	178	28,515	Land	
2	2	-	2	-	0	-	-	-	-	2	-	-	-	-	-	-	-	3,743	Water	
0	0	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3,074	Air	
970	917	53	29	-	15	-	-	-	-	14	-	9,624	-	-	4,836	1,472	65	21,126	Residential	
1,023	952	71	169	-	20	-	-	-	20	129	-	3,139	-	-	9,308	150	35	15,160	Commercial	
28	28	0	28	-	2	-	-	-	-	26	-	292	-	-	2,039	45	557	4,110	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

20. 2009년

※ 제5차 에너지량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄			유연탄				에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유
1,000 toe																		
국내생산	1	1,171	1,171	1,171	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	63,431	4,236	-	4,236	59,194	13,687	45,507	159,574	93,140	13,823	4,558	37,776	439	75	22,189	14,280	-
(석유생산)	3	-	-	-	-	-	-	-	126,280	89,885	13,823	4,549	37,656	435	75	19,068	14,280	-
(석유수입)	4	-	-	-	-	-	-	-	33,294	3,255	-	9	120	4	-	3,121	-	0
수출	5	-	-	-	-	-	-	-	-46,897	-37,633	-5,111	-759	-18,053	-	-	-3,997	-9,713	-
국제병커링	6	-	-	-	-	-	-	-	-6,985	-6,985	-	-	-483	-54	-	-5,510	-938	-
재고증감	7	261	261	258	3	-	-	-	347	199	-70	14	160	1	-0	67	28	-0
연초재고	8	1,323	1,323	1,245	79	-	-	-	5,600	3,712	337	337	1,233	39	6	1,454	305	0
연말재고	9	-1,063	-1,063	-987	-76	-	-	-	-5,253	-3,513	-407	-323	-1,073	-39	-6	-1,388	-277	-0
통계오차	10	3,732	19	19	-	3,714	827	2,887	-3,492	-3,151	-263	-177	-391	-79	123	-2,361	-4	0
1차에너지공급	11	68,595	5,687	1,448	4,239	62,908	14,514	48,394	102,534	45,569	8,378	3,636	19,009	307	198	10,388	3,653	0
에너지전환	12	-45,580	-1,504	-632	-871	-44,076	-	-44,076	-4,018	-3,757	-1	-98	-20	-0	-	-3,637	-	-
발전	13	-45,580	-1,504	-632	-871	-44,076	-	-44,076	-3,418	-3,402	-1	-98	-20	-0	-	-3,283	-	-
지역난방	14	-	-	-	-	-	-	-	-362	-354	-	-0	-	-0	-	-354	-	-
가스제조	15	-	-	-	-	-	-	-	-239	-1	-	-0	-1	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	23,015	4,183	816	3,367	18,832	14,514	4,318	98,516	41,812	8,377	3,538	18,988	307	198	6,751	3,653	0
산업부문	18	22,075	3,243	4	3,240	18,832	14,514	4,318	56,616	7,432	199	583	2,773	107	129	3,642	0	0
농림어업	19	-	-	-	-	-	-	-	2,245	2,238	147	288	1,636	41	56	71	-	-
광업	20	-	-	-	-	-	-	-	81	74	0	9	41	6	4	14	-	-
제조업	21	18,832	-	-	-	18,832	14,514	4,318	51,487	4,338	39	249	442	38	54	3,515	0	0
음식·담배	22	30	-	-	-	30	-	30	380	281	0	21	10	2	10	239	-	-
섬유·의복	23	-	-	-	-	-	-	-	442	414	0	23	13	1	3	374	-	-
목재·나무	24	-	-	-	-	-	-	-	32	30	1	4	7	0	0	17	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	499	484	0	11	8	1	4	460	-	-
석유·화학	26	204	-	-	-	204	-	204	46,397	1,183	0	19	73	1	5	1,086	-	-
비금속	27	2,767	-	-	-	2,767	-	2,767	862	685	0	6	91	2	10	576	-	-
1차금속	28	14,514	-	-	-	14,514	14,514	-	270	228	-	0	3	0	1	223	-	-
비철금속	29	179	-	-	-	179	-	179	85	61	-	0	3	1	1	56	-	-
조립금속	30	-	-	-	-	-	-	-	528	441	29	32	127	26	6	220	0	0
기타제조	31	1,137	-	-	-	1,137	-	1,137	1,072	473	6	132	105	5	14	211	-	-
기타에너지	32	-	-	-	-	-	-	-	921	59	0	1	4	-	0	54	-	-
건설업	33	-	-	-	-	-	-	-	2,804	782	13	36	655	22	14	42	-	-
수송부문	34	-	-	-	-	-	-	-	34,491	29,155	8,106	7	14,949	152	38	2,730	3,174	0
철도운수	35	-	-	-	-	-	-	-	201	200	-	0	200	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	27,791	22,457	8,106	6	14,323	4	0	17	-	-
수상운수	37	-	-	-	-	-	-	-	3,308	3,308	-	0	417	147	37	2,707	-	-
항공운수	38	-	-	-	-	-	-	-	3,191	3,191	0	1	8	1	1	7	3,174	0
가정부문	39	940	940	812	128	-	-	-	3,802	2,807	6	2,007	565	3	8	217	-	-
상업부문	40	-	-	-	-	-	-	-	2,343	1,200	20	839	139	39	20	143	0	0
공공부문	41	-	-	-	-	-	-	-	1,264	1,218	46	102	562	6	3	19	479	0

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 5th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	Non- Energy Use	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	498	-	1,213	31,771	-	-	5,480	40,133	Domestic Production	
10,490	4,590	5,900	55,945	43,502	603	4,479	3,328	15	216	3,802	33,568	-	-	-	-	-	-	256,573	Imports	
3,656	1,436	2,219	32,739	20,357	598	4,479	3,271	15	216	3,802	-	-	-	-	-	-	-	126,280	(Petroleum Products)	
6,834	3,153	3,680	23,205	23,144	5	-	56	-	-	-	-	-	-	-	-	-	-	33,294	(Petroleum Imports)	
-12	-12	-0	-9,251	-3,400	-1	-2,536	-2,685	-	-43	-587	-	-	-	-	-	-	-	-46,897	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-6,985	Int'l Bunkers
37	18	19	111	186	-3	6	-62	0	0	-18	1,144	-	-	-	-	-	-	1,751	Stock Change(+/-)	
265	148	117	1,623	1,252	13	110	198	1	7	42	3,390	-	-	-	-	-	-	10,313	Former Stock	
-228	-130	-98	-1,512	-1,066	-16	-103	-260	-1	-6	-59	-2,246	-	-	-	-	-	-	-8,561	Ending Stock	
564	-385	949	-905	1,002	-195	46	140	0	-45	-1,852	-1,303	-	-	-	-	-	-	-1,063	Statistical Difference	
11,079	4,211	6,868	45,886	41,290	404	1,997	721	15	114	1,345	33,908	-	1,213	31,771	-	-	5,480	243,500	Primary Supply	
-239	-238	-1	-22	-	-	-	-	-	-	-22	-33,319	19,459	-1,213	-31,771	33,925	1,709	-613	-61,421	Transformation	
-1	-1	-	-15	-	-	-	-	-	-	-15	-12,189	-159	-1,213	-31,771	37,290	1,014	-613	-56,638	Electric Generation	
-0	-0	-	-7	-	-	-	-	-	-	-7	-681	-855	-	-	-	1,284	-	-613	District Heating	
-238	-237	-1	-0	-	-	-	-	-	-	-0	-20,162	20,298	-	-	-	-	-	-104	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-286	176	-	-	-3,365	-589	-	-4,065	Own Use & Loss	
10,840	3,973	6,867	45,864	41,290	404	1,997	721	15	114	1,323	589	19,459	-	-	33,925	1,709	4,867	182,080	Final Consumption	
3,478	2,050	1,428	45,706	41,290	376	1,997	721	15	113	1,195	589	5,891	-	-	17,006	-	3,876	106,053	Industry	
1	1	0	5	-	0	-	-	-	-	5	-	4	-	-	786	-	-	3,036	Agri. Fishery	
2	2	-	4	-	1	-	-	-	-	4	-	-	-	-	116	-	-	197	Mining	
3,453	2,025	1,428	43,696	41,290	375	-	721	15	113	1,183	589	5,886	-	-	16,103	-	-	92,897	Manufacturing	
17	17	0	82	-	0	-	-	-	-	82	-	515	-	-	687	-	-	1,612	Food Tobacco	
3	3	0	25	-	10	-	-	-	-	15	-	447	-	-	993	-	-	1,881	Textile & Apparel	
1	1	-	2	-	1	-	-	-	-	1	-	63	-	-	137	-	-	231	Wood & Wood Pro.	
5	5	-	9	-	5	-	-	-	-	4	-	235	-	-	827	-	-	1,560	Pulp & Publications	
2,771	1,478	1,293	42,442	41,290	287	-	-	13	-	852	-	1,077	-	-	3,445	-	-	51,123	Petro. Chemical	
31	31	0	146	-	0	-	-	-	110	35	-	442	-	-	966	-	-	5,037	Non-Metallic	
34	10	23	9	-	0	-	-	-	3	5	589	1,239	-	-	2,436	-	-	19,048	Iron & Steel	
17	17	0	7	-	1	-	-	-	-	5	-	220	-	-	587	-	-	1,071	Non-ferrous	
62	57	6	25	-	3	-	-	-	-	21	-	1,154	-	-	5,839	-	-	7,520	Fabricated Metal	
512	407	105	88	-	55	-	-	-	-	33	-	496	-	-	187	-	-	2,892	Other Manufacturing	
0	0	-	862	-	11	-	721	2	-	129	-	-	-	-	-	-	-	921	Other Energy	
21	21	-	2,000	-	0	1,997	-	-	-	3	-	0	-	-	-	-	-	2,804	Construction	
5,332	1	5,331	4	-	1	-	-	-	-	3	-	960	-	-	187	-	254	35,892	Transport	
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	187	-	-	388	Rail	
5,331	0	5,331	3	-	1	-	-	-	-	2	-	960	-	-	-	-	254	29,005	Land	
0	0	-	0	-	0	-	-	-	-	-	-	-	-	-	-	-	-	3,308	Water	
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	3,191	Air	
970	931	39	26	-	16	-	-	-	-	9	-	9,267	-	-	4,953	1,519	129	20,611	Residential	
1,037	968	69	105	-	10	-	-	-	1	94	-	3,065	-	-	9,640	137	33	15,218	Commercial	
23	23	0	23	-	1	-	-	-	-	22	-	277	-	-	2,138	52	575	4,305	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제5차 에너지일량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄				유연탄			에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G
1,000 toe																		
국내생산	1	969	969	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	72,576	4,851	-	4,851	67,726	17,030	50,696	164,184	95,697	14,221	5,458	38,725	467	78	22,032	14,715	-
(석유생산)	3	-	-	-	-	-	-	-	129,958	92,790	14,221	5,412	38,616	467	78	19,281	14,715	-
(석유수입)	4	-	-	-	-	-	-	-	34,226	2,907	-	46	109	-	-	2,751	-	1
수출	5	-	-	-	-	-	-	-	-48,365	-38,684	-5,003	-904	-18,814	-	-	-4,024	-9,939	-
국제병커링	6	-	-	-	-	-	-	-	-7,569	-7,569	-	-	-503	-76	-	-5,887	-1,104	-
재고증감	7	187	187	159	28	-	-	-	-529	-483	-81	-98	-123	3	-1	-146	-36	-0
연초재고	8	1,063	1,063	987	76	-	-	-	5,252	3,513	407	323	1,073	39	6	1,388	277	0
연말재고	9	-876	-876	-827	-48	-	-	-	-5,781	-3,996	-489	-421	-1,196	-36	-7	-1,534	-314	-0
통계오차	10	3,409	38	38	-	3,372	2,017	1,354	-3,209	-2,577	-369	-349	51	-91	129	-2,232	285	-0
1차에너지공급	11	77,142	6,044	1,166	4,878	71,097	19,047	52,050	104,499	46,385	8,767	4,107	19,337	303	206	9,743	3,921	1
에너지전환	12	-48,953	-1,415	-390	-1,025	-47,538	-	-47,538	-3,980	-3,472	-1	-92	-35	-0	-	-3,344	-	-
발전	13	-48,953	-1,415	-390	-1,025	-47,538	-	-47,538	-3,125	-3,099	-1	-91	-34	-	-	-2,973	-	-
지역난방	14	-	-	-	-	-	-	-	-378	-372	-	-0	-	-0	-	-371	-	-
가스제조	15	-	-	-	-	-	-	-	-478	-1	-	-0	-1	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	28,189	4,629	776	3,853	23,560	19,047	4,513	100,519	42,913	8,767	4,015	19,302	303	206	6,399	3,921	1
산업부문	18	27,288	3,729	-	3,729	23,560	19,047	4,513	57,576	7,414	192	697	2,925	116	134	3,350	0	0
농림어업	19	-	-	-	-	-	-	-	2,333	2,326	138	326	1,702	42	59	58	-	-
광업	20	-	-	-	-	-	-	-	95	87	0	12	48	7	6	14	-	-
제조업	21	23,560	-	-	-	23,560	19,047	4,513	52,496	4,152	40	312	467	38	48	3,246	0	0
음식·담배	22	31	-	-	-	31	-	31	345	232	0	23	13	1	6	188	-	-
섬유·의복	23	-	-	-	-	-	-	-	395	374	0	26	6	1	4	336	-	-
목재·나무	24	-	-	-	-	-	-	-	36	33	1	5	8	0	0	19	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	395	381	0	12	8	1	5	355	-	-
석유·화학	26	226	-	-	-	226	-	226	47,323	1,147	1	23	74	1	4	1,043	-	-
비금속	27	2,830	-	-	-	2,830	-	2,830	928	708	1	8	91	2	9	597	-	-
1차금속	28	19,047	-	-	-	19,047	19,047	-	279	204	-	3	5	0	1	196	-	-
비철금속	29	232	-	-	-	232	-	232	89	63	-	0	3	0	1	58	-	-
조립금속	30	-	-	-	-	-	-	-	551	461	31	41	143	25	6	214	0	0
기타제조	31	1,194	-	-	-	1,194	-	1,194	1,196	495	6	170	112	6	11	189	-	-
기타에너지	32	-	-	-	-	-	-	-	958	53	-	0	3	-	0	49	-	-
건설업	33	-	-	-	-	-	-	-	2,652	850	13	47	709	29	20	32	-	-
수송부문	34	-	-	-	-	-	-	-	35,246	29,948	8,498	11	15,099	159	43	2,700	3,438	0
철도운수	35	-	-	-	-	-	-	-	195	195	-	0	195	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	28,316	23,020	8,498	10	14,484	5	2	21	-	-
수상운수	37	-	-	-	-	-	-	-	3,282	3,282	-	0	415	154	40	2,673	-	-
항공운수	38	-	-	-	-	-	-	-	3,453	3,452	0	1	5	0	1	6	3,438	0
가정부문	39	901	901	776	124	-	-	-	3,988	2,951	9	2,228	516	2	5	193	-	-
상업부문	40	-	-	-	-	-	-	-	2,409	1,345	21	975	172	19	21	136	-	0
공공부문	41	-	-	-	-	-	-	-	1,299	1,254	46	104	590	7	4	20	483	0

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 5th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계	
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
1,000 toe																			
-	-	-	-	-	-	-	-	-	-	-	539	-	1,391	31,948	-	-	6,064	40,912	Domestic Production
10,547	4,969	5,578	57,940	45,859	608	4,683	2,634	18	245	3,893	42,384	-	-	-	-	-	-	-	279,145
3,371	1,541	1,830	33,796	21,721	602	4,683	2,634	18	245	3,893	-	-	-	-	-	-	-	-	129,958
7,176	3,428	3,748	24,143	24,137	6	-	-	-	-	-	-	-	-	-	-	-	-	-	34,226
-89	-89	-0	-9,592	-4,110	-	-2,964	-1,911	-	-21	-587	-	-	-	-	-	-	-	-	-48,365
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,569
-38	-7	-31	-8	-65	-9	-20	103	-1	-4	-14	-1,194	-	-	-	-	-	-	-	-1,536
228	130	98	1,511	1,066	16	103	260	1	6	59	2,273	-	-	-	-	-	-	-	8,588
-265	-136	-129	-1,520	-1,131	-25	-123	-156	-2	-10	-73	-3,467	-	-	-	-	-	-	-	-10,124
504	-413	917	-1,136	783	-56	77	-56	-0	-47	-1,837	1,279	-	-	-	-	-	-	-	1,479
10,924	4,461	6,464	47,190	42,467	543	1,778	770	17	159	1,456	43,008	-	1,391	31,948	-	-	6,064	264,053	Primary Supply
-477	-476	-0	-32	-	-	-	-	-	-	-32	-42,019	21,081	-1,391	-31,948	37,338	1,939	-718	-68,653	Transformation
-0	-0	-	-26	-	-	-	-	-	-	-26	-18,118	-922	-1,391	-31,948	40,821	975	-718	-63,381	Electric Generation
-0	-0	-	-6	-	-	-	-	-	-	-6	-847	-1,157	-	-	-	1,064	-	-1,318	District Heating
-476	-476	-0	-	-	-	-	-	-	-	-	-22,778	22,280	-	-	-	-	-	-976	Gas Manufacturing
-	-	-	-	-	-	-	-	-	-	-	-276	881	-	-	-3,483	-100	-	-2,977	Own Use & Loss
10,448	3,984	6,463	47,158	42,467	543	1,778	770	17	159	1,424	989	21,081	-	-	37,338	1,939	5,346	195,401	Final Consumption
3,198	2,112	1,086	46,964	42,467	469	1,778	770	17	153	1,309	989	7,329	-	-	19,193	-	4,215	116,590	Industry
3	3	-	4	-	0	-	-	-	-	4	-	5	-	-	864	-	-	3,201	Agri. Fishery
3	3	-	5	-	0	-	-	-	-	5	-	0	-	-	145	-	-	240	Mining
3,173	2,087	1,086	45,172	42,467	467	-	770	17	153	1,298	989	7,324	-	-	18,184	-	-	102,553	Manufacturing
20	20	0	94	-	-	-	-	-	-	94	-	598	-	-	751	-	-	1,726	Food Tobacco
4	4	0	17	-	8	-	-	-	-	9	-	540	-	-	1,063	-	-	1,998	Textile & Apparel
0	0	-	3	-	2	-	-	-	-	1	-	53	-	-	151	-	-	240	Wood & Wood Pro.
4	4	-	9	-	6	-	-	-	-	3	-	304	-	-	862	-	-	1,561	Pulp & Publications
2,372	1,436	936	43,804	42,467	364	-	-	16	-	957	246	1,648	-	-	3,716	-	-	53,160	Petro. Chemical
34	34	0	186	-	0	-	-	-	149	37	-	456	-	-	999	-	-	5,213	Non-Metallic
67	40	27	7	-	1	-	-	-	4	2	743	1,460	-	-	2,966	-	-	24,495	Iron & Steel
19	19	0	7	-	1	-	-	-	-	5	-	206	-	-	631	-	-	1,158	Non-ferrous
62	56	6	29	-	6	-	-	-	-	23	-	1,364	-	-	6,836	-	-	8,752	Fabricated Metal
590	474	116	112	-	72	-	-	-	-	40	-	694	-	-	208	-	-	3,292	Other Manufacturing
0	0	-	905	-	6	-	770	2	-	127	-	0	-	-	-	-	-	958	Other Energy
18	18	-	1,783	-	2	1,778	-	-	-	3	-	0	-	-	-	-	-	2,652	Construction
5,294	1	5,293	4	-	0	-	-	-	-	4	-	1,112	-	-	188	-	357	36,903	Transport
-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	188	-	-	383	Rail
5,293	0	5,293	3	-	0	-	-	-	-	3	-	1,112	-	-	-	-	357	29,785	Land
0	0	-	0	-	0	-	-	-	-	-	-	-	-	-	-	-	-	3,282	Water
1	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3,453	Air
957	928	29	80	-	58	-	-	-	-	22	-	9,366	-	-	5,263	1,744	72	21,334	Residential
973	917	56	91	-	15	-	-	-	5	71	-	3,122	-	-	10,373	154	33	16,092	Commercial
26	26	0	19	-	1	-	-	-	-	18	-	152	-	-	2,321	41	669	4,482	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제5차 에너지일량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	무연탄				유연탄			에너지유											
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유	
1,000 toe																			
국내생산	1	969	969	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	79,860	5,775	-	5,775	74,086	18,310	55,776	173,355	101,320	15,722	4,916	42,190	468	81	21,502	16,439	-	-
(석유생산)	3	-	-	-	-	-	-	-	138,998	98,700	15,722	4,857	42,053	468	81	19,079	16,439	-	-
(석유수입)	4	-	-	-	-	-	-	-	34,357	2,620	-	58	137	-	-	2,423	-	-	2
수출	5	-	-	-	-	-	-	-	-57,722	-47,649	-6,807	-1,254	-22,903	-6	-	-5,379	-11,301	-	-
국제병커링	6	-	-	-	-	-	-	-	-7,522	-7,522	-	-	-412	-80	-	-5,758	-1,273	-	-
재고증감	7	65	65	54	11	-	-	-	-60	-71	56	70	26	-6	1	-181	-38	-	1
연초재고	8	876	876	827	48	-	-	-	5,818	3,996	489	421	1,196	36	7	1,534	314	-	0
연말재고	9	-811	-811	-773	-37	-	-	-	-5,732	-3,947	-407	-340	-1,066	-42	-6	-1,717	-367	-	-2
통계오차	10	2,793	18	18	-	2,775	3,923	-1,149	-2,592	-1,815	-122	-175	367	-49	114	-2,077	128	-	-1
1차에너지공급	11	83,687	6,827	1,041	5,786	76,860	22,233	54,627	105,459	44,263	8,849	3,558	19,269	327	196	8,107	3,955	-	2
에너지전환	12	-50,827	-983	-252	-731	-49,844	-	-49,844	-3,166	-2,497	-0	-50	-88	-0	-	-2,358	-	-	-
발전	13	-50,827	-983	-252	-731	-49,844	-	-49,844	-2,254	-2,227	-0	-50	-86	-	-	-2,090	-	-	-
지역난방	14	-	-	-	-	-	-	-	-269	-268	-	-0	-0	-0	-	-268	-	-	-
가스제조	15	-	-	-	-	-	-	-	-642	-1	-	-0	-1	-	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	32,860	5,844	789	5,055	27,017	22,233	4,783	102,294	41,766	8,849	3,507	19,181	327	196	5,748	3,955	-	2
산업부문	18	31,989	4,973	-	4,973	27,017	22,233	4,783	59,977	6,611	198	595	2,890	118	126	2,684	0	-	0
농림어업	19	-	-	-	-	-	-	-	2,168	2,163	137	287	1,614	30	52	43	-	-	-
광업	20	-	-	-	-	-	-	-	95	83	0	8	49	9	7	11	-	-	-
제조업	21	27,017	-	-	-	27,017	22,233	4,783	55,164	3,500	42	253	517	46	41	2,600	0	-	0
음식·담배	22	30	-	-	-	30	-	30	218	179	0	17	10	2	6	144	-	-	-
섬유·의복	23	-	-	-	-	-	-	-	270	254	3	30	6	1	5	208	-	-	-
목재·나무	24	-	-	-	-	-	-	-	28	26	1	4	8	1	0	12	-	-	-
펄프·인쇄	25	0	-	-	-	0	-	0	222	212	0	9	7	0	5	190	-	-	-
석유·화학	26	235	-	-	-	235	-	235	50,803	969	0	26	74	2	3	864	-	-	-
비금속	27	3,129	-	-	-	3,129	-	3,129	882	642	0	5	98	2	7	530	-	-	-
1차금속	28	22,233	-	-	-	22,233	22,233	-	232	152	-	1	5	0	1	145	-	-	-
비철금속	29	208	-	-	-	208	-	208	81	60	-	0	3	1	1	55	-	-	-
조립금속	30	-	-	-	-	-	-	-	589	507	30	33	183	31	4	225	0	-	0
기타제조	31	1,182	-	-	-	1,182	-	1,182	1,105	439	7	128	118	5	10	170	-	-	0
기타에너지	32	-	-	-	-	-	-	-	734	61	-	1	3	-	0	57	-	-	-
건설업	33	-	-	-	-	-	-	-	2,550	864	18	46	710	33	26	30	-	-	-
수송부문	34	-	-	-	-	-	-	-	35,139	30,091	8,579	12	15,046	181	40	2,784	3,449	-	0
철도운수	35	-	-	-	-	-	-	-	177	177	-	0	177	-	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	28,129	23,082	8,578	11	14,476	6	1	9	-	-	-
수상운수	37	-	-	-	-	-	-	-	3,366	3,365	-	0	385	174	37	2,769	-	-	-
항공운수	38	-	-	-	-	-	-	-	3,467	3,466	0	0	8	1	2	6	3,449	-	0
가정부문	39	871	871	789	83	-	-	-	3,736	2,750	13	2,048	519	2	3	165	-	-	-
상업부문	40	-	-	-	-	-	-	-	2,201	1,117	19	770	187	19	25	98	0	-	0
공공부문	41	-	-	-	-	-	-	-	1,241	1,197	40	82	540	6	3	17	506	-	2

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



※ Based on the 5th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품											
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	451	-	1,684	33,265	-	-	6,617	42,987	Domestic Production	
9,497	4,638	4,858	62,538	49,095	507	3,867	2,860	15	256	5,938	47,690	-	-	-	-	-	-	300,906	Imports	
1,890	885	1,005	38,408	24,969	502	3,867	2,860	15	256	5,938	-	-	-	-	-	-	-	138,998	(Petroleum Products)	
7,607	3,753	3,853	24,130	24,126	5	-	-	-	-	-	-	-	-	-	-	-	-	34,357	(Petroleum Imports)	
-90	-72	-18	-9,983	-4,529	-27	-2,287	-1,970	-	-5	-1,166	-	-	-	-	-	-	-	-57,722	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,522	Int'l Bunkers
-53	-25	-28	64	32	12	63	-49	-1	9	-2	-800	-	-	-	-	-	-	-795	Stock Change(+/-)	
266	137	129	1,556	1,160	33	123	156	2	10	73	3,520	-	-	-	-	-	-	10,213	Former Stock	
-319	-162	-157	-1,467	-1,127	-21	-59	-183	-2	-1	-73	-4,320	-	-	-	-	-	-	-10,863	Ending Stock	
949	-327	1,277	-1,726	860	-128	22	-340	0	-55	-2,085	-1,057	-	-	-	-	-	-	-857	Statistical Difference	
10,303	4,214	6,089	50,893	45,458	364	1,665	501	15	204	2,686	46,284	-	1,684	33,265	-	-	6,617	276,997	Primary Supply	
-634	-633	-0	-35	-	-	-	-	-	-	-35	-45,032	22,871	-1,684	-33,265	39,136	1,976	-1,768	-71,758	Transformation	
-0	-0	-	-28	-	-	-	-	-	-	-28	-18,735	-928	-1,684	-33,265	42,733	1,279	-1,768	-65,450	Electric Generation	
-0	-0	-	-0	-	-	-	-	-	-	-0	-2,288	-413	-	-	-	776	-	-2,194	District Heating	
-633	-633	-0	-7	-	-	-	-	-	-	-7	-23,731	23,977	-	-	-	-	-	-396	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-278	236	-	-	-3,597	-79	-	-3,717	Own Use & Loss	
9,670	3,581	6,089	50,858	45,458	364	1,665	501	15	204	2,650	1,252	22,871	-	-	39,136	1,976	4,850	205,239	Final Consumption	
2,717	1,798	919	50,649	45,458	316	1,665	501	15	175	2,518	1,252	8,383	-	-	20,830	-	2,900	125,332	Industry	
3	3	0	3	0	0	-	-	-	-	2	-	4	-	-	909	-	-	3,082	Agri. Fishery	
2	2	-	10	-	0	-	-	-	-	4	5	0	-	-	166	-	-	261	Mining	
2,696	1,777	919	48,967	45,458	314	-	501	15	171	2,508	1,252	8,379	-	-	19,754	-	-	111,565	Manufacturing	
19	16	3	20	-	-	-	-	-	-	20	-	660	-	-	797	-	-	1,706	Food Tobacco	
3	3	0	13	-	6	-	-	-	-	7	-	588	-	-	1,099	-	-	1,957	Textile & Apparel	
0	0	-	2	-	1	-	-	-	-	0	-	49	-	-	153	-	-	230	Wood & Wood Pro.	
3	3	0	7	-	4	-	-	-	-	3	-	403	-	-	886	-	-	1,510	Pulp & Publications	
1,941	1,137	804	47,893	45,458	245	-	-	13	-	2,176	467	2,207	-	-	4,140	-	-	57,852	Petro. Chemical	
26	26	0	214	-	0	-	-	-	170	44	-	474	-	-	1,017	-	-	5,501	Non-Metallic	
76	49	27	3	-	1	-	-	-	1	2	785	1,392	-	-	3,302	-	-	27,944	Iron & Steel	
16	16	0	6	-	1	-	-	-	-	5	-	257	-	-	674	-	-	1,220	Non-ferrous	
57	52	5	25	-	4	-	-	-	-	21	-	1,655	-	-	7,474	-	-	9,717	Fabricated Metal	
508	431	77	158	-	48	-	-	-	-	110	-	695	-	-	213	-	-	3,195	Other Manufacturing	
47	44	3	626	-	4	-	501	2	-	120	-	-	-	-	-	-	-	734	Other Energy	
16	16	0	1,670	-	1	1,665	-	-	-	3	-	1	-	-	-	-	-	2,551	Construction	
5,036	1	5,034	13	-	0	-	-	-	7	6	-	1,174	-	-	193	-	336	36,842	Transport	
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	193	-	-	371	Rail	
5,035	0	5,034	12	-	0	-	-	-	7	5	-	1,174	-	-	-	-	336	29,639	Land	
0	0	-	0	-	0	-	-	-	-	-	-	-	-	-	-	-	-	3,366	Water	
1	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3,467	Air	
926	899	28	59	-	37	-	-	-	-	22	-	10,125	-	-	5,295	1,774	70	21,871	Residential	
967	860	108	117	-	10	-	-	-	22	84	-	3,076	-	-	10,463	158	495	16,394	Commercial	
23	23	0	20	-	1	-	-	-	-	20	-	112	-	-	2,355	44	1,048	4,800	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제6차 에너지일량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	무연탄				유연탄			에너지유											
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유	
1,000 toe																			
국내생산	1	942	942	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	77,546	4,752	-	4,752	72,793	18,100	54,693	178,667	104,441	17,004	3,741	45,053	390	57	20,050	18,143	-	3
(석유생산)	3	-	-	-	-	-	-	-	141,032	99,427	16,993	3,719	44,368	390	57	15,756	18,143	-	-
(석유수입)	4	-	-	-	-	-	-	-	37,635	5,013	10	21	685	-	-	4,294	-	-	3
수출	5	-	-	-	-	-	-	-	-61,687	-51,338	-7,853	-1,060	-25,278	-	-	-4,442	-12,704	-	-1
국제병커링	6	-	-	-	-	-	-	-	-7,536	-7,536	-	-	-360	-75	-	-5,766	-1,336	-	-
재고증감	7	-34	-34	-18	-17	-	-	-	-967	-433	-235	61	-282	-2	1	102	-80	-	2
연초재고	8	782	782	748	34	-	-	-	5,681	3,938	396	339	1,061	42	6	1,726	366	-	2
연말재고	9	-816	-816	-766	-50	-	-	-	-6,648	-4,371	-631	-279	-1,343	-43	-5	-1,624	-446	-	-0
통계오차	10	2,182	-279	105	-383	2,461	3,941	-1,480	-2,365	-1,162	-39	334	90	-12	71	-1,772	168	-	-2
1차에너지공급	11	80,636	5,382	1,030	4,352	75,254	22,041	53,213	106,134	43,968	8,877	3,076	19,225	299	130	8,169	4,191	-	1
에너지전환	12	-49,619	-871	-266	-605	-48,748	-	-48,748	-4,451	-3,689	-0	-40	-163	-0	-	-3,485	-	-	-
발전	13	-49,619	-871	-266	-605	-48,748	-	-48,748	-3,517	-3,481	-0	-40	-161	-	-	-3,280	-	-	-
지역난방	14	-	-	-	-	-	-	-	-206	-206	-	-	-0	-0	-	-205	-	-	-
가스제조	15	-	-	-	-	-	-	-	-728	-2	-	-	-2	-	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	31,017	4,511	764	3,747	26,507	22,041	4,466	101,683	40,279	8,876	3,036	19,062	299	130	4,684	4,191	-	1
산업부문	18	30,185	3,679	-	3,679	26,507	22,041	4,466	60,073	5,542	186	515	2,804	116	80	1,841	0	-	-
농림어업	19	-	-	-	-	-	-	-	2,128	2,122	129	266	1,632	29	39	26	-	-	-
광업	20	-	-	-	-	-	-	-	89	80	0	5	53	8	3	10	-	-	-
제조업	21	26,507	-	-	-	26,507	22,041	4,466	55,462	2,586	39	204	495	55	27	1,765	0	-	-
음식·담배	22	31	-	-	-	31	-	31	168	131	0	14	10	3	4	99	-	-	-
섬유·의복	23	-	-	-	-	-	-	-	124	115	3	22	10	3	2	75	-	-	-
목재·나무	24	-	-	-	-	-	-	-	21	21	1	4	8	1	0	8	-	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	95	82	0	6	8	0	4	62	-	-	-
석유·화학	26	236	-	-	-	236	-	236	51,766	676	2	24	23	7	2	617	-	-	-
비금속	27	2,849	-	-	-	2,849	-	2,849	632	455	0	3	117	2	5	327	-	-	-
1차금속	28	22,041	-	-	-	22,041	22,041	-	136	58	-	0	7	0	0	50	-	-	-
비철금속	29	216	-	-	-	216	-	216	59	43	-	0	3	1	0	39	-	-	-
조립금속	30	-	-	-	-	-	-	-	602	537	25	31	163	33	3	282	0	-	-
기타제조	31	1,134	-	-	-	1,134	-	1,134	1,073	397	6	99	121	4	5	161	-	-	-
기타에너지	32	-	-	-	-	-	-	-	785	73	-	1	26	0	0	45	-	-	-
건설업	33	-	-	-	-	-	-	-	2,394	755	17	39	624	24	10	40	-	-	-
수송부문	34	-	-	-	-	-	-	-	34,982	30,109	8,612	18	14,954	159	33	2,621	3,713	-	0
철도운수	35	-	-	-	-	-	-	-	176	176	-	0	176	-	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	27,918	23,051	8,612	17	14,406	5	2	9	0	-	0
수상운수	37	-	-	-	-	-	-	-	3,154	3,150	0	0	361	154	29	2,606	-	-	-
항공운수	38	-	-	-	-	-	-	-	3,733	3,732	0	0	11	0	2	6	3,713	-	0
가정부문	39	832	832	764	68	-	-	-	3,272	2,456	13	1,808	503	3	2	127	0	-	-
상업부문	40	-	-	-	-	-	-	-	2,098	959	21	631	196	16	14	79	2	-	0
공공부문	41	-	-	-	-	-	-	-	1,258	1,213	44	64	605	5	1	15	476	-	1

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 6th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품											
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	436	-	1,615	31,719	-	-	8,036	42,748	Domestic Production	
8,956	4,552	4,403	65,271	50,814	498	3,981	3,187	14	264	6,513	47,184	-	-	-	-	-	-	303,396	Imports	
1,765	959	806	39,840	25,386	494	3,981	3,187	14	264	6,513	-	-	-	-	-	-	-	141,032	(Petroleum Products)	
7,191	3,593	3,598	25,431	25,428	3	-	-	-	-	-	-	-	-	-	-	-	-	37,635	(Petroleum Imports)	
-176	-152	-24	-10,173	-4,080	-53	-2,269	-2,314	-	-	-1,457	-	-	-	-	-	-	-	-61,687	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,536	Int'l Bunkers
38	23	15	-572	-366	1	-93	-90	1	-3	-23	1,934	-	-	-	-	-	-	933	Stock Change(+/-)	
319	162	157	1,424	1,080	21	59	188	2	1	73	4,333	-	-	-	-	-	-	10,796	Former Stock	
-280	-139	-142	-1,996	-1,446	-19	-152	-277	-2	-4	-96	-2,399	-	-	-	-	-	-	-9,863	Ending Stock	
1,095	-336	1,431	-2,297	776	-282	-26	-261	0	-101	-2,403	631	-	-	-	-	-	-	449	Statistical Difference	
9,912	4,087	5,825	52,254	47,144	160	1,625	521	15	160	2,628	50,185	-	1,615	31,719	-	-	8,036	278,325	Primary Supply	
-718	-716	-1	-44	-	-	-	-	-	-	-44	-49,029	24,728	-1,615	-31,719	40,127	2,102	-1,880	-71,356	Transformation	
-0	-0	-0	-35	-	-	-	-	-	-	-35	-20,598	-411	-1,615	-31,719	43,823	1,364	-1,880	-64,171	Electric Generation	
-0	-0	-	-	-	-	-	-	-	-	-	-2,668	-554	-	-	-	811	-	-2,616	District Heating	
-717	-716	-1	-9	-	-	-	-	-	-	-9	-25,503	25,300	-	-	-	-	-	-931	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-260	392	-	-	-3,696	-73	-	-3,638	Own Use & Loss	
9,194	3,370	5,824	52,209	47,144	160	1,625	521	15	160	2,583	1,156	24,728	-	-	40,127	2,102	6,156	206,968	Final Consumption	
2,496	1,701	795	52,035	47,143	142	1,625	521	15	128	2,460	1,156	9,501	-	-	21,426	-	4,028	126,368	Industry	
4	4	-	2	0	0	-	-	-	-	2	-	6	-	-	1,038	-	-	3,172	Agri. Fishery	
7	7	0	3	0	0	-	-	-	-	3	-	0	-	-	139	-	-	228	Mining	
2,474	1,679	795	50,402	47,143	142	-	521	15	128	2,453	1,156	9,494	-	-	20,248	-	-	112,866	Manufacturing	
18	18	0	20	-	-	-	-	-	-	20	-	698	-	-	842	-	-	1,740	Food Tobacco	
3	3	0	6	-	1	-	-	-	-	5	-	570	-	-	1,094	-	-	1,789	Textile & Apparel	
0	0	-	0	-	0	-	-	-	-	0	-	48	-	-	152	-	-	222	Wood & Wood Pro.	
3	3	-	10	-	5	-	-	-	-	5	-	435	-	-	864	-	-	1,394	Pulp & Publications	
1,679	1,028	651	49,412	47,143	103	-	-	13	0	2,153	327	2,163	-	-	4,346	-	-	58,838	Petro. Chemical	
21	21	0	156	-	0	-	-	-	127	29	-	576	-	-	940	-	-	4,996	Non-Metallic	
76	46	30	2	-	1	-	-	-	1	1	829	1,341	-	-	3,231	-	-	27,578	Iron & Steel	
12	12	0	4	-	0	-	-	-	-	3	-	240	-	-	697	-	-	1,212	Non-ferrous	
48	45	3	18	-	1	-	-	-	-	16	-	1,659	-	-	7,870	-	-	10,131	Fabricated Metal	
542	440	103	134	-	22	-	-	-	-	111	-	1,764	-	-	211	-	-	4,181	Other Manufacturing	
72	64	8	641	-	8	-	521	2	-	109	-	-	-	-	-	-	-	785	Other Energy	
11	11	0	1,628	-	0	1,625	-	-	-	3	-	1	-	-	-	-	-	2,395	Construction	
4,863	1	4,862	9	-	0	-	-	-	3	6	-	1,248	-	-	194	-	360	36,783	Transport	
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	194	-	-	370	Rail	
4,862	0	4,862	5	-	0	-	-	-	3	2	-	1,248	-	-	-	-	360	29,526	Land	
1	1	-	3	-	0	-	-	-	-	3	-	-	-	-	-	-	-	3,154	Water	
0	0	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3,733	Air	
794	761	33	22	-	9	-	-	-	-	13	-	10,109	-	-	5,464	1,878	94	21,649	Residential	
1,016	882	134	123	0	9	-	-	-	30	84	-	3,688	-	-	10,585	177	405	16,954	Commercial	
25	24	0	21	-	0	-	-	-	-	21	-	181	-	-	2,459	47	1,270	5,214	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제6차 에너지량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	무연탄				유연탄			에너지유											
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G	
1,000 toe																			
국내생산	1	817	817	817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
수입	2	79,230	5,005	-	5,005	74,226	21,953	52,273	176,703	101,414	16,912	3,018	43,887	352	51	19,145	18,047	-	2
(석유생산)	3	-	-	-	-	-	-	-	135,856	92,949	16,700	3,004	42,655	352	51	12,140	18,047	-	-
(석유수입)	4	-	-	-	-	-	-	-	40,847	8,465	212	14	1,231	-	-	7,005	-	-	2
수출	5	-	-	-	-	-	-	-	-59,910	-48,224	-7,918	-934	-23,458	-1	-	-3,487	-12,425	-	-2
국제병커링	6	-	-	-	-	-	-	-	-7,901	-7,901	-	-	-409	-40	-	-6,021	-1,430	-	-
재고증감	7	144	144	162	-18	-	-	-	-68	-129	9	-45	-25	13	0	20	-101	-	-0
연초재고	8	816	816	766	50	-	-	-	6,622	4,394	631	279	1,343	43	5	1,647	446	-	0
연말재고	9	-672	-672	-604	-68	-	-	-	-6,781	-4,526	-626	-324	-1,367	-30	-5	-1,627	-547	-	-0
통계오차	10	1,352	-466	-54	-411	1,818	484	1,334	-3,309	-1,989	78	591	-56	-76	86	-2,730	118	-	0
1차에너지공급	11	81,544	5,500	924	4,575	76,044	22,437	53,607	105,515	43,171	9,081	2,630	19,939	249	138	6,927	4,208	-	1
에너지전환	12	-49,941	-851	-145	-706	-49,090	-	-49,090	-3,992	-3,747	-0	-36	-107	-0	-	-3,604	-	-	-
발전	13	-49,941	-851	-145	-706	-49,090	-	-49,090	-3,608	-3,545	-0	-36	-106	-	-	-3,403	-	-	-
지역난방	14	-	-	-	-	-	-	-	-201	-201	-	-	-0	-0	-	-201	-	-	-
가스제조	15	-	-	-	-	-	-	-	-183	-1	-	-	-1	-	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	31,603	4,649	779	3,870	26,954	22,437	4,517	101,522	39,424	9,080	2,594	19,832	249	138	3,323	4,208	-	1
산업부문	18	30,730	3,776	-	3,776	26,954	22,437	4,517	60,369	5,017	192	457	2,952	93	79	1,243	0	-	-
농림어업	19	-	-	-	-	-	-	-	2,183	2,178	134	248	1,713	27	35	22	-	-	-
광업	20	-	-	-	-	-	-	-	101	91	0	4	64	9	3	11	-	-	-
제조업	21	26,954	-	-	-	26,954	22,437	4,517	55,628	2,011	43	171	549	39	23	1,186	0	-	-
음식·담배	22	30	-	-	-	30	-	30	107	75	1	13	8	2	4	48	-	-	-
섬유·의복	23	-	-	-	-	-	-	-	87	79	3	20	9	0	1	46	-	-	-
목재·나무	24	-	-	-	-	-	-	-	16	16	1	3	7	0	0	5	-	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	58	50	0	4	8	0	3	34	-	-	-
석유·화학	26	241	-	-	-	241	-	241	52,521	499	5	19	29	1	2	443	-	-	-
비금속	27	2,863	-	-	-	2,863	-	2,863	514	397	0	3	125	1	3	263	-	-	-
1차금속	28	22,437	-	-	-	22,437	22,437	-	106	35	-	0	7	0	0	27	-	-	-
비철금속	29	242	-	-	-	242	-	242	45	32	-	-	3	0	0	29	-	-	-
조립금속	30	-	-	-	-	-	-	-	483	416	27	23	194	31	4	136	0	-	-
기타제조	31	1,140	-	-	-	1,140	-	1,140	931	359	6	85	130	2	5	131	0	-	-
기타에너지	32	-	-	-	-	-	-	-	761	53	0	1	29	0	0	22	-	-	-
건설업	33	-	-	-	-	-	-	-	2,456	736	15	35	626	18	18	24	-	-	-
수송부문	34	-	-	-	-	-	-	-	34,928	30,161	8,802	7	15,552	130	40	1,906	3,725	-	0
철도운수	35	-	-	-	-	-	-	-	156	156	-	-	156	-	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	28,597	23,834	8,802	7	15,015	4	2	4	-	-	-
수상운수	37	-	-	-	-	-	-	-	2,433	2,431	0	0	372	126	38	1,895	-	-	-
항공운수	38	-	-	-	-	-	-	-	3,742	3,741	0	0	9	0	0	7	3,725	-	0
가정부문	39	872	872	779	93	-	-	-	3,075	2,194	12	1,533	552	3	2	91	0	-	-
상업부문	40	-	-	-	-	-	-	-	1,923	865	31	539	187	19	13	72	4	-	0
공공부문	41	-	-	-	-	-	-	-	1,227	1,187	43	58	589	3	4	11	478	-	1

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 6th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	Non- Energy Use	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	463	-	1,771	29,283	-	-	8,987	41,321	Domestic Production	
8,888	4,033	4,855	66,401	50,985	416	4,629	2,929	15	278	7,149	51,998	-	-	-	-	-	-	307,932	Imports	
2,076	901	1,175	40,831	25,452	414	4,629	2,929	15	278	7,113	-	-	-	-	-	-	-	135,856	(Petroleum Products)	
6,812	3,132	3,680	25,570	25,532	2	-	-	-	-	36	-	-	-	-	-	-	-	40,847	(Petroleum Imports)	
-84	-80	-4	-11,602	-4,848	-120	-2,900	-2,189	-	-11	-1,534	-	-	-	-	-	-	-	-59,910	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7,901	Int'l Bunkers
84	43	40	-23	-74	8	16	12	1	-2	15	-518	-	-	-	-	-	-	-442	Stock Change(+/-)	
280	139	142	1,947	1,397	20	152	277	2	4	96	2,399	-	-	-	-	-	-	9,837	Former Stock	
-197	-95	-101	-2,058	-1,560	-12	-136	-265	-1	-6	-79	-2,917	-	-	-	-	-	-	-10,370	Ending Stock	
814	-348	1,162	-2,133	1,037	-212	-36	-241	-0	-150	-2,531	580	-	-	-	-	-	-	-1,376	Statistical Difference	
9,701	3,648	6,053	52,643	47,100	92	1,709	512	16	114	3,099	52,523	-	1,771	29,283	-	-	8,987	279,623	Primary Supply	
-166	-162	-3	-80	-	-	-	-	-	-	-80	-51,710	24,878	-1,771	-29,283	40,837	2,070	-2,348	-71,261	Transformation	
-1	-0	-1	-62	-	-	-	-	-	-	-62	-23,153	-335	-1,771	-29,283	44,475	1,458	-2,348	-64,508	Electric Generation	
-0	-0	-	-	-	-	-	-	-	-	-	-2,749	-463	-	-	-	755	-	-2,659	District Heating	
-164	-162	-2	-18	-	-	-	-	-	-	-18	-25,554	25,303	-	-	-	-	-	-433	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-254	373	-	-	-3,638	-143	-	-3,661	Own Use & Loss	
9,536	3,486	6,050	52,563	47,100	92	1,709	512	16	114	3,019	813	24,878	-	-	40,837	2,070	6,639	208,362	Final Consumption	
2,944	1,804	1,140	52,408	47,100	79	1,709	512	16	85	2,907	813	9,903	-	-	22,088	-	5,017	128,920	Industry	
3	3	0	2	-	0	-	-	-	-	2	-	4	-	-	1,123	-	-	3,310	Agri. Fishery	
6	6	0	4	-	0	-	-	-	3	1	-	-	-	-	127	-	-	228	Mining	
2,927	1,787	1,140	50,691	47,100	79	-	512	16	82	2,902	813	9,899	-	-	20,838	-	-	114,132	Manufacturing	
16	16	0	16	-	-	-	-	-	-	16	-	687	-	-	862	-	-	1,686	Food Tobacco	
3	2	0	5	-	0	-	-	-	-	4	-	370	-	-	1,069	-	-	1,525	Textile & Apparel	
0	0	-	0	-	0	-	-	-	-	0	-	65	-	-	160	-	-	241	Wood & Wood Pro.	
3	3	-	5	-	3	-	-	-	-	2	-	431	-	-	875	-	-	1,363	Pulp & Publications	
2,221	1,230	991	49,800	47,100	54	-	-	12	-	2,634	29	3,184	-	-	4,482	-	-	60,456	Petro. Chemical	
16	16	-	101	-	0	-	-	-	82	19	-	628	-	-	966	-	-	4,971	Non-Metallic	
71	35	36	1	-	0	-	-	-	-	0	784	1,298	-	-	3,271	-	-	27,897	Iron & Steel	
9	9	0	3	-	0	-	-	-	-	3	-	288	-	-	725	-	-	1,300	Non-ferrous	
49	45	4	18	-	1	-	-	-	-	17	-	1,810	-	-	8,198	-	-	10,490	Fabricated Metal	
463	363	100	109	-	11	-	-	-	-	98	-	1,138	-	-	231	-	-	3,441	Other Manufacturing	
76	67	9	633	-	10	-	512	4	-	107	-	0	-	-	-	-	-	761	Other Energy	
9	9	0	1,711	-	-	1,709	-	-	-	2	-	0	-	-	-	-	-	2,457	Construction	
4,755	3	4,752	11	-	0	-	-	-	-	10	1	-	1,299	-	-	186	-	548	36,961	Transport
0	0	-	-	-	-	-	-	-	-	-	-	0	-	-	186	-	-	342	Rail	
4,753	0	4,752	11	-	0	-	-	-	-	10	1	-	1,299	-	-	-	-	548	30,444	Land
2	2	0	0	-	0	-	-	-	-	0	-	0	-	-	-	-	-	2,433	Water	
0	0	-	1	-	-	-	-	-	-	1	-	0	-	-	-	-	-	3,742	Air	
869	838	31	12	-	4	-	-	-	-	8	-	9,849	-	-	5,501	1,841	155	21,293	Residential	
944	819	126	114	-	9	-	-	-	-	19	85	-	3,730	-	-	10,576	182	60	16,471	Commercial
23	22	0	17	-	0	-	-	-	-	17	-	98	-	-	2,485	46	859	4,716	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제6차 에너지량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄				유연탄			에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G
1,000 toe																		
국내생산	1	787	787	787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	80,460	4,893	-	4,893	75,566	24,639	50,928	179,712	101,784	17,942	2,359	45,789	355	42	16,532	18,765	-
(석유생산)	3	-	-	-	-	-	-	-	138,955	92,800	17,942	2,340	45,051	355	42	8,305	18,765	-
(석유수입)	4	-	-	-	-	-	-	-	40,757	8,984	-	19	738	-	-	8,227	-	1
수출	5	-	-	-	-	-	-	-	-62,593	-49,771	-9,070	-620	-24,945	-48	-	-2,064	-13,019	-6
국제병커링	6	-	-	-	-	-	-	-	-8,202	-8,202	-	-	-513	-33	-	-6,078	-1,578	-
재고증감	7	-70	-70	-64	-6	-	-	-	86	306	89	85	125	-12	0	-111	132	-2
연초재고	8	672	672	604	68	-	-	-	6,785	4,530	626	324	1,371	30	5	1,627	547	0
연말재고	9	-742	-742	-668	-74	-	-	-	-6,717	-4,233	-550	-240	-1,243	-43	-5	-1,737	-414	-2
통계오차	10	3,223	-384	16	-400	3,607	1,689	1,918	-4,359	-2,898	127	333	-162	-47	69	-3,359	132	10
1차에너지공급	11	84,399	5,226	739	4,487	79,173	26,328	52,845	104,643	41,218	9,088	2,156	20,294	214	111	4,919	4,433	3
에너지전환	12	-49,201	-1,013	-113	-901	-48,188	-	-48,188	-1,979	-1,795	-0	-8	-19	-0	-	-1,768	-	-
발전	13	-49,201	-1,013	-113	-901	-48,188	-	-48,188	-1,729	-1,631	-0	-8	-19	-	-	-1,604	-	-
지역난방	14	-	-	-	-	-	-	-	-164	-164	-	-	-0	-0	-	-164	-	-
가스제조	15	-	-	-	-	-	-	-	-87	-1	-	-	-1	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	35,198	4,212	626	3,586	30,985	26,328	4,658	102,664	39,423	9,088	2,148	20,274	214	111	3,151	4,433	3
산업부문	18	34,452	3,467	-	3,467	30,985	26,328	4,658	61,343	4,417	181	222	2,716	87	57	1,154	0	0
농림어업	19	-	-	-	-	-	-	-	1,670	1,663	124	110	1,368	18	26	16	-	-
광업	20	-	-	-	-	-	-	-	73	70	0	1	56	6	3	3	-	-
제조업	21	30,985	-	-	-	30,985	26,328	4,658	57,315	1,897	41	94	585	48	18	1,111	0	0
음식·담배	22	31	-	-	-	31	-	31	86	55	1	5	10	1	4	34	-	-
섬유·의복	23	-	-	-	-	-	-	-	82	75	3	11	9	0	1	51	-	-
목재·나무	24	-	-	-	-	-	-	-	9	9	0	1	4	0	0	4	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	35	25	0	2	5	0	1	17	-	-
석유·화학	26	259	-	-	-	259	-	259	54,316	535	8	16	47	1	2	460	-	-
비금속	27	3,028	-	-	-	3,028	-	3,028	457	345	0	2	130	1	2	209	-	-
1차금속	28	26,328	-	-	-	26,328	26,328	-	100	27	-	0	7	0	0	20	-	-
비철금속	29	258	-	-	-	258	-	258	33	21	0	0	3	0	0	18	-	-
조립금속	30	-	-	-	-	-	-	-	492	433	23	12	227	35	4	132	0	0
기타제조	31	1,082	-	-	-	1,082	-	1,082	976	336	4	43	123	9	3	153	-	-
기타에너지	32	-	-	-	-	-	-	-	729	34	0	0	20	0	0	14	-	-
건설업	33	-	-	-	-	-	-	-	2,286	787	15	17	708	14	10	23	-	-
수송부문	34	-	-	-	-	-	-	-	35,308	30,837	8,805	5	16,058	110	40	1,870	3,948	2
철도운수	35	-	-	-	-	-	-	-	130	130	-	0	130	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	28,888	24,421	8,804	4	15,603	3	1	7	-	-
수상운수	37	-	-	-	-	-	-	-	2,319	2,316	1	1	311	107	37	1,859	-	-
항공운수	38	-	-	-	-	-	-	-	3,971	3,970	0	0	14	0	1	4	3,948	2
가정부문	39	745	745	626	119	-	-	-	2,965	2,105	17	1,436	591	4	4	53	0	-
상업부문	40	-	-	-	-	-	-	-	1,741	794	39	383	281	11	9	67	3	0
공공부문	41	-	-	-	-	-	-	-	1,306	1,270	46	102	628	2	2	8	480	1

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 6th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계	
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total	
1,000 toe																			
-	-	-	-	-	-	-	-	-	-	-	322	-	1,650	33,002	-	-	10,956	46,716	Domestic Production
9,083	4,100	4,983	68,845	51,951	373	5,157	3,471	17	298	7,579	48,388	-	-	-	-	-	-	308,559	Imports
2,537	959	1,578	43,618	26,733	370	5,157	3,464	17	298	7,579	-	-	-	-	-	-	-	138,955	(Petroleum Products)
6,546	3,141	3,405	25,227	25,217	3	-	6	-	-	-	-	-	-	-	-	-	-	40,757	(Petroleum Imports)
-135	-102	-33	-12,687	-4,335	-149	-3,678	-2,700	-	-4	-1,821	-	-	-	-	-	-	-	-62,593	Exports
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8,202	Int'l Bunkers
-241	-182	-59	21	-11	1	14	28	-0	-11	-1	-1,300	-	-	-	-	-	-	-1,285	Stock Change(+/-)
197	95	101	2,058	1,560	12	136	265	1	6	79	2,917	-	-	-	-	-	-	10,374	Former Stock
-438	-277	-160	-2,047	-1,571	-20	-121	-237	-1	-17	-80	-4,218	-	-	-	-	-	-	-11,677	Ending Stock
635	-341	976	-2,096	977	-99	-6	-250	-0	-173	-2,546	364	-	-	-	-	-	-	-772	Statistical Difference
9,343	3,475	5,868	54,083	48,583	126	1,488	549	16	110	3,211	47,773	-	1,650	33,002	-	-	10,956	282,423	Primary Supply
-72	-68	-4	-112	-	-	-	-	-	-	-112	-47,004	23,041	-1,650	-33,002	41,073	1,528	-4,782	-71,976	Transformation
-0	-0	-0	-97	-	-	-	-	-	-	-97	-20,953	-305	-1,650	-33,002	44,889	1,255	-4,782	-65,476	Electric Generation
-0	-0	-	-	-	-	-	-	-	-	-	-2,157	-349	-	-	-	819	-	-1,852	District Heating
-71	-67	-4	-15	-	-	-	-	-	-	-15	-23,706	23,221	-	-	-	-	-	-572	Gas Manufacturing
-	-	-	-	-	-	-	-	-	-	-	-188	473	-	-	-3,817	-545	-	-4,076	Own Use & Loss
9,271	3,408	5,863	53,971	48,583	126	1,488	549	16	110	3,099	769	23,041	-	-	41,073	1,528	6,175	210,448	Final Consumption
3,096	1,873	1,223	53,831	48,583	108	1,488	549	16	81	3,006	769	9,050	-	-	22,757	-	4,526	132,897	Industry
5	4	0	3	-	0	-	-	-	-	2	-	3	-	-	1,166	-	-	2,839	Agri. Fishery
2	2	0	1	-	0	-	-	-	-	1	-	-	-	-	135	-	-	208	Mining
3,080	1,858	1,223	52,337	48,583	108	-	549	16	81	3,001	769	9,045	-	-	21,456	-	-	119,570	Manufacturing
17	17	0	14	-	-	-	-	-	-	14	-	700	-	-	869	-	-	1,686	Food Tobacco
3	2	0	4	-	1	-	-	-	-	4	-	376	-	-	1,029	-	-	1,487	Textile & Apparel
0	0	-	0	-	0	-	-	-	-	0	-	77	-	-	166	-	-	253	Wood & Wood Pro.
4	4	-	6	-	4	-	-	-	-	2	-	323	-	-	858	-	-	1,216	Pulp & Publications
2,345	1,286	1,059	51,436	48,583	74	-	-	10	-	2,770	29	2,974	-	-	4,729	-	-	62,307	Petro. Chemical
12	12	0	100	-	0	-	-	-	81	19	-	566	-	-	1,001	-	-	5,052	Non-Metallic
72	35	37	1	-	0	-	-	-	-	0	740	1,267	-	-	3,472	-	-	31,906	Iron & Steel
9	9	0	3	-	0	-	-	-	-	3	-	257	-	-	724	-	-	1,272	Non-ferrous
42	39	3	17	-	1	-	-	-	-	16	-	1,811	-	-	8,365	-	-	10,667	Fabricated Metal
523	405	118	117	-	16	-	-	-	-	101	-	694	-	-	243	-	-	2,995	Other Manufacturing
54	48	6	640	-	13	-	549	6	-	72	-	-	-	-	-	-	-	729	Other Energy
9	9	-	1,489	-	-	1,488	-	-	-	2	-	1	-	-	-	-	-	2,287	Construction
4,455	2	4,453	16	-	0	-	-	-	13	3	-	1,307	-	-	172	-	454	37,241	Transport
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	172	-	-	302	Rail
4,454	0	4,453	14	-	0	-	-	-	13	1	-	1,307	-	-	-	-	454	30,649	Land
0	0	-	2	-	0	-	-	-	-	2	-	-	-	-	-	-	-	2,319	Water
0	0	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3,971	Air
847	794	53	14	-	5	-	-	-	-	9	-	9,124	-	-	5,390	1,376	213	19,813	Residential
853	719	134	95	-	13	-	-	-	16	65	-	3,476	-	-	10,316	126	155	15,814	Commercial
20	20	1	16	-	0	-	-	-	-	15	-	85	-	-	2,438	27	827	4,683	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

26. 2015년

※ 제6차 에너지량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄				유연탄			에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G
1,000 toe																		
국내생산	1	794	794	794	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	81,688	5,274	-	5,274	76,414	23,904	52,510	188,320	107,479	19,507	2,586	47,799	446	41	16,044	21,056	-
(석유생산)	3	-	-	-	-	-	-	-	150,185	99,998	19,459	2,584	47,760	446	41	8,651	21,056	-
(석유수입)	4	-	-	-	-	-	-	-	38,134	7,481	48	1	38	-	-	7,393	-	1
수출	5	-	-	-	-	-	-	-	-66,279	-51,539	-9,808	-527	-24,638	-84	-	-1,595	-14,879	-10
국제병커링	6	-	-	-	-	-	-	-	-8,742	-8,742	-	-	-825	-25	-	-6,285	-1,607	-
재고증감	7	-76	-76	-111	35	-	-	-	-328	-532	-81	-71	-344	6	1	-89	47	-0
연초재고	8	742	742	668	74	-	-	-	6,718	4,233	550	240	1,243	43	5	1,737	414	2
연말재고	9	-818	-818	-779	-40	-	-	-	-7,046	-4,765	-631	-311	-1,587	-36	-4	-1,826	-367	-2
통계오차	10	2,996	-398	11	-409	3,394	1,823	1,571	-3,880	-2,165	-147	280	-39	-111	79	-2,387	146	15
1차에너지공급	11	85,401	5,593	694	4,900	79,808	25,727	54,081	109,090	44,501	9,471	2,268	21,953	231	121	5,689	4,763	6
에너지전환	12	-50,552	-1,054	-110	-944	-49,498	-	-49,498	-2,237	-2,013	-0	-2	-13	-0	-	-1,997	-	-
발전	13	-50,552	-1,054	-110	-944	-49,498	-	-49,498	-2,015	-1,891	-0	-2	-12	-	-	-1,876	-	-
지역난방	14	-	-	-	-	-	-	-	-121	-121	-	-	-0	-0	-	-121	-	-
가스제조	15	-	-	-	-	-	-	-	-100	-1	-	-0	-1	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	34,849	4,539	583	3,956	30,310	25,727	4,583	106,854	42,488	9,470	2,265	21,940	231	121	3,691	4,763	6
산업부문	18	34,177	3,867	-	3,867	30,310	25,727	4,583	62,156	4,178	177	142	2,517	61	65	1,215	1	0
농림어업	19	-	-	-	-	-	-	-	1,467	1,455	113	90	1,192	16	25	19	-	-
광업	20	-	-	-	-	-	-	-	67	56	0	1	42	4	6	3	-	-
제조업	21	30,310	-	-	-	30,310	25,727	4,583	58,106	1,793	43	44	474	29	22	1,180	1	0
음식·담배	22	33	-	-	-	33	-	33	81	48	1	2	8	0	3	35	-	-
섬유·의복	23	-	-	-	-	-	-	-	92	84	0	4	3	0	1	75	-	-
목재·나무	24	-	-	-	-	-	-	-	6	6	0	0	2	0	0	3	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	34	22	0	0	2	0	1	18	-	-
석유·화학	26	257	-	-	-	257	-	257	55,112	514	12	9	41	1	8	444	-	-
비금속	27	2,864	-	-	-	2,864	-	2,864	540	454	0	1	135	2	2	313	-	-
1차금속	28	25,727	-	-	-	25,727	25,727	-	106	25	-	0	5	0	0	20	-	-
비철금속	29	324	-	-	-	324	-	324	31	20	-	0	3	0	0	16	-	-
조립금속	30	-	-	-	-	-	-	-	332	280	26	4	135	24	3	89	0	0
기타제조	31	1,105	-	-	-	1,105	-	1,105	960	307	3	22	122	2	3	153	1	-
기타에너지	32	-	-	-	-	-	-	-	813	33	0	2	17	-	0	14	-	-
건설업	33	-	-	-	-	-	-	-	2,516	874	21	7	809	11	12	13	-	-
수송부문	34	-	-	-	-	-	-	-	37,928	33,518	9,186	9	17,566	141	39	2,321	4,254	3
철도운수	35	-	-	-	-	-	-	-	119	119	-	-	119	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	30,594	26,191	9,185	8	16,988	2	1	7	-	-
수상운수	37	-	-	-	-	-	-	-	2,946	2,940	0	1	449	138	38	2,313	-	-
항공운수	38	-	-	-	-	-	-	-	4,269	4,268	0	0	10	0	0	0	4,254	3
가정부문	39	672	672	583	89	-	-	-	3,186	2,515	22	1,615	821	5	4	48	-	-
상업부문	40	-	-	-	-	-	-	-	2,134	862	38	351	331	24	10	102	4	0
공공부문	41	-	-	-	-	-	-	-	1,450	1,415	49	147	704	1	2	6	504	2

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



※ Based on the 6th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	Non- Energy Use	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	188	-	1,223	34,765	-	-	12,839	49,809	Domestic Production	
9,048	4,577	4,471	71,792	54,859	360	5,956	3,216	15	328	7,057	43,509	-	-	-	-	-	-	-	313,516	Imports
2,640	1,031	1,609	47,547	30,636	359	5,951	3,200	15	328	7,057	-	-	-	-	-	-	-	-	150,185	(Petroleum Products)
6,408	3,546	2,862	24,244	24,223	1	5	16	-	-	-	-	-	-	-	-	-	-	-	38,134	(Petroleum Imports)
-126	-78	-48	-14,614	-5,864	-152	-4,304	-2,430	-	-	-5	-1,858	-	-	-	-	-	-	-	-66,279	Exports
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8,742	Int'l Bunkers
64	70	-5	140	85	2	18	17	0	9	9	261	-	-	-	-	-	-	-	-144	Stock Change(+/-)
438	277	160	2,047	1,571	20	121	237	1	17	80	4,218	-	-	-	-	-	-	-	11,677	Former Stock
-373	-207	-166	-1,907	-1,486	-18	-103	-220	-1	-7	-72	-3,957	-	-	-	-	-	-	-	-11,821	Ending Stock
316	-491	807	-2,031	1,275	-34	-38	-207	-0	-229	-2,798	-355	-	-	-	-	-	-	-	-1,239	Statistical Difference
9,303	4,078	5,224	55,287	50,355	175	1,632	596	15	104	2,410	43,603	-	1,223	34,765	-	-	12,839	286,921	Primary Supply	
-88	-77	-12	-136	-	-	-	-	-	-	-136	-42,751	21,678	-1,223	-34,765	41,594	1,967	-5,244	-71,532	-71,532	Transformation
-1	-0	-1	-124	-	-	-	-	-	-	-124	-18,585	-304	-1,223	-34,765	45,416	1,339	-5,244	-65,934	-65,934	Electric Generation
-0	-0	-	-	-	-	-	-	-	-	-	-2,005	-307	-	-	-	689	-	-1,744	-1,744	District Heating
-87	-77	-11	-12	-	-	-	-	-	-	-12	-22,076	21,361	-	-	-	-	-	-815	-815	Gas Manufacturing
-	-	-	-	-	-	-	-	-	-	-	-85	928	-	-	-3,822	-61	-	-3,039	-3,039	Own Use & Loss
9,214	4,002	5,213	55,151	50,355	175	1,632	596	15	104	2,274	851	21,678	-	-	41,594	1,967	7,595	215,389	215,389	Final Consumption
2,994	2,366	628	54,983	50,355	150	1,632	596	15	57	2,178	851	7,644	-	-	22,844	-	5,743	133,416	133,416	Industry
5	5	0	7	-	0	-	-	-	-	7	-	3	-	-	1,259	-	-	2,729	2,729	Agri. Fishery
4	4	0	6	-	0	-	-	-	-	5	1	-	-	-	140	-	-	207	207	Mining
2,977	2,349	628	53,337	50,355	150	-	596	15	52	2,169	851	7,640	-	-	21,445	-	-	118,353	118,353	Manufacturing
19	19	0	14	-	-	-	-	-	-	14	-	687	-	-	902	-	-	1,702	1,702	Food Tobacco
3	3	0	5	-	1	-	-	-	-	4	-	357	-	-	998	-	-	1,447	1,447	Textile & Apparel
0	0	-	0	-	0	-	-	-	-	0	-	59	-	-	164	-	-	228	228	Wood & Wood Pro.
4	4	-	7	-	6	-	-	-	-	2	-	230	-	-	854	-	-	1,118	1,118	Pulp & Publications
2,215	1,710	505	52,383	50,355	103	-	-	9	-	1,916	-	1,622	-	-	4,787	-	-	61,778	61,778	Petro. Chemical
10	10	0	76	-	0	-	-	-	52	24	-	534	-	-	1,034	-	-	4,972	4,972	Non-Metallic
80	42	38	1	-	0	-	-	-	-	1	851	1,131	-	-	3,182	-	-	30,997	30,997	Iron & Steel
8	8	0	3	-	0	-	-	-	-	2	-	341	-	-	791	-	-	1,486	1,486	Non-ferrous
37	35	3	15	-	1	-	-	-	-	14	-	1,739	-	-	8,481	-	-	10,553	10,553	Fabricated Metal
540	466	74	113	-	20	-	-	-	-	93	-	942	-	-	253	-	-	3,259	3,259	Other Manufacturing
60	52	8	720	-	19	-	596	6	-	99	-	-	-	-	-	-	-	813	813	Other Energy
8	8	0	1,634	-	-	1,632	-	-	-	1	-	1	-	-	-	-	-	2,517	2,517	Construction
4,405	3	4,402	4	-	0	-	-	-	-	4	-	1,288	-	-	191	-	445	39,851	39,851	Transport
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	191	-	-	309	309	Rail
4,403	0	4,402	0	-	0	-	-	-	-	0	-	1,288	-	-	-	-	445	32,327	32,327	Land
2	2	-	4	-	0	-	-	-	-	4	-	-	-	-	-	-	-	2,946	2,946	Water
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	4,269	4,269	Air
658	629	29	13	-	7	-	-	-	-	6	-	9,192	-	-	5,486	1,758	243	20,538	20,538	Residential
1,136	983	153	136	-	18	-	-	-	47	71	-	3,469	-	-	10,533	173	174	16,483	16,483	Commercial
21	20	0	15	-	0	-	-	-	-	15	-	85	-	-	2,540	36	990	5,101	5,101	Public

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제6차 에너지알량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄				유연탄			에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G
1,000 toe																		
국내생산	1	777	777	777	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	81,311	5,560	-	5,560	75,751	23,121	52,630	196,984	111,381	19,165	2,730	48,519	494	40	18,126	22,306	-
(석유생산)	3	-	-	-	-	-	-	-	156,061	103,706	18,993	2,728	48,490	494	40	10,655	22,306	-
(석유수입)	4	-	-	-	-	-	-	-	40,923	7,675	172	2	28	-	-	7,471	-	1
수출	5	-	-	-	-	-	-	-	-67,840	-52,302	-9,432	-289	-25,072	-72	-	-1,979	-15,445	-14
국제병커링	6	-	-	-	-	-	-	-	-9,566	-9,566	-	-	-753	-6	-	-7,085	-1,722	-
재고증감	7	-158	-158	-161	2	-	-	406	401	-73	1	358	-6	0	283	-162	0	
연초재고	8	818	818	779	40	-	-	7,241	4,956	631	311	1,591	50	4	1,888	479	2	
연말재고	9	-977	-977	-940	-37	-	-	-6,836	-4,555	-705	-310	-1,233	-56	-3	-1,605	-641	-2	
통계오차	10	-430	-491	2	-493	61	301	-240	-2,379	-1,452	102	221	364	-168	88	-2,230	153	18
1차에너지공급	11	81,499	5,687	618	5,070	75,812	23,422	52,390	117,605	48,463	9,762	2,664	23,415	242	129	7,115	5,130	5
에너지전환	12	-49,158	-1,257	-108	-1,149	-47,901	-47,901	-3,341	-3,091	-0	-68	-27	-0	-	-2,996	-	-	
발전	13	-49,158	-1,257	-108	-1,149	-47,901	-47,901	-3,026	-2,895	-0	-68	-27	-	-	-2,800	-	-	
지역난방	14	-	-	-	-	-	-	-	-198	-196	-	-	-0	-0	-	-196	-	-
가스제조	15	-	-	-	-	-	-	-	-118	-0	-	-	-0	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	32,342	4,431	510	3,921	27,911	23,422	4,489	114,264	45,372	9,762	2,596	23,388	242	129	4,119	5,130	5
산업부문	18	31,770	3,860	-	3,860	27,911	23,422	4,489	66,820	4,158	167	151	2,429	68	75	1,267	1	0
농림어업	19	-	-	-	-	-	-	-	1,392	1,369	107	98	1,103	13	30	18	-	-
광업	20	-	-	-	-	-	-	-	61	54	0	1	38	7	3	5	-	-
제조업	21	27,911	-	-	-	27,911	23,422	4,489	62,622	1,835	47	47	466	31	21	1,222	1	0
음식·담배	22	32	-	-	-	32	-	32	80	42	1	1	8	0	2	29	-	-
섬유·의복	23	-	-	-	-	-	-	-	83	75	0	2	4	0	1	67	-	-
목재·나무	24	-	-	-	-	-	-	-	5	5	0	0	2	0	0	3	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	42	28	0	1	2	0	1	24	-	-
석유·화학	26	236	-	-	-	236	-	236	59,510	506	20	12	42	1	7	424	-	-
비금속	27	2,828	-	-	-	2,828	-	2,828	582	506	0	2	137	1	2	363	-	-
1차금속	28	23,422	-	-	-	23,422	23,422	-	80	16	-	0	2	0	0	14	-	-
비철금속	29	341	-	-	-	341	-	341	32	17	-	-	3	0	0	13	-	-
조립금속	30	-	-	-	-	-	-	-	356	291	23	5	144	25	3	92	0	0
기타제조	31	1,053	-	-	-	1,053	-	1,053	1,064	326	3	21	117	2	4	179	1	-
기타에너지	32	-	-	-	-	-	-	-	788	24	0	4	6	0	0	14	0	-
건설업	33	-	-	-	-	-	-	-	2,745	900	12	6	822	18	21	21	-	-
수송부문	34	-	-	-	-	-	-	-	40,328	36,117	9,511	3	19,028	160	37	2,728	4,648	3
철도운수	35	-	-	-	-	-	-	-	104	104	-	-	104	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	32,213	28,006	9,504	2	18,487	2	0	11	-	-
수상운수	37	-	-	-	-	-	-	-	3,351	3,349	7	1	430	157	37	2,716	-	-
항공운수	38	-	-	-	-	-	-	-	4,659	4,658	0	0	7	0	0	0	4,648	3
가정부문	39	571	571	510	61	-	-	-	3,632	2,882	12	1,917	903	4	5	41	-	-
상업부문	40	-	-	-	-	-	-	-	2,052	818	33	365	315	8	11	79	7	0
공공부문	41	-	-	-	-	-	-	-	1,432	1,396	40	160	713	1	0	4	476	2

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 6th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품											
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products										
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	154	-	1,400	34,181	-	-	13,575	50,087	Domestic Production	
11,122	6,577	4,544	74,482	56,634	393	6,485	3,107	17	339	7,505	43,623	-	-	-	-	-	-	321,918	Imports	
2,706	1,084	1,622	49,649	31,847	392	6,485	3,104	17	339	7,465	-	-	-	-	-	-	-	156,061	(Petroleum Products)	
8,416	5,493	2,923	24,832	24,788	1	-	4	-	-	40	-	-	-	-	-	-	-	40,923	(Petroleum Imports)	
-187	-141	-45	-15,351	-6,100	-148	-4,559	-2,300	-	-	-2,244	-	-	-	-	-	-	-	-67,840	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-9,566	Int'l Bunkers
45	-5	50	-41	-23	-4	2	-30	0	-1	14	1,747	-	-	-	-	-	-	1,994	Stock Change(+/-)	
373	207	166	1,912	1,486	24	103	220	1	7	70	3,957	-	-	-	-	-	-	12,017	Former Stock	
-328	-212	-116	-1,953	-1,509	-28	-101	-250	-1	-8	-56	-2,210	-	-	-	-	-	-	-10,023	Ending Stock	
186	-536	721	-1,113	2,207	-35	-93	-172	0	-272	-2,746	-6	-	-	-	-	-	-	-2,815	Statistical Difference	
11,166	5,896	5,270	57,977	52,719	206	1,835	604	17	66	2,530	45,518	-	1,400	34,181	-	-	13,575	293,778	Primary Supply	
-107	-97	-10	-143	-	-	-	-	-	-	-143	-44,474	22,186	-1,400	-34,181	42,745	2,183	-6,402	-71,842	Transformation	
-1	-0	-1	-130	-	-	-	-	-	-	-130	-19,680	-292	-1,400	-34,181	46,478	1,367	-6,402	-66,294	Electric Generation	
-0	-0	-	-1	-	-	-	-	-	-	-1	-2,029	-263	-	-	-	830	-	-1,660	District Heating	
-106	-97	-10	-12	-	-	-	-	-	-	-12	-22,669	22,706	-	-	-	-	-	-81	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-96	36	-	-	-3,733	-14	-	-3,806	Own Use & Loss	
11,059	5,799	5,260	57,833	52,719	206	1,835	604	17	66	2,386	1,044	22,186	-	-	42,745	2,183	7,173	221,936	Final Consumption	
4,964	4,050	914	57,698	52,719	177	1,835	604	17	43	2,303	1,044	7,537	-	-	23,218	-	5,309	135,698	Industry	
6	6	0	16	-	0	-	-	-	-	16	-	3	-	-	1,324	-	-	2,719	Agri. Fishery	
5	5	0	2	-	0	-	-	-	2	1	-	-	-	-	151	-	-	212	Mining	
4,944	4,031	913	55,844	52,719	177	-	604	17	41	2,286	1,044	7,532	-	-	21,743	-	-	120,853	Manufacturing	
24	22	3	14	-	-	-	-	-	-	14	-	711	-	-	946	-	-	1,769	Food Tobacco	
4	4	0	5	-	1	-	-	-	-	4	-	323	-	-	983	-	-	1,389	Textile & Apparel	
0	0	-	0	-	0	-	-	-	-	0	-	29	-	-	165	-	-	199	Wood & Wood Pro.	
5	5	-	10	-	7	-	-	-	-	3	-	257	-	-	861	-	-	1,161	Pulp & Publications	
4,083	3,319	764	54,921	52,719	120	-	-	10	-	2,073	78	1,092	-	-	5,030	-	-	65,945	Petro. Chemical	
13	13	0	63	-	0	-	-	-	41	21	-	523	-	-	1,081	-	-	5,015	Non-Metallic	
64	34	30	0	-	0	-	-	-	-	0	966	1,191	-	-	3,024	-	-	28,683	Iron & Steel	
12	12	0	3	-	0	-	-	-	-	2	-	303	-	-	847	-	-	1,523	Non-ferrous	
53	51	2	12	-	1	-	-	-	-	11	-	1,697	-	-	8,541	-	-	10,594	Fabricated Metal	
633	523	110	105	-	25	-	-	0	-	80	-	1,405	-	-	266	-	-	3,787	Other Manufacturing	
53	48	4	711	-	22	-	604	7	-	78	-	-	-	-	-	-	-	788	Other Energy	
9	9	-	1,836	-	-	1,835	-	-	-	1	-	1	-	-	-	-	-	2,746	Construction	
4,209	3	4,206	1	-	0	-	-	-	-	1	-	1,270	-	-	231	-	443	42,271	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	231	-	-	335	Rail	
4,206	0	4,206	1	-	0	-	-	-	-	1	-	1,270	-	-	-	-	443	33,926	Land	
2	2	-	0	-	0	-	-	-	-	-	-	-	-	-	-	-	-	3,351	Water	
0	0	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4,659	Air	
734	709	26	16	-	8	-	-	-	-	7	-	9,647	-	-	5,691	1,895	231	21,667	Residential	
1,129	1,015	114	105	-	21	-	-	-	23	61	-	3,645	-	-	10,959	238	160	17,055	Commercial	
23	23	0	13	-	0	-	-	-	-	13	-	88	-	-	2,646	50	1,030	5,246	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제7차 에너지열량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄				유연탄			에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G
1,000 toe																		
국내생산	1	702	702	702	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	85,869	4,216	-	4,216	81,653	25,400	56,253	203,904	113,256	19,747	2,779	49,545	388	31	16,663	24,102	-
(석유생산)	3	-	-	-	-	-	-	-	165,559	106,728	19,607	2,774	49,512	388	31	10,314	24,102	-
(석유수입)	4	-	-	-	-	-	-	-	38,344	6,528	140	5	34	-	-	6,348	-	0
수출	5	-	-	-	-	-	-	-	-70,966	-55,588	-10,209	-729	-25,289	-54	-	-2,506	-16,781	-22
국제병커링	6	-	-	-	-	-	-	-	-9,028	-9,028	-	-	-812	-10	-	-6,437	-1,770	-
재고증감	7	-135	-135	-143	8	-	-	-	-269	-399	3	56	-123	-8	-1	-154	-171	-1
연초재고	8	1,026	1,026	988	38	-	-	-	6,849	4,567	707	309	1,236	56	3	1,613	640	2
연말재고	9	-1,161	-1,161	-1,131	-30	-	-	-	-7,118	-4,967	-705	-253	-1,359	-65	-5	-1,767	-811	-3
통계오차	10	-259	-259	29	-288	-0	-106	105	-3,816	-556	345	544	877	-84	82	-2,259	-89	28
1차에너지공급	11	86,177	4,524	588	3,936	81,653	25,294	56,358	119,824	47,684	9,886	2,650	24,199	233	111	5,308	5,292	5
에너지전환	12	-52,817	-538	-111	-427	-52,279	-	-52,279	-1,535	-1,320	-0	-122	-14	-0	-	-1,183	-	-
발전	13	-52,817	-538	-111	-427	-52,279	-	-52,279	-1,227	-1,132	-0	-122	-13	-	-	-997	-	-
지역난방	14	-	-	-	-	-	-	-	-187	-186	-	-	-0	-0	-	-186	-	-
가스제조	15	-	-	-	-	-	-	-	-120	-1	-	-	-1	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	33,360	3,986	477	3,509	29,374	25,294	4,079	118,289	46,364	9,886	2,528	24,185	233	111	4,125	5,292	5
산업부문	18	32,847	3,473	-	3,473	29,374	25,294	4,079	69,871	3,853	186	133	2,306	59	63	1,105	0	0
농림어업	19	-	-	-	-	-	-	-	1,298	1,284	108	95	1,029	9	29	14	-	-
광업	20	-	-	-	-	-	-	-	55	48	0	0	35	6	1	6	-	-
제조업	21	29,374	-	-	-	29,374	25,294	4,079	65,885	1,767	66	34	539	34	17	1,076	0	0
음식·담배	22	23	-	-	-	23	-	23	88	52	4	1	18	1	1	27	-	-
섬유·의복	23	-	-	-	-	-	-	-	93	64	0	3	4	0	1	56	-	-
목재·나무	24	-	-	-	-	-	-	-	4	4	0	0	2	-	0	2	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	44	29	0	0	2	0	1	26	-	-
석유·화학	26	203	-	-	-	203	-	203	62,386	424	23	5	35	3	5	353	-	-
비금속	27	2,472	-	-	-	2,472	-	2,472	512	476	0	1	144	2	3	326	-	-
1차금속	28	25,294	-	-	-	25,294	25,294	-	90	12	0	0	1	0	0	10	-	-
비철금속	29	359	-	-	-	359	-	359	34	17	0	-	3	0	0	14	-	-
조립금속	30	-	-	-	-	-	-	-	337	279	21	4	138	24	3	91	0	0
기타제조	31	1,023	-	-	-	1,023	-	1,023	1,181	320	3	19	141	4	3	150	0	-
기타에너지	32	-	-	-	-	-	-	-	1,117	90	16	1	52	0	0	21	-	-
건설업	33	-	-	-	-	-	-	-	2,633	755	12	4	703	10	16	9	-	-
수송부문	34	-	-	-	-	-	-	-	41,255	37,320	9,625	0	19,833	145	33	2,882	4,798	3
철도운수	35	-	-	-	-	-	-	-	101	101	-	-	101	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	32,802	28,874	9,617	0	19,251	1	0	4	-	-
수상운수	37	-	-	-	-	-	-	-	3,546	3,540	8	0	477	144	33	2,878	-	-
항공운수	38	-	-	-	-	-	-	-	4,806	4,806	0	-	4	-	-	-	4,798	3
가정부문	39	513	513	477	35	-	-	-	3,648	2,947	10	1,903	984	4	4	42	-	-
상업부문	40	-	-	-	-	-	-	-	2,045	813	24	341	316	22	10	90	9	0
공공부문	41	-	-	-	-	-	-	-	1,470	1,432	40	150	746	3	1	6	485	2

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 7th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	Non- Energy Use	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	341	-	1,490	31,615	-	-	15,848	49,996	Domestic Production	
10,627	6,564	4,063	80,021	62,452	504	6,627	3,336	19	369	6,714	49,023	-	-	-	-	-	-	338,796	Imports	
3,294	1,200	2,094	55,538	37,982	504	6,627	3,336	19	369	6,701	-	-	-	-	-	-	-	165,559	(Petroleum Products)	
7,333	5,364	1,969	24,484	24,470	1	-	-	-	-	13	-	-	-	-	-	-	-	38,344	(Petroleum Imports)	
-240	-188	-53	-15,138	-5,417	-219	-4,744	-2,564	-	-	-2,195	-	-	-	-	-	-	-	-70,966	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-9,028	Int'l Bunkers
-76	-20	-56	206	258	-4	-24	-31	-1	-0	8	-764	-	-	-	-	-	-	-1,169	Stock Change(+/-)	
327	212	116	1,954	1,509	27	101	252	1	8	56	2,250	-	-	-	-	-	-	10,124	Former Stock	
-403	-231	-172	-1,748	-1,251	-32	-125	-282	-2	-9	-48	-3,014	-	-	-	-	-	-	-11,293	Ending Stock	
419	-433	852	-3,679	-1,110	-64	0	1	0	-345	-2,160	-1,064	-	-	-	-	-	-	-5,139	Statistical Difference	
10,729	5,924	4,806	61,411	56,183	217	1,859	743	18	23	2,369	47,536	-	1,490	31,615	-	-	15,848	302,490	Primary Supply	
-150	-138	-12	-65	-	-	-	-	-	-	-65	-46,167	23,258	-1,490	-31,615	43,666	2,441	-7,209	-71,467	Transformation	
-40	-39	-1	-55	-	-	-	-	-	-	-55	-19,791	-335	-1,490	-31,615	47,604	1,494	-7,209	-65,388	Electric Generation	
-0	-0	-	-1	-	-	-	-	-	-	-1	-2,200	-409	-	-	-	953	-	-1,844	District Heating	
-110	-99	-11	-9	-	-	-	-	-	-	-9	-24,017	24,003	-	-	-	-	-	-134	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-159	-0	-	-	-3,937	-5	-	-4,102	Own Use & Loss	
10,579	5,785	4,794	61,346	56,183	217	1,859	743	18	23	2,304	1,370	23,258	-	-	43,666	2,441	8,638	231,023	Final Consumption	
4,794	4,117	677	61,225	56,183	186	1,859	743	18	13	2,224	1,370	8,010	-	-	23,794	-	6,627	142,519	Industry	
5	5	0	9	0	0	-	-	-	-	9	-	3	-	-	1,374	-	-	2,676	Agri. Fishery	
5	5	0	2	0	0	-	-	-	1	1	-	-	-	-	150	-	-	205	Mining	
4,766	4,089	677	59,352	56,183	185	-	743	18	11	2,212	1,370	8,006	-	-	22,269	-	-	126,904	Manufacturing	
27	25	3	9	-	-	-	-	-	-	9	-	709	-	-	970	-	-	1,790	Food Tobacco	
25	25	0	4	-	1	-	-	-	-	3	-	286	-	-	968	-	-	1,347	Textile & Apparel	
0	0	-	0	-	0	-	-	-	-	0	-	29	-	-	166	-	-	199	Wood & Wood Pro.	
5	5	-	10	-	7	-	-	-	-	3	-	252	-	-	841	-	-	1,138	Pulp & Publications	
3,676	3,158	518	58,287	56,183	127	-	-	11	-	1,966	351	1,080	-	-	5,200	-	-	69,220	Petro. Chemical	
18	18	0	18	-	0	-	-	-	11	7	-	534	-	-	1,085	-	-	4,602	Non-Metallic	
77	44	33	1	-	0	-	-	-	-	1	1,019	1,238	-	-	3,055	-	-	30,696	Iron & Steel	
15	15	0	1	-	0	-	-	-	-	1	-	278	-	-	843	-	-	1,513	Non-ferrous	
50	48	3	7	-	1	-	-	-	-	6	-	1,655	-	-	8,799	-	-	10,791	Fabricated Metal	
712	596	116	149	-	26	-	-	1	-	123	-	1,946	-	-	342	-	-	4,490	Other Manufacturing	
161	156	4	866	-	23	-	743	6	-	95	-	-	-	-	-	-	-	1,117	Other Energy	
18	18	-	1,861	-	-	1,859	-	-	-	2	-	1	-	-	-	-	-	2,634	Construction	
3,930	2	3,928	5	0	0	-	-	-	-	5	-	1,253	-	-	246	-	428	43,183	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	242	-	-	343	Rail	
3,928	0	3,928	0	0	0	-	-	-	-	0	-	1,253	-	-	4	-	428	34,487	Land	
1	1	-	5	0	0	-	-	-	-	5	-	-	-	-	-	-	-	3,546	Water	
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	4,806	Air	
688	666	22	13	-	9	-	-	-	-	5	-	10,238	-	-	5,720	2,105	254	22,479	Residential	
1,145	978	167	88	-	22	-	-	-	10	55	-	3,680	-	-	11,212	280	163	17,381	Commercial	
23	23	0	15	-	0	-	-	-	-	14	-	77	-	-	2,694	55	1,166	5,461	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

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※ 제7차 에너지열량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	석탄							석유											
	무연탄				유연탄			에너지유											
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G	
1,000 toe																			
국내생산	1	568	568	568	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	86,393	4,937	-	4,937	81,456	23,870	57,586	210,647	116,654	20,781	2,946	51,541	300	38	17,356	23,692	-	-
(석유생산)	3	-	-	-	-	-	-	-	169,009	109,802	20,760	2,945	51,507	300	38	10,560	23,692	-	-
(석유수입)	4	-	-	-	-	-	-	-	41,638	6,852	22	0	34	-	-	6,795	-	-	0
수출	5	-	-	-	-	-	-	-	-74,066	-59,326	-10,913	-910	-27,379	-26	-	-4,097	-15,980	-	-20
국제병커링	6	-	-	-	-	-	-	-	-8,835	-8,835	-	-	-797	-9	-	-6,160	-1,870	-	-
재고증감	7	-74	-74	-57	-17	-	-	-	-1,396	-650	-187	-65	-242	1	2	-48	-111	-	-1
연초재고	8	1,161	1,161	1,131	30	-	-	-	7,118	4,967	705	253	1,359	65	5	1,767	811	-	3
연말재고	9	-1,235	-1,235	-1,188	-47	-	-	-	-8,514	-5,617	-891	-318	-1,601	-63	-3	-1,814	-922	-	-4
통계오차	10	-180	-372	9	-381	192	259	-67	-7,829	-923	212	661	433	-49	57	-2,052	-207	-	23
1차에너지공급	11	86,707	5,059	520	4,539	81,648	24,129	57,519	118,521	46,920	9,894	2,631	23,556	217	97	5,000	5,523	-	2
에너지전환	12	-54,227	-494	-109	-385	-53,732	-	-53,732	-1,691	-1,423	-0	-134	-47	-0	-	-1,242	-	-	-
발전	13	-54,227	-494	-109	-385	-53,732	-	-53,732	-1,319	-1,251	-0	-134	-47	-	-	-1,069	-	-	-
지역난방	14	-	-	-	-	-	-	-	-174	-173	-	-	-0	-0	-	-173	-	-	-
가스제조	15	-	-	-	-	-	-	-	-198	-0	-0	-	-0	-	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	32,480	4,565	411	4,154	27,915	24,129	3,786	116,831	45,496	9,894	2,497	23,509	217	97	3,758	5,523	-	2
산업부문	18	32,048	4,133	-	4,133	27,915	24,129	3,786	69,294	3,601	172	146	2,163	49	53	1,018	0	-	0
농림어업	19	-	-	-	-	-	-	-	1,235	1,228	113	108	960	9	26	12	-	-	-
광업	20	-	-	-	-	-	-	-	55	49	0	1	39	4	1	3	-	-	-
제조업	21	27,915	-	-	-	27,915	24,129	3,786	65,540	1,587	48	34	468	26	15	996	0	-	0
음식·담배	22	-	-	-	-	-	-	-	96	62	3	1	28	0	1	29	-	-	-
섬유·의복	23	-	-	-	-	-	-	-	63	46	0	2	4	1	1	38	-	-	-
목재·나무	24	-	-	-	-	-	-	-	4	4	0	0	1	-	0	2	-	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	44	29	0	0	3	-	1	25	-	-	-
석유·화학	26	219	-	-	-	219	-	219	62,288	401	21	5	28	1	2	343	-	-	-
비금속	27	2,196	-	-	-	2,196	-	2,196	534	473	0	2	138	2	6	326	-	-	-
1차금속	28	24,129	-	-	-	24,129	24,129	-	68	12	-	0	1	0	0	10	-	-	-
비철금속	29	352	-	-	-	352	-	352	38	25	-	0	3	0	0	21	-	-	-
조립금속	30	-	-	-	-	-	-	-	284	233	20	3	118	20	1	70	0	-	0
기타제조	31	1,020	-	-	-	1,020	-	1,020	1,183	278	4	19	138	2	2	114	0	-	-
기타에너지	32	-	-	-	-	-	-	-	939	24	0	2	5	0	0	17	-	-	-
건설업	33	-	-	-	-	-	-	-	2,464	737	10	3	696	10	11	7	-	-	-
수송부문	34	-	-	-	-	-	-	-	40,782	37,115	9,649	1	19,645	142	32	2,633	5,013	-	1
철도운수	35	-	-	-	-	-	-	-	100	100	-	-	100	-	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	32,473	28,810	9,641	0	19,164	1	0	4	-	-	-
수상운수	37	-	-	-	-	-	-	-	3,194	3,189	8	0	380	141	31	2,629	-	-	-
항공운수	38	-	-	-	-	-	-	-	5,015	5,015	0	-	1	-	-	-	5,013	-	1
가정부문	39	432	432	411	21	-	-	-	3,366	2,658	11	1,899	698	5	4	41	-	-	-
상업부문	40	-	-	-	-	-	-	-	1,959	733	21	306	313	18	9	61	6	-	0
공공부문	41	-	-	-	-	-	-	-	1,429	1,389	41	145	689	3	0	5	505	-	1

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 7th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품											
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	305	-	1,549	28,437	-	-	17,119	47,977	Domestic Production	
11,473	7,072	4,401	82,520	65,301	456	5,748	3,561	15	389	7,051	57,484	-	-	-	-	-	-	354,524	Imports	
3,533	1,280	2,253	55,674	38,480	455	5,737	3,559	15	389	7,039	-	-	-	-	-	-	-	169,009	(Petroleum Products)	
7,940	5,791	2,148	26,847	26,821	1	10	2	-	-	12	-	-	-	-	-	-	-	41,638	(Petroleum Imports)	
-493	-379	-113	-14,248	-5,340	-176	-3,836	-2,834	-	-	-2,063	-	-	-	-	-	-	-	-74,066	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8,835	Int'l Bunkers
-89	-79	-9	-657	-599	3	-10	-43	0	0	-7	-2,575	-	-	-	-	-	-	-4,044	Stock Change(+/-)	
403	231	172	1,748	1,251	32	125	282	2	9	48	3,015	-	-	-	-	-	-	11,294	Former Stock	
-492	-311	-181	-2,405	-1,850	-29	-135	-325	-2	-9	-55	-5,591	-	-	-	-	-	-	-15,339	Ending Stock	
269	-448	717	-7,174	-4,061	-82	-199	86	0	-340	-2,580	10	-	-	-	-	-	-	-7,998	Statistical Difference	
11,160	6,165	4,995	60,442	55,301	201	1,703	771	16	48	2,402	55,224	-	1,549	28,437	-	-	17,119	307,557	Primary Supply	
-215	-206	-9	-52	-	-	-	-	-	-	-52	-53,187	24,979	-1,549	-28,437	45,249	2,682	-8,009	-74,189	Transformation	
-26	-25	-1	-42	-	-	-	-	-	-	-42	-24,170	-394	-1,549	-28,437	49,076	1,709	-8,009	-67,319	Electric Generation	
-0	-0	-	-1	-	-	-	-	-	-	-1	-2,946	-611	-	-	-	938	-	-2,792	District Heating	
-189	-180	-9	-9	-	-	-	-	-	-	-9	-25,876	25,907	-	-	-	-	-	-167	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-195	76	-	-	-3,827	35	-	-3,911	Own Use & Loss	
10,945	5,960	4,985	60,389	55,301	201	1,703	771	16	48	2,349	2,038	24,979	-	-	45,249	2,682	9,110	233,368	Final Consumption	
5,413	4,252	1,161	60,280	55,301	172	1,703	771	16	48	2,269	2,038	9,028	-	-	24,399	-	6,691	143,498	Industry	
5	5	0	2	0	0	-	-	-	-	2	-	4	-	-	1,473	-	-	2,712	Agri. Fishery	
5	5	0	0	0	0	-	-	-	-	0	-	-	-	-	127	-	-	182	Mining	
5,380	4,220	1,161	58,573	55,301	172	-	771	16	48	2,265	2,038	9,024	-	-	22,799	-	-	127,316	Manufacturing	
26	24	2	8	-	-	-	-	-	-	8	-	796	-	-	1,028	-	-	1,920	Food Tobacco	
13	12	0	4	-	1	-	-	-	-	3	-	247	-	-	932	-	-	1,242	Textile & Apparel	
0	0	-	0	-	0	-	-	-	-	0	-	53	-	-	161	-	-	218	Wood & Wood Pro.	
5	5	-	10	-	7	-	-	-	-	3	-	260	-	-	829	-	-	1,133	Pulp & Publications	
4,476	3,462	1,014	57,411	55,301	118	-	-	10	-	1,983	1,046	3,180	-	-	5,359	-	-	72,091	Petro. Chemical	
16	16	0	45	-	0	-	-	-	44	1	-	549	-	-	1,045	-	-	4,323	Non-Metallic	
56	21	35	0	-	0	-	-	-	-	0	992	1,239	-	-	2,997	-	-	29,426	Iron & Steel	
12	12	0	1	-	0	-	-	-	-	1	-	397	-	-	862	-	-	1,649	Non-ferrous	
47	44	2	4	-	1	-	-	-	-	3	-	1,973	-	-	9,173	-	-	11,430	Fabricated Metal	
659	560	99	246	-	24	-	61	1	-	160	-	330	-	-	413	-	-	2,946	Other Manufacturing	
71	63	8	844	-	21	-	710	5	4	103	-	-	-	-	-	-	-	939	Other Energy	
22	22	-	1,705	-	-	1,703	-	-	-	2	-	0	-	-	-	-	-	2,464	Construction	
3,664	2	3,662	4	-	0	-	-	-	-	4	-	1,238	-	-	265	-	683	42,969	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	255	-	-	356	Rail	
3,663	0	3,662	0	-	0	-	-	-	-	0	-	1,238	-	-	10	-	683	34,404	Land	
1	1	-	4	-	0	-	-	-	-	4	-	-	-	-	-	-	-	3,194	Water	
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	5,015	Air	
697	676	20	12	-	8	-	-	-	-	4	-	10,901	-	-	6,079	2,289	393	23,460	Residential	
1,149	1,008	141	77	-	20	-	-	-	-	56	-	3,713	-	-	11,722	332	147	17,874	Commercial	
23	22	0	17	-	0	-	-	-	-	17	-	-	-	-	2,784	61	1,195	5,567	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

30. 2019년

※ 제7차 에너지열량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄				유연탄			에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	항공유	항공유	항공유
1,000 toe																		
국내생산	1	513	513	513	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	86,336	4,129	-	4,129	82,207	24,348	57,859	209,621	114,263	20,904	2,892	52,666	296	19	13,815	23,671	-
(석유생산)	3	-	-	-	-	-	-	-	167,481	109,220	20,888	2,887	52,646	296	19	8,814	23,671	-
(석유수입)	4	-	-	-	-	-	-	-	42,140	5,043	16	5	20	-	-	5,001	-	0
수출	5	-	-	-	-	-	-	-	-72,375	-58,156	-10,911	-582	-28,028	-33	-	-2,680	-15,896	-26
국제병커링	6	-	-	-	-	-	-	-	-8,253	-8,253	-	-	-967	-4	-	-5,249	-2,033	-
재고증감	7	-22	-22	-56	34	-	-	-	1,044	527	130	-34	97	22	-1	298	12	2
연초재고	8	1,235	1,235	1,188	47	-	-	-	8,514	5,617	891	318	1,601	63	3	1,814	922	4
연말재고	9	-1,256	-1,256	-1,244	-13	-	-	-	-7,470	-5,090	-762	-352	-1,504	-42	-4	-1,516	-910	-1
통계오차	10	-4,680	-194	20	-213	-4,486	18	-4,505	-12,723	-2,593	152	111	194	-41	48	-2,709	-375	27
1차에너지공급	11	82,147	4,426	477	3,950	77,720	24,366	53,354	117,314	45,789	10,275	2,388	23,962	239	66	3,475	5,380	4
에너지전환	12	-50,089	-576	-189	-387	-49,513	-	-49,513	-1,189	-942	-0	-149	-140	-0	-	-653	-	-
발전	13	-50,089	-576	-189	-387	-49,513	-	-49,513	-848	-788	-0	-149	-140	-	-	-499	-	-
지역난방	14	-	-	-	-	-	-	-	-226	-154	-	-	-0	-0	-	-154	-	-
가스제조	15	-	-	-	-	-	-	-	-115	-0	-0	-	-0	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	32,057	3,850	287	3,563	28,207	24,366	3,841	116,125	44,847	10,275	2,239	23,822	239	66	2,822	5,380	4
산업부문	18	31,752	3,544	-	3,544	28,207	24,366	3,841	69,216	3,497	168	182	2,271	77	38	761	0	0
농림어업	19	-	-	-	-	-	-	-	1,392	1,384	112	126	1,102	14	21	8	-	-
광업	20	-	-	-	-	-	-	-	55	49	0	1	42	4	0	2	-	-
제조업	21	28,207	-	-	-	28,207	24,366	3,841	65,336	1,338	46	47	450	42	8	746	0	0
음식·담배	22	-	-	-	-	-	-	-	70	37	1	3	14	1	0	19	-	-
섬유·의복	23	-	-	-	-	-	-	-	38	30	0	3	3	1	1	21	-	-
목재·나무	24	-	-	-	-	-	-	-	4	4	0	0	2	-	0	2	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	30	17	0	1	5	0	1	11	-	-
석유·화학	26	205	-	-	-	205	-	205	61,977	294	13	6	18	15	2	241	-	-
비금속	27	2,361	-	-	-	2,361	-	2,361	635	403	0	1	133	2	2	265	-	-
1차금속	28	24,366	-	-	-	24,366	24,366	-	76	9	-	0	3	0	0	6	-	-
비철금속	29	356	-	-	-	356	-	356	37	24	-	0	3	0	0	20	-	-
조립금속	30	-	-	-	-	-	-	-	292	240	27	5	124	21	0	63	0	0
기타제조	31	919	-	-	-	919	-	919	1,204	262	5	28	141	1	1	86	0	-
기타에너지	32	-	-	-	-	-	-	-	975	18	0	1	5	0	0	12	-	-
건설업	33	-	-	-	-	-	-	-	2,433	727	10	9	677	17	9	5	-	-
수송부문	34	-	-	-	-	-	-	-	40,809	37,195	10,050	1	20,068	142	18	1,988	4,927	1
철도운수	35	-	-	-	-	-	-	-	95	95	-	0	95	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	33,137	29,530	10,047	1	19,477	1	0	4	-	-
수상운수	37	-	-	-	-	-	-	-	2,647	2,641	3	0	495	141	18	1,985	-	-
항공운수	38	-	-	-	-	-	-	-	4,929	4,929	0	-	1	-	-	-	4,927	1
가정부문	39	306	306	287	18	-	-	-	3,051	2,328	6	1,694	581	6	3	37	-	-
상업부문	40	-	-	-	-	-	-	-	1,773	589	13	276	241	11	5	31	12	0
공공부문	41	-	-	-	-	-	-	-	1,276	1,237	37	86	660	4	2	5	441	2

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.



※ Based on the 7th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품											
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	259	-	1,331	31,079	-	-	17,688	50,869	Domestic Production	
12,802	8,490	4,312	82,556	66,099	471	4,988	3,123	20	604	7,252	53,217	-	-	-	-	-	-	349,174	Imports	
3,429	1,235	2,194	54,832	38,386	470	4,988	3,118	20	604	7,245	-	-	-	-	-	-	-	167,481	(Petroleum Products)	
9,373	7,255	2,118	27,725	27,713	0	-	5	-	-	6	-	-	-	-	-	-	-	42,140	(Petroleum Imports)	
-573	-499	-74	-13,647	-5,808	-157	-3,325	-2,416	-	-	-1,941	-	-	-	-	-	-	-	-72,375	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8,253	Int'l Bunkers
113	57	57	403	429	1	20	-21	1	-3	-23	480	-	-	-	-	-	-	1,503	Stock Change(+/-)	
492	311	181	2,405	1,850	29	135	325	2	9	55	5,672	-	-	-	-	-	-	15,421	Former Stock	
-379	-254	-125	-2,001	-1,421	-28	-115	-346	-1	-12	-78	-5,192	-	-	-	-	-	-	-13,918	Ending Stock	
43	-503	546	-10,173	-6,957	-100	1	37	0	-370	-2,785	-423	-	-	-	-	-	-	-17,826	Statistical Difference	
12,386	7,545	4,840	59,140	53,763	215	1,684	723	21	231	2,503	53,534	-	1,331	31,079	-	-	17,688	303,092	Primary Supply	
-198	-188	-9	-49	-	-	-	-	-	-	-49	-50,625	23,943	-1,331	-31,079	44,763	2,647	-8,778	-71,738	Transformation	
-21	-21	-1	-38	-	-	-	-	-	-	-38	-23,436	-330	-1,331	-31,079	48,421	1,711	-8,778	-65,757	Electric Generation	
-71	-71	-	-1	-	-	-	-	-	-	-1	-2,484	-576	-	-	-	936	-	-2,350	District Heating	
-105	-97	-9	-10	-	-	-	-	-	-	-10	-24,582	24,613	-	-	-	-	-	-84	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-123	235	-	-	-3,659	-1	-	-3,548	Own Use & Loss	
12,188	7,357	4,831	59,091	53,763	215	1,684	723	21	231	2,453	2,909	23,943	-	-	44,763	2,647	8,910	231,353	Final Consumption	
6,733	5,626	1,107	58,986	53,763	184	1,684	723	21	231	2,380	2,909	8,540	-	-	24,060	-	6,426	142,903	Industry	
6	6	0	2	0	0	-	-	-	-	2	-	4	-	-	1,488	-	-	2,885	Agri. Fishery	
5	5	0	1	0	0	-	-	-	-	1	-	-	-	-	128	-	-	184	Mining	
6,701	5,594	1,107	57,297	53,763	184	-	723	21	231	2,375	2,909	8,535	-	-	22,444	-	-	127,431	Manufacturing	
25	24	2	8	-	-	-	-	-	-	8	-	807	-	-	1,052	-	-	1,929	Food Tobacco	
4	4	0	4	-	1	-	-	-	-	3	-	265	-	-	854	-	-	1,158	Textile & Apparel	
0	0	-	0	-	0	-	-	-	-	0	-	27	-	-	149	-	-	180	Wood & Wood Pro.	
5	5	-	7	-	7	-	-	-	-	0	-	298	-	-	810	-	-	1,138	Pulp & Publications	
5,679	4,737	942	56,003	53,763	126	-	-	15	-	2,100	1,815	2,642	-	-	5,364	-	-	72,003	Petro. Chemical	
16	16	0	215	-	0	-	-	-	215	0	-	578	-	-	1,008	-	-	4,582	Non-Metallic	
67	48	19	0	-	0	-	-	-	-	0	1,093	1,232	-	-	2,760	-	-	29,529	Iron & Steel	
12	12	0	1	-	0	-	-	-	-	1	-	378	-	-	852	-	-	1,623	Non-ferrous	
48	46	2	3	-	1	-	-	-	-	2	-	1,947	-	-	9,176	-	-	11,414	Fabricated Metal	
748	617	131	194	-	25	-	-	1	-	168	-	361	-	-	418	-	-	2,901	Other Manufacturing	
96	85	11	861	-	23	-	723	5	16	94	-	-	-	-	-	-	-	975	Other Energy	
20	20	-	1,686	-	-	1,684	-	-	-	2	-	0	-	-	-	-	-	2,433	Construction	
3,608	2	3,607	6	-	0	-	-	-	-	6	-	1,216	-	-	271	-	700	42,996	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	250	-	-	346	Rail	
3,607	0	3,607	0	-	0	-	-	-	-	0	-	1,216	-	-	21	-	700	35,074	Land	
1	1	-	5	-	0	-	-	-	-	5	-	-	-	-	-	-	-	2,647	Water	
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	4,929	Air	
711	691	20	12	-	9	-	-	-	-	3	-	10,479	-	-	6,059	2,224	447	22,567	Residential	
1,112	1,015	97	72	-	22	-	-	-	-	50	-	3,630	-	-	11,606	348	132	17,489	Commercial	
24	24	0	15	-	0	-	-	-	-	15	-	78	-	-	2,766	74	1,205	5,399	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.

31. 2020년

※ 제7차 에너지열량환산 기준 적용

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	석탄							석유										
	무연탄				유연탄			에너지유										
	Total of Coal	Anthracite	Domestic	Imported	Bituminous	Coking	Steam Coal	Total of Petroleum	Energy Use	휘발유	등유	경유	경질중유	중유	중질중유	항공유	항공유	항공유
									Gasoline	Kerosene	Diesel oil	B-A	B-B	B-C	JA-1	JP-4	AVI-G	
1,000 toe																		
국내생산	1	482	482	482	-	-	-	-	-	-	-	-	-	-	-	-	-	-
수입	2	75,687	3,784	-	3,784	71,903	23,469	48,434	197,463	106,330	17,761	6,097	50,270	245	13	16,334	15,609	-
(석유생산)	3	-	-	-	-	-	-	-	156,132	101,625	17,761	6,085	50,268	245	13	11,643	15,609	-
(석유수입)	4	-	-	-	-	-	-	-	41,331	4,706	0	11	3	-	-	4,691	-	1
수출	5	-	-	-	-	-	-	-	-65,208	-52,259	-9,206	-892	-28,726	-29	-	-2,003	-11,386	-16
국제병커링	6	-	-	-	-	-	-	-	-9,034	-9,034	-	-	-964	-1	-	-6,507	-1,562	-
재고증감	7	-56	-56	-66	10	-	-	296	1,118	153	133	425	20	-0	166	223	-0	
연초재고	8	1,256	1,256	1,244	13	-	-	7,470	5,090	762	352	1,504	42	4	1,516	910	1	
연말재고	9	-1,312	-1,312	-1,309	-2	-	-	-7,174	-3,971	-609	-219	-1,078	-22	-4	-1,351	-687	-2	
통계오차	10	-3,873	-273	3	-276	-3,600	88	-3,688	-13,276	-4,163	1,346	-2,972	1,809	-19	19	-4,489	126	18
1차에너지공급	11	72,241	3,938	419	3,518	68,303	23,556	44,747	110,240	41,993	10,053	2,365	22,814	216	32	3,501	3,010	2
에너지전환	12	-41,783	-478	-186	-292	-41,305	-	-41,305	-897	-658	-0	-109	-61	-	-	-489	-	-
발전	13	-41,783	-478	-186	-292	-41,305	-	-41,305	-567	-501	-0	-109	-56	-	-	-336	-	-
지역난방	14	-	-	-	-	-	-	-	-215	-153	-	-	-	-	-	-153	-	-
가스제조	15	-	-	-	-	-	-	-	-115	-4	-0	-	-4	-	-	-	-	-
자가소비 및 손실	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
최종에너지소비	17	30,457	3,459	233	3,226	26,998	23,556	3,442	109,344	41,334	10,053	2,257	22,753	216	32	3,012	3,010	2
산업부문	18	30,216	3,217	-	3,217	26,998	23,556	3,442	66,483	3,553	161	283	2,366	96	22	625	0	0
농림어업	19	-	-	-	-	-	-	-	1,550	1,540	117	188	1,199	17	12	8	-	-
광업	20	-	-	-	-	-	-	-	68	61	0	1	52	6	0	3	-	-
제조업	21	26,998	-	-	-	26,998	23,556	3,442	62,525	1,241	36	78	469	42	5	610	0	0
음식·담배	22	-	-	-	-	-	-	-	72	43	0	6	16	1	1	19	-	-
섬유·의복	23	-	-	-	-	-	-	-	28	21	0	6	4	1	1	9	-	-
목재·나무	24	-	-	-	-	-	-	-	7	6	0	1	4	0	0	1	-	-
펄프·인쇄	25	-	-	-	-	-	-	-	35	18	0	1	8	1	0	8	-	-
석유·화학	26	203	-	-	-	203	-	203	59,258	235	0	6	8	12	2	207	-	-
비금속	27	2,015	-	-	-	2,015	-	2,015	566	392	0	1	131	3	1	258	-	-
1차금속	28	23,556	-	-	-	23,556	23,556	-	70	6	-	0	5	0	0	1	-	-
비철금속	29	319	-	-	-	319	-	319	41	28	-	-	3	0	0	25	-	-
조립금속	30	-	-	-	-	-	-	-	300	249	31	8	134	23	0	54	0	0
기타제조	31	904	-	-	-	904	-	904	1,193	227	5	47	153	3	1	18	0	-
기타에너지	32	-	-	-	-	-	-	-	956	14	-	1	4	0	-	9	-	-
건설업	33	-	-	-	-	-	-	-	2,341	711	9	17	646	31	5	4	-	-
수송부문	34	-	-	-	-	-	-	-	37,376	34,230	9,857	1	19,359	105	7	2,348	2,553	1
철도운수	35	-	-	-	-	-	-	-	84	84	-	0	84	-	-	-	-	-
육상운수	36	-	-	-	-	-	-	-	31,624	28,485	9,857	1	18,625	0	0	2	-	-
수상운수	37	-	-	-	-	-	-	-	3,111	3,105	0	0	648	105	6	2,345	-	-
항공운수	38	-	-	-	-	-	-	-	2,557	2,556	0	0	2	-	0	-	2,553	1
가정부문	39	242	242	233	9	-	-	-	2,732	2,020	2	1,662	327	1	1	28	-	-
상업부문	40	-	-	-	-	-	-	-	1,621	438	7	285	120	6	2	8	11	0
공공부문	41	-	-	-	-	-	-	-	1,130	1,092	26	26	582	7	0	4	446	2

주: 상업부문의 무연탄(연탄)소비는 가정부문에 포함.

※ Based on the 7th Calorific Value

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37		
											액화 천연가스	도시 가스	수력	원자력	전력	열	신재생	합계		
액화석유 가스	비에너지										LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
	프로판	부탄	Non- Energy Use	나프타	용제	아스팔트	윤활기유	파라핀 왁스	석유 코크	기타 제품										
LPG	Propane	Butane	Non- Energy Use	Naphtha	Solvent	Asphalt	Lubricant	Paraffin -Wax	Petroleum Coke	Other Products	LNG	City Gas	Hydro	Nuclear	Electricity	Heat	Renewables	Total		
1,000 toe																				
-	-	-	-	-	-	-	-	-	-	-	185	-	1,523	34,119	-	-	18,983	55,292	Domestic Production	
13,015	8,948	4,068	78,117	61,609	668	4,155	3,422	23	556	7,686	52,217	-	-	-	-	-	-	325,367	Imports	
2,946	1,077	1,869	51,561	35,147	667	4,086	3,397	23	556	7,686	-	-	-	-	-	-	-	156,132	(Petroleum Products)	
10,069	7,871	2,198	26,556	26,461	1	69	25	-	-	-	-	-	-	-	-	-	-	41,331	(Petroleum Imports)	
-590	-567	-24	-12,359	-4,496	-251	-3,161	-2,645	-	-	-1,806	-	-	-	-	-	-	-	-65,208	Exports	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-9,034	Int'l Bunkers
-86	-61	-26	-736	-651	-9	-58	-20	0	4	-4	1,440	-	-	-	-	-	-	1,680	Stock Change(+/-)	
379	254	125	2,001	1,421	28	115	346	1	12	78	5,194	-	-	-	-	-	-	13,919	Former Stock	
-465	-315	-150	-2,737	-2,072	-37	-173	-365	-1	-8	-82	-3,754	-	-	-	-	-	-	-12,239	Ending Stock	
-88	-405	317	-9,024	-6,786	-139	670	-60	-3	-385	-2,322	1,128	-	-	-	-	-	-	-16,021	Statistical Difference	
12,251	7,915	4,336	55,997	49,676	268	1,606	697	20	176	3,554	54,970	-	1,523	34,119	-	-	18,983	292,076	Primary Supply	
-182	-174	-8	-56	-	-	-	-	-	-	-56	-51,369	23,100	-1,523	-34,119	43,797	2,770	-9,490	-69,513	Transformation	
-21	-21	-1	-44	-	-	-	-	-	-	-44	-24,307	-408	-1,523	-34,119	47,486	2,208	-9,490	-62,502	Electric Generation	
-60	-60	-	-1	-	-	-	-	-	-	-1	-2,322	-477	-	-	-	564	-	-2,449	District Heating	
-101	-93	-8	-10	-	-	-	-	-	-	-10	-23,831	23,863	-	-	-	-	-	-83	Gas Manufacturing	
-	-	-	-	-	-	-	-	-	-	-	-909	122	-	-	-3,689	-3	-	-4,479	Own Use & Loss	
12,069	7,741	4,328	55,941	49,676	268	1,606	697	20	176	3,498	3,602	23,100	-	-	43,797	2,770	9,493	222,563	Final Consumption	
7,102	6,015	1,087	55,828	49,676	230	1,606	697	20	176	3,424	3,602	7,813	-	-	23,108	-	6,743	137,964	Industry	
6	6	0	4	-	0	-	-	-	-	4	-	1	-	-	1,465	-	-	3,017	Agri. Fishery	
5	5	0	1	-	0	-	-	-	-	0	-	-	-	-	133	-	-	201	Mining	
7,069	5,982	1,087	54,214	49,676	229	-	697	20	176	3,417	3,602	7,812	-	-	21,509	-	-	122,445	Manufacturing	
22	21	1	6	-	-	-	-	-	-	6	-	847	-	-	1,077	-	-	1,996	Food Tobacco	
4	4	0	3	-	1	-	-	-	-	2	-	229	-	-	755	-	-	1,012	Textile & Apparel	
0	0	-	0	-	0	-	-	-	-	0	-	24	-	-	146	-	-	177	Wood & Wood Pro.	
5	5	-	11	-	9	-	-	-	-	2	-	304	-	-	790	-	-	1,129	Pulp & Publications	
6,043	5,126	918	52,979	49,676	157	-	-	13	-	3,133	2,335	2,244	-	-	5,113	-	-	69,154	Petro. Chemical	
15	15	0	158	-	0	-	-	-	157	1	-	531	-	-	957	-	-	4,069	Non-Metallic	
64	60	4	0	-	0	-	-	-	-	0	1,266	1,030	-	-	2,281	-	-	28,204	Iron & Steel	
12	12	0	1	-	0	-	-	-	-	1	-	475	-	-	851	-	-	1,686	Non-ferrous	
48	46	2	3	-	2	-	-	-	-	1	-	1,925	-	-	9,128	-	-	11,354	Fabricated Metal	
778	621	157	188	-	32	-	-	1	-	155	-	202	-	-	409	-	-	2,708	Other Manufacturing	
77	73	4	865	-	28	-	697	5	19	115	-	-	-	-	-	-	-	956	Other Energy	
21	21	-	1,609	-	-	1,606	-	-	-	2	-	0	-	-	-	-	-	2,341	Construction	
3,140	2	3,139	6	-	0	-	-	-	-	6	-	1,099	-	-	235	-	690	39,400	Transport	
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	235	-	-	320	Rail	
3,139	0	3,139	0	-	0	-	-	-	-	0	-	1,099	-	-	-	-	690	33,413	Land	
1	1	-	6	-	0	-	-	-	-	6	-	-	-	-	-	-	-	3,111	Water	
0	0	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	2,557	Air	
698	681	18	14	-	11	-	-	-	-	3	-	10,900	-	-	6,370	2,352	604	23,201	Residential	
1,104	1,020	84	79	-	28	-	-	-	-	51	-	3,219	-	-	11,392	352	163	16,747	Commercial	
24	24	0	14	-	0	-	-	-	-	14	-	70	-	-	2,692	66	1,292	5,251	Public	

Note: Domestic anthracite consumption for the commercial sector is included in the residential sector.





## 개정에너지밸런스(요약) 구조

ENERGY BALANCE 2020 (UNIT : 1,000 toe, Gross)	일차석탄	석탄제품	가스	원유 및 정제원료	석유제품	바이오 및 폐기물
국내생산	482.1	-	185.0	15.1	-	7,478.0
수입	74,673.1	202.3	52,216.8	145,093.1	41,319.2	-
수출	-0.2	-11.7	-	-79.7	-65,208.7	-
국제병커링	-	-	-	-	-13,740.9	-
재고변화	747.0	519.4	1,440.0	282.5	289.8	1.0
<b>일차에너지공급</b>	<b>75,902.0</b>	<b>710.0</b>	<b>53,841.9</b>	<b>145,311.0</b>	<b>-37,340.6</b>	<b>7,478.9</b>
제품이동	-	-	-	18,921.2	-13,460.6	-
통계오차	-3,221.0	-537.8	1,692.3	-171.7	144.1	-1.5
<b>일차에너지소비</b>	<b>72,681.0</b>	<b>172.2</b>	<b>55,534.1</b>	<b>164,060.5</b>	<b>-50,657.1</b>	<b>7,477.4</b>
<b>전환공정</b>	<b>-66,325.5</b>	<b>6,803.8</b>	<b>-28,804.2</b>	<b>-164,058.5</b>	<b>152,386.8</b>	<b>-3,068.9</b>
발전전용	-41,460.8	-4,788.2	-21,900.5	-	-847.1	-1,485.3
열병합	-2,482.3	-	-6,453.0	-	-1,912.3	-1,354.5
열전용	-	-	-172.3	-	-227.1	-229.0
화학반응열	-	-	-	-	-	-
코크스로	-16,286.9	14,816.2	-	-	-	-
고로	-5,666.7	-4,272.6	-	-	-	-
연탄제조	-241.8	371.9	-	-	-	-
석유정제	-	-	-	-179,358.7	165,232.1	-
석유화학	-	-	-	15,300.2	-9,836.6	-
가스제조	-	-	24.7	-	-22.3	-
석탄가스제조	-186.9	676.5	-	-	-	-
기타전환	-	-	-303.1	-	-	-
<b>에너지산업자재소비</b>	<b>-</b>	<b>-3,155.2</b>	<b>-2,508.4</b>	<b>-2.0</b>	<b>-7,330.2</b>	<b>-</b>
<b>손실</b>	<b>-</b>	<b>-</b>	<b>7.6</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>최종소비</b>	<b>6,355.5</b>	<b>3,820.8</b>	<b>24,229.1</b>	<b>-</b>	<b>94,399.6</b>	<b>4,408.5</b>
최종에너지소비	6,330.7	3,296.3	23,202.2	-	43,637.5	4,408.5
산업	6,330.7	2,968.8	7,922.2	-	5,525.0	2,595.5
수송	-	-	1,098.6	-	32,667.0	695.1
가정	-	224.5	10,893.6	-	2,097.3	126.6
상업	-	91.4	3,218.0	-	2,219.8	101.1
공공	-	11.6	69.9	-	1,128.6	890.1
최종비에너지소비	24.9	524.6	1,026.9	-	50,762.1	-
메모: 석유화학원료	-	524.6	-	-	45,743.0	-
전기생산 (GWh)	198,238.5	22,059.6	160,013.9	-	8,070.0	10,865.4
열생산 (TJ)	72,331.6	-	71,169.6	-	61,227.2	25,435.3

지열,태양 및 기타	원자력	수력	전기	열	총에너지	메모: 신재생
5,146.1	34,119.1	826.3	-	73.1	48,324.8	13,450.4
-	-	-	-	-	313,504.5	-
-	-	-	-	-	-65,300.3	-
-	-	-	-	-	-13,740.9	-
-	-	-	-	-	3,279.7	1.0
<b>5,146.1</b>	<b>34,119.1</b>	<b>826.3</b>	<b>-</b>	<b>73.1</b>	<b>286,067.7</b>	<b>13,451.3</b>
-	-	-	-	-	5,460.7	-
-	-	-	-	-	-2,095.6	749.3
<b>5,146.1</b>	<b>34,119.1</b>	<b>826.3</b>	<b>-</b>	<b>73.1</b>	<b>289,432.9</b>	<b>14,200.7</b>
<b>-4,878.7</b>	<b>-34,119.1</b>	<b>-826.3</b>	<b>50,732.0</b>	<b>6,839.8</b>	<b>-85,318.8</b>	<b>-9,524.8</b>
-4,878.7	-34,119.1	-826.3	46,241.8	-	-64,815.2	-9,198.5
-	-	-	4,475.7	6,396.6	-1,329.8	-1,354.5
-	-	-	-	482.0	-146.4	-229.0
-	-	-	14.6	-38.8	-24.3	-
-	-	-	-	-	-1,470.8	-
-	-	-	-	-	-9,939.3	-
-	-	-	-	-	130.1	-
-	-	-	-	-	-14,126.6	-
-	-	-	-	-	5,463.6	-
-	-	-	-	-	2.4	-
-	-	-	-	-	489.6	506.4
-	-	-	-	-	447.8	750.8
-	-	-	<b>-3,177.5</b>	<b>-173.4</b>	<b>-16,346.8</b>	-
-	-	-	<b>-1,974.4</b>	<b>-484.3</b>	<b>-2,451.0</b>	-
<b>267.4</b>	-	-	<b>45,580.1</b>	<b>6,255.2</b>	<b>185,316.2</b>	<b>4,675.9</b>
267.4	-	-	45,580.1	6,255.2	132,977.8	4,675.9
36.9	-	-	24,541.6	3,597.5	53,518.2	2,632.4
-	-	-	271.2	-	34,731.9	695.1
51.0	-	-	6,531.9	2,259.7	22,184.6	177.6
5.5	-	-	11,668.0	334.5	17,638.3	106.6
174.0	-	-	2,567.4	63.5	4,904.9	1,064.1
-	-	-	-	-	52,338.4	-
-	-	-	-	-	46,267.5	-
22,904.9	160,183.7	3,879.4	-	169.6	589,907.5	47,071.8
-	-	-	-	60,888.8	291,052.5	25,435.3

## 개정에너지밸런스 용어 설명

### 개정에너지밸런스 행 구조

에너지 상품의 흐름은 에너지 상품의 초기 출현에서 최종 소비로 사라지는 과정을 표현하며, 에너지 밸런스의 증축에 표시한다. 에너지 상품의 흐름은 공급, 전환 공정, 에너지 산업 자체소비, 최종 소비로 구분할 수 있다.

#### • 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 포함한다. 단, 국내생산 또는 수입한 에너지 상품을 국내에서 전환하여 제조 생산한 연료는 국내생산이 아니라 에너지 전환에 포함한다.

#### • 수입 (Imports)

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

#### • 수출 (Exports)

수출은 국내에서 전환되거나 생산된 에너지 상품인면서 해외에 수송된 에너지 상품을 의미한다. 에너지 상품의 해외 수송을 위한 수송 수단에서 사용한 연료는 국제 벙커링에 포함한다. 에너지 상품의 국내 총 공급을 구하기 위해서는 에너지 상품의 수출량을 삭감해야 한다. 이를 위해 에너지 상품의 수출은 음의 부호로 표시되며, 공급에서 차감한다.

#### • 국제해운벙커링 (International marine bunkers)

국가 사이를 운항 중인 선박에서 소비하는 석유는 화물의 일부가 아니라 연료로 사용되는 것으로, 국적에 상관없이 국제 해운 벙커링에 포함된다. 국제 항해를 하는 해군 선박에 공급되는 석유도 국제 해운 벙커링에 해당한다. 하지만 원양 어선의 연료로 사용되는 석유는 국제 해운 벙커링이 아니라 최종 소비의 어업에 포함된다.

#### • 국제항공벙커링 (International aviation bunkers)

국가 사이를 운항 중인 항공기에서 소비하는 석유는 항공기의 국적과 상관없이 국제 항공 벙커링에 포함된다.

#### • 재고변화 (Stocks changes)

재고변화는 기초 및 기말 재고 수준의 차이이다. 재고 감소는 공급의 증가 요인이므로 양의 부호로 표현하고, 재고 증가는 반대로 음의 부호로 표현한다. 즉, 재고 변동은 기초 재고에서 기말 재고를 뺀 수치이다.

### 일차에너지공급 (Total primary energy supply)

일차에너지공급은 국내 자연자원에서의 생산을 비롯하여 경제 외부로부터 공급된 에너지 상품 흐름의 합계를 말한다. 여기서 일차는 '초기' 공급의 개념으로 일차 에너지 상품과 이차 에너지 상품을 모두 포함한다. 에너지 상품은 국내생산, 수입, 수출, 국제해운벙커링, 국제항공벙커링, 재고증감 등의 '공급 원(sources of supply)'을 통해 한 국가에 공급되는데 이들의 합계가 바로 일차에너지공급이 된다.



- **제품이동 (Transfers between commodities)**

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

### 통계오차 (Statistical difference)

에너지 상품의 총 공급과 총 수요의 차이, 또는 제품 이동을 고려한 일차에너지공급과 일차에너지소비의 차이가 통계오차다.

### 일차에너지소비 (Total primary energy consumption)

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

### 전환과정 (Transformation processes)

전환과정이란 일차 에너지 상품 또는 이차 에너지 상품을 물리적 또는 화학적 방법으로 다른 이차 에너지 상품으로 바꾸는 과정을 말한다.

- **발전전용 (Electricity plants (transf.))**

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

- 발전전용\_사업 (Main activity producer electricity plants (transf.)): 전기 판매를 주 사업 목적으로 하는 사업체
- 발전전용\_자가 (Auto producer electricity plants (transf.)): 전기를 자체 소비 목적으로 생산하지만 일부 판매도 겸하는 사업체

- **열병합 (CHP plants (transf.))**

열병합발전은 단일 플랜트에서 전기와 열을 동시에 생산하는 방식을 말한다. 만약 발전소 내의 한 개 또는 그 이상의 발전기가 열병합 발전기인 경우 그 발전소는 열병합 발전소로 간주한다.

- 열병합\_사업 (Main activity producer CHP plants (transf.)): 전기와 열의 판매를 주 사업 목적으로 하는 사업체
- 발전전용\_자가 (Auto producer CHP plants (transf.)): 전기와 열을 자체 소비 목적으로 생산하지만 일부 판매도 겸하는 사업체

- **열전용 (Heat plants (transf.))**

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

- 열전용\_사업 (Main activity producer heat plants (transf.)): 열의 판매를 주 사업 목적으로 하는 사업체
- 발전전용\_자가 (Auto producer heat plants (transf.)): 열을 자체 소비 목적으로 생산하지만 일부 판매도 겸하는 사업체

- **화학반응열 (Chemical heat for electricity production (transf.))**  
 화학반응열은 연산을 이용한 산화아연 광석 처리 공정과 같이 연료 투입이 없이 화학 반응 과정에서 열이 발생하는 것을 말한다. 연료를 이용하는 과정에서 버려진 열을 수집하여 이용한 경우 일차 에너지 원으로 취급하지 않지만 화학반응열은 투입 에너지가 없기 때문에 일차 에너지원으로 취급한다. 화학반응열을 이용해서 생산한 전기는 이차 전기에 해당한다.
- **코크스로 (Coke ovens (transf.))**  
 철강회사의 코크스로에서 석탄을 가열하여 코크스를 제조하는 공정. 코크스 제조는 제강용 코크스 및 코크스로 가스를 얻기 위해 원료탄을 건류하고 분해하는 공정이다.  
 코크스용 원료탄은 강점결성 및 미점결성을 가지고 있는 석탄을 주로 이용하여 거의 전량 코크스로에서 건류, 분해되어 사용하며, 코크스로에서 건류, 분해되는 과정에서 코크스와 코크스로 가스로 전환된다.
- **고로 (Blast furnace (transf.))**  
 철강회사에서 코크스 및 기타 연료를 고로에 사용하는 공정. 고로 및 전로는 고로 상부에 철광석과 코크스를 집어넣고 하부에서 뜨거운 바람을 불어넣어 쇳물을 녹이는 고로 공법과 철광석과 석탄을 직접 사용해 쇳물을 생산하는 코렉스 및 파이넥스 공법이 있다.  
 고로에 직접 투입하는 원료탄은 코크스용 원료탄과 달리 점결성은 필요 없기 때문에 반드시 코크스용 유연탄으로 수입되지 않고 기타 유연탄 또는 무연탄 등이 원료탄에 혼합되어 사용된다.
- **연탄제조 (Patent fuel plants (transf.))**  
 여러 가지 석탄을 사용하여 고품연료(Patent fuel)를 제조하는 공정. 미분형태의 석탄을 사용하여 이용 가능한 성형탄으로 압축하는 공정으로, 코크스 제조 방법과 유사하다고 할 수 있다.
- **석유정제 (Oil refineries (transf.))**  
 원유를 정제하는 공정. 정제 공정에 투입되는 석유는 비에너지용 제품을 포함한 생산 제품과 정제 공정의 연료 사용의 재료가 된다.
- **석유화학 (Oil refinery (transf.))**  
 반제품 처리를 통해 석유제품을 제조하는 공정.
- **가스제조 (Gas manufacturing (transf.))**  
 가스제조는 일반 수요자에게 배관망을 통해 도시가스를 공급하는 사업을 위해 천연가스를 기화하고 열량을 조절하는 것 (도시가스 제조)을 말한다. 도시가스 제조에는 제조 원료로 천연가스 및 열량조절용 LPG가 투입된다. 간이 가스 사업의 경우 LPG 소매의 형태로 취급하여 가스제조에 포함하지 않는다.
- **석탄합성가스제조 (Coal-to-gas plants (transf.))**  
 석탄가스화복합발전용 석탄합성가스가 투입되어 전기가 생산되는 공정
- **기타전환 (Non-specified transformation (transf.))**  
 연료전지용 수소가 투입되어 전기가 생산되는 공정

## 에너지 산업 자체 소비(Energy industry own use)

에너지 산업 자체 소비는 연료의 추출 및 전환 또는 에너지 생산 플랜트에서 여러 가지 활동을 유지하는데 사용되는 에너지 상품을 의미함.

- 석탄광업 (Coal mining (energy))
- 원유 및 천연가스 채굴(Oil & gas extraction (energy))
- 발전 및 열 생산\_자체소비 (Electricity, CHP and heat plants (energy))
- 양수투입 (Used for pumped storage (energy))  
양수 발전량과 양수 투입량의 차이
- 코크스로\_자체소비 (Coke ovens (energy))
- 고로\_자체소비 (Blast furnace (energy))
- 연탄제조\_자체소비 (Patent fuel plants (energy))
- 석유정제\_자체소비 (Oil refinery (energy))
- 가스제조\_자체소비 (Gas manufacturing (energy))
- 석탄합성가스제조\_자체소비 (Coal-to gas plants (energy))
- 기타전환\_자체소비 (Non-specified energy industry (energy))

## 손실 (Losses)

밸런스의 손실은 에너지 부문과 구별되며, 에너지 상품을 생산지에서 소비지로 유통하는 과정에서 발생한 손실을 의미한다. 전기나 가스와 같이 유통망과 관련된 송배전 손실이 대표적인 사례이며, 고로가스 및 코크스로 가스를 배송하거나 파이프라인을 통해 석유제품을 유통시키는 경우에도 발생한다. 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 통계 오차에 포함되는 것으로 추정된다.

## 최종소비 (Total final consumption)

최종 소비 부분은 에너지 상품이 아닌 제품의 생산 또는 활동을 위해 에너지 상품이 연료 또는 비에너지의 목적으로 최종 소비되는 부분이다. 에너지 상품은 최종 소비 부분에서 모두 소비되는 것으로 간주되기 때문에 에너지 계정에서 사라진다.

- 최종에너지소비 (Final energy consumption)  
연료용 최종 소비

- 산업 (Industry)

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

산업부문의 하위 분류는 한국표준산업분류체계를 따른다.

- 농림업 (Agriculture/forestry)
- 어업 (Fishing): 원양어선을 포함한 모든 어선의 소비를 아우른다.
- 광업(석탄광업 제외) (Mining and 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)
- 건설업 (Construction)

- 수송 (Transport)

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

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

- 가정 (Residential)

- 상업 (Commercial)

- 공공 (Public services)

- 최종비에너지소비 (Final non-energy consumption)

최종비에서지소비는 석유화학 원료용 납사나 건설용 아스팔트 등 에너지 상품을 연료 이외의 용도로 사용한 것을 말한다.

- 비에너지\_산업 및 에너지 (Non-energy use in industry & energy)
- 비에너지\_수송 (Non-energy use in transport)
- 비에너지\_가정 (Non-energy use in residential)
- 비에너지\_상업 (Non-energy use in commercial)
- 비에너지\_공공 (Non-energy use in public service)
- 메모: 석유화학원료 (of which in petrochemical feedstock)

## 전기생산 (Electricity output)

연료별, 생산방식별(발전전용, 열병합), 생산자 유형별(사업, 자가) 전기 생산량을 나타낸다.

## 열 생산 (Heat output)

연료별, 생산방식별(열병합, 열전용), 생산자 유형별(사업, 자가) 유통된 열의 생산량을 나타낸다.

## 개정(확장)에너지밸런스 열 구조

### 석탄 및 석탄제품

- **국내무연탄 (Domestic-c)**  
우리나라에서 생산된 무연탄으로 수입 무연탄보다 발열량이 낮다.
- **수입무연탄 (Import-c)**  
해외에서 수입해온 무연탄으로 국내 무연탄보다 발열량이 높다.
- **원료탄 (Cocking coal)**  
원료탄이란 제강에 이용하는 환원용 코크스 제조에 사용되는 원료와 고로에 직접 환원제로 사용되는 석탄이다.  
코크스용 원료탄은 강점결성 및 미점결성을 가지고 있는 석탄을 주로 이용하여 거의 전량 코크스로에서 건류, 분쇄되어 사용된다.  
고로에 직접 투입하는 원료탄은 코크스용 원료탄과 달리 점결성은 필요 없기 때문에 반드시 코크스용 유연탄으로 수입하지 않고 기타 유연탄 또는 무연탄 등이 원료탄에 혼합되어 사용된다.
- **기타유연탄 (Other bituminous)**  
발전, 증기, 생산, 가열 등의 목적으로 직접 연소시켜 사용되는 유연탄
- **아역청탄 (Sub-bituminous)**  
일반 연료탄에 비해 단위 열량이 낮은 석탄으로 석탄 통계에서는 휘발분 함량 22% 미만 유연탄과 기타 유연탄으로 집계하고, 기타석탄으로 수입되는 것을 아역청탄으로 분류하고 있다.
- **갈탄 (Lignite/brown coal)**  
석탄 종류 중 수분 함량이 많아 열량이 낮은 석탄으로 보통 갈색이나 흑갈색을 띤다.
- **토탄 (Peat)**  
토탄은 현재 연료로 사용하지 않고 주로 농업이나 가정에서 토질 개선 등을 위해 사용한다.
- **고형연료 (Patent fuel)**  
연탄, 마젤탄, 기타 고형연료 등
- **코크스 (Coke oven coke)**  
흑회색의 딱딱한 다공질 덩어리로 철광석을 환원시켜 선철을 만들 때 사용하는 중요 원료이다.

- **콜타르 (Coal tar)**  
콜타르는 각종 방향족 화합물의 혼합체로 점성을 갖는 검은 기름 형태이다. 콜타르는 염료, 의약품, 합성섬유, 합성수지 등의 중요 원료로 사용된다.
- **코크스로가스 (Coke oven gas)**  
철강 생산을 위한 코크스 제조 과정에서 석탄이 건류되며 발생하는 가스로 수소와 메탄이 주성분이다.
- **고로가스 (Blast furnace gas)**  
철강 산업의 고로에서 선철을 제조할 때 부수적으로 생기는 가스로 회수된 가스는 다른 철강 산업 공정이나 발전용 연료로 사용된다.
- **기타석탄가스 (Other recovered gas)**  
코크스로가스, 고로가스를 제외한 철강 생산 공정 중 발생하는 부산물로 전로에 있는 용선과 산소가 반응해서 생성되는 전로가스(LDG, Linze Donawitz Gas)를 포함한다.

## 가스

- **천연가스 (Natural gas)**  
천연가스란 지하에서 산출되는 광물성 가연 가스이며 정제에 의해 콘덴세이트를 제거한다. 천연가스의 주 성분은 메탄이며 주로 발전용 연료와 난방 연료로 사용된다.
- **도시가스 (City gas)**  
도시가스는 도시가스 회사에서 가정이나 기업체에 가스 배관망을 통해 판매하는 천연가스나 공기로 희석한 액화석유가스를 의미한다. 액화석유가스를 용기로 공급하는 사업이나 특정 건물에 대형 가스 용기와 간단한 배관 시설로 공급하는 간이 가스 사업은 제외한다.

## 원유 및 석유제품

- **원유 (Crude oil)**  
원유는 지하 유층에서 액체 상태로 얻어지며 상당한 휘발성을 가진 탄화수소의 혼합물이다. 정제 공정을 거쳐 생산되는 각종 석유제품의 원료로 사용되며, 원유가스화, 원유연소 등 직접 공업 원료나 연료로 사용되기도 한다.
- **정제원료 (Refinery feedstocks)**  
정제 과정이나 석유화학의 NCC 및 정유 부문이나 BTX 공정에서 발생하는 반제품(reformate)으로 옥탄가가 높아 주로 휘발유를 생산하는데 투입된다.
- **첨가물 (Additives/blending components)**  
첨가물은 첨가제와 산소성분으로 주로 휘발유의 옥탄가를 높이는 등 휘발유 제조에 사용된다.
- **기타탄화수소 (Other hydrocarbons)**  
기타탄화수소는 역청광물(합성원유, 셰일오일, 역청샌드)에서 추출한 광물 석유나 석탄액화오일 등을 말한다.

• 정제가스 (Refinery gas)

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

• 프로판 (Propane)

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

• 부탄 (Butane)

프로판과 같이 액화석유가스(LPG)의 주성분으로 공업용 원료와 연료 및 자동차용 연료로 사용된다. 휘발유에 비해 세금이 낮기 때문에 택시용이나 승합용 차량에 많이 사용된다.

• 휘발유 (Motor gasoline)

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

• 항공휘발유 (Aviation gasoline)

항공휘발유는 본질적으로 휘발유와 마찬가지로 성상을 갖고 있지만 사용 환경 조건과 운전 조건이 다르기 때문에 끓는점 범위와 높은 옥탄값 등 항공기의 피스톤 엔진에 사용하기 위한 특별한 기준에 따라 제조된다.

• 휘발유형항공유 (Gasoline type jet fuel)

등유와 납사로 구성되며 항공기의 터빈동력에 사용되는 경질유이다.

• 등유형항공유 (Kerosene type jet fuel)

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

• 등유 (Kerosene)

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

• 경유 (Gas/diesel oil)

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

• B-A

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

- B-B

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

- B-C

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

- 납사 (Naphtha)

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

- 용제 (White spirit & SBP)

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

- 윤활유 (Lubricants)

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

- 아스팔트 (Bitumen)

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

- 파라핀왁스 (Paraffin waxes)

파라핀왁스는 윤활유 성분 중의 하나로, 용제를 이용하여 윤활유를 디왁싱할 때 추출되는 잔여물이다. 주로 양초, 파라핀지, 방수제, 약용, 크레용원료 등으로 사용된다.

- 석유코크 (Petroleum coke)

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

- 기타석유제품 (Other oil products)

위에서 정의되지 않은 모든 석유제품으로 주로 프로필렌과 황의 생산량이다.



## 폐기물 및 재생에너지

- **산업폐기물 (Industrial waste)**  
산업 활동에 수반하여 발생하는 폐기물, 사업장 폐기물이라고도 한다.
- **도시폐기물\_재생 (Municipal waste (renewable))**  
인간의 모든 생활에서 사용되었으나 그 필요성을 잃어 사용치 않고 버리게 되는 산업폐기물 이외의 물질 중 비재생폐기물 (석유, 석탄 등 화석연료에 기원한 화학섬유, 인조가죽, 비닐 등으로서 생물 기원이 아닌 폐기물)을 제외한 것
- **도시폐기물-비재생 (Municipal waste (non-renewable))**  
인간의 모든 생활에서 사용되었으나 그 필요성을 잃어 사용치 않고 버리게 되는 산업폐기물 이외의 물질 중 비재생폐기물 (석유, 석탄 등 화석연료에 기원한 화학섬유, 인조가죽, 비닐 등으로서 생물 기원이 아닌 폐기물)에 해당하는 것
- **고형바이오매스 (Primary solid biomass)**
  - 우드칩: 목제품 제조원료 및 연료 생산을 목적으로 잘게 절삭한 목재조각
  - 성형탄: 바이오매스를 집적화하여 압착시켜 만든 고체 연료
  - 임산연료: 연료로 사용되는 흑탄, 백탄, 장작, 지엽
  - 목재펠릿: 유해물질에 의해 오염되지 않은 목재를 압축 성형하여 생산하는 작은 원통 모양의 표준화된 목질계 고체바이오연료
  - 폐목재
  - 흑액: 목재칩을 원료로 사용하는 화학펄프 공장의 펄프 제조공정에서 목재 중 섬유질은 펄프로 생산되고 나머지 리그닌 등 유기물과 사용된 약품의 혼합물을 농축해 만든 연료
  - 하수슬러지고형연료: 하수슬러지를 이용하여 제조(건조)한 고체형태의 연료
  - Bio-SRF: 가연성 고형폐기물(폐지류, 농업 폐기물, 폐목재류, 식물성잔재물, 초본류 폐기물 등)을 사용하여 품질 등급 기준에 적합하게 제조한 고형연료 제품
- **바이오가스 (Bio gas)**  
혐기적 소화작용에 의해 바이오매스에서 생성되는 메탄과 이산화탄소의 혼합형태인 기체. 이러한 혼합기체로부터 분리된 메탄을 바이오메탄가스라고 함. 그 외 바이오 가스의 형태는 퇴비가스, 습지가스, 폐기물 등으로부터 자연적으로 생성되는 것과 제조된 가스도 있다.
- **매립지가스 (LFG)**  
쓰레기 매립지에 매립된 폐기물 중 유기물질이 혐기성 분해 과정에 의해 분해되어 발생하는 가스를 말하며 그 성분은 주로 메탄(CH<sub>4</sub>; 40~60%)과 이산화탄소(CO<sub>2</sub>; 30~50%)로 구성
- **바이오휘발유 (Bio gasoline)**  
휘발유와 혼합하거나 휘발유를 대체할 수 있는 액체 바이오 연료
- **바이오경유 (Bio diesels)**  
경유와 혼합하거나 경유를 대체할 수 있는 액체 바이오 연료
- **기타바이오연료 (Other liquid biofuels)**  
바이오휘발유, 바이오경유에 해당하지 않는 액체 바이오 연료

- 목탄 (Charcoal)

목재, 기타 작물 등이 열분해 혹은 건류된 고체 잔여물을 포함한다.

- 수력 (Hydro)

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

수력은 위치에너지를 이용하여 직접 전기를 생산하기 때문에 일차 전기 에너지에 해당한다. 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 제외한다.

- 지열 (Geothermal)

물, 지하수 및 지하의 열 등의 온도를 변환시켜 이용하는 에너지

- 태양광 (Solar photovoltaics)

태양광을 흡수하여 기전력을 발생시키는 광전 효과를 이용하여 태양광 에너지를 직접 전기 에너지로 변환시키는 발전 방식

- 태양열 (Solar thermal)

태양으로부터 방사되는 복사에너지를 흡수, 저장 및 열변환 등을 통해 얻어지는 무공해, 무한정의 청정 에너지원

- 해양 (Tide, wave and ocean)

조석, 조류, 파랑, 해수 수온 밀도차 등 여러가지 형태로 해양에 부존하는 에너지원

- 풍력 (Wind)

바람의 힘을 회전력으로 전환시켜 전기를 생산하는 것

- 기타에너지원 (Other sources)

연료전지는 연료(주로 수소)와 산화제(주로 산소)를 전기화학적으로 반응시켜 그 반응 에너지를 전기로 변환하는 직류발전장치

## 전기 및 열

- 원자력 (Nuclear)

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

- 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 있다. 생산된 전기 에너지는 국내 또는 국제 송배전망을 통해 최종 소비자에게 전달된다.

### • 열 (Heat)

전기와 마찬가지로 에너지 캐리어의 한 형태인 열은 주로 난방 및 산업 공정 용도로 사용된다. 열 역시 이차 에너지 상품인 동시에 일차 에너지 상품이기도 한데, 지열이나 태양열 같이 자연에서 얻는 경우 일차 열이라 하고 핵연료의 핵분열, 석탄, 천연가스, 석유, 바이오매스 및 폐자원 같은 일차 가연성 연료를 연소시켜 생산하는 경우 이차 열이라고 한다. 열은 산업용의 경우 비교적 높은 온도의 증기 상태로 공급되며 난방용의 경우 100℃~120℃의 중온수로 공급된다. 에너지 통계는 생산지에서 직접 소비한 경우 사용 연료를 집계하고, 판매한 경우 전환 공정 처리 후 열 판매를 집계한다.

### 총에너지 (Total of all energy sources)

모든 에너지 상품의 합계

### 메모: 신재생 (Memo: Renewables)

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

## 1. 주요 에너지 지표

	국내생산 Production	수입 Imports	수출 Exports	일차에너지공급 TPES <sup>1</sup>	일차에너지소비 TPEC <sup>2</sup>	전환공정 Transformation	최종소비 TFC <sup>3</sup>
	1,000 toe	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	17,112	68,817
1991	21,749	91,662	10,422	96,801	96,733	16,811	75,658
1992	20,314	110,753	13,883	109,613	109,597	21,527	83,629
1993	19,865	128,363	15,481	124,999	123,301	27,013	91,175
1994	18,624	138,940	14,043	132,512	132,861	26,585	100,308
1995	20,362	152,794	17,784	145,470	144,201	31,085	107,633
1996	21,704	171,493	22,971	156,904	158,424	37,407	113,968
1997	22,524	190,742	33,463	164,316	168,555	33,464	123,086
1998	26,197	181,585	42,284	154,392	156,297	34,267	110,519
1999	29,494	194,268	42,595	167,341	170,991	37,605	120,940
2000	31,255	210,191	43,507	183,078	183,964	43,309	129,559
2001	31,754	208,280	41,898	185,809	187,986	45,224	131,682
2002	33,647	207,809	33,547	196,463	198,573	49,513	138,233
2003	36,943	210,798	29,227	201,738	204,954	52,020	142,161
2004	37,267	217,783	32,641	205,009	208,692	52,651	144,474
2005	41,419	217,487	38,089	211,346	212,131	53,525	147,973
2006	42,065	230,064	40,263	216,183	220,288	58,244	151,039
2007	35,823	243,218	40,064	228,147	231,108	63,624	156,018
2008	37,619	253,740	45,589	231,304	235,925	66,487	156,500
2009	37,603	254,849	44,631	238,435	239,662	67,847	158,274
2010	38,097	280,311	48,576	254,332	258,583	75,339	170,341
2011	40,335	300,456	56,549	269,246	273,974	83,540	175,099
2012	38,961	302,088	59,863	269,008	275,488	83,269	176,394
2013	37,052	306,393	60,319	269,536	273,200	81,477	175,946
2014	41,395	307,871	62,805	271,238	273,498	82,253	174,535
2015	43,745	316,781	66,734	276,707	279,122	82,189	179,684
2016	44,023	327,102	68,510	287,983	287,362	83,447	186,522
2017	43,233	341,843	71,508	296,524	293,598	85,739	191,978
2018	40,931	354,200	74,878	300,645	300,631	89,236	193,977
2019	43,829	338,901	72,526	297,316	298,333	88,426	191,387
2020	48,325	313,504	65,300	286,068	289,433	85,319	185,316

1. Total Primary Energy Supply

2. Total Primary Energy Consumption

3. Total Final Consumption

4. 수입-수출

5. 국내생산+일차에너지공급

6. 연쇄가중법에 의해 추계된 실질 GDP (한국은행)

7. 추계인구(통계청, 「장래인구추계」)

### 1. Major energy indicators

순수입 <sup>4</sup> Net imports <sup>4</sup>	에너지자립도 <sup>5</sup> Total self-sufficiency	TPES/GDP <sup>6</sup>	TFC/GDP <sup>6</sup>	TPES/인구 <sup>7</sup> TPES/population	TFC/인구 <sup>7</sup> TFC/population	
1,000 toe	%	toe/mil.won	toe/mil.won	toe/mil.won	toe/mil.won	
70,607	25.2	0.197	0.152	2.09	1.61	1990
81,240	22.5	0.192	0.150	2.24	1.75	1991
96,871	18.5	0.205	0.157	2.51	1.91	1992
112,882	15.9	0.219	0.160	2.83	2.06	1993
124,897	14.1	0.212	0.161	2.97	2.25	1994
135,010	14.0	0.213	0.157	3.23	2.39	1995
148,522	13.8	0.213	0.154	3.45	2.50	1996
157,278	13.7	0.210	0.157	3.58	2.68	1997
139,302	17.0	0.208	0.149	3.34	2.39	1998
151,673	17.6	0.202	0.146	3.59	2.59	1999
166,684	17.1	0.203	0.143	3.89	2.76	2000
166,381	17.1	0.196	0.139	3.92	2.78	2001
174,263	17.1	0.193	0.135	4.12	2.90	2002
181,572	18.3	0.192	0.135	4.21	2.97	2003
185,142	18.2	0.185	0.130	4.26	3.00	2004
179,398	19.6	0.183	0.128	4.39	3.07	2005
189,802	19.5	0.178	0.124	4.46	3.12	2006
203,154	15.7	0.177	0.121	4.69	3.20	2007
208,151	16.3	0.175	0.118	4.72	3.19	2008
210,218	15.8	0.179	0.118	4.84	3.21	2009
231,735	15.0	0.178	0.119	5.13	3.44	2010
243,907	15.0	0.182	0.118	5.39	3.51	2011
242,224	14.5	0.178	0.116	5.36	3.51	2012
246,074	13.7	0.172	0.113	5.34	3.49	2013
245,066	15.3	0.168	0.108	5.34	3.44	2014
250,047	15.8	0.167	0.108	5.42	3.52	2015
258,592	15.3	0.169	0.109	5.62	3.64	2016
270,335	14.6	0.168	0.109	5.77	3.74	2017
279,322	13.6	0.166	0.107	5.83	3.76	2018
266,375	14.7	0.161	0.104	5.75	3.70	2019
248,204	16.9	0.156	0.101	5.52	3.58	2020

1. Total Primary Energy Supply  
 2. Total Primary Energy Consumption  
 3. Total Final Consumption  
 4. Imports-Exports  
 5. Energy production÷TPES  
 6. GDP is based on chained prices.(Bank of Korea)  
 7. Population projection(Statistics Korea, \*National population projection for Korea<sub>A</sub>)

## 2. 에너지 생산 및 수출입

단위: 천 toe

	생산								
	Production	일차석탄 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	37,267	1,436	-	-	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	498	31,948	797	16
2011	40,335	969	451	42	3,882	601	33,265	989	135
2012	38,961	942	436	39	4,247	617	31,719	838	124
2013	37,052	817	463	42	4,629	798	29,283	906	113
2014	41,395	787	322	29	5,585	1,022	33,002	581	68
2015	43,745	794	188	17	6,011	1,391	34,765	454	125
2016	44,023	777	154	15	6,444	1,731	34,181	603	117
2017	43,233	702	341	32	7,534	2,281	31,615	601	127
2018	40,931	569	305	28	7,984	2,823	28,437	719	68
2019	43,829	513	259	23	7,604	3,691	31,079	594	66
2020	48,325	482	185	15	7,478	5,146	34,119	826	73

1. 일차석탄, 석탄제품

## 2. Energy production, imports and exports

Unit: Thousand toe

수입					수출				
Imports	석탄 <sup>1</sup> Coal <sup>1</sup>	천연가스 Natural gas	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products	Exports	석탄 <sup>1</sup> Coal <sup>1</sup>	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products	
74,609	15,832	2,909	42,465	13,404	4,002	5	-	3,997	1990
91,662	19,331	3,243	54,600	14,488	10,422	4	-	10,418	1991
110,753	19,279	3,892	69,996	17,587	13,883	2	112	13,769	1992
128,363	23,567	5,797	77,531	21,468	15,481	0	94	15,387	1993
138,940	25,904	7,795	80,727	24,514	14,043	104	148	13,791	1994
152,794	28,942	8,782	88,810	26,259	17,784	4	31	17,749	1995
171,493	30,616	12,035	101,430	27,411	22,971	1	280	22,691	1996
190,742	32,774	14,912	119,950	23,106	33,463	53	266	33,144	1997
181,585	34,450	13,246	112,392	21,498	42,284	3	48	42,233	1998
194,268	35,229	15,970	120,594	22,474	42,595	1	49	42,545	1999
210,191	41,943	19,811	123,049	25,389	43,507	3	129	43,375	2000
208,280	43,822	19,913	118,891	25,653	41,898	1	134	41,764	2001
207,809	46,069	23,390	109,680	28,670	33,547	1	163	33,383	2002
210,798	47,109	25,101	111,227	27,362	29,227	1	57	29,169	2003
217,783	51,997	28,316	113,564	23,906	32,641	7	17	32,617	2004
217,487	50,268	29,013	116,537	21,669	38,089	12	5	38,072	2005
230,064	52,055	32,832	121,897	23,281	40,263	9	4	40,250	2006
243,218	56,343	33,240	128,166	25,470	40,064	9	79	39,976	2007
253,740	63,738	35,436	127,156	27,410	45,589	26	314	45,249	2008
254,849	65,225	33,568	122,816	33,240	44,631	4	415	44,212	2009
280,311	75,349	42,384	128,349	34,228	48,576	8	620	47,947	2010
300,456	82,149	47,690	136,259	34,358	56,549	41	751	55,757	2011
302,088	78,281	47,184	138,986	37,636	59,863	20	460	59,383	2012
306,393	78,940	51,998	134,607	40,848	60,319	40	369	59,910	2013
307,871	81,797	48,388	136,928	40,758	62,805	28	185	62,593	2014
316,781	84,140	43,509	150,997	38,135	66,734	12	446	66,276	2015
327,102	83,637	43,623	158,918	40,924	68,510	1	670	67,840	2016
341,843	89,234	49,023	165,241	38,345	71,508	86	455	70,967	2017
354,200	89,488	57,484	165,588	41,639	74,878	47	764	74,067	2018
338,901	85,587	53,217	157,955	42,141	72,526	12	138	72,376	2019
313,504	74,875	52,217	145,093	41,319	65,300	12	80	65,209	2020

1. Coal, Coal products

### 3. 일차에너지공급 및 소비

단위: 천 toe

	일차에너지 공급 <sup>1</sup>	석탄 <sup>2</sup>	천연가스	석유 <sup>3</sup>	바이오 및 폐기물	지열, 태양 및 기타	원자력	수력	열
	TPES <sup>1</sup>	Coal <sup>2</sup>	Natural gas	Oil <sup>3</sup>	Biofuels and waste	Geothermal, solar, etc.	Nuclear	Hydro	Heat
1990	89,680	24,523	2,958	47,387	6	10	13,222	1,571	3
1991	96,801	26,000	3,159	52,668	9	12	14,078	872	3
1992	109,613	24,969	3,946	65,770	5	13	14,133	774	2
1993	124,999	28,192	5,759	75,432	7	15	14,535	1,057	3
1994	132,512	28,757	7,717	80,761	7	18	14,663	587	3
1995	145,470	31,173	8,704	87,804	315	23	16,757	690	3
1996	156,904	32,647	11,760	93,021	353	33	18,481	606	3
1997	164,316	32,970	14,606	96,246	470	47	19,271	703	2
1998	154,392	36,329	13,347	80,482	688	45	22,422	1,070	9
1999	167,341	37,011	15,954	86,770	748	45	25,766	1,040	7
2000	183,078	43,143	19,743	90,804	1,088	47	27,241	1,002	10
2001	185,809	45,838	19,722	90,213	1,366	42	28,033	582	13
2002	196,463	47,998	23,797	92,515	1,516	40	29,776	808	14
2003	201,738	49,135	24,272	92,871	1,754	41	32,418	1,226	20
2004	205,009	51,887	27,615	89,676	1,999	52	32,679	1,082	19
2005	211,346	52,977	30,367	88,431	1,873	73	36,695	919	12
2006	216,183	54,362	31,945	89,590	2,108	107	37,187	867	17
2007	228,147	58,152	34,681	101,219	2,433	137	30,731	781	14
2008	231,304	64,941	33,781	96,511	2,718	199	32,456	660	38
2009	238,435	67,113	35,138	100,303	3,104	343	31,771	616	49
2010	254,332	75,941	41,681	100,177	3,274	498	31,948	797	16
2011	269,246	82,411	47,341	100,622	3,881	601	33,265	989	135
2012	269,008	79,078	49,554	102,833	4,245	617	31,719	838	124
2013	269,536	80,555	51,943	101,306	4,631	798	29,283	906	113
2014	271,238	82,780	47,409	100,792	5,585	1,022	33,002	581	68
2015	276,707	83,667	43,958	106,337	6,011	1,391	34,765	454	125
2016	287,983	84,037	45,524	115,343	6,447	1,731	34,181	603	117
2017	296,524	89,701	48,600	116,067	7,532	2,281	31,615	601	127
2018	300,645	90,958	55,206	114,450	7,985	2,823	28,437	719	68
2019	297,316	84,905	53,970	115,408	7,601	3,691	31,079	594	66
2020	286,068	76,612	53,842	107,970	7,479	5,146	34,119	826	73

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

2. 일차석탄, 석탄제품

3. 원유 및 정제원료, 석유제품

4. 일차에너지소비=최종소비(+)-전환공정(±)-에너지산업자체소비(-)-손실(±)

5. 천연가스, 도시가스



### 3. Primary energy supply and consumption

일차에너지 소비 <sup>1</sup>									
	석탄 <sup>2</sup>	가스 <sup>5</sup>	석유 <sup>3</sup>	바이오 및 폐기물	지열, 태양 및 기타	원자력	수력	열	
TPES <sup>4</sup>	Coal <sup>2</sup>	Gas <sup>5</sup>	Oil <sup>3</sup>	Biofuels and waste	Geothermal, solar, etc.	Nuclear	Hydro	Heat	
89,775	25,217	3,280	46,466	6	10	13,222	1,571	3	1990
96,733	25,868	3,886	52,007	9	12	14,078	872	3	1991
109,597	25,035	5,117	64,517	5	13	14,133	774	2	1992
123,301	27,464	6,390	73,831	7	15	14,535	1,057	3	1993
132,861	28,589	8,483	80,512	7	18	14,663	587	3	1994
144,201	29,513	10,236	86,664	315	23	16,757	690	3	1995
158,424	34,256	13,129	91,563	353	33	18,481	606	3	1996
168,555	36,300	15,569	96,192	470	47	19,271	703	2	1997
156,297	37,412	14,337	80,314	688	45	22,422	1,070	9	1998
170,991	39,562	17,311	86,512	748	45	25,766	1,040	7	1999
183,964	44,204	19,322	91,049	1,088	47	27,241	1,002	10	2000
187,986	47,045	20,440	90,465	1,366	42	28,033	582	13	2001
198,573	50,399	22,902	93,118	1,516	40	29,776	808	14	2002
204,954	52,187	24,055	93,253	1,754	41	32,418	1,226	20	2003
208,692	54,477	28,224	90,160	1,999	52	32,679	1,082	19	2004
212,131	55,671	30,194	86,695	1,873	73	36,695	919	12	2005
220,288	57,637	33,026	89,340	2,108	107	37,187	867	17	2006
231,108	60,561	35,142	101,311	2,430	137	30,731	781	14	2007
235,925	67,247	36,152	96,455	2,718	199	32,456	660	38	2008
239,662	69,864	34,331	99,585	3,103	343	31,771	616	49	2009
258,583	78,877	43,550	99,622	3,274	498	31,948	797	16	2010
273,974	86,319	46,908	101,875	3,881	601	33,265	989	135	2011
275,488	82,778	50,395	104,773	4,245	617	31,719	838	124	2012
273,200	82,749	53,107	101,612	4,631	798	29,283	906	113	2013
273,498	84,468	48,009	100,763	5,585	1,022	33,002	581	68	2014
279,122	85,521	44,145	106,807	6,011	1,391	34,765	454	29	2015
287,362	82,899	45,816	115,567	6,447	1,731	34,181	603	117	2016
293,598	85,875	47,717	117,864	7,518	2,281	31,615	601	127	2017
300,631	87,760	55,012	117,828	7,985	2,823	28,437	719	68	2018
298,333	82,789	54,039	118,472	7,601	3,691	31,079	594	66	2019
289,433	72,853	55,534	113,403	7,477	5,146	34,119	826	73	2020

1. TPES=Production(+)+Imports(+)+Exports(-)+International marine bunkers(-)+International aviation bunkers(-)+Stock changes(±)

2. Coal, Coal products

3. Crude oil & refinery feedstocks, Petroleum products

4. TPEC=Total final consumption(+)-Transformation processes(±)-Energy industry own use(-)-Losses(±)

5. Natural gas, City gas

## 4. 전환과정, 에너지산업자체소비 및 손실

단위: 천 toe

	전환과정 <sup>1</sup>					
	Transformation processes	일차석탄 Coal	석탄제품 Coal products	가스 <sup>2</sup> Gas <sup>2</sup>	원유 및 정제원료 Crude oil & refinery feedstocks	석유제품 Petroleum products
1990	-17,112	-22,140	16,663	-2,282	-42,930	37,688
1991	-16,811	-22,195	14,722	-2,360	-54,459	50,427
1992	-21,527	-21,174	11,905	-2,913	-69,730	62,029
1993	-27,013	-22,762	9,698	-3,388	-77,318	67,615
1994	-26,585	-23,459	7,441	-4,466	-79,203	71,197
1995	-31,085	-24,190	6,163	-4,801	-89,478	79,326
1996	-37,407	-28,030	5,443	-6,234	-100,960	89,776
1997	-33,464	-29,967	5,065	-7,275	-119,975	114,978
1998	-34,267	-32,057	4,846	-5,711	-113,999	113,446
1999	-37,605	-33,894	4,708	-6,498	-120,291	119,488
2000	-43,309	-37,779	4,966	-6,401	-122,721	118,394
2001	-45,224	-40,037	4,900	-6,916	-119,076	114,498
2002	-49,513	-42,706	4,953	-8,520	-111,545	106,907
2003	-52,020	-43,721	5,060	-8,685	-108,969	103,671
2004	-52,651	-46,358	5,037	-11,645	-113,796	111,516
2005	-53,525	-48,045	5,424	-12,208	-117,849	118,897
2006	-58,244	-49,746	5,643	-14,747	-120,394	120,023
2007	-63,624	-52,192	6,158	-16,091	-129,380	118,268
2008	-66,487	-58,526	6,859	-16,092	-126,589	118,502
2009	-67,847	-61,888	6,449	-13,933	-122,316	113,021
2010	-75,339	-70,218	8,331	-20,217	-127,387	120,444
2011	-83,540	-76,214	7,955	-22,391	-136,035	128,821
2012	-83,269	-74,637	8,346	-25,089	-140,257	131,023
2013	-81,477	-74,476	6,933	-27,576	-135,626	129,935
2014	-82,253	-76,518	7,699	-24,659	-138,315	134,549
2015	-82,189	-76,127	7,470	-22,065	-151,346	145,853
2016	-83,447	-74,996	7,251	-23,334	-159,440	150,848
2017	-85,739	-78,641	7,256	-23,612	-170,698	160,683
2018	-89,236	-79,658	7,393	-28,972	-175,087	163,935
2019	-88,426	-75,830	7,063	-27,643	-173,726	162,355
2020	-85,319	-66,325	6,804	-28,804	-164,058	152,387

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

2. 천연가스, 도시가스

3. 에너지 산업 자체 소비는 연료의 추출 및 전환 또는 에너지 생산 플랜트에서 여러 가지 활동을 유지하는데 사용되는 에너지를 의미함.

4. 에너지 상품을 생산지에서 소비지로 유통하는 과정에서 발생한 손실을 의미

### 4. Transformation processes, energy industry own use and losses

Unit: Thousand toe

바이오 및 폐기물 Biofuels and waste	지열, 태양 및 기타 Geothermal, solar, etc.	원자력 Nuclear	수력 Hydro	전기 Electricity	열 Heat	에너지산업 자체소비 <sup>2</sup>	손실 <sup>4</sup>	
						Energy industry own use <sup>3</sup>	Losses <sup>4</sup>	
-6	0	-13,222	-1,571	10,181	506	-2,853	-994	1990
-9	0	-14,078	-872	11,284	729	-2,999	-1,265	1991
-5	-1	-14,133	-774	12,442	826	-3,098	-1,342	1992
-7	-1	-14,535	-1,057	13,767	973	-3,487	-1,626	1993
-7	-1	-14,663	-587	15,619	1,543	-3,663	-2,305	1994
-17	-1	-16,757	-690	17,271	2,087	-4,121	-1,363	1995
-35	-1	-18,481	-606	19,184	2,538	-5,504	-1,544	1996
-40	-1	-19,271	-703	20,984	2,742	-10,437	-1,567	1997
-12	-1	-22,422	-1,070	20,242	2,471	-10,157	-1,355	1998
-19	-3	-25,766	-1,040	22,412	3,296	-10,659	-1,787	1999
0	-5	-27,241	-1,002	25,053	3,430	-9,770	-1,326	2000
-56	-5	-28,033	-582	26,535	3,548	-9,680	-1,400	2001
-93	-5	-29,776	-808	28,425	3,654	-9,210	-1,617	2002
-105	-8	-32,418	-1,226	29,888	4,492	-9,478	-1,295	2003
-116	-14	-32,679	-1,082	31,584	4,902	-10,143	-1,424	2004
-65	-36	-36,695	-919	33,365	4,607	-9,671	-962	2005
-74	-67	-37,187	-867	34,570	4,603	-10,039	-966	2006
-115	-96	-30,731	-781	36,563	4,775	-10,393	-1,072	2007
-155	-155	-32,456	-660	37,977	4,807	-11,625	-1,312	2008
-175	-290	-31,771	-616	38,764	4,907	-11,548	-1,992	2009
-134	-436	-31,948	-797	42,617	4,406	-11,303	-1,599	2010
-451	-526	-33,265	-989	44,795	4,759	-13,118	-2,216	2011
-343	-525	-31,719	-838	45,908	4,863	-13,744	-2,081	2012
-534	-683	-29,283	-906	46,253	4,486	-14,114	-1,664	2013
-1,939	-885	-33,002	-581	46,628	4,771	-15,132	-1,578	2014
-1,843	-1,228	-34,765	-454	47,197	5,118	-15,224	-2,025	2015
-1,853	-1,541	-34,181	-603	48,743	5,659	-15,096	-2,296	2016
-2,338	-2,069	-31,615	-601	50,009	5,886	-14,034	-1,847	2017
-2,608	-2,590	-28,437	-719	51,291	6,215	-15,763	-1,655	2018
-3,212	-3,440	-31,079	-594	50,979	6,703	-16,510	-2,010	2019
-3,069	-4,879	-34,119	-826	50,732	6,840	-16,347	-2,451	2020

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 the used fuel for the extraction and transformation of fuel and the used fuel for operation of energy production plants.

4. It is from the distribution process.

## 5. 최종소비

단위: 천 toe

	최종소비				
	TFC (A+B)	일차석탄 Coal	석탄제품 Coal products	가스 <sup>1</sup> Gas <sup>1</sup>	석유제품 Petroleum products
1990	68,817	2,982	15,373	998	40,580
1991	75,658	3,578	13,185	1,526	47,374
1992	83,629	3,755	10,351	2,204	56,198
1993	91,175	4,570	8,010	3,002	63,363
1994	100,308	5,086	5,728	4,017	71,571
1995	107,633	5,182	4,471	5,436	75,336
1996	113,968	4,633	3,746	6,895	79,395
1997	123,086	5,071	3,333	8,002	85,447
1998	110,519	4,044	3,144	8,349	74,246
1999	120,940	4,271	3,060	10,426	79,998
2000	129,559	6,227	3,244	12,492	80,955
2001	131,682	6,831	3,173	13,014	80,386
2002	138,233	7,473	3,246	14,320	83,120
2003	142,161	8,191	3,389	15,162	82,828
2004	144,474	7,510	3,707	15,951	82,585
2005	147,973	7,407	4,232	17,719	82,423
2006	151,039	7,692	3,961	18,045	83,742
2007	156,018	7,979	4,660	18,877	84,613
2008	156,500	8,199	5,319	19,924	81,805
2009	158,274	7,775	4,755	20,330	83,775
2010	170,341	8,230	6,339	22,915	86,862
2011	175,099	9,765	5,463	23,947	87,870
2012	176,394	7,822	5,744	24,954	88,104
2013	175,946	7,992	4,370	25,372	88,752
2014	174,535	7,841	4,546	21,854	89,713
2015	179,684	9,193	4,458	21,725	93,022
2016	186,522	7,740	4,241	22,240	98,603
2017	191,978	7,104	4,331	23,560	100,889
2018	193,977	7,914	4,314	24,196	99,444
2019	191,387	6,777	4,008	23,952	99,743
2020	185,316	6,356	3,821	24,229	94,400

1. 천연가스, 도시가스

### 5. Final consumption

Unit: Thousand toe

바이오 및 폐기물 Biofuels and waste	지열, 태양 및 기타 Geothermal, solar, etc.	전기 Electricity	열 Heat	최종에너지소비	최종비에너지소비	
				TFEC (A)	Total final non-energy consumption(B)	
-	10	8,873	-	62,253	6,564	1990
-	11	9,983	-	67,008	8,649	1991
-	13	11,108	-	69,800	13,830	1992
-	14	12,217	-	75,938	15,237	1993
-	17	13,888	-	80,995	19,313	1994
298	22	15,348	1,540	89,560	18,073	1995
318	32	17,040	1,910	94,777	19,191	1996
430	46	18,672	2,087	99,249	23,837	1997
677	44	18,035	1,981	83,628	26,891	1998
729	42	19,989	2,424	93,422	27,518	1999
1,088	42	22,173	3,338	100,465	29,094	2000
1,310	37	23,710	3,221	102,776	28,906	2001
1,423	35	25,326	3,290	107,617	30,616	2002
1,649	33	27,198	3,711	111,366	30,795	2003
1,883	37	29,035	3,765	111,630	32,844	2004
1,760	37	30,511	3,883	113,797	34,176	2005
1,987	39	31,758	3,815	115,571	35,469	2006
2,270	40	33,574	4,004	117,951	38,067	2007
2,523	44	34,816	3,870	118,808	37,692	2008
2,716	53	34,877	3,994	117,981	40,293	2009
3,113	63	38,323	4,497	127,808	42,534	2010
3,224	75	40,136	4,618	129,895	45,204	2011
3,715	92	41,519	4,444	129,767	46,627	2012
3,162	115	41,995	4,188	128,621	47,325	2013
3,645	137	42,264	4,534	126,223	48,313	2014
4,168	164	42,291	4,663	130,684	49,000	2015
4,594	191	43,844	5,069	133,944	52,578	2016
5,180	212	45,218	5,484	136,700	55,278	2017
5,377	233	46,691	5,807	139,503	54,474	2018
4,375	252	46,310	5,970	136,603	54,784	2019
4,409	267	45,580	6,255	132,978	52,338	2020

1. Natural gas, City gas

## 6. 최종에너지소비

단위: 천 toe

	합계 Total	에너지원별(By source)							
		일차석탄 Coal	석탄제품 Coal products	가스 <sup>1</sup> Gas <sup>1</sup>	석유제품 Petroleum products	바이오 및 폐기물 Biofuels and waste	지열, 태양 및 기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
1990	62,253	2,977	15,373	998	34,022	0	10	8,873	-
1991	67,008	3,577	13,185	1,526	38,726	0	11	9,983	-
1992	69,800	3,754	10,351	2,204	42,370	0	13	11,108	-
1993	75,938	4,568	8,010	3,002	48,127	0	14	12,217	-
1994	80,995	5,084	5,728	4,017	52,261	0	17	13,888	-
1995	89,560	5,179	4,471	5,436	57,266	298	22	15,348	1,540
1996	94,777	4,629	3,746	6,895	60,207	318	32	17,040	1,910
1997	99,249	5,066	3,333	8,002	61,614	430	46	18,672	2,087
1998	83,628	4,042	3,144	8,349	47,357	677	44	18,035	1,981
1999	93,422	4,269	3,060	10,426	52,483	729	42	19,989	2,424
2000	100,465	6,223	3,244	12,492	51,866	1,088	42	22,173	3,338
2001	102,776	6,825	3,173	13,014	51,486	1,310	37	23,710	3,221
2002	107,617	7,467	3,246	14,320	52,510	1,423	35	25,326	3,290
2003	111,366	8,184	3,389	15,162	52,040	1,649	33	27,198	3,711
2004	111,630	7,501	3,707	15,951	49,750	1,883	37	29,035	3,765
2005	113,797	7,396	3,815	17,719	48,675	1,760	37	30,511	3,883
2006	115,571	7,682	3,546	18,045	48,697	1,987	39	31,758	3,815
2007	117,951	7,966	4,248	18,877	46,971	2,270	40	33,574	4,004
2008	118,808	8,186	4,839	19,924	44,605	2,523	44	34,816	3,870
2009	117,981	7,766	4,344	20,330	43,902	2,716	53	34,877	3,994
2010	127,808	8,217	5,901	22,851	44,843	3,113	63	38,323	4,497
2011	129,895	9,751	4,910	23,775	43,407	3,224	75	40,136	4,618
2012	129,767	7,807	5,196	24,832	42,161	3,715	92	41,519	4,444
2013	128,621	7,977	3,859	25,344	41,981	3,162	115	41,995	4,188
2014	126,223	7,825	3,957	21,839	42,021	3,645	137	42,264	4,534
2015	130,684	9,176	3,888	21,725	44,610	4,168	164	42,291	4,663
2016	133,944	7,724	3,689	22,240	46,593	4,594	191	43,844	5,069
2017	136,700	7,087	3,775	23,560	46,183	5,180	212	45,218	5,484
2018	139,503	7,899	3,751	24,196	45,548	5,377	233	46,691	5,807
2019	136,603	6,762	3,448	23,620	45,867	4,375	252	46,310	5,970
2020	132,978	6,331	3,296	23,202	43,638	4,409	267	45,580	6,255

1. 천연가스, 도시가스

## 6. Final energy consumption

Unit: Thousand toe

부문별(By sector)					
산업 Industry	수송 Transport	가정 Residential	상업 Commercial	공공 Public Services	
22,977	12,141	15,886	8,263	2,987	1990
26,066	13,703	13,945	10,350	2,944	1991
27,021	15,514	12,670	12,283	2,312	1992
29,235	18,319	11,472	14,625	2,287	1993
32,127	20,352	10,447	15,654	2,416	1994
34,539	22,920	11,531	17,923	2,646	1995
35,722	24,430	12,248	19,392	2,986	1996
37,095	26,203	12,455	20,331	3,164	1997
33,099	20,481	11,250	16,026	2,773	1998
36,355	22,374	14,099	17,560	3,034	1999
40,229	25,007	16,563	16,097	2,569	2000
40,779	26,226	17,198	15,089	3,485	2001
42,330	28,008	17,967	15,662	3,650	2002
43,967	29,000	18,049	16,573	3,777	2003
43,960	29,178	18,263	16,356	3,871	2004
44,398	29,730	20,047	16,154	3,469	2005
45,002	30,928	19,952	16,241	3,448	2006
47,493	30,496	19,150	17,102	3,710	2007
48,183	30,005	19,677	17,226	3,717	2008
46,708	30,389	19,621	17,236	4,027	2009
52,897	31,009	21,068	18,358	4,476	2010
55,550	31,009	20,834	18,488	4,014	2011
54,493	31,499	20,771	18,393	4,611	2012
54,277	32,008	20,532	17,900	3,905	2013
53,306	32,394	19,196	17,238	4,089	2014
54,349	34,510	19,207	18,169	4,450	2015
53,810	36,029	20,273	18,744	5,087	2016
55,097	36,261	20,957	19,187	5,198	2017
56,191	36,228	22,097	19,537	5,450	2018
54,229	37,194	21,344	18,735	5,101	2019
53,518	34,732	22,185	17,638	4,905	2020

1. Natural gas, City gas

## 7. 산업부문 에너지소비

단위: 천 toe

	합계 Total	에너지원별(By source)							
		일차석탄 Coal	석탄제품 Coal products	가스 <sup>1</sup> Gas <sup>1</sup>	석유제품 Petroleum products	바이오 및 폐기물 Biofuels and waste	지열, 태양 및 기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
1990	22,977	2,977	1,839	239	12,083	-	-	5,838	-
1991	26,066	3,577	2,491	319	13,081	-	-	6,598	-
1992	27,021	3,754	2,436	386	13,198	-	-	7,247	-
1993	29,235	4,568	2,465	478	13,924	-	-	7,800	-
1994	32,127	5,084	2,414	617	15,331	-	-	8,680	-
1995	34,539	5,179	2,318	875	15,643	33	-	9,587	903
1996	35,722	4,629	2,341	1,159	15,944	-	-	10,548	1,102
1997	37,095	5,066	2,337	1,495	15,566	21	-	11,450	1,159
1998	33,099	4,042	2,357	1,813	12,811	238	-	10,741	1,097
1999	36,355	4,269	2,345	2,521	13,636	245	-	11,948	1,391
2000	40,229	6,223	2,481	3,301	12,532	624	0	12,939	2,130
2001	40,779	6,825	2,649	3,604	11,858	611	0	13,227	2,004
2002	42,330	7,467	2,729	4,006	11,713	542	0	13,807	2,066
2003	43,967	8,184	2,882	4,136	10,943	633	0	14,875	2,315
2004	43,960	7,501	2,956	4,429	10,196	757	0	15,805	2,315
2005	44,398	7,396	2,731	4,718	9,916	1,156	1	16,249	2,231
2006	45,002	7,682	2,301	4,939	9,886	1,157	1	16,768	2,267
2007	47,493	7,966	3,131	5,509	9,298	1,292	1	17,867	2,428
2008	48,183	8,186	3,583	6,236	8,131	1,430	1	18,415	2,201
2009	46,708	7,766	3,279	6,423	7,572	1,465	1	17,924	2,279
2010	52,897	8,217	4,869	7,838	7,878	1,492	4	20,103	2,495
2011	55,550	9,751	3,849	8,881	7,021	1,685	8	21,740	2,615
2012	54,493	7,807	4,159	9,823	5,910	1,851	13	22,684	2,246
2013	54,277	7,977	2,787	10,444	5,664	2,172	19	23,125	2,089
2014	53,306	7,825	3,037	8,044	5,544	2,467	19	23,824	2,547
2015	54,349	9,176	3,045	7,963	5,348	2,730	27	23,352	2,708
2016	53,810	7,724	2,967	7,790	5,539	2,793	29	24,025	2,943
2017	55,097	7,087	3,169	8,405	4,881	3,369	30	25,029	3,128
2018	56,191	7,899	3,241	8,208	4,795	3,312	23	25,502	3,211
2019	54,229	6,762	3,032	8,228	4,777	2,626	35	25,330	3,438
2020	53,518	6,331	2,969	7,922	5,525	2,596	37	24,542	3,598

1. 천연가스, 도시가스



## 7. Industry

Unit: Thousand toe

업종별(By business)					
농림어업 Agriculture/Forestry/ Fishing	광업(석탄광업제외) Mining and Quarrying	제조업 Manufacturing	건설업 Construction		
2,340	234	19,845	557		1990
2,305	204	23,033	524		1991
2,502	192	23,865	461		1992
2,707	160	25,908	460		1993
3,052	153	28,494	429		1994
3,262	161	30,701	414		1995
3,651	156	31,529	385		1996
4,021	139	32,524	410		1997
3,613	126	29,052	308		1998
3,941	121	31,984	310		1999
4,173	138	35,505	412		2000
4,733	146	35,515	385		2001
4,681	155	37,013	481		2002
4,132	171	39,101	563		2003
3,788	167	39,366	641		2004
3,601	179	39,926	692		2005
3,706	186	40,183	927		2006
3,625	184	42,850	833		2007
3,308	175	43,891	808		2008
3,405	170	42,243	891		2009
3,558	212	48,253	875		2010
3,447	229	50,986	889		2011
3,580	198	49,940	775		2012
3,702	191	49,636	748		2013
3,169	186	49,146	805		2014
3,093	187	50,178	891		2015
3,109	199	49,581	921		2016
3,552	193	50,564	789		2017
3,549	169	51,697	775		2018
3,104	170	50,172	784		2019
3,236	180	49,352	750		2020

1. Natural gas, City gas

## 8. 수송부문 에너지소비

단위: 천 toe

	합계 Total	에너지원별(By source)			
		도시가스 City gas	석유제품 Petroleum products	바이오 및 폐기물 Biofuels and waste	전기 Electricity
1990	12,141	-	12,054	-	87
1991	13,703	-	13,609	-	94
1992	15,514	-	15,413	-	101
1993	18,319	-	18,211	-	108
1994	20,352	-	20,227	-	124
1995	22,920	-	22,765	-	155
1996	24,430	-	24,285	-	145
1997	26,203	-	26,051	-	151
1998	20,481	-	20,345	-	136
1999	22,374	-	22,225	-	149
2000	25,007	-	24,832	-	175
2001	26,226	7	26,024	-	194
2002	28,008	80	27,733	-	195
2003	29,000	146	28,654	-	200
2004	29,178	237	28,729	-	213
2005	29,730	339	29,167	-	224
2006	30,928	475	30,192	43	218
2007	30,496	615	29,577	95	209
2008	30,005	777	28,856	177	196
2009	30,389	960	28,981	261	187
2010	31,009	1,112	29,352	357	188
2011	31,009	1,174	29,295	347	193
2012	31,499	1,246	29,703	357	194
2013	32,008	1,302	30,144	375	186
2014	32,394	1,306	30,521	394	172
2015	34,510	1,281	32,597	441	191
2016	36,029	1,268	34,006	523	231
2017	36,261	1,253	34,197	564	246
2018	36,228	1,239	34,038	686	265
2019	37,194	1,216	35,022	685	271
2020	34,732	1,099	32,667	695	271

## 8. Transport

Unit: Thousand toe

모드별(By mode)					
철도 Rail	도로 Road	해운 Navigation	항공 Aviation		
392	11,202	479	68	1990	
404	12,940	349	11	1991	
416	14,702	385	10	1992	
441	16,528	1,344	6	1993	
447	18,670	1,226	9	1994	
481	21,218	1,215	6	1995	
467	23,287	664	11	1996	
473	24,850	868	12	1997	
452	19,270	744	15	1998	
478	21,175	708	13	1999	
513	23,550	930	15	2000	
535	24,837	839	15	2001	
536	26,481	976	15	2002	
549	27,419	1,015	17	2003	
511	27,679	969	20	2004	
501	28,279	930	21	2005	
474	28,535	903	1,017	2006	
441	29,100	881	75	2007	
424	28,354	911	317	2008	
388	28,774	837	389	2009	
383	29,462	772	392	2010	
371	29,329	770	540	2011	
370	29,521	732	876	2012	
342	30,437	483	745	2013	
302	30,634	346	1,111	2014	
309	32,319	569	1,313	2015	
335	33,923	487	1,283	2016	
343	34,101	453	1,363	2017	
356	34,135	345	1,393	2018	
346	35,075	409	1,365	2019	
320	33,451	336	625	2020	

## 9. 건물부문 에너지소비

단위: 천 toe

	합계 Total	에너지원별(By source)						
		석탄제품 Coal products	도시가스 City gas	석유제품 Petroleum products	바이오 및 폐기물 Biofuels and waste	지열, 태양 및 기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
1990	27,136	13,534	759	9,885	-	10	2,948	-
1991	27,239	10,694	1,207	12,036	-	11	3,291	-
1992	27,265	7,916	1,818	13,758	-	13	3,760	-
1993	28,384	5,545	2,524	15,993	-	14	4,308	-
1994	28,516	3,314	3,401	16,702	-	17	5,083	-
1995	32,101	2,153	4,561	18,858	264	22	5,605	637
1996	34,626	1,405	5,736	19,979	318	32	6,347	809
1997	35,951	995	6,507	19,997	408	46	7,070	928
1998	30,048	787	6,536	14,201	439	44	7,158	884
1999	34,693	715	7,905	16,621	483	42	7,893	1,033
2000	35,229	763	9,191	14,502	464	41	9,059	1,208
2001	35,772	524	9,402	13,604	699	37	10,289	1,217
2002	37,279	517	10,234	13,064	881	35	11,323	1,224
2003	38,399	507	10,881	12,443	1,016	33	12,123	1,395
2004	38,491	751	11,286	10,825	1,126	37	13,017	1,449
2005	39,669	1,084	12,662	9,592	604	37	14,039	1,652
2006	39,640	1,245	12,631	8,619	786	38	14,772	1,549
2007	39,962	1,117	12,753	8,096	883	39	15,498	1,576
2008	40,620	1,256	12,911	7,619	916	43	16,205	1,669
2009	40,884	1,066	12,947	7,349	991	51	16,766	1,715
2010	43,902	1,032	13,901	7,613	1,264	59	18,031	2,002
2011	43,335	1,061	13,719	7,090	1,192	67	18,203	2,003
2012	43,775	1,037	13,762	6,549	1,508	78	18,642	2,199
2013	42,337	1,071	13,598	6,173	616	95	18,683	2,100
2014	40,523	921	12,489	5,956	785	118	18,268	1,987
2015	41,826	843	12,481	6,665	997	136	18,748	1,955
2016	44,105	722	13,182	7,049	1,278	161	19,587	2,126
2017	45,341	607	13,901	7,105	1,247	182	19,942	2,357
2018	47,084	510	14,749	6,715	1,380	210	20,925	2,596
2019	45,180	416	14,176	6,069	1,063	217	20,708	2,532
2020	44,728	327	14,181	5,446	1,118	230	20,767	2,658

## 9. Building

Unit: Thousand toe

가정 Residential	부문별(By sector)		
	상업 Commercial	공공 Public Services	
15,886	8,263	2,987	1990
13,945	10,350	2,944	1991
12,670	12,283	2,312	1992
11,472	14,625	2,287	1993
10,447	15,654	2,416	1994
11,531	17,923	2,646	1995
12,248	19,392	2,986	1996
12,455	20,331	3,164	1997
11,250	16,026	2,773	1998
14,099	17,560	3,034	1999
16,563	16,097	2,569	2000
17,198	15,089	3,485	2001
17,967	15,662	3,650	2002
18,049	16,573	3,777	2003
18,263	16,356	3,871	2004
20,047	16,154	3,469	2005
19,952	16,241	3,448	2006
19,150	17,102	3,710	2007
19,677	17,226	3,717	2008
19,621	17,236	4,027	2009
21,068	18,358	4,476	2010
20,834	18,488	4,014	2011
20,771	18,393	4,611	2012
20,532	17,900	3,905	2013
19,196	17,238	4,089	2014
19,207	18,169	4,450	2015
20,273	18,744	5,087	2016
20,957	19,187	5,198	2017
22,097	19,537	5,450	2018
21,344	18,735	5,101	2019
22,185	17,638	4,905	2020

## 10. 일차석탄

단위: 천 톤

	국내생산 Production	수입 Imports	수출 Exports	일차에너지공급 Total Primary Energy Supply	일차에너지소비 Total Primary Energy Consumption	전환공정 Transformation Processes
1990	17,217	23,974	0	43,226	44,495	-39,926
1991	15,058	29,283	0	44,081	44,255	-38,785
1992	11,969	29,218	0	41,734	41,860	-36,145
1993	9,443	35,723	0	45,936	44,717	-37,752
1994	7,438	39,221	0	45,845	45,600	-37,830
1995	5,720	43,853	3	48,848	46,411	-38,494
1996	4,951	46,298	1	50,803	53,208	-43,917
1997	4,512	49,603	1	51,152	56,183	-46,683
1998	4,361	52,211	5	56,259	57,864	-49,904
1999	4,197	53,464	1	57,337	61,181	-52,745
2000	4,150	63,864	5	66,991	68,577	-58,945
2001	3,817	66,763	1	71,094	72,892	-62,262
2002	3,318	70,140	1	74,259	77,888	-66,213
2003	3,298	71,728	2	76,026	80,660	-67,826
2004	3,191	79,003	10	80,025	83,711	-71,926
2005	2,832	76,803	6	82,273	86,381	-74,715
2006	2,824	79,748	1	84,727	89,686	-77,541
2007	2,886	88,335	3	92,313	95,978	-83,373
2008	2,773	99,641	22	102,620	106,299	-93,345
2009	2,519	103,021	1	106,807	111,141	-98,866
2010	2,084	118,641	5	120,403	124,659	-111,685
2011	2,084	129,214	24	130,258	136,270	-120,916
2012	2,094	125,594	28	127,488	133,142	-119,141
2013	1,815	126,570	19	129,627	133,032	-118,710
2014	1,748	131,100	26	133,177	135,879	-121,906
2015	1,764	135,158	22	134,902	138,125	-121,849
2016	1,726	134,528	1	135,373	133,725	-119,888
2017	1,485	148,306	71	149,575	142,817	-129,882
2018	1,202	148,781	7	151,402	146,012	-131,538
2019	1,084	141,459	0	140,911	136,399	-124,029
2020	1,019	123,594	0	125,811	119,782	-108,158

### 10. Coal

Unit: Thousand ton

발전전용 Electricity Plants	열병합 CHP Plants	코크스로 Coke Ovens	고로 Blast Furnace	연탄제조 Patent Fuel Plants	석탄가스제조 Coal-to- Gas plants	최종소비	최종에너지 소비	산업 Industry	최종비에너지 소비	
						Total Final Consumption	Final Energy Consumption		Final Non- Energy Consumption	
-8,125	-128	-11,904	-553	-19,217	-	4,559	4,539	4,539	21	1990
-7,899	-433	-13,934	-1,335	-15,184	-	5,470	5,466	5,466	4	1991
-8,589	-628	-14,079	-1,659	-11,189	-	5,715	5,710	5,710	5	1992
-11,652	-779	-15,255	-2,228	-7,837	-	6,965	6,958	6,958	8	1993
-14,634	-1,240	-15,045	-2,228	-4,684	-	7,770	7,762	7,762	8	1994
-16,345	-1,254	-15,458	-2,432	-3,005	-	7,917	7,905	7,905	12	1995
-21,706	-1,680	-15,459	-3,111	-1,961	-	7,106	7,090	7,090	16	1996
-25,195	-1,743	-15,054	-3,302	-1,389	-	7,756	7,738	7,738	18	1997
-28,794	-1,397	-15,107	-3,378	-1,229	-	6,196	6,190	6,190	5	1998
-31,079	-1,915	-15,104	-3,530	-1,117	-	6,573	6,563	6,563	10	1999
-36,253	-1,869	-15,639	-3,992	-1,192	-	9,632	9,614	9,614	18	2000
-39,530	-1,921	-15,006	-4,574	-1,230	-	10,630	10,607	10,607	23	2001
-42,944	-1,889	-15,517	-4,688	-1,175	-	11,675	11,649	11,649	25	2002
-44,746	-1,241	-15,639	-5,009	-1,191	-	12,835	12,807	12,807	28	2003
-48,132	-1,630	-15,774	-5,005	-1,385	-	11,784	11,747	11,747	38	2004
-50,256	-1,559	-15,407	-5,483	-2,010	-	11,665	11,621	11,621	44	2005
-52,605	-1,645	-15,113	-5,852	-2,327	-	12,145	12,105	12,105	40	2006
-57,939	-1,607	-15,451	-6,284	-2,091	-	12,606	12,555	12,555	51	2007
-65,421	-1,800	-16,839	-6,997	-2,289	-	12,953	12,902	12,902	52	2008
-73,821	-1,922	-14,802	-6,381	-1,941	-	12,274	12,235	12,235	39	2009
-79,153	-3,462	-19,515	-7,695	-1,860	-	12,974	12,924	12,924	50	2010
-82,147	-4,580	-22,884	-9,484	-1,822	-	15,354	15,294	15,294	61	2011
-81,028	-4,332	-22,663	-9,286	-1,833	-	14,001	13,943	13,943	58	2012
-81,516	-3,531	-22,655	-9,092	-1,917	-	14,321	14,261	14,261	61	2013
-80,329	-3,878	-27,242	-8,827	-1,629	-	13,973	13,907	13,907	66	2014
-82,600	-4,405	-24,568	-8,800	-1,473	-3	16,277	16,204	16,204	72	2015
-80,137	-5,252	-25,401	-7,678	-1,255	-165	13,837	13,773	13,773	64	2016
-89,145	-4,864	-24,986	-9,435	-1,079	-372	12,935	12,866	12,866	69	2017
-91,707	-4,688	-24,669	-9,395	-913	-165	14,475	14,413	14,413	62	2018
-84,486	-4,267	-24,671	-9,645	-644	-316	12,370	12,307	12,307	63	2019
-70,449	-4,193	-23,367	-9,323	-510	-316	11,624	11,523	11,523	101	2020

## 11. 석탄제품

단위: 천 톤

	수입 Imports	수출 Exports	일차에너지공급 Total Primary Energy Supply	일차에너지소비 Total Primary Energy Consumption	전환공정 Transformation Processes
1990	94	5	89	89	16,663
1991	98	3	95	95	14,722
1992	108	2	106	106	11,905
1993	133	0	133	133	9,698
1994	148	104	44	43	7,441
1995	144	2	141	141	6,163
1996	151	0	151	150	5,443
1997	165	53	113	112	5,065
1998	146	-	146	146	4,846
1999	168	0	167	167	4,708
2000	198	0	198	198	4,966
2001	177	0	177	177	4,900
2002	220	0	220	220	4,953
2003	276	0	276	276	5,060
2004	452	1	451	608	5,037
2005	228	9	219	219	5,424
2006	208	8	200	200	5,643
2007	397	7	391	390	6,158
2008	535	12	524	523	6,859
2009	204	3	212	201	6,449
2010	468	5	387	430	8,331
2011	353	25	328	340	7,955
2012	310	4	306	319	8,346
2013	299	30	269	280	6,933
2014	324	15	309	108	7,699
2015	316	1	315	201	7,470
2016	282	0	314	163	7,251
2017	259	45	122	130	7,256
2018	270	44	216	188	7,393
2019	231	12	219	182	7,063
2020	202	12	710	172	6,804



### 11. Coal products

Unit: Thousand ton

발전전용 Electricity Plants	코크스로 Coke Ovens	고로 Blast Furnace	연탄제조 Patent Fuel Plants	석탄가스제조 Coal-to- Gas plants	최종소비 Total Final Consumption	최종에너지 소비 Final Energy Consumption					최종비에너지 소비 Final Non- Energy Consumption	
						산업 Industry	가정 Residential	상업 Commercial	공공 Public Services			
-1,340	7,094	-3,104	14,013	-	15,373	15,373	1,839	12,646	796	92	-	1990
-1,623	8,369	-3,096	11,072	-	13,185	13,185	2,491	9,992	629	73	-	1991
-1,661	8,501	-3,094	8,159	-	10,351	10,351	2,436	7,619	278	19	-	1992
-1,892	9,140	-3,265	5,715	-	8,010	8,010	2,465	5,336	195	14	-	1993
-1,835	9,021	-3,160	3,416	-	5,728	5,728	2,414	3,189	116	8	-	1994
-1,916	9,228	-3,341	2,191	-	4,471	4,471	2,318	2,145	5	2	-	1995
-1,996	9,296	-3,287	1,430	-	3,746	3,746	2,341	1,400	4	2	-	1996
-2,043	9,159	-3,063	1,013	-	3,333	3,333	2,337	992	2	1	-	1997
-2,127	9,125	-3,050	896	-	3,144	3,144	2,357	752	34	1	-	1998
-2,205	9,082	-2,983	815	-	3,060	3,060	2,345	683	31	1	-	1999
-2,262	9,348	-2,989	869	-	3,244	3,244	2,481	729	33	1	-	2000
-2,244	8,984	-2,737	897	-	3,173	3,173	2,649	466	43	14	-	2001
-2,413	9,283	-2,774	857	-	3,246	3,246	2,729	461	42	14	-	2002
-2,532	9,466	-2,742	868	-	3,389	3,389	2,882	452	41	14	-	2003
-2,605	9,468	-2,835	1,010	-	3,707	3,707	2,956	525	186	39	-	2004
-2,416	9,603	-3,229	1,466	-	4,232	3,815	2,731	776	249	59	417	2005
-2,393	9,385	-3,046	1,697	-	3,961	3,546	2,301	913	262	70	415	2006
-2,640	10,111	-2,838	1,525	-	4,660	4,248	3,131	838	214	64	413	2007
-2,813	11,118	-3,115	1,669	-	5,319	4,839	3,583	960	239	57	480	2008
-2,128	9,739	-2,577	1,415	-	4,755	4,344	3,279	829	201	35	411	2009
-2,880	13,013	-3,203	1,356	44	6,339	5,901	4,869	817	193	22	438	2010
-4,559	14,374	-3,352	1,329	163	5,463	4,910	3,849	812	225	23	554	2011
-4,222	14,239	-3,164	1,337	156	5,744	5,196	4,159	785	226	25	548	2012
-4,138	14,650	-5,133	1,398	156	4,370	3,859	2,787	812	230	29	511	2013
-4,506	16,374	-5,537	1,188	180	4,546	3,957	3,037	711	185	24	589	2014
-4,367	16,003	-5,416	1,074	176	4,458	3,888	3,045	656	165	22	570	2015
-4,433	15,605	-5,071	915	236	4,241	3,689	2,967	562	141	19	552	2016
-4,624	15,643	-4,995	787	446	4,331	3,775	3,169	472	119	16	555	2017
-4,727	15,843	-4,912	666	522	4,314	3,751	3,241	397	100	14	563	2018
-4,711	15,790	-4,875	469	390	4,008	3,448	3,032	285	116	15	561	2019
-4,788	14,816	-4,273	372	677	3,821	3,296	2,969	224	91	12	525	2020

12. 가스<sup>1</sup>

단위: 테라 줄

	국내생산	수입	일차에너지공급	일차에너지소비	전환공정			
	Production	Imports	Total Primary Energy Supply	Total Primary Energy Consumption	Transformation Processes	발전전용 Electricity Plants	열병합 CHP Plants	열전용 Heat Plants
1990	-	121,776	123,844	137,329	-95,531	-95,531	-	-
1991	-	135,760	132,276	162,718	-98,829	-98,829	-	-
1992	-	162,942	165,228	214,234	-121,956	-110,739	-11,218	-
1993	-	242,705	241,126	267,529	-141,846	-91,169	-50,677	-
1994	-	326,374	323,108	355,163	-186,968	-94,170	-92,799	-
1995	-	367,696	364,430	428,574	-200,997	-92,662	-108,335	-
1996	-	503,895	492,356	549,670	-261,004	-133,544	-127,167	-293
1997	-	624,354	611,509	651,838	-304,575	-173,034	-130,494	-1,047
1998	-	554,581	558,827	600,268	-239,095	-135,535	-102,447	-1,113
1999	-	668,617	667,964	724,782	-272,060	-156,850	-114,016	-1,194
2000	-	829,443	826,600	808,979	-268,016	-149,646	-117,135	-1,235
2001	-	833,717	825,710	855,789	-289,547	-188,017	-107,953	-2,067
2002	-	979,311	996,319	958,863	-356,700	-247,745	-114,722	-2,393
2003	-	1,050,922	1,016,218	1,007,120	-363,629	-247,379	-112,525	-7,031
2004	-	1,185,517	1,156,165	1,181,688	-487,553	-371,856	-111,949	-7,119
2005	21,687	1,214,706	1,271,408	1,264,147	-511,111	-387,086	-116,762	-10,672
2006	19,309	1,374,627	1,337,465	1,382,717	-617,431	-485,997	-123,722	-9,667
2007	14,770	1,391,674	1,452,005	1,471,345	-673,703	-447,798	-216,598	-11,421
2008	9,875	1,483,645	1,414,355	1,513,615	-673,734	-422,624	-239,381	-13,959
2009	20,869	1,405,435	1,471,146	1,437,380	-583,351	-366,194	-206,453	-13,017
2010	22,579	1,774,554	1,745,117	1,823,370	-846,459	-533,661	-309,004	-6,081
2011	18,900	1,996,687	1,982,084	1,963,950	-937,470	-710,853	-226,216	-3,300
2012	18,259	1,975,486	2,074,721	2,109,919	-1,050,439	-769,134	-278,832	-5,307
2013	19,388	2,177,051	2,174,750	2,223,487	-1,154,548	-869,853	-277,996	-9,147
2014	13,466	2,025,906	1,984,931	2,010,036	-1,032,421	-784,572	-239,784	-8,636
2015	7,878	1,821,629	1,840,430	1,848,258	-923,832	-701,630	-216,267	-6,582
2016	6,460	1,826,416	1,906,001	1,918,211	-976,966	-703,847	-258,847	-15,009
2017	14,269	2,052,513	2,034,790	1,997,821	-988,595	-713,158	-270,943	-5,386
2018	12,789	2,406,740	2,311,357	2,303,240	-1,212,996	-888,552	-318,668	-6,740
2019	10,845	2,228,102	2,259,614	2,262,495	-1,157,373	-859,841	-276,239	-14,021
2020	7,747	2,186,212	2,254,251	2,325,102	-1,205,974	-916,932	-270,175	-7,212

1. 천연가스, 도시가스

12. Gas<sup>1</sup>

Unit: Tera joule

가스제조 Gas Manufacturing	기타전환 Non-specified Transformation	최종소비 Total Final Consumption	최종에너지 소비 Final Energy Consumption	최종에너지 소비					최종비에너지 소비 Final Non-Energy Consumption	
				산업 Industry	수송 Transport	가정 Residential	상업 Commercial	공공 Public Services		
-	-	41,797	41,797	10,026	-	19,024	7,741	5,007	-	1990
-	-	63,889	63,889	13,358	-	33,877	10,469	6,185	-	1991
-	-	92,277	92,277	16,150	-	55,911	13,845	6,371	-	1992
-	-	125,683	125,683	20,005	-	80,369	20,403	4,907	-	1993
-	-	168,195	168,195	25,814	-	111,304	25,076	5,999	-	1994
-	-	227,577	227,577	36,620	-	153,016	32,477	5,465	-	1995
-	-	288,666	288,666	48,504	-	193,002	40,895	6,265	-	1996
-	-	335,020	335,020	62,574	-	221,250	43,406	7,790	-	1997
-	-	349,550	349,550	75,899	-	223,166	44,578	5,907	-	1998
-	-	436,521	436,521	105,540	-	267,910	53,810	9,261	-	1999
-	-	523,014	523,014	138,202	-	307,858	67,378	9,576	-	2000
8,490	-	544,876	544,876	150,911	308	315,104	67,695	10,858	-	2001
8,161	-	599,544	599,544	167,737	3,333	339,514	77,983	10,977	-	2002
3,306	-	634,817	634,817	173,150	6,098	357,160	87,582	10,827	-	2003
3,371	-	667,855	667,855	185,433	9,916	361,589	99,237	11,679	-	2004
3,408	-	741,866	741,866	197,537	14,204	391,212	125,848	13,065	-	2005
1,955	-	755,525	755,525	206,800	19,893	386,542	133,937	8,352	-	2006
2,114	-	790,329	790,329	230,647	25,742	386,274	135,759	11,907	-	2007
2,229	-	834,171	834,171	261,098	32,523	390,608	137,701	12,241	-	2008
2,313	-	851,174	851,174	268,911	40,186	392,242	138,254	11,579	-	2009
2,287	-	959,389	956,713	328,162	46,544	424,259	151,474	6,273	2,677	2010
2,899	-	1,002,597	995,403	371,836	49,164	422,786	146,994	4,624	7,194	2011
2,834	-	1,044,767	1,039,674	411,289	52,182	424,730	143,951	7,522	5,093	2012
2,449	-	1,062,278	1,061,103	437,249	54,519	419,563	139,357	10,414	1,176	2013
571	-	914,992	914,345	336,773	54,696	382,588	136,798	3,490	647	2014
647	-	909,585	909,585	333,378	53,646	382,165	136,371	4,024	-	2015
738	-	931,145	931,145	326,147	53,109	403,272	145,266	3,352	-	2016
893	-	986,389	986,389	351,889	52,477	428,467	150,357	3,200	-	2017
964	-	1,013,043	1,013,043	343,654	51,884	456,889	156,420	4,197	-	2018
988	-8,261	1,002,836	988,913	344,508	50,893	438,585	151,664	3,263	13,923	2019
1,033	-12,689	1,014,424	971,431	331,687	45,994	456,092	134,733	2,924	42,993	2020

1. Natural gas, City gas

## 13. 원유 및 정제원료

단위: 천 배럴

	국내생산 Production	수입 Imports	수출 Exports	재고변화 Stocks Changes	일차에너지공급 Total Primary Energy Supply
1990	-	310,494	-	3,469	313,963
1991	-	399,976	-	-1,136	398,839
1992	-	512,082	601	-1,143	510,338
1993	-	566,233	503	-1,919	563,812
1994	-	586,912	794	-10,651	575,467
1995	-	644,020	167	5,252	649,105
1996	-	737,722	1,502	-2,254	733,966
1997	-	877,676	1,430	1,218	877,464
1998	-	822,564	257	9,018	831,325
1999	-	881,320	282	-1,876	879,161
2000	-	899,809	743	-442	898,624
2001	-	868,237	770	1,998	869,465
2002	-	800,488	932	-2,585	796,972
2003	-	812,494	326	-21,284	790,885
2004	-	830,674	96	2,073	832,651
2005	407	851,327	29	10,229	861,934
2006	333	892,296	21	-7,865	884,743
2007	236	873,674	489	10,919	884,340
2008	155	866,659	1,686	1,447	866,575
2009	321	837,008	2,233	4,441	839,537
2010	380	874,666	3,330	-1,896	869,820
2011	285	928,736	4,039	-3,928	921,053
2012	263	949,058	2,473	-2,057	944,792
2013	290	918,634	1,988	-6,060	910,875
2014	198	933,736	992	-8,093	924,848
2015	115	1,030,415	2,400	-10,774	1,017,356
2016	104	1,084,066	3,597	-4,172	1,076,400
2017	217	1,124,938	2,447	-1,633	1,121,075
2018	189	1,126,403	4,124	-8,626	1,113,842
2019	155	1,075,973	769	5,758	1,081,117
2020	103	987,422	448	1,876	988,952

### 13. Crude oil & refinery feedstocks

Unit: Thousand barrel

제품이동 Transfers	일차에너지소비 Total Primary Energy Consumption	전환공정 Transformation Processes	전환공정		
			석유정제 Oil Refinery	석유화학 Petrochemical Plants	
14	313,973	-313,973	-313,973	4,823	1990
10	398,877	-398,877	-398,877	10,158	1991
79	510,450	-510,450	-510,450	13,704	1992
369	564,548	-564,548	-564,548	12,404	1993
44	576,085	-576,085	-576,085	11,621	1994
118	649,293	-649,293	-649,293	12,848	1995
715	734,717	-734,715	-734,715	13,674	1996
1,132	877,440	-877,440	-877,440	45,741	1997
2,673	833,014	-833,014	-833,014	37,905	1998
1,186	879,466	-879,466	-879,466	31,262	1999
891	897,544	-897,543	-897,543	27,729	2000
1,129	869,440	-869,395	-869,395	33,076	2001
12,951	809,595	-809,469	-809,469	36,432	2002
4,718	794,667	-794,658	-794,658	35,189	2003
551	832,238	-832,238	-832,238	38,040	2004
566	860,864	-860,864	-860,864	40,711	2005
1,500	881,699	-881,453	-881,453	46,299	2006
617	882,575	-882,291	-882,291	53,413	2007
867	864,020	-863,787	-863,787	61,061	2008
618	835,202	-835,024	-835,024	54,903	2009
520	869,604	-869,469	-869,469	44,807	2010
783	927,302	-926,980	-926,980	55,001	2011
734	956,677	-955,613	-955,613	58,599	2012
7,414	922,992	-922,923	-922,923	59,593	2013
14,305	939,222	-939,156	-939,156	63,989	2014
13,626	1,030,031	-1,029,791	-1,029,791	68,363	2015
11,657	1,086,422	-1,085,610	-1,085,610	73,468	2016
34,286	1,153,920	-1,153,915	-1,153,915	79,737	2017
63,333	1,175,276	-1,175,276	-1,175,276	86,243	2018
92,390	1,159,008	-1,159,008	-1,159,008	82,371	2019
101,619	1,089,296	-1,089,285	-1,089,285	82,116	2020

## 14. 석유제품

단위: 천 배럴

	수입 Imports	수출 Exports	국제병커링 International Bunkers	일차에너지 공급 Total Primary Energy Supply	일차에너지 소비 Total Primary Energy Consumption	전환과정 Transformation Processes	발전		
							발전전용 Electricity Plants	열병합 CHP Plants	열전용 Heat Plants
1990	101,248	27,184	28,800	40,098	34,017	263,604	-33,421	-3,646	-0
1991	110,042	69,744	37,780	1,838	-3,555	351,130	-45,458	-5,075	-1,509
1992	137,011	91,653	46,800	-6,887	-16,818	431,837	-59,728	-5,100	-1,514
1993	167,759	103,493	49,612	11,975	-1,026	469,856	-55,852	-5,125	-2,027
1994	190,790	93,132	57,131	38,109	34,179	497,742	-63,074	-5,563	-1,656
1995	205,428	122,630	65,812	15,703	6,229	555,060	-69,509	-3,819	-2,059
1996	215,124	158,329	78,097	-26,146	-38,695	629,569	-72,240	-7,298	-1,983
1997	185,811	231,050	85,613	-136,697	-137,608	799,317	-68,382	-7,953	-2,328
1998	175,895	296,682	84,170	-202,580	-206,185	791,276	-30,632	-7,357	-2,420
1999	184,490	297,899	90,849	-200,723	-203,341	834,353	-31,602	-13,458	-3,091
2000	204,301	303,723	86,266	-192,548	-190,096	830,607	-41,939	-22,890	-2,715
2001	204,757	292,469	84,520	-171,636	-170,301	803,572	-42,150	-24,852	-3,191
2002	228,543	235,567	85,181	-86,232	-98,752	753,045	-36,816	-23,788	-3,387
2003	219,897	203,343	90,960	-73,245	-75,681	725,132	-36,264	-31,388	-3,840
2004	195,110	227,306	95,034	-135,444	-132,228	781,411	-29,616	-25,831	-4,298
2005	179,354	262,647	95,725	-169,499	-181,772	832,082	-27,040	-22,065	-4,154
2006	191,560	278,632	90,973	-181,396	-179,979	840,508	-26,839	-22,760	-3,662
2007	209,130	279,659	94,500	-162,651	-160,197	835,152	-28,661	-23,306	-3,247
2008	224,614	317,870	88,709	-177,384	-174,550	834,807	-16,542	-18,621	-2,507
2009	267,832	312,654	81,534	-123,336	-122,669	800,001	-21,635	-20,228	-2,330
2010	276,849	340,597	87,436	-153,952	-158,434	855,486	-20,620	-17,342	-2,438
2011	279,260	394,944	86,801	-201,682	-200,635	908,267	-16,763	-11,843	-1,709
2012	309,599	425,574	85,120	-207,786	-209,767	938,007	-24,550	-7,661	-1,300
2013	329,205	429,291	85,548	-186,766	-200,292	934,340	-24,847	-5,473	-1,430
2014	326,623	448,822	86,802	-209,090	-227,903	969,205	-12,011	-5,697	-1,406
2015	307,875	477,400	94,240	-265,799	-281,167	1,053,819	-13,456	-6,938	-903
2016	334,608	487,716	105,124	-255,629	-269,168	1,088,582	-20,511	-7,766	-1,715
2017	314,487	509,113	103,695	-299,983	-334,705	1,166,192	-9,421	-8,532	-1,546
2018	341,628	531,563	102,293	-303,132	-367,203	1,187,244	-10,463	-7,643	-1,278
2019	352,147	522,099	94,656	-256,545	-350,816	1,176,458	-6,906	-10,528	-2,093
2020	347,302	468,529	90,868	-210,942	-313,614	1,095,103	-5,220	-10,638	-1,674

### 14. Petroleum products

Unit: Thousand barrel

석유정제 Oil Refinery	석유화학 Petrochemical Plants	가스제조 Gas Manufacturing	최종소비 Total Final Consumption	최종에너지 소비 Final Energy Consumption						최종비에너지 소비 Final Non-Energy Consumption		메모: 석유화학 원료 of which in Petrochemical Feedstock	
				산업 Industry	수송 Transport	가정 Residential	상업 Commercial	공공 Public Services	Final Non-Energy Consumption				
300,671	-4,823	-	292,151	242,375	79,749	87,424	8,285	50,941	15,976	49,777	17,721	1990	
403,172	-10,158	-	341,777	276,078	86,773	98,632	9,684	65,659	15,329	65,699	19,968	1991	
498,179	-13,704	-	408,521	302,731	87,426	111,881	12,262	80,258	10,904	105,790	77,975	1992	
532,859	-12,404	-	460,527	343,536	92,131	131,569	14,485	94,765	10,586	116,991	91,759	1993	
568,034	-11,621	-	521,989	373,014	101,733	146,564	15,566	98,673	10,478	148,975	140,904	1994	
630,447	-12,848	-	548,865	410,018	104,523	164,992	18,080	112,500	9,922	138,847	121,870	1995	
711,091	-13,674	-	580,016	432,905	106,864	176,718	19,289	119,402	10,631	147,111	127,306	1996	
877,979	-45,741	-	626,079	443,706	105,091	188,658	17,053	122,791	10,114	182,373	146,177	1997	
831,686	-37,905	-	552,372	344,580	86,751	149,551	10,108	89,613	8,557	207,792	172,263	1998	
882,503	-31,262	-	597,144	383,905	93,268	164,076	21,506	96,101	8,955	213,239	194,921	1999	
898,150	-27,729	-	607,192	381,754	85,723	183,621	29,545	74,801	8,065	225,438	203,171	2000	
875,425	-33,076	-1,660	602,754	379,571	80,899	192,874	33,606	62,759	9,433	223,184	202,228	2001	
818,580	-36,432	-1,544	624,610	387,549	80,038	205,299	33,007	60,558	8,648	237,060	214,581	2002	
797,438	-35,189	-815	621,357	383,252	74,423	211,789	28,999	58,022	10,019	238,104	210,813	2003	
841,987	-38,040	-831	620,316	366,294	69,295	212,454	25,787	49,195	9,563	254,022	226,792	2004	
886,181	-40,711	-840	620,883	359,322	68,076	215,907	31,828	34,016	9,496	261,560	235,257	2005	
894,250	-46,299	-482	631,889	359,884	67,957	223,716	30,268	28,875	9,067	272,005	245,503	2006	
890,885	-53,413	-519	644,361	352,472	64,657	223,823	23,929	31,016	9,047	291,889	266,859	2007	
875,161	-61,061	-2,683	625,019	335,842	56,994	218,928	24,036	27,506	8,379	289,177	263,866	2008	
846,060	-54,903	-1,867	642,365	331,967	53,355	220,467	22,609	26,533	9,002	310,398	283,053	2009	
900,247	-44,807	-4,361	666,340	339,052	55,874	223,351	23,677	26,890	9,260	327,288	301,157	2010	
944,617	-55,001	-6,035	671,749	328,369	49,853	222,495	21,970	25,207	8,844	343,380	311,481	2011	
978,130	-58,599	-6,612	690,207	322,323	42,838	227,438	18,966	24,074	9,006	367,884	337,949	2012	
967,180	-59,593	-1,090	696,295	320,895	40,856	230,632	18,004	22,616	8,788	375,401	346,229	2013	
988,461	-63,989	-142	703,226	319,703	39,482	232,729	17,278	20,871	9,343	383,523	355,402	2014	
1,075,277	-68,363	-161	729,051	338,585	38,283	247,511	16,402	26,028	10,361	390,466	364,359	2015	
1,118,794	-73,468	-220	775,745	353,052	39,952	257,307	18,889	26,661	10,244	422,692	396,000	2016	
1,185,996	-79,737	-304	793,774	350,717	36,971	257,708	18,353	27,193	10,493	443,057	413,430	2017	
1,207,900	-86,243	-1,272	782,828	345,052	35,579	256,066	18,477	24,719	10,212	437,776	408,941	2018	
1,196,345	-82,371	-360	787,823	347,588	35,586	263,189	17,196	22,498	9,119	440,235	412,370	2019	
1,112,863	-82,116	-229	743,733	329,611	39,821	245,380	16,774	19,554	8,081	414,122	382,656	2020	

## 15. 바이오 및 폐기물

단위: 천 toe

	국내생산	일차에너지공급	일차에너지소비	전환공정	발전전용	열병합	열전용
	Production	Total Primary Energy Supply	Total Primary Energy Consumption	Transformation Processes	Electricity Plants	CHP Plants	Heat Plants
1990	6	6	6	-6	-6	-	-
1991	9	9	9	-9	-9	-	-
1992	5	5	5	-5	-5	-	-
1993	7	7	7	-7	-7	-	-
1994	7	7	7	-7	-7	-	-
1995	315	315	315	-17	-4	-	-12
1996	353	353	353	-35	-17	-	-18
1997	470	470	470	-40	-16	-	-24
1998	688	688	688	-12	-12	-	-
1999	748	748	748	-19	-19	-	-
2000	1,088	1,088	1,088	-	-	-	-
2001	1,366	1,366	1,366	-56	-24	-	-31
2002	1,516	1,516	1,516	-93	-41	-	-52
2003	1,754	1,754	1,754	-105	-32	-	-73
2004	1,999	1,999	1,999	-116	-49	-	-67
2005	1,873	1,873	1,873	-65	-33	-24	-7
2006	2,110	2,108	2,108	-74	-39	-29	-7
2007	2,431	2,433	2,430	-115	-66	-42	-7
2008	2,719	2,718	2,718	-155	-90	-60	-5
2009	3,109	3,104	3,103	-175	-98	-71	-6
2010	3,274	3,274	3,274	-134	-96	-38	-
2011	3,882	3,881	3,881	-451	-138	-294	-18
2012	4,247	4,245	4,245	-343	-131	-204	-8
2013	4,629	4,631	4,631	-534	-291	-224	-18
2014	5,585	5,585	5,585	-1,939	-881	-1,035	-24
2015	6,011	6,011	6,011	-1,843	-1,305	-503	-34
2016	6,444	6,447	6,447	-1,853	-853	-803	-198
2017	7,534	7,532	7,518	-2,338	-1,271	-976	-91
2018	7,984	7,985	7,985	-2,608	-1,416	-1,007	-184
2019	7,604	7,601	7,601	-3,212	-1,616	-1,420	-177
2020	7,478	7,479	7,477	-3,069	-1,485	-1,355	-229



### 15. Biofuels and waste

Unit: Thousand toe

최종소비 Total Final Consumption	최종에너지소비 Final Energy Consumption	최종에너지소비						
		산업 Industry	수송 Transport	가정 Residential	상업 Commercial	공공 Public Services		
-	-	-	-	-	-	-	-	1990
-	-	-	-	-	-	-	-	1991
-	-	-	-	-	-	-	-	1992
-	-	-	-	-	-	-	-	1993
-	-	-	-	-	-	-	-	1994
298	298	33	-	20	-	244		1995
318	318	-	-	5	-	312		1996
430	430	21	-	28	-	380		1997
677	677	238	-	24	-	415		1998
729	729	245	-	23	-	461		1999
1,088	1,088	624	-	43	-	421		2000
1,310	1,310	611	-	42	-	657		2001
1,423	1,423	542	-	48	-	833		2002
1,649	1,649	633	-	43	-	973		2003
1,883	1,883	757	-	34	-	1,092		2004
1,760	1,760	1,156	-	49	39	516		2005
1,987	1,987	1,157	43	50	157	579		2006
2,270	2,270	1,292	95	43	166	674		2007
2,523	2,523	1,430	177	41	186	688		2008
2,716	2,716	1,465	261	103	80	808		2009
3,113	3,113	1,492	357	40	23	1,201		2010
3,224	3,224	1,685	347	28	406	758		2011
3,715	3,715	1,851	357	38	320	1,150		2012
3,162	3,162	2,172	375	91	173	352		2013
3,645	3,645	2,467	394	23	141	621		2014
4,168	4,168	2,730	441	107	168	723		2015
4,594	4,594	2,793	523	121	378	780		2016
5,180	5,180	3,369	564	123	364	760		2017
5,377	5,377	3,312	686	106	381	893		2018
4,375	4,375	2,626	685	133	119	811		2019
4,409	4,409	2,596	695	127	101	890		2020

## 16. 지열, 태양 및 기타

단위: 천 toe

	국내생산	일차에너지공급	일차에너지소비	전환공정	발전전용	최종소비
	Production	Total Primary Energy Supply	Total Primary Energy Consumption	Transformation Processes	Electricity Plants	
1990	10	10	10	-0	-0	10
1991	12	12	12	-0	-0	11
1992	13	13	13	-1	-1	13
1993	15	15	15	-1	-1	14
1994	18	18	18	-1	-1	17
1995	23	23	23	-1	-1	22
1996	33	33	33	-1	-1	32
1997	47	47	47	-1	-1	46
1998	45	45	45	-1	-1	44
1999	45	45	45	-3	-3	42
2000	47	47	47	-5	-5	42
2001	42	42	42	-5	-5	37
2002	40	40	40	-5	-5	35
2003	41	41	41	-8	-8	33
2004	52	52	52	-14	-14	37
2005	73	73	73	-36	-36	37
2006	107	107	107	-67	-67	39
2007	137	137	137	-96	-96	40
2008	199	199	199	-155	-155	44
2009	343	343	343	-290	-290	53
2010	498	498	498	-436	-436	63
2011	601	601	601	-526	-526	75
2012	617	617	617	-525	-525	92
2013	798	798	798	-683	-683	115
2014	1,022	1,022	1,022	-885	-885	137
2015	1,391	1,391	1,391	-1,228	-1,228	164
2016	1,731	1,731	1,731	-1,541	-1,541	191
2017	2,281	2,281	2,281	-2,069	-2,069	212
2018	2,823	2,823	2,823	-2,590	-2,590	233
2019	3,691	3,691	3,691	-3,440	-3,440	252
2020	5,146	5,146	5,146	-4,879	-4,879	267

16. Geothermal, solar, etc.

Unit: Thousand toe

최종에너지소비					1990
Final Energy Consumption	산업 Industry	가정 Residential	상업 Commercial	공공 Public Services	
10	-	6	-	4	1990
11	-	7	-	5	1991
13	-	7	-	5	1992
14	-	9	-	5	1993
17	-	12	-	5	1994
22	-	17	-	5	1995
32	-	27	-	5	1996
46	-	41	-	4	1997
44	-	40	-	4	1998
42	-	38	-	4	1999
42	0	35	1	6	2000
37	0	31	1	5	2001
35	0	29	1	5	2002
33	0	28	1	4	2003
37	0	30	1	6	2004
37	1	29	1	6	2005
39	1	27	2	10	2006
40	1	23	2	14	2007
44	1	21	4	18	2008
53	1	23	3	25	2009
63	4	21	4	34	2010
75	8	20	6	41	2011
92	13	21	7	51	2012
115	19	27	8	61	2013
137	19	30	5	83	2014
164	27	34	5	97	2015
191	29	39	5	117	2016
212	30	43	5	135	2017
233	23	45	5	159	2018
252	35	48	6	163	2019
267	37	51	6	174	2020

## 17. 원자력, 수력, 전기

단위: GWh

	수력 Hydro	원자력 Nuclear	전기 Electricity			
	국내생산	국내생산	전환공정 Transformation Processes	발전전용 Electricity Plants		
	Production	Production		발전전용 Electricity Plants	열병합 CHP Plants	화학반응열 Chemical Heat for Electricity Production
1990	6,283	52,887	118,383	116,186	2,183	13
1991	3,486	56,311	131,203	127,591	3,602	11
1992	3,097	56,530	144,674	139,792	4,872	9
1993	4,228	58,138	160,087	153,091	6,985	11
1994	2,346	58,651	181,613	169,340	12,262	11
1995	2,760	67,029	200,828	186,758	14,057	13
1996	2,424	73,924	223,069	205,996	17,061	11
1997	2,814	77,086	243,998	226,562	17,426	10
1998	4,279	89,689	235,378	219,306	16,036	35
1999	4,159	103,064	260,604	239,905	20,670	29
2000	4,010	108,964	291,310	279,169	12,102	39
2001	2,330	112,133	308,545	294,572	13,922	51
2002	3,233	119,103	330,520	315,682	14,784	54
2003	4,902	129,672	347,540	333,557	13,901	81
2004	4,329	130,715	367,259	354,093	13,089	77
2005	3,674	146,779	387,964	376,370	11,547	47
2006	3,468	148,749	401,981	390,668	11,246	67
2007	3,632	142,937	425,146	412,707	12,375	64
2008	3,070	150,958	441,595	427,118	14,427	50
2009	2,863	147,771	450,745	436,746	13,938	61
2010	3,705	148,596	495,551	476,763	18,713	75
2011	4,599	154,723	520,868	490,427	30,362	80
2012	3,971	150,327	533,817	497,740	35,960	118
2013	4,295	138,784	537,828	502,532	35,194	102
2014	2,754	156,407	542,186	505,287	36,796	102
2015	2,150	164,762	548,801	513,828	34,848	125
2016	2,859	161,995	566,784	516,520	50,124	140
2017	2,820	148,427	581,500	529,190	52,156	154
2018	3,374	133,505	596,405	537,328	58,923	154
2019	2,791	145,910	592,776	538,031	54,584	162
2020	3,879	160,184	589,907	537,695	52,043	170

### 17. Nuclear, Hydro, Electricity

Unit: GWh

		전기 Electricity						
최종소비 Total Final Consumption	최종에너지소비 Final Energy Consumption							
		산업 Industry	수송 Transport	가정 Residential	상업 Commercial	공공 Public Services		
103,173	103,173	67,881	1,012	17,735	10,638	5,906	1990	
116,079	116,079	76,715	1,091	19,482	12,514	6,277	1991	
129,163	129,163	84,265	1,175	21,796	15,353	6,575	1992	
142,055	142,055	90,701	1,258	23,916	18,925	7,254	1993	
161,487	161,487	100,933	1,444	26,554	23,827	8,729	1994	
178,461	178,461	111,480	1,802	28,303	27,102	9,775	1995	
198,135	198,135	122,647	1,682	30,642	31,721	11,442	1996	
217,117	217,117	133,143	1,761	32,515	36,526	13,172	1997	
209,707	209,707	124,895	1,580	32,913	38,842	11,477	1998	
232,433	232,433	138,929	1,730	34,581	44,824	12,369	1999	
257,826	257,826	150,455	2,037	37,103	59,522	8,709	2000	
275,696	275,696	153,799	2,257	39,212	66,517	13,911	2001	
294,486	294,486	160,547	2,271	42,279	74,411	14,978	2002	
316,259	316,259	172,962	2,331	44,572	85,110	11,284	2003	
337,617	337,617	183,783	2,475	48,617	90,286	12,457	2004	
354,780	354,780	188,937	2,601	50,875	98,460	13,907	2005	
369,283	369,283	194,976	2,534	52,530	104,463	14,780	2006	
390,394	390,394	207,753	2,433	54,194	110,199	15,814	2007	
404,841	404,841	214,129	2,277	56,244	115,405	16,785	2008	
405,543	405,543	208,420	2,174	57,650	119,080	18,219	2009	
445,616	445,616	233,761	2,191	61,554	128,108	20,001	2010	
466,702	466,702	252,792	2,246	61,961	128,878	20,825	2011	
482,783	482,783	263,767	2,250	64,025	130,732	22,009	2012	
488,311	488,311	268,894	2,168	64,380	130,356	22,514	2013	
491,442	491,442	277,019	1,999	63,155	126,903	22,365	2014	
491,752	491,752	271,539	2,217	64,065	130,574	23,357	2015	
509,810	509,810	279,365	2,689	66,500	131,075	30,181	2016	
525,792	525,792	291,041	2,864	66,936	133,805	31,146	2017	
542,924	542,924	296,534	3,080	71,161	139,731	32,418	2018	
538,488	538,488	294,540	3,156	71,104	138,410	31,278	2019	
530,001	530,001	285,367	3,154	75,953	135,675	29,853	2020	

## 18. 열

단위: 천 toe

	국내생산	일차에너지공급	일차에너지소비	전환공정	열병합 CHP Plants	열전용 Heat Plants	화학반응열 Chemical Heat for Electricity Production
	Production	Total Primary Energy Supply	Total Primary Energy Consumption	Transformation Processes			
1990	3	3	3	506	509	0	-3
1991	3	3	3	729	728	3	-
1992	2	2	2	826	829	-	-2
1993	3	3	3	973	976	-	-3
1994	3	3	3	1,543	1,491	56	-3
1995	3	3	3	2,087	1,976	115	-3
1996	3	3	3	2,538	2,517	24	-3
1997	2	2	2	2,742	2,566	178	-2
1998	9	9	9	2,471	2,344	136	-9
1999	7	7	7	3,296	3,006	298	-7
2000	10	10	10	3,430	3,281	158	-10
2001	13	13	13	3,548	3,350	211	-13
2002	14	14	14	3,654	3,438	230	-14
2003	20	20	20	4,492	4,115	397	-20
2004	19	19	19	4,902	4,548	374	-19
2005	12	12	12	4,607	4,190	428	-12
2006	17	17	17	4,603	4,204	415	-17
2007	14	14	14	4,775	4,304	485	-14
2008	38	38	38	4,807	4,373	445	-11
2009	49	49	49	4,907	4,452	468	-13
2010	16	16	16	4,406	4,283	139	-16
2011	135	135	135	4,759	4,545	232	-17
2012	124	124	124	4,863	4,637	253	-27
2013	113	113	113	4,486	4,264	246	-24
2014	68	68	68	4,771	4,523	271	-24
2015	125	125	29	5,118	4,927	219	-29
2016	117	117	117	5,659	5,268	423	-32
2017	127	127	127	5,886	5,616	306	-35
2018	68	68	68	6,215	5,837	413	-35
2019	66	66	66	6,703	6,269	471	-37
2020	73	73	73	6,840	6,397	482	-39

### 18. Heat

Unit: Thousand toe

최종소비 Total Final Consumption	최종에너지소비 Final Energy Consumption	최종에너지소비						
		산업 Industry	수송 Transport	가정 Residential	상업 Commercial	공공 Public Services		
-	-	-	-	-	-	-	-	1990
-	-	-	-	-	-	-	-	1991
-	-	-	-	-	-	-	-	1992
-	-	-	-	-	-	-	-	1993
-	-	-	-	-	-	-	-	1994
1,540	1,540	903	-	603	28	6		1995
1,910	1,910	1,102	-	761	38	10		1996
2,087	2,087	1,159	-	871	45	12		1997
1,981	1,981	1,097	-	829	42	13		1998
2,424	2,424	1,391	-	960	55	18		1999
3,338	3,338	2,130	-	1,113	70	25		2000
3,221	3,221	2,004	-	1,102	89	26		2001
3,290	3,290	2,066	-	1,118	78	28		2002
3,711	3,711	2,315	-	1,151	96	148		2003
3,765	3,765	2,315	-	1,283	128	38		2004
3,883	3,883	2,231	-	1,449	155	47		2005
3,815	3,815	2,267	-	1,367	140	42		2006
4,004	4,004	2,428	-	1,391	142	43		2007
3,870	3,870	2,201	-	1,472	154	44		2008
3,994	3,994	2,279	-	1,525	137	52		2009
4,497	4,497	2,495	-	1,788	162	52		2010
4,618	4,618	2,615	-	1,790	162	51		2011
4,444	4,444	2,246	-	1,892	250	57		2012
4,188	4,188	2,089	-	1,845	202	52		2013
4,534	4,534	2,547	-	1,766	172	49		2014
4,663	4,663	2,708	-	1,709	191	56		2015
5,069	5,069	2,943	-	1,819	243	64		2016
5,484	5,484	3,128	-	2,007	286	64		2017
5,807	5,807	3,211	-	2,182	345	69		2018
5,970	5,970	3,438	-	2,136	326	69		2019
6,255	6,255	3,598	-	2,260	335	63		2020









## 에너지 관련 용어

### ● 가스터빈(Gas turbin)

터빈기관으로서 압축된 뜨거운 연소가스가 터빈을 작동시키고, 다음으로 이 터빈은 연소공기의 압력을 증가시키기 위하여 압축기(콤프레사)를 작동시키는 것.

### ● 가채년수(Reserves/Prduction)

같은기간 확인매장량(R:Reserve)을 생산량(P: Production)으로 나눈 수치(R/P)로 현재 상태에서 향후 몇 년간 생산이 가능한가를 나타냄.

### ● 간접에너지(Indirect Energy)

가솔린, 등유, 전기, 가스 등 직접적으로 소비하는 에너지에 대하여 석유화학 제품이나, 운수, 통신, 서비스 등을 통하여 간접적으로 소비하는 에너지를 말함.

### ● 갈탄(Brown coal/lignite)

가연성, 고체, 검은색을 띤 갈색, 화석 탄화물의 침강성 퇴적물. 갈탄, 경성탄의 구분에 필요한 확실한 근거가 연구되어 확인되기 전까지는 각국에서 여러 다른 특성을 근거로하여 갈탄으로 분류되던 석탄은 열량에 관계없이(30℃, 96% 상대습도의 공기와 평형을 이룬 석탄의 총열량이 24 MJ/kg을 넘는 경우도 포함됨) 갈탄으로 분류됨.

### ● 경유(Light Oil)

원유를 증유로 얻을 수 있는 비점 200℃이상, 인화점50℃이상, 90% 유출온도 350℃ 이하의 디젤엔진용 연료유.

### ● 경질원유(Light Crude Oil)

휘발유분이 상대적으로 많고 비중이 작은 원유를 말하며, 원유는 비중이 작을수록 가솔린과 나프타등 이용가치가 높은 성분을 많이 얻을 수 있기 때문에 고품질로 여겨짐.

### ● 중질중유(B-A / Bunker-A)

경유유분 70%, B-C 유분 30%를 혼합시킨 연료유.

### ● 고에너지연료(High Energy Fuel)

종래의 석유계 탄화수소 연료에 비해 발열량 및 연소온도가 높고 추진력이 큰 연료, 수소, 베릴리움, 붕소, 리튬 등은 단위 질량당 연소열이 크며, 알루미늄, 마그네슘, 규소등은 고온화염을 내기 때문에 액체수소나 상기 원소의 수소화물 및 단체의 비분말을 탄화수소 연료에 현탁시키거나 고체연료에 섞어서 속에 넣은 것 등이 고에너지 연료임.

### ● 광물연료와 화석연료(Mineral and Fossil Fuels)

화학적 또는 물리적 반응(혹은 핵 전환)에 의해 방출되어진 에너지를 포함하고 있는 천연 광물 자원으로부터 추출되었거나 추출할 수 있는 원료로 고체연료, 액체연료, 가스 화석연료, 핵연료 등이 광물연료.

### ● 광발전(Photovoltaic)

빛에너지를 전기에너지로 변환시켜 주는 기술

### ● 국내에너지총생산(Total Primary Production Energy)

천연에너지원의 획득과(수력발전 등 1차 전력을 포함하는) 일부 전환 에너지의 생산. 즉, 연료의 일차적 생산분(채탄, 채굴 등)에서 연료 정제과정의 불활성물을 차감한 양(천연가스의 경우 생산공정에서 태워버리거나 지하로 재주입시킨 에너지분을 제외시켜야 함). 2차 에너지로의 전환공정을 거치지 않은 재생에너지와 열발생 목적으로 이용된 동식물로부터의 에너지도 포함됨. 1차 전력생산은 수력발전, 지열발전과 원자력발전을 주로 지칭하나(세계동력회의의 에너지발란스에서는 수력과 원자력발전분을 등가 1차 에너지로의 환산을 권장함), 추가로 태양광발전, 풍력발전도 포함시킴이 바람직함.

### ● 국제빙커링(International Bunkers)

국적이나 선박종류에 구분없이, 외항선박에 공급되는 연료유의 양.

주 : 외항선박이나 연안해운용, 국제선을 위시한 항공기용은 제외(현행 국내관행은 외국국적의 선박과 항공기용 연료공급을 모두 빙커링으로 분류함).

### ● 궁극매장량(Ultimate Reserves)

일정시점을 기준으로 존재했거나 존재하고 있는 자원의 매장량으로 소비된 양과 발견되어 있는 나머지, 그리고 향후 발전될 양의 합.

### ● 기체연료(Gas Fuel)

기체형태의 연료로서 천연가스, 프로판 가스, 석탄 및 석유의 가스화 연료가 있다. 기체연료의 발열량에 따라 고열가스(9,400kcal/m<sup>3</sup>, 천연가스 등), 중열가스(2,800~3,800kcal/m<sup>3</sup>, 수성가스 등) 및 저열가스(1,300kcal/m<sup>3</sup>, 발생로 가스, 용광로 가스 등)로 나뉘어짐.

### ● 근원암(Source Rocks)

석유가 생성된 것으로 간주되는 암석. 점토질 퇴적암 또는 탄산염암 퇴적암으로 어두운 색깔을 띠며, 유기물의 함량이 풍부함.

### ● 난방일수(Heating Degree Day)

24시간 동안의 평균외부 온도가 기온온도보다 낮아질 경우 두 온도간의 차이로 나타낸 실험적인 단위. 난방일수는 건물의 난방 수용을 예측하는 데 쓰임.

### ● 나프타, 납사(Naphtha)

넓은 의미로는 휘발성 석유류를 총칭하며, 좁은 의미로는 원유에서 직접 생산되는 유분으로 끓는점 범위 300℃~200℃에 있는 유분을 말함. 이중 끓는점이 100℃ 이하인 것을 경질나프타(Light Straight Run Naphtha, HSR)라 함. 경질나프타는 주로 용제 및 석유화학의 원료로 사용되며(NCC의 원료), 중질타프타는 개질시설(Reformer)을 통해 휘발유 제조나 B.T.X. 생산에 사용.

### ● 도시가스(City Gas)

도시의 중앙공급원에서 도관에 의하여 각 수요자에게 보내지는 연료가스. 근년에는 액화가스기술의 발전에 의해 천연가스를 공급하며, 천연가스는 석탄가스와 달라 독특한 일산화탄소 성분이 없고, 고열가스이므로 저장 및 수송에 있어 유리. 도시가스 성분은 단순화의 경향을 보이며, 수소연료가 개발되는 장래에는 도시가스도 그 주류가 될 것임.

### ● 등유(Kerosene)

비점 150~260℃의 원유분으로 일찍부터 등화용으로 쓰여졌기 때문에 등유라 쓰여짐. 용도로는 난방용, 주방용연료, 석유발동기용 연료, 용제, 기계세제용, 신호등유, 솔벤트 등유, 가스 터빈, 엔진용 연료 등.

### ● 매장량(Reserves)

생산을 중단하게 되는 날까지의 누적 생산량(지질학적 정의), 해당시점의 경제적·기술적 조건에서 채굴이 가능한 자원의 양(미국증권거래위원회 경제학적 정의)

### ● 메이저(International Oil Majors)

거대자본을 배경으로 채유에서 판매에 이르는 각 단계를 세계적인 규모로 완전히 장악하여 종합경영을 하는 석유회사를 메이저 또는 국제석유자본이라 하며, 엑슨, 모빌, 텍사코, 스탠다드 캘리포니아, 걸프, 브리티시 페트롤리엄(BP), 로얄 더취셀의 7개사를 7대 메이저(세븐 시스터즈)라 부르고 있음.

### ● 메탄발효(Methane Fermentation)

일반적으로 대부분의 유기물은 혐기성균의 공동작용에 의하여 분해되며, 메탄과 이산화탄소를 생성하는 발효를 말함. 제1단계는 복잡한 화합물이 간단한 화합물 특히 저급지방산으로의 분해이고 제2단계는 메탄과 이산화탄소의 분해임. 메탄발효는 제2단계 분해를 말하며 이것에 관여하는 세균을 메탄세균이라고 총칭함.

### ● 바이오가스(Biogas)

혐기적 소화작용으로 바이오매스에서 생성되는 메탄과 이산화탄소의 혼합형태인 기체를 말함. 이러한 혼합기체로부터 분리된 메탄을 바이오메탄가스라고 함. 그외 바이오가스의 형태는 퇴비가스, 습지가스, 폐기물 등의 자연적으로 생성되는 것과 제조된 가스가 있음.

### ● 바이오매스(Biomass)

바이오매스란 원래 "생물량"이라는 생태학적 용어였으나 현재는 에너지화할 수 있는 생물체량이란 의미로 사용되고 있음. 녹색식물은 태양에너지를 받아 물과 탄산가스를 이용하여 전분, 당 또는 섬유소를 합성하고 이를 식물에 저장함. 동물은 식물을 먹고 자라며 동식물은 미생물에 의하여 종국적으로 탄산가스와 물 등의 무기물로 분해되어 하나의 순환과정을 형성함. 이러한 생태계의 순환과정 중에 관련된 모든 "유기체"를 일컬어 바이오매스라 하며 이중에서 가장 많은 것이 식물 자원임.

### ● 발열량(Calorific Value)

단위량의 연료가 일정조건하에서 완전 연소한 경우에 내는 열량.

### ● 배럴(Barrel)

석유용량의 단위지만 본래는「중간이 부푼 통」의 의미. 미국 펜실베니아주의 도르크라는 사람이 1859년 처음으로 석유의 기계 채유에 성공해 550갤런의 나무통에 채워 판매함. 당시는 수송중의 취급이 조악했기 때문에 도중에 석유가 새어 42갤런 정도가 되는 경우가 많아, 이것이 현재 1배럴=42갤런의 기원이 됨. 환산율은 1배럴=42갤런 =5.6146ft<sup>3</sup>=159ℓ

### ● 배사(Anticline)

탄화수소 자원을 함유한 대표적인 지질구조. 지층이 습곡작용에 의해 오목한 바깥지를 뒤집어 놓은 모양.

### ● 비연료유(Non-Fuel Oil)

에너지발생을 위한 연료가 아닌 연료 등으로 사용되는 유종을 말하며 나프타, 용제, 아스팔트 등이 있음.

### ● 상업에너지(Commercial Energy)

소비자가 사용하기 전에 상업적인 경로를 거치는 에너지로 개발도상국에서 사용하는 임산연료(장작)는 포함되지 않음.

### ● 석유(Petroleum)

石油(돌기름), 탄화수소로 이루어진 광물성 기름으로 지하에서 채굴되며, 정제과정을 거친후에 에너지원으로 사용.

### ● 석유대체에너지(Substitute Energy for Petroleum)

석유를 대신하는 에너지의 총칭으로 원자력, 석탄, LNG, 태양에너지, 지열에너지, 바이오매스 에너지, 수소에너지 등이 있음.

### ● 석유환산톤(toe, Ton of Oil Equivalent)

에너지의 가치를 석유를 기준으로 환산할 때 쓰는 단위로 서로 다른 형태의 에너지를 비교할 수 있게 해 줌. 즉, 열량 비교를 위해 타 연료의 열량을 원유기준으로 환산한 양으로 원유 1kg=10,750kcal로 환산하며, 1 toe는 10<sup>7</sup>kcal임.

### ● 수입의존도(Rate of Dependence on Imports)

한나라의 경제가 외국으로부터의 수입에 의존하고 있는 정도를 나타내는 지표로, 평균 수입성향이라고도 함. 일반적으로 국민소득 혹은 국민총생산증 차지하는 수입액의 비율로 표시되지만, 기준시 가격에 의한 경우는 명목 수입의존도라 함.

### ● 신재생에너지(New & Renewable Energy)

석유, 석탄, 원자력, 천연가스, 수력 등 종래 사용되어온 에너지 이외에 장차 기술개발에 의하여 공급이 가능하게 될 태양에너지, 바이오매스, 동력, 소수력, 지열, 해양에너지, 수소에너지, 석탄전환연료 등을 말함.

### ● 아라비안 라이트(Arabian Light)

사우디아라비아산 원유중 API도(미국 석유회사가 규정한 비중측정단위)가 34도인 원유를 말한다. 중동 각 원유중에서 생산량이 많으며, 표준적인 상태에서 원유가격을 설정할 시의 기준원유로서 채용되고 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(Natural Gas Liquid : NGL)

가스전설비 또는 가스정제 공장의 분리기에서 액체상태로 회수되는 천연가스의 일부, 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, 상온상압에서 가스상태의 프로판, 부탄 등의 혼합기체를 가압 또는 냉각해 액화한 것. 가정용, 공업용, 내연기관용 연료, 도시가스의 원료로서 사용되고 있음.

### ● 액화(Liquefaction)

수소화 반응법, 고체연료를 이용한 기체 합성법, 또는 용매추출법등 방법으로 고체연료를 액화 탄화수소 및 기타성분들로 전환시키는 것.

### ● 액화천연가스(LNG, Liquefied Natural Gas)

지하 또는 해저의 가스전(석유광상)에서 뽑아내는 가스중 상온에서 액화하지 않는 성분이 많은 건성가스(Dry Gas)를 수송 및 저장의 용이성을 위해 액화한 것으로 보통 "천연가스"라 불리운다. 주성분은 메탄(CH<sub>4</sub>)으로 -162℃로 액화하면 체적은 원래의 1/600로 되어, 그 상태로 전용탱크에 수송되어 반지하 또는 지상의 대형 단열탱크에 저장된다. 우리나라의 경우 해외 천연가스 산지의 LNG공장에서 액화하는 것을 LNG선으로 도입하여 이를 국내 LNG공장에서 기체화한 후 파이프를 통해 발전소나 수용가에 공급하고 있음.

### ● 양수발전(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.

### ● 에너지밸런스(Energy Balance)

에너지 수급통계 작성에서의 "에너지밸런스"는 플로우(Flow)의 개념으로 일정기간동안 일정 지역 내 에너지 투입과 산출간의 균형을 나타내는 일종의 에너지 수지표. 에너지밸런스의 형태는 통상에너지원을 가로축, 에너지수급량을 세로축에 나타내는 행렬(Matrix)방식을 채택하고 있음.

### ● 에너지보존(Energy Conservation)

유한 에너지자원을 가장 효율적으로 사용하기 위해 취해야할 행동을 구체화시킨 정책을 의미함. 이러한 행동의 예로는 에너지절약, 에너지의 합리적 이용, 서로 다른 형태의 에너지간 대체 등이 좋은 예임. 에너지 보존을 위해 통제적, 보조적, 정치적, 경제적 수단이 사용된다. 주: 이 용어는 주로 국가적 차원에서 사용되며, 미시경제 차원에서는 일반적으로 에너지절약 용어가 쓰임.

### ● 에너지 수입의존도(Dependence of Energy on Overseas)

일반적으로 에너지수입 의존도는 1차 에너지공급량에서 순수입에너지의 비중을 의미하나, 국내 수입의존도는 1차 에너지소비 중 수입에너지의 비중을 의미.

### ● 에너지원(Energy Resources)

에너지로 가능한 자원을 뜻하며 열에너지, 빛에너지, 운동에너지를 얻을 수 있는 화석연료나 핵분열 및 대체에너지로서 수력발전, 태양에너지, 풍력에너지, 조력에너지, 지열에너지 등을 말함.



### ● 에너지절약(Energy Saving)

에너지 공급자와 사용자가 에너지의 낭비를 줄이기 위해 채택한 수단 또는 그로 인한 효과. 여기에서는 소극적인 방법(예:단열)과 적극적인 방법(예:폐열이나 가스의 활용) 또는 조직적인 방법(예:수송수단의 변화) 등이 있음.

### ● 에너지의 형태(Forms of Energy)

고체연료(Solid Fuels), 액체연료(Liquid Fuels), 가스연료(Gaseous Fuels), 수력전기(Hydropower), 핵에너지(Nuclear Energy), 전기에너지(Electrical Energy), 태양에너지(Solar Energy), 생물에너지(Biomass Energy), 풍력에너지(Wind Energy), 해양에너지(Ocean Energy), 지열에너지(Geothermal Energy), 핵융합(Nuclear Fusion) 등 성상에 따라 분류

### ● 에너지 탄성치(Energy Elasticity)

에너지의 수요규모와 경제성장률은 한나라의 경제규모, 산업구조, 국민생활등과 밀접한 연관이 있음. 에너지탄성치는 경제성장률과 에너지소비증가율의 비임. 일반적으로 에너지사용의 효율이 높을수록 이 수치는 작게 됨.

### ● 에너지효율(Energy Efficiency)

에너지변환기(엔진, 녹색식물, 터빈 등)에 있어서 소비된 에너지에 비해 실질적인 유효에너지로 사용된 부분은 얼마나 되는가이며, 이는 에너지의 변환, 이차에너지의 수송율(손실율을 뺀 것), 이용계에 있어서 변환용의 3단계에 의해 결정됨.

### ● 역청탄(Tar Sand / Oil Sand)

역청이나 높은 점성의 다른 원유를 함유하고 있는 퇴적암. 일반적인 생산방법은 함유된 원유를 채유할 수 없음.

### ● 연료가스(Fuel Gas)

연료가스는 환경이 허용할 수 있는 연료로서 석유와 석탄 등을 원료로 해서 가스화에 의하여 얻어짐.

### ● 연료유(Fuel Oil)

석유제품중 에너지발생을 위한 연료로 사용되는 유종을 말하며 이에는 휘발유, 등유, 경유, B-C유, 제트유가 포함됨. 통상 석유제품은 연료유, LPG, 비연료유로 구분됨.

### ● 연료전지(Fuel Cell)

연료(주로 수소)와 산화제(주로 산소)를 전기화학적으로 반응시켜 그 반응에너지를 전기로 직접 빼내는 직류발전장치. 연료의 연소에너지를 열로서가 아니고, 전기에너지로서 이용하는 것으로서, 전기자동차용 연료전지나 연료전지발전소 등의 고성능이고 경제성이 뛰어난 연료전지의 개발이 추진되고 있음.

### ● 열량(Heat Quantity of Heat)

고온의 물체에서 저온의 물체로 이동하는 에너지의 일종으로, 역학적 일과 구별하여 내부에너지의 변화를 가져오는 에너지를 열이라고 하고, 그 출입량을 열량이라 함.

### ● 열병합발전(Cogeneration / Co-Gen)

발전을 통하여 전력을 생산함과 동시에 고압 스팀 및 온수를 생산하는 시설을 말함. 단순히 전력만을 생산하는 것과 비교해 보면 2배 가까운 열효율(약 60%~70%)을 얻을 수 있음.

### ● 열에너지(Thermal Energy)

에너지 형태의 하나로써 열에너지의 대부분은 증기기관과 내연기관과 같은 열기관에 의하여 역학적 에너지로 바뀌어 이용되는 외에 난방, 조리, 온수 등의 가장 많이 이용되고 있는 기본적인 에너지임. 역학적 에너지는 마찰열 등의 방법으로 100% 모두 열에너지로 바뀜. 모든 에너지는 최종적으로 열에너지로 전환되어 방출됨.

### ● 열효율(Thermal Efficiency)

공급된 열에너지에 대한 열에너지의 비율을 열효율이라고 함. 보일러 등의 여열 이용설비에서의 흡수열량, 소각에 의한 발생열량에 대한 비율을 %로 나타내어 열효율로 함.

### ● 유효에너지(Useful Energy)

최종소비자가 자신이 가지고 있는 장치를 통해 마지막 변환을 거친 다음 사용하는 에너지로 열, 동력, 빛 등임.

### ● 예상매장량(Probable Reserves)

물리탐사와 탐사정 시추에 의해 확인된 저류암과 석유의 특성에 의해서 계산된 매장량. 개발기술이나 장비의 발달에 따라 변동함.

### ● 오일샌드(Oil Sand)

원유를 포함한 다공질의 사암으로, 원유가 천연아스팔트화 되어 있는 것은 타르샌드라고도 함. 열처리 또는 기타 방법으로 원유를 추출해 정제하면 보통의 석유에 가까운 것이 얻어짐. 종래 개발비용이 높았기 때문에 그다지 실용화되지 않았었지만 석유위기 후 원유가격 급등에 의해 실용화가 추진됨.

### ● 오일 쉘(Oil Shale)

해모 공암이라고 하며, 역청질의 고분자화합물을 포함한 공암으로 건류에 의해 석유와 같은 성질의 기름이 얻어짐. 미국에 특히 많이 매장되어 있고 세계 도처에 비교적 널리 분포되어 있음. 원유회수와 잔해의 처리에 비용이 많이 들기 때문에 실용화되지 않았지만 최근 기술진보와 석유위기 이후의 원유가격 폭등으로 주목받고 있음.

### ● 옥탄가(Octane Number)

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

### ● 온실효과(Greenhouse Effect)

대기중의 기체가 지표면으로부터 방출되는 적외선을 흡수해 우주공간으로 달아나는 열을 지표면으로 되돌리기 때문에 온도가 상승하는 현상. 적외선을 흡수하는 기체로는 주로 수증기, 이산화탄소, 메탄가스 등이 있으며 온실효과가스가라 함. 근래에 인류의 에너지 소비확대에 따라 이산화탄소를 중심으로 하는 온실효과가스가 증가하고 있으며, 기후온난화의 가능성이 지적되고 있음.

### ● 원유(Crude Oil)

천연산 광물성 기름으로서, 다양한 종류의 탄화수소로 되어있음. 상압증류 후에 잔류하는 파라핀 왁스나 역청의 함유량에 따라 파라핀계, 아스팔트계, 혼합계로 나누어짐. 현재의 전문용어상으로 원유(Petroleum)는 액체탄화수소뿐만 아니라 기체나 고체 탄화수소도 포함.

### ● 1차에너지(Primary Energy)

자연이 제공한 그대로의 가공하지 않은 에너지. 나무, 석탄, 석유, 천연가스, 우라늄은 재생될 수 없는 형태에 해당하고, 수력, 태양열, 풍력, 바이오매스, 지열, 조력 등의 에너지는 재생 가능한 형태에 해당함.

### ● 1차에너지 공급(Primary Energy Supply)

에너지 국내생산 및 순수입, 재고의 증감을 포함한 소비량으로 최종 에너지소비와 전환손실을 합한 양.

### ● 잠재적 개발가능 매장량(Potentially Exploitable Deposit / Potentially Exploitable Resource)

장래에 경제적으로 개발할 가치가 있다고 추정되는 매장물이나 자원

### ● 저온 코크스(반성 코크스)(Low Temperature Coke(semi coke))

500~800℃사이의 저온에서 석탄을 건류하고 남은 고체 잔유물 갈탄의 경우 건류온도는 400~600℃이며 토탄의 경우는 350~550℃를 최저온도로 함.

### ● 저유황 중유(중유, B-C유, 연료유)(LS B-C / Low Sulfur B-C)

유황성분 1.0wt% 이상의 B-C유를 말하며 주로 보일러 연료, 발전소 연료등으로 사용함.

### ● 전략비축유(Strategy Petroleum Reserve)

공급중단(경제붕쇄, 금수조치, 사고 등)에 일시적으로 대처하기 위해 비축해 두는 석유로 선진국의 경우 약 3개월분 전략비축유로 보유함.

### ● 전력예비율(Reservation Margin)

전력예비율이란 총 전력공급능력에서 최대전력수요를 뺀 것을 최대전력 수요로 나눈 것.

$$\text{전력예비율} = \frac{\text{총공급전력능력} - \text{최대전력수요}}{\text{최대전력수요}} \times 100$$

전력예비율은 당시 쓰이고 있는 전기보다 얼마나 추가전력을 더 공급할 수있느냐를 보여주는 수치로 예컨데 현재 100만큼의 전기를 생산해 공급할 수 있는데 소비되고 있는 전력은 80이라고 치면 이때 20만큼의 전기공급 시설은 쓰이지 않고 남아 있는 것으로, 전력 예비율 25%임.

### ● 제1차 석유위기(The First Oil Crisis)

1978년 당시 세계 제2의 석유수출국인 이란 국내에 정국불안이 일어나, 석유수급이 어려워졌음. 1979년 초에는 이란에 신정권이 탄생하여 원유생산의 억제정책을 폈고 이에 다른 아랍제국도 추종하여 동시에 가격이 이상된 시기, 1980년 초에는 석유의 공사가격이 전년에 비해 두배이상 폭등하였으며, 이를 제1차 석유위이라 함.

### ● 제트유, 여객기용(JA-1 / Jet A-1)

주로 민간 여객기에 사용하는 연료유로 등유유분에 여러 가지 첨가제를 넣어 만들.

### ● 제트유, 전투기용(JP-4)

주로 군용 전투기에 사용하는 연료유로 등유와 나프타를 각각 50%씩 혼합한 유분에 여러 가지 첨가제를 넣어 만들.

### ● 제트유, 전투기용(JP-8)

주로 군용 전투기에 사용하는 연료유로 JA-1과 같이 등유유분에 여러 가지 첨가제를 넣어 만들며, JP-4에 비해 안정성이 우수함.

### ● 중간유분(Middle Distillate)

원유에서 정제된 각 제품중 가솔린, 나프타를 경질유분, B, C, 중유를 중질유분이라고 말하는 데 대하여 등유, 경유, A 중유를 중간유분이라고 말함.

### ● 중유(Heavy Oil)

원유를 증류해 가솔린과 등유, 경유 등을 추출한 후에 남는 상압잔사유에서 얻어진다. 인화점이 높은 연료유.

### ● 중유(B-B / Bunker-B)

경유유분 30%, B-C 유분 70%를 혼합시킨 연료유.

### ● 중질(重質)원유(Heavy Distillate)

원유는 비중에 따라 경질(輕質), 중질(中質), 중질(重質) 원유로 구분된다. 중질원유로서는 아라비아헤비를 포함한 이란 헤비, 쿠웨이트, 카프지원유를 들 수 있음.

### ● 줄(Joule)

에너지, 일, 열량의 정도를 나타내는 기본 단위로 1J=0.239007cal

### ● 지역냉난방(District Heat and Cooling)

일정지역의 다수의 건물에 동시에 냉난방을 하는 방식. 가정의 집중난방이나 빌딩의 공기조절을 지역적으로 확대한 것으로 중앙에 냉난방 플랜트를 만들어 거기서 파이프를 통하여 주변의 빌딩에 냉난방기능을 공급함.

### ● 지열(Geothermy)

지열은 지하의 물체가 갖는 열을 말함. 지열은 지구가 생성될 때있던 열로 아직 방열되지 않은 상태이거나 우라늄이나 토륨 같은 방사선원소의 붕괴에 의하여 생기는 것으로 추정. 일본과 같이 화산이 많은 고온지열지대는 지하에 용융암석의 활동에 의한 것으로 여기에 물을 주입하여 증기를 생산하고 이것으로 증기터빈을 돌려서 발전에 이용할 수가 있고 이런 시스템을 지열발전소라고 함. 보통 화산이 없는 지대에서는 약 3000미터 지하로 들어가면 약 섭씨 100도가 되어 지역에 따라서는 이보다 온도가 높을 수 있음. 파리 같은 곳에서는 약 1500미터 정도에서 약 70도 전후의 열을 퍼올려 지역난방에 이용.

### ● 천연가솔린(NGL / Natural Gas Liquid)

거의 나프타로만 구성된 원유로 천연가솔린이라고 불리기도하며 주로 천연가스전에서 천연가스를 생산하는 가운데 생산됨. 나프타가 주성분이면서 소량의 LPG유분, 등유 유분, 경유 유분을 포함하고 있는 Condensate와는 달리 거의 나프타로만 구성되어 있어 아주 간단한 처리를 거치거나 또는 처리를 거치지 않고 바로 나프타로 사용할 수 있음.

### ● 천연가스(Natural Gas)

주로 메탄으로 구성되며, 지하 저장층에 천연으로 부존함.

### ● 천연에너지(Natural Energy)

기술적 혹은 경제적 개발의 가능성을 고려하지 않는 천연적으로 발생하는 모든 에너지형태와 원천.

### ● 최종에너지(Final Energy)

유효에너지로 변환되기 위해 소비자에게 제공되는 에너지.

### ● 최종 에너지소비(Final Energy Consumption)

최종에너지 소비자에게 공급된 에너지량으로 전환손실 및 에너지산업체의 자체소비는 제외함.

### ● 추정매장량(Possible Reserves)

생산성 시험에 의해 석유의 부존이 확인되지는 않았지만, 현재까지의 자료에 의하면 석유의 부존과 생산이 가능한 곳의 매장량.

### ● 코크스(Coke)

석탄을 공기가 없는 상태에서 열을 가함으로써 얻는 고체연료.

### ● 코크 오븐 가스(Coke-oven Gases)

코크 오븐에서 생성되는 가스

### ● 콘덴세이트(Condensate)

일부 천연가스에 섞여 나오는 경질의 휘발성 액체 탄화수소로 여러 가지 의미가 혼용되고 있으나 일반적으로 콘덴세이트라 함은 API 40-50도 이상의 초경질 원유를 말하며 주성분은 나프타이고 소량의 중간유분(등유유분 및 경유유분) 및 잔사유분을 함유하고 있음.

### ● 탄력성(Elasticity)

동일기간에 독립변수가 변화할 때 종속변수가 변화하는 정도.

### ● 탄화(건류)(Carbonization(drying))

공기가 없는 상태에서 유기원료를 가열하여 코크스와 조 석탄 가스 및 조 타르를 얻는 것.

### ● 태양열발전소(Solar Thermal Power Station)

태양열을 열 매체에 전달하여 수집된 열에너지를 전기에너지로 바꾸도록 설계된 발전시설.

### ● 태양전지(Solar Photovoltaic Cell)

광기전력효과(photovoltaic effect)를 응용함으로써 태양에너지를 직접 전기에너지로 변환할 수 있는 소자. 광기전력 효과에서와 같이 태양광에 의해서 발생된 전하운반자(Carrier)는 내부전기장에 의하여 외부회로를 통하여 흐르게 됨.

● 탱크로리(Road tanker / Tank truck)

석유제품과 같은 액체화물의 수송을 위한 차량.

● 터빈(Turbine)

기관의 하나로서 작동 매체를 터빈축차의 회전 날개에 부딪치게 함으로써 동력축에 동력을 공급하는데 필요한 회전동작을 얻는 것.

● 토탄(Peat)

가연성, 연성, 다공성이거나 압축성, 수분함량이 높은 식물성의 화석 퇴적물(최고 90%까지의 높은 수분함량). 쉽게 부서지고 연한 갈색에서 짙은 갈색.

● 폐열의 이용(Utilization of Waste Heat)

쓰레기 소각로의 폐기물이용은 폐열보일러에서 발생하는 증기 또는 온수의 열로 쓰여짐. 증기이용법으로는 발전, 냉·난방, 공장프로세스 증기용으로 사용된다. 또 온수는 공장내의 급탕, 목욕탕용, 냉난방용, 수영장 등에 사용.

● 프로판(Propane)

분자식 C<sub>3</sub>H<sub>8</sub>의 파라핀계 탄화수소로, 일반적으로 석유정제나 천연가스 생산시 부산물로 얻어지는 가스이며 부탄가와 함께 LPG로 불리며, 중질유 분해나 접촉개질, 천연가스 생산시 부산물로 생산되기도 함. 프로판은 주로 가정에서 취사나 난방에 사용하는 LPG로 천연가스가 공급되지 않는 지역에서는 도시가스로도 사용됨.

● 하이브리드카(Hybrid car)

두가지 에너지 발생방법을 결합한 차량으로 현재는 내연기관과 전기 배터리를 결합한 형태를 선호함.

● 항공휘발유(Aviation Gas / Aviation Gasoline)

제트엔진을 사용하지 않는 소형경량 항공기의 엔진은 자동차의 휘발유엔진(피스톤 엔진)과 같은 구조로 되어있으며 이 엔진에 사용되는 휘발유를 말함. 항공기의 엔진은 자동차의 엔진에 비해 압축비가 높고, 고속으로 회전하며, 지상보다 조건이 까다로운 고공에서 운전되므로 이에 사용되는 휘발유는 고옥탄가가 요구될 뿐만아니라 기타 출력, 휘발성, 산화안정성, 어는점 등의 규격이 일반 자동차용 휘발유보다 까다로움.

● 핵연료(Nuclear Fuel)

우라늄이나 플루토늄 등 중성자에 의한 핵분열을 일으켜 에너지를 발생하는 물질을 함유하는 것을 말함. 이들을 원자로안에 넣어서 핵분열 연쇄반응에 의하여 에너지를 발생시킴.

### ● 현물가격(Spot Price)

일반적으로는 상품을 현물거래하는 경우의 가격을 말함. 장기계약 등에 의하지 않기 때문에 수급의 상태에 따라 가격이 변함. 최근에는 원유가격에 대해 쓰이는 일이 많으며 원유의 현물시장에서 거래되는 원유가격임.

### ● 화석연료(Fossil Fuel)

태고의 생물이 지각층에 매장되어 연료로 되어 사용되어지는 천연자원을 총칭해 화석연료라 부름. 통상 석탄, 석유, 천연가스의 탄수화물을 지칭하며, 1차 에너지원으로서의 수력, 지열, 우라늄 등과 구분.

### ● 확인매장량(Confirmed Reserves)

현재의 기술로써 채굴할 수 있고, 소재가 명백하고, 경제적으로 균형이 맞는 매장량. 물, 가스의 주입등 2차적 수단에 의한 회수가능분까지도 포함하는 것이 보통임.

### ● API(American Petroleum Institute)

원유나 석유제품의 비중을 나타내기 위한 지표로서, 미국석유협회(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)

연간 총 처리물량을 연간 실제 가동일수로 나눈 값으로 시설의 규모를 표시할 때 주로 사용함. 일반적으로 모든 시설은 1-2년에 한 번씩 정기보수를 위해 가동을 중지하며 1년중 평균 가동일수를 계산하여 처리용량을 산출함으로써 하루에 실질적으로 처리가능한 규모를 표시함. 보통 연간 가동일수는 330일 또는 365일의 90%를 기준으로 함.

### ● BPCD(Barrel Per Calendar Day)

연간 총 처리물량을 365일로 나눈 값으로 시설의 생산능력보다는 제품의 수요 등을 표시할 때 사용.

### ● BTU(British Thermal Unit)

열량을 나타내는 단위의 하나로 1BTU=252cal

### ● CIF(Cost, Insurance and Freight)

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



### ● D. D 원유(Direct Deal Crude Oil)

직접거래 원유. 산유국이 개발한 원유, 합병·정부·PS방식에 의한 원유, 로알티의 현물 지분원유 등을 메이저를 비롯 외국의 석유회사를 통하지 않고 소비국의 석유회사와 직접 거래하는 것을 말함.

### ● G.G 원유(Government to Government Crude Oil)

정부간의 거래원유를 말함. 산유국의 지분원유에 대하여 산유국 정부 내지 국영석유회사와 소비국정부 또는 국영석유회사가 메이저 등의 석유회사를 개입시키지 않고 직접 거래를 행하는 경우의 대상원유임.

### ● FOB(Free on board)

본선인도가격이라고 불리며 CIF와 더불어 가장 많이 이용되는 무역조건. 이 조건에서는 구매자의 본선에 화물을 적재할 때까지의 비용과 위험을 판매자가 부담함.

### ● GDP(Gross Domestic Product)

국내 총생산, 국민소득의 크기를 측정하는 데에는 2가지 방법이 있음. 그 나라의 거주자가 소유한 생산요소로부터 발생한 소득인 국민 총생산(GNP)을 이용하는 경우와 그 나라의 영역내에서 생산된 소득의 국내총생산(GDP)을 이용하는 경우가 있음. 대외투자가 많이 차지하는 나라에서는 이자, 배당, 이윤 등 해외로부터의 요소소득이 큰 경우 GNP는 GDP보다 크다.  $GNP = GDP - [\text{해외로부터의 순소득(국민의 해외로부터의 소득} - \text{국민의 해외로의 지출}]$

### ● GNP(Gross national Product)

국민 총생산, 국민경제가 일정기간에 생산한 최종생산물의 가치액의 합계. 이중계산을 피하기 위해 총생산으로부터 원재료, 중간생산물의 가치액을 공제한 것으로 현실의 시장가격으로 표시.

### ● IEA(International Energy Agency)

국제 에너지기구의 약칭. 제1차 석유위기 후의 국제에너지 정세에 대응해 가기 위해 미국의 제창에 의해 1974년 11월에 설립된 석유소비국의 국제기구. 사무국은 파리의 경제협력개발기구 본부내에 있으며, 현재 가맹국은 28개국. 설립당초는 OPEC의 원유공급 삭감과 가격인상에 대응하는 것이 큰 목적이지만, 최근에는 비상시의 석유유통과 대체에너지 개발협력 등에 중점을 둬.

### ● IPCC(Intergovernmental Panel on Climate Change)

기후변동에 관한 정부간 패널 인간활동의 확대에 수반된 대기환경의 변화가 기후, 식량, 에너지, 수자원 등 사회 모든분야에 중대한 영향을 미치고, 경제의 지속적 성장을 저해할 지도 모른다는 공통인식하에 구체적 대처를 검토하는 정부간 회의. 1988년 11월 제1회가 제네바에서 개최되어 3개의 위원회가 설치됨. 이 활동은 21세기 에너지정책과 환경정책의 지침이 됨.

### ● LSWR (Low Sulfur Waxy Residue)

저유황 고유동점의 연료유(B-C)를 말함. 유황함량은 보통 0.3wt%이하로 초저유황이나 왁스성분을 다량 함유하고 있어 상온에서는 고체로 굳어지기 때문에 사용 또는 저장하기 위해서는 별도의 보온시설이 필요함.

### ● MTBE (Methyl Tertialry Butyl Ether)

이소부틸렌(iso-Butylene) 형태의 올레핀과 메탄올을 반응시켜 생산되는 화합물로 분자에 산소원자를 함유하고 있어 질소산화물, 일산화탄소 등의 발생을 줄일 목적으로 휘발유 Blending에 사용됨. 옥탄가가 약118로 매우 높아 휘발유의 옥탄가 향상에도 기여함.

### ● NEDO(New Energy and Industrial Technology Development Organization)

일본의 신에너지 산업기술종합개발기구 두차례의 석유위기로 탈석유대책의 필요성이 고양되었으며, 원자력 이외의 에너지중 실용화 전망이있는 석유대체에너지의 효율적인 연구개발과 재정적인 지원을 목적으로 1980년 정부출자를 중심으로 설립. 석탄의 가스화·액화, 태양광발전, 풍력, 연료전지, 신형전지저장시스템, 지열 등의 기술개발 이외에 석탄광업합리화사업, 알콜제조사업을 하고 있음. 1993년 3월 에너지절약법 개정에 따라 에너지사용합리화를 위한 기술개발, 기술보급에 필요한 보조금의 교부, 정보 수집·제공 및 기술지도 등의 업무가 추가되었음.

### ● 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 30개국이 가입해 있음.

### ● OPEC(Organization of Petroleum Exporting Countries)

석유수출기구 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 있는데 산유국간의 석유정책협조와 이를 위한 정보수집, 의견교환 등에 목적을 두고 있음.

### ● WTI(West Texas Intermediate)

미국에서 생산되는 대표적인 원유. 뉴욕상품거래소에서 이루어지는 선물거래의 주요상품의 하나로 북해 브렌트원유와 함께 구미 석유시장의 지표가 됨.



승인(협의)번호  
제 339001 호

## 에너지통계연보

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