

# 에너지통계월보

## 2022/02

Monthly Energy Statistics

2021년 11월 자료

Data up to November 2021





## 약어 및 부호 Abbreviations and Conventional Signs

**kcal** : Kilocalorie(킬로 칼로리)

**GWh** : Gigawatt hour(기가와트아워)

**MWh** : Megawatt hour(메가와트아워)

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

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

**BPSD** : Barrel per Stream Day

**CIF** : Cost, Insurance and Freight

**FOB** : Free on Board

- Nil(없음)

**p** Preliminary(잠정값)

... Not available(해당없음)

**e** Estimate(추정값)

## 열량환산계수 적용안내

에너지법 시행규칙 제5조제1항에 의거

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



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# 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)

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)

# 1. 일러두기 Explanatory Notes

## 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.

• 집계 대상 범위 확대

- 1998년 수치부터 적용

\* 기존: 3개 집단에너지사업자(한국지역난방공사, 서울에너지공사, GS파워)의 지역냉·난방 열 생산 및 판매량 자료만 반영

\* 변경: 「집단에너지사업법」(한국에너지공단)의 지역냉·난방부문 열생산 및 판매량을 모두 반영

## 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 경제·사회지표-8.8 가계동향」 변경

- 「2020년 1/4분기 가계동향조사 보도참고자료」참조\*

## 마. 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

# 1. 일러두기 Explanatory Notes

- 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

## 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



## 2020년 1/4분기 가계동향조사 보도참고자료

〈가계동향조사 통합 작성 배경 및 내용〉

### 1) 통합 작성 배경

- 통계청은 가계동향조사(~2016년)를 기존 가계수지조사에서 가계지출통계로 특화하여 연간주기 통계로 재편('16.末)
  - 이를 통해 지출과 소득통계를 각각의 통계작성 목적에 가장 적합한 조사체계로 개편\*하여 통계의 정확성 제고 및 응답부담 경감 도모
    - \* 소득통계는 행정자료를 통해 소득을 보완할 수 있는 가계금융복지조사로 대체
- 2017년 이후 학계와 주요 정책부처를 중심으로
  - ① 시의성 있는 가계경제 진단을 위한 동향통계의 필요성
  - ② 가계소득과 지출을 연계(평균소비성향, 흑자율, 소득계층별 지출실태 등)하여 종합분석이 가능한 기초자료 요구가 지속

### 2) 주요 추진방향

- 가구소득과 지출을 연계하여 가계수지 진단 및 종합분석이 가능한 분기 가계동향통계 생산
  - ① (표본설계) 가계소득-지출조사 전용표본 체계를 통한 고소득층 포착 강화 및 통계의 정확성 제고
  - ② (표본체계) 6-6-6 연동표본 운영을 통해 표본가구의 응답부담을 기존 36개월에서 12개월로 1/3수준으로 경감
  - ③ (조사방법) 가계부 조사방법을 통해 가계 소득 및 지출을 동시 파악

### 3) 주요 추진경과

- 분기 소득동향통계 작성 재개 및 소득-지출 연계방안 검토('17.12월)
- 소득·지출통계 통합 관련 1~3차 외부전문가 회의 실시('18.4월, 7월, 8월)
- 국가통계위원회 사회통계분과위원회 안건 상정('18.10.5.)
- 국가통계위원회 본회의 안건 상정('18.11.16.)
- 2019년도 국회 예산심의 업무설명('18.9~12월)
- 2019년 가계동향조사 통합조사 실시('19.1월~)

#### 4) 개편 전후 비교표

•분기 소득동향통계 작성 재개 및 소득-지출 연계방안 검토('17.12월)

구분		~2016년	소득부문(분기)	지출부문(연간)	2019년 <sup>1)</sup> 2)~
			2017년~2019년 <sup>1)</sup>	2017년~2018년	
조사대상		일반가구 (농림어가 제외)	일반가구 (농림어가 제외)	일반가구 (농림어가 포함)	일반가구 (농림어가 포함)
표본설계		경제활동인구조사 다목적 표본	경제활동인구조사 다목적 표본	전용표본	전용표본
표본규모 (적격기준)		월 약 8,700가구	2017년 월 약 5,500가구 2018-19년 월 약 8,000가구	월 1,000가구(1/12 순환) 연간 약 12,000가구	월 약 7,200가구
조사표		가계부	면접조사표	가계부, 연간조사표	가계부
조사기간		36개월	36개월	1개월	12개월(6-6-6) <sup>3)</sup>
조사 항목	가구 실태	거처종류, 점유형태, 보증금(월세), 월세평가액, 주거면적, 자동차, 가구 원별 종사상지위·성·연령·직업·산업	-좌동-	거처종류, 점유형태, 보증금(월세), 월세평가액, 주거면적, 자동차, 가구원별 종사상지위·성·연령, 가구주의 직업·산업	거처종류, 점유형태, 보증금(월세), 월세평가액, 주거면적, 자동차, 가구원별 종사상지위·성·연령·직업·산업
	소득	당월 경상소득(근로, 사업, 재산, 이전)·비경상소득	-좌동-	전년 경상소득(근로, 사업, 재산, 이전)	당월 경상소득(근로, 사업, 재산, 이전)·비경상소득
	지출	소비지출, 비소비지출	비소비지출	소비지출, 비소비지출	소비지출, 비소비지출
분기 공표 항목	소득	경상소득(근로, 사업, 재산, 이전), 비경상소득	-좌동-	-	경상소득(근로, 사업, 재산, 이전), 비경상소득
	지출	소비지출, 비소비지출	비소비지출	-	소비지출, 비소비지출
	가계수지	흑자율, 소비성향, 처분가능소득	처분가능소득	-	흑자율, 소비성향, 처분가능소득
	가계수지	5분위 배율	5분위 배율	-	5분위배율
연간 공표 항목	소득	경상소득(근로, 사업, 재산, 이전), 비경상소득	-4)	-5)	-5)
	지출	소비지출, 비소비지출	-	소비지출, 비소비지출	소비지출, 비소비지출
	가계수지	흑자율, 소비성향, 처분가능소득	-	-	-
	소득분배	5분위 배율, 빈곤율, 지니계수	-4)	-	-

주: 1) 기존 분기소득조사와 개편된 가계동향조사 병행 실시

2) 2019년 조사결과는 2020년 1/4분기 결과 공표 시 소급하여 공표

3) 표본가구로 선정되면 6개월 동안 연속하여 조사를 한 후, 6개월의 휴식기간을 두고 다시 6개월 동안 조사를 진행

4) 2017년 공식 연간소득통계 및 소득분배지표는 가계금융복지조사로 이관('17.12.)

5) 가구특성(소득 5분위, 소득구간별 등)으로만 사용

※ 본 저작물은 통계청에서 2020년 작성하여 공공누리 제1유형으로 개방한 「2020년 1/4분기 가계동향조사 보도참고자료(담당부서: 사회통계국 가계수지동향과)」를 이용하였으며, 해당 저작물은 '통계청(kostat.go.kr)'에서 무료로 다운받으실 수 있습니다.

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

### 마. 단위의 배수

명 칭	기 호	크 기
Tera	T	10 <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

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

※ 세계평균비중

## 사. 원유환산표

구 분	톤 (메트릭톤)	롱 톤	숏 톤	배럴	입방미터 (㎥)	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(㎥)	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(2017)

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)	Nm³	43.1	10,290	1.029	38.9	9,290	0.929
	액화석유가스(LPG)	Nm³	63.6	15,190	1.519	58.4	13,950	1.395
석탄 (7종)	국내무연탄	kg	19.8	4,730	0.473	19.4	4,630	0.463
	연료용 수입무연탄	kg	21.2	5,060	0.506	20.5	4,900	0.490
	원료용 수입무연탄	kg	25.2	6,020	0.602	24.7	5,900	0.590
	연료용 유연탄(역청탄)	kg	24.8	5,920	0.592	23.7	5,660	0.566
	원료용 유연탄(역청탄)	kg	29.2	6,970	0.697	28.0	6,690	0.669
	아역청탄	kg	21.4	5,110	0.511	19.9	4,750	0.475
	코크스	kg	29.0	6,930	0.693	28.9	6,900	0.690
전기 등 (3종)	전기(발전기준)	kWh	8.9	2,130	0.213	8.9	2,130	0.213
	전기(소비기준)	kWh	9.6	2,290	0.229	9.6	2,290	0.229
	신탄	kg	18.8	4,500	0.450	-	-	-

- 주 1) “총발열량”이란 연료의 연소과정에서 발생하는 수증기의 잠열을 포함한 발열량을 말한다.  
 2) “순발열량”이란 연료의 연소과정에서 발생하는 수증기의 잠열을 제외한 발열량을 말한다.  
 3) “석유환산톤”(toe: Ton of oil equivalent)이란 원유 1톤이 갖는 열량으로 10<sup>3</sup>kcal을 말한다.  
 4) 석탄의 발열량은 인수식을 기준으로 한다.  
 5) 최종에너지사용자가 사용하는 전기에너지를 열에너지로 환산할 경우에는 1kWh=860kcal을 적용한다.  
 6) 1cal=4.1868J, Nm³은 0℃ 1기압 상태의 단위체적(세제곱미터)을 말한다.  
 7) 에너지원별 발열량(MJ)은 소수점 아래 둘째 자리에서 반올림한 값이며, 발열량(kcal)은 발열량(MJ)으로부터 환산한 후 1의 자리에서 반올림한 값이다. 두 단위 간 상충될 경우 발열량(MJ)이 우선한다.

## 나. 총발열량 추이

에너지원		단위	총발열량(kcal)							'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

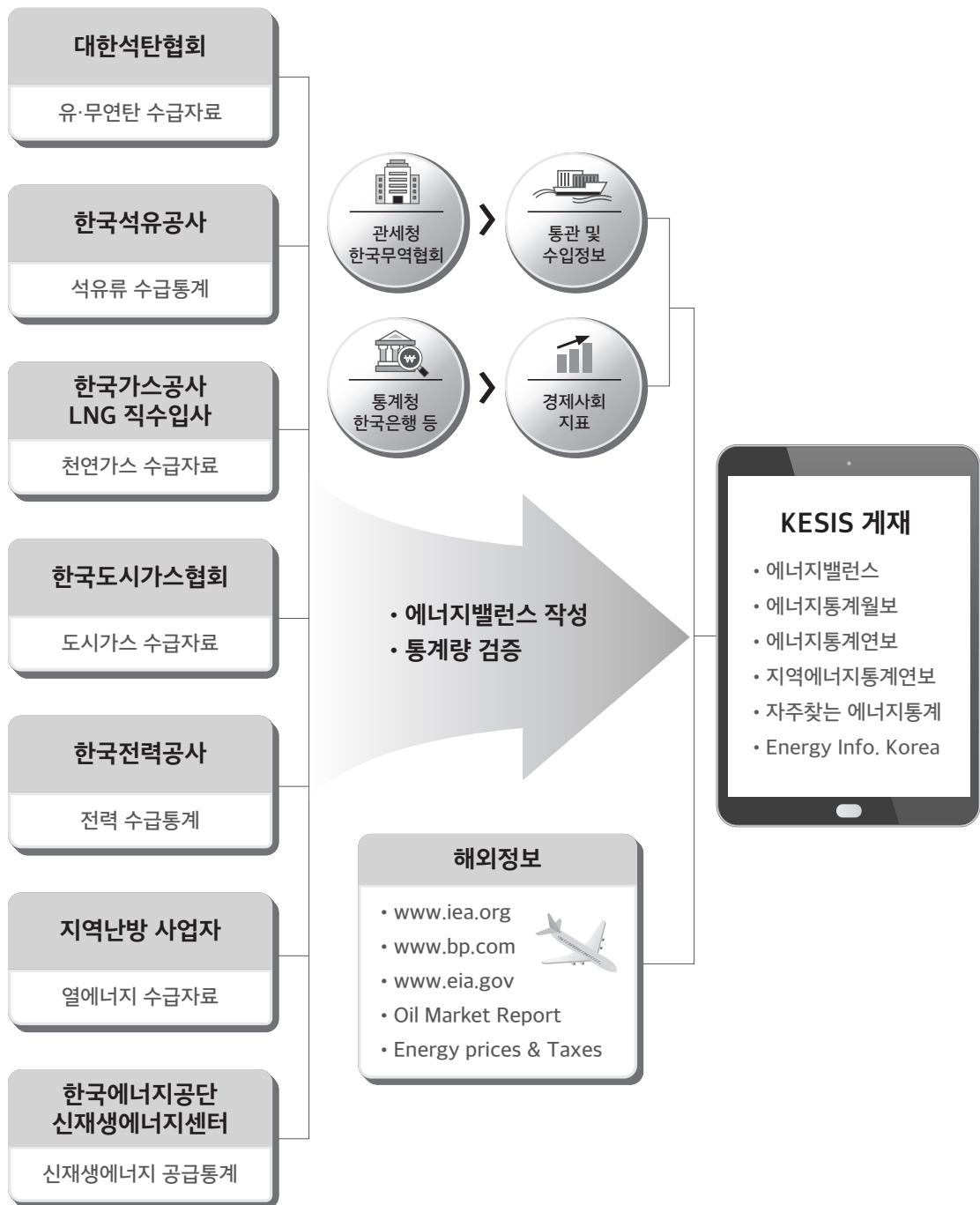
- 에너지생산 및 수·출입 : 국내생산, 수입, 수출, 국제버커링, 재고 등
- 1차에너지 공급 및 전환(발전, 지역난방, 가스제조, 자가소비 및 손실)
- 최종에너지 소비
  - 산업부문 : 농림어업, 광업, 제조업(11개업종), 건설업
  - 수송부문 : 철도운수, 육상운수, 수상운수, 항공운수
  - 가정·상업·공공 : 가정, 상업, 공공

### 마. 결과 공표

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



## 바. 에너지수급통계 작성 체계





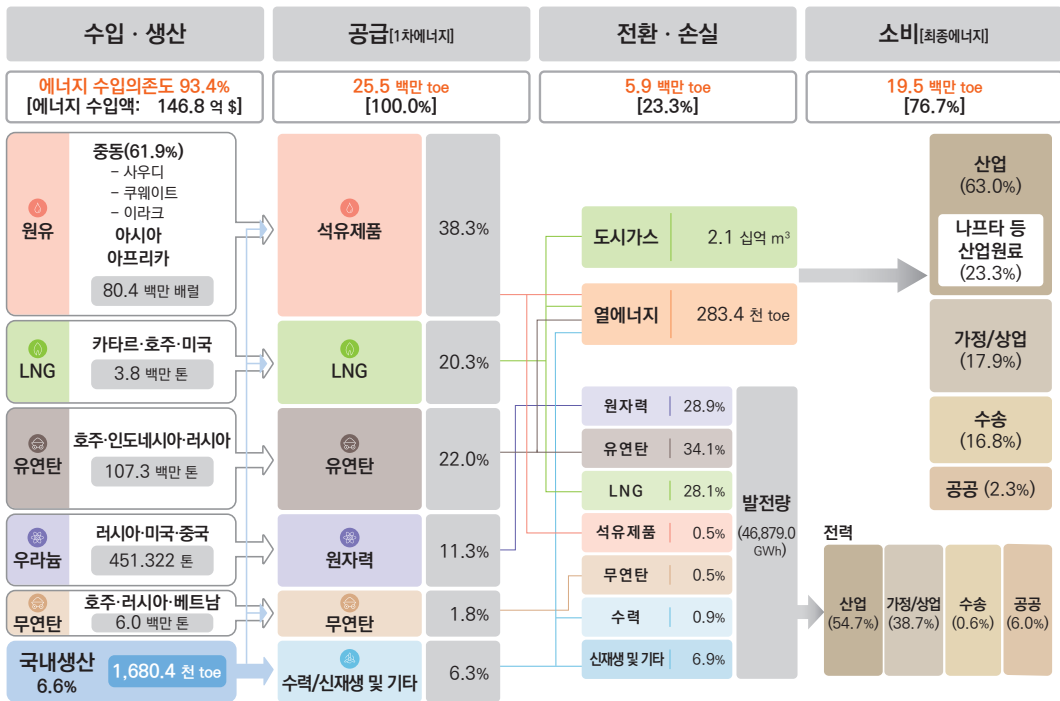
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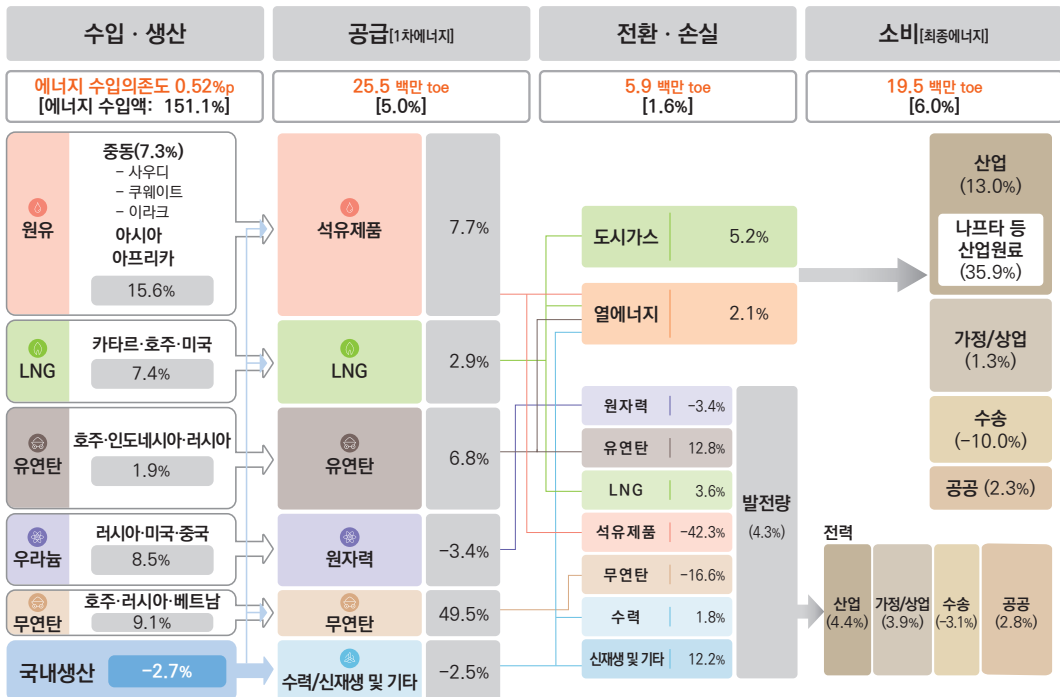
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## 2021년 11월 에너지밸런스 플로우

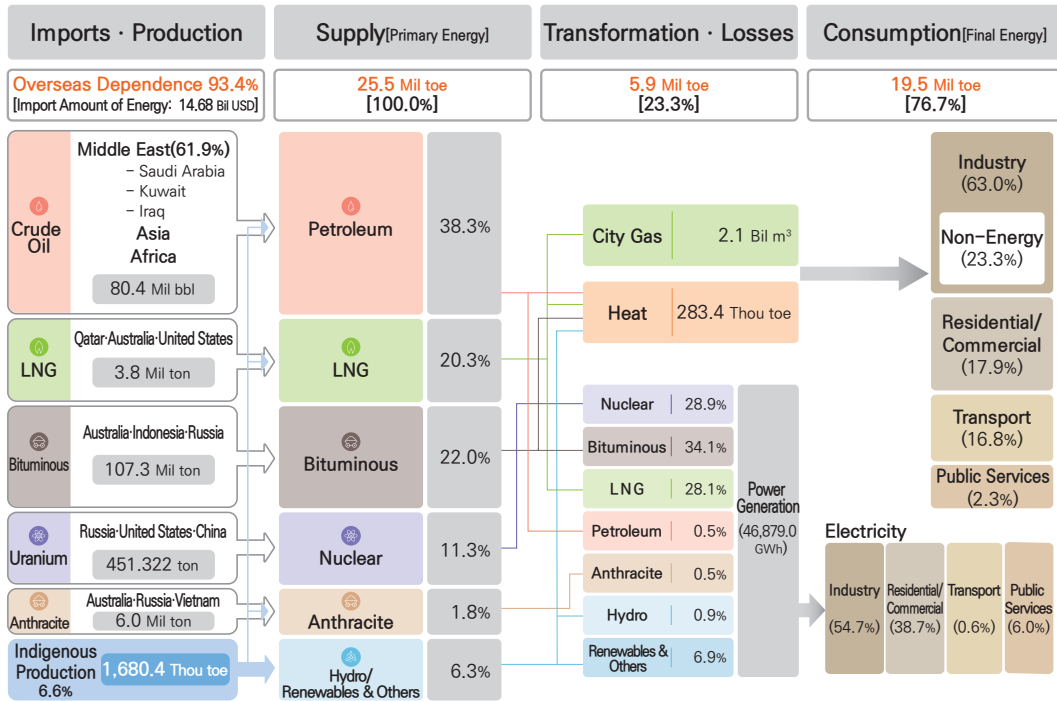


## 2021년 11월 에너지밸런스 플로우(전년 동월대비)

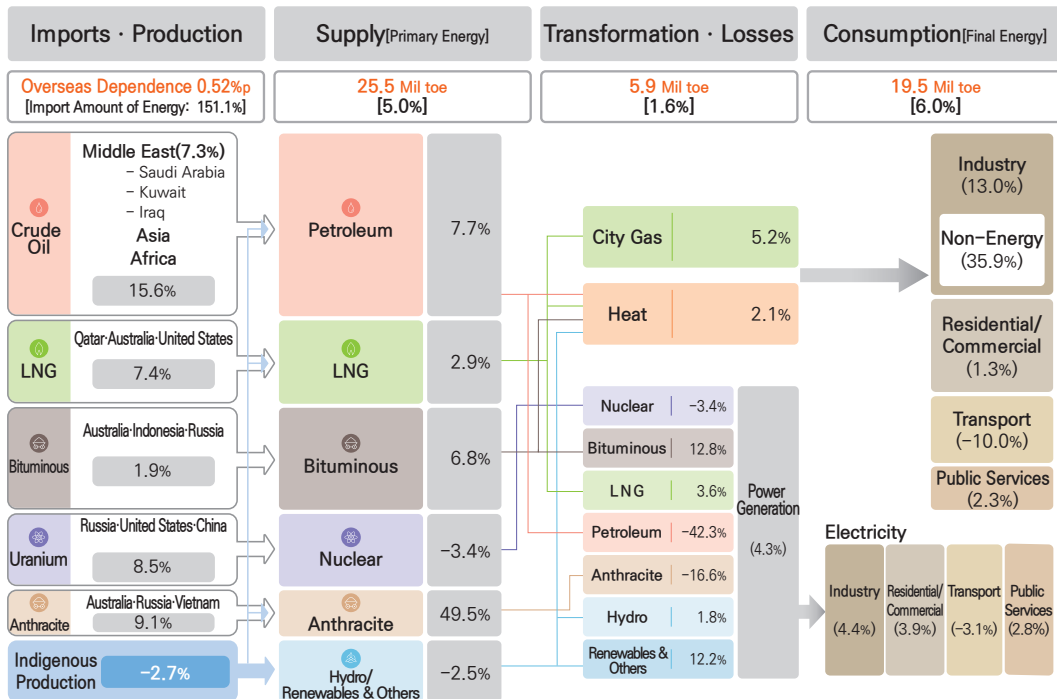


※ 신재생 및 기타: 태양열, 태양광, 풍력, 해양, 지열, 수열, 바이오, 폐기물, 연료전지, IGCC를 포함

## November 2021 Energy Balance Flow



## November 2021 Energy Balance Flow(Year-Over-Year)

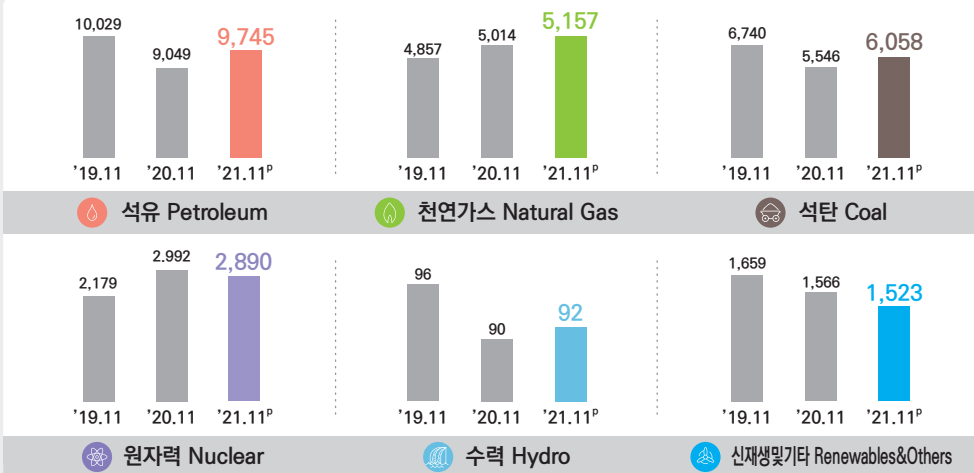


※ Renewables & Others: Solar Thermal, Solar Photovoltaic, Wind, Ocean, Geothermal, Hydro thermal, Bio, Waste, Fuel Cells, IGCC

## 1차에너지공급 Primary Energy Supply (단위: 1,000 toe)



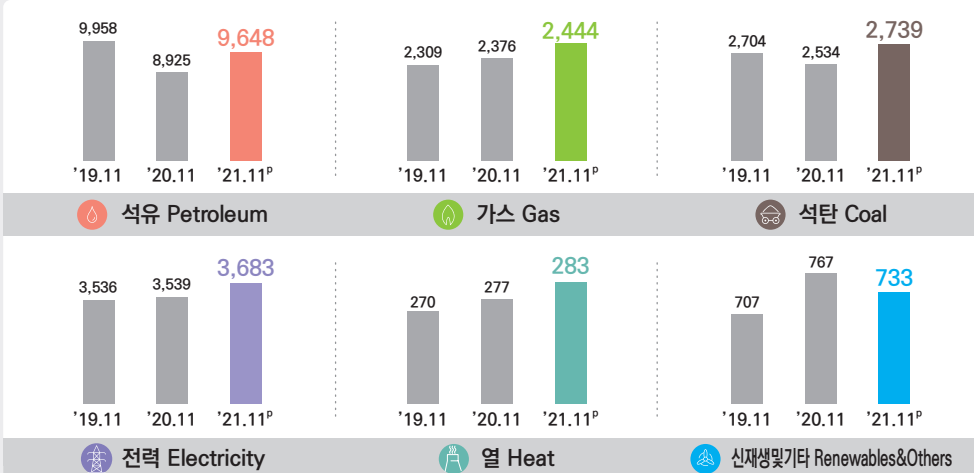
### 합계 Total



## 최종에너지소비 Final Energy Consumption (단위: 1,000 toe)



### 합계 Total



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

# 1. 에너지 개요 및 1차 에너지 공급

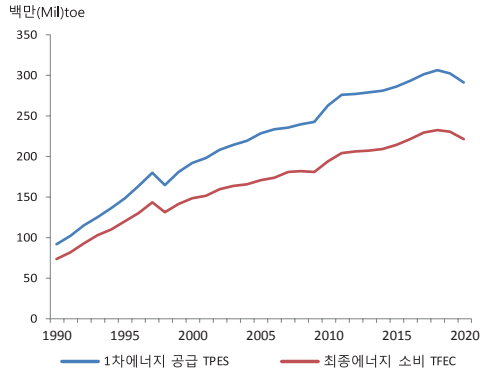
## Energy Overview and Primary Energy Supply

- 1.1 주요 에너지지표  
Major Energy Indicators
- 1.2 에너지 생산  
Energy Production by Source
- 1.3.1 에너지 수출입  
Energy Imports and Exports
- 1.3.2 에너지 수출입액  
Energy Import and Export Values
- 1.4.1 1차에너지 공급  
Primary Energy Supply by Source
- 1.4.2 1차에너지 원별 구성비  
Shares of Energy Sources in Primary Energy Supply

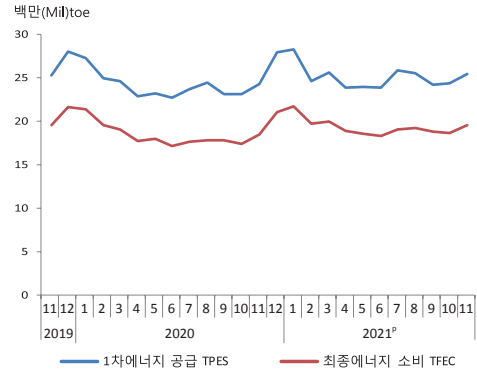


## ● 1차에너지 공급, 최종에너지 소비 Primary Energy Supply, Final Energy Consumption

〈1990~2020〉

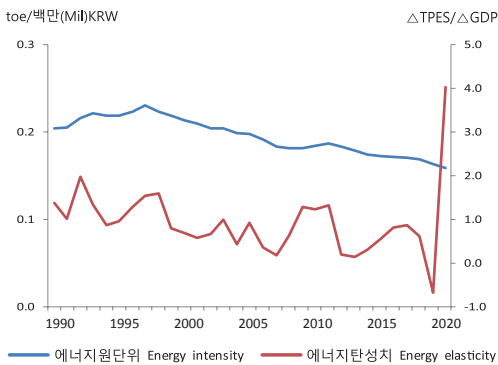


〈월별 Monthly〉

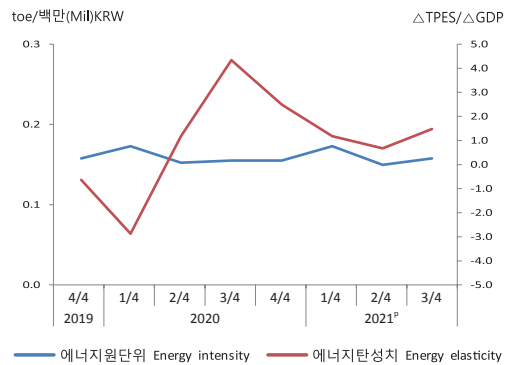


## ● 에너지원단위, 에너지탄성치 Energy Intensity, Energy Elasticity

〈1990~2020〉

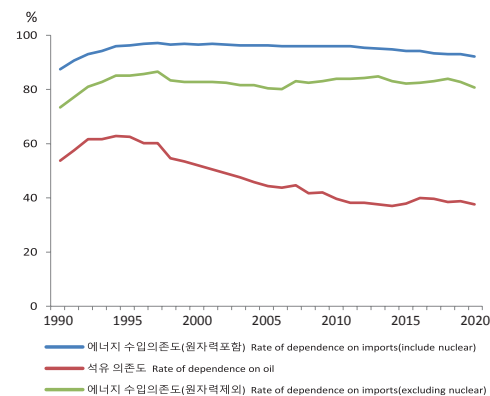


〈분기 Quarterly〉

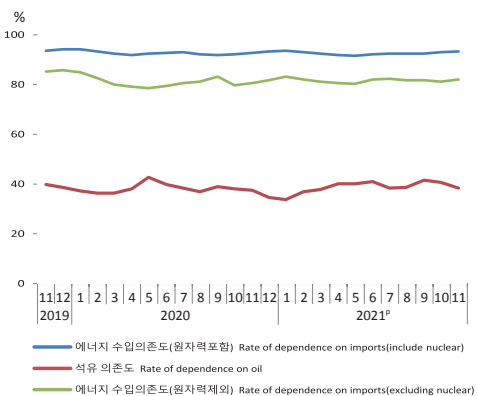


## ● 에너지 수입의존도, 석유 의존도 Rate of Dependence on Imports, Rate of Dependence on Oil

〈1990~2020〉



〈월별 Monthly〉





## 1.1 주요 에너지지표

## Major Energy Indicators

		1차에너지 공급	최종에너지 소비	에너지원단위 <sup>1</sup>	에너지탄성치 <sup>1</sup>	에너지수입액	에너지 수입의존도 <sup>2</sup>	석유 의존도
		TPES	TFEC	Energy intensity <sup>1</sup>	Energy elasticity <sup>1</sup>	Energy import value	Rate of dependence on imports <sup>2</sup>	Rate of dependence on oil
		1,000 toe		toe/백만(Mil) KRW	△TPES/△GDP	백만(Mil) USD	%	
1990		92,931	74,701	0.205	1.394	10,908	87.8	54.0
1995		149,927	121,400	0.219	0.974	19,053	96.8	62.7
1996		165,136	131,573	0.224	1.284	24,243	97.3	60.5
1997		181,058	144,541	0.231	1.555	27,308	97.6	60.4
1998		166,265	132,177	0.224	1.602	18,276	97.1	54.7
1999		181,651	143,027	0.219	0.805	22,745	97.2	53.7
2000		193,240	149,958	0.214	0.701	37,888	97.2	52.1
2001		198,865	153,103	0.210	0.594	33,894	97.3	50.7
2002		209,290	160,876	0.205	0.681	32,290	97.1	49.2
2003		215,772	164,550	0.205	0.999	38,306	96.9	47.8
2004		220,756	166,452	0.199	0.444	49,600	96.6	45.8
2005		229,667	171,543	0.199	0.939	66,697	96.6	44.5
2006		234,062	174,873	0.192	0.361	85,566	96.5	43.8
2007		236,486	182,015	0.184	0.179	94,978	96.6	44.7
2008		240,994	183,054	0.182	0.635	141,475	96.5	41.6
2009		243,500	182,080	0.182	1.300	91,160	96.5	42.1
2010		264,053	195,401	0.185	1.241	121,654	96.5	39.6
2011		276,997	205,239	0.187	1.325	172,490	96.5	38.1
2012		278,325	206,968	0.184	0.200	184,800	96.0	38.1
2013		279,623	208,362	0.179	0.146	178,698	95.7	37.7
2014		282,423	210,448	0.175	0.313	174,137	95.2	37.1
2015		286,921	215,389	0.173	0.569	102,715	94.8	38.0
2016		293,778	221,936	0.172	0.824	80,942	94.6	40.0
2017		302,490	231,023	0.172	0.927	109,466	94.0	39.6
2018		307,557	233,368	0.170	0.578	145,970	93.7	38.5
2019		303,092	231,353	0.164	-0.660	126,701	93.5	38.7
2020		292,076	222,563	0.159	4.038	86,554	92.8	37.7
2019	11	25,288	19,484	-	-	10,407	93.8	39.7
	12	27,997	21,595	0.158	-0.620	11,308	94.1	38.5
2020	1	27,258	21,383	-	-	12,143	94.1	37.1
	2	24,945	19,557	-	-	10,586	93.4	36.3
	3	24,571	18,994	0.173	-2.870	8,664	92.5	36.3
	4	22,853	17,692	-	-	6,420	91.9	37.9
	5	23,172	17,969	-	-	5,003	92.6	42.7
	6	22,725	17,074	0.153	1.195	4,991	92.7	39.7
	7	23,691	17,574	-	-	6,415	93.0	38.4
	8	24,471	17,731	-	-	5,985	92.2	36.8
	9	23,129	17,765	0.155	4.329	6,522	91.9	38.9
	10	23,090	17,387	-	-	6,296	92.3	38.1
	11	24,258	18,419	-	-	5,846	92.9	37.3
	12	27,914	21,018	0.155	2.505	7,685	93.4	34.5
2021 <sup>P</sup>	1	28,294	21,687	-	-	8,206	93.8	33.7
	2	24,636	19,719	-	-	9,549	93.2	37.0
	3	25,603	19,958	0.174	1.205	9,321	92.6	37.7
	4	23,855	18,835	-	-	9,660	91.9	40.1
	5	23,962	18,552	-	-	9,737	91.7	40.1
	6	23,819	18,269	0.150	0.700	10,369	92.2	40.7
	7	25,876	18,985	-	-	12,169	92.5	38.4
	8	25,490	19,152	-	-	12,012	92.5	38.4
	9	24,213	18,788	0.158	1.503	12,322	92.6	41.5
	10	24,394	18,616	-	-	13,336	93.0	40.6
	11	25,464	19,530	-	-	14,678	93.4	38.3
2020	1-11	264,162	201,545	-	-	78,869	92.7	38.2
2021 <sup>P</sup>	1-11	275,605	212,092	-	-	121,358	92.7	38.7

1. 월별 수치는 분기자료임.

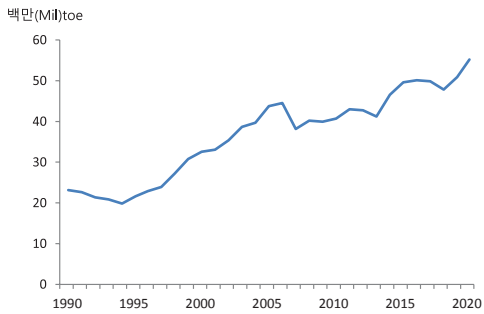
1. Monthly values are from quarterly data.

2. 원자력 발전 포함.

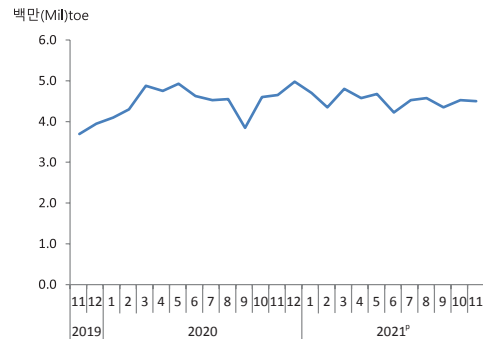
2. Includes nuclear power.

## ● 에너지 생산 Total Energy Production

〈1990~2020〉

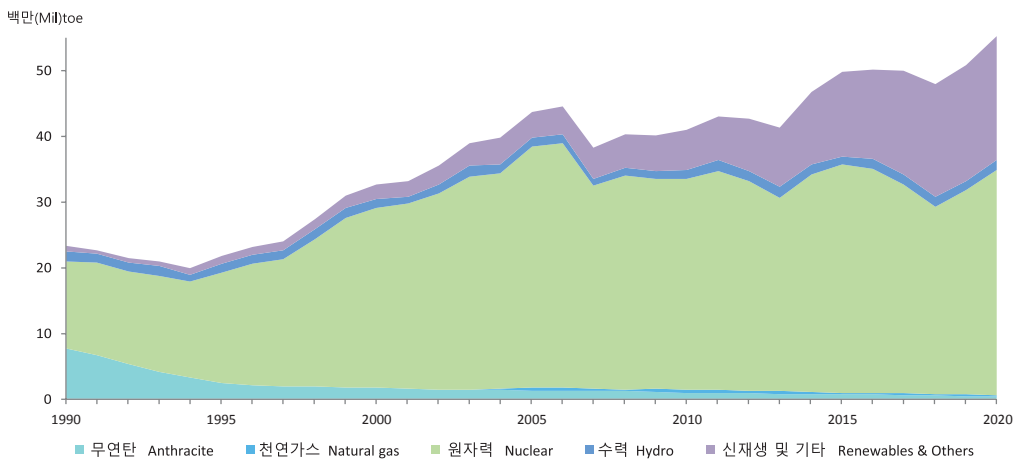


〈월별 Monthly〉

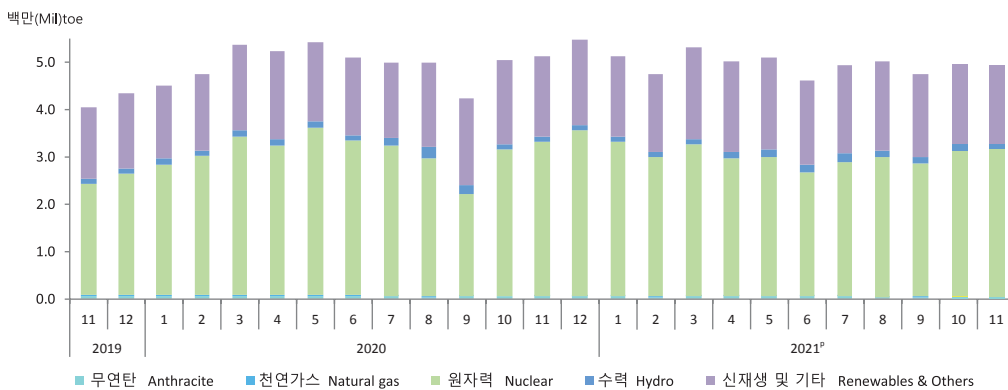


## ● 에너지원별 생산 Energy Production by Source

〈1990~2020〉



〈월별 Monthly〉



## 1.2 에너지 생산

## Energy Production by Source

		합계 Total	무연탄 Anthracite	천연가스 <sup>1</sup> Natural gas <sup>1</sup>	수력 Hydro	원자력 Nuclear	신재생 및 기타 <sup>2</sup> Renewables & Others <sup>2</sup>
		1,000 toe					
1990		23,357	7,748	-	1,590	13,222	797
1995		21,751	2,574	-	1,369	16,757	1,050
1996		23,170	2,228	-	1,300	18,481	1,161
1997		23,997	2,030	-	1,351	19,271	1,344
1998		27,435	1,962	-	1,525	22,422	1,526
1999		30,977	1,889	-	1,517	25,766	1,806
2000		32,641	1,868	-	1,402	27,241	2,130
2001		33,244	1,718	-	1,038	28,033	2,456
2002		35,521	1,493	-	1,327	29,776	2,925
2003		38,864	1,484	-	1,722	32,418	3,241
2004		39,769	1,436	212	1,465	32,679	3,977
2005		43,745	1,274	518	1,297	36,695	3,961
2006		44,582	1,271	461	1,305	37,187	4,358
2007		38,338	1,342	353	1,084	30,731	4,828
2008		40,376	1,289	236	1,196	32,456	5,198
2009		40,133	1,171	498	1,213	31,771	5,480
2010		40,912	969	539	1,391	31,948	6,064
2011		42,987	969	451	1,684	33,265	6,617
2012		42,748	942	436	1,615	31,719	8,036
2013		41,321	817	463	1,771	29,283	8,987
2014		46,716	787	322	1,650	33,002	10,956
2015		49,809	794	188	1,223	34,765	12,839
2016		50,087	777	154	1,400	34,181	13,575
2017		49,996	702	341	1,490	31,615	15,848
2018		47,977	568	305	1,549	28,437	17,119
2019		50,869	513	259	1,331	31,079	17,688
2020		55,292	482	185	1,523	34,119	18,983
2019	11	3,721	45	14	96	2,179	1,387
	12	3,989	43	20	106	2,356	1,464
2020	1	4,133	38	23	115	2,534	1,423
	2	4,352	43	20	113	2,703	1,473
	3	4,937	47	22	114	3,081	1,674
	4	4,797	43	21	109	2,916	1,708
	5	4,980	38	22	120	3,250	1,550
	6	4,678	44	21	109	2,997	1,508
	7	4,583	41	16	130	2,923	1,473
	8	4,593	32	14	229	2,668	1,650
	9	3,881	41	1	187	1,979	1,672
	10	4,636	37	-	101	2,869	1,629
	11	4,701	41	12	90	2,992	1,566
	12	5,023	39	12	106	3,208	1,659
2021 <sup>p</sup>	1	4,743	36	10	110	2,991	1,595
	2	4,393	30	6	102	2,712	1,544
	3	4,845	39	7	109	2,939	1,751
	4	4,625	42	7	118	2,673	1,784
	5	4,714	33	8	136	2,718	1,819
	6	4,268	39	2	146	2,410	1,671
	7	4,559	37	3	152	2,621	1,746
	8	4,632	29	2	129	2,722	1,750
	9	4,393	30	3	122	2,593	1,645
	10	4,576	35	3	108	2,867	1,562
	11	4,546	38	3	92	2,890	1,523
2020	1-11	50,269	443	173	1,417	30,911	17,325
2021 <sup>p</sup>	1-11	50,293	388	53	1,325	30,136	18,391

1. 동해-1 가스전 생산량

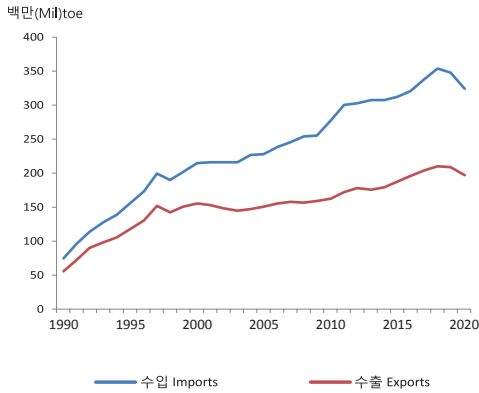
2. 기타: 폐기물을 이용하여 제조한 것

1. Production at Donghae-1 gas field

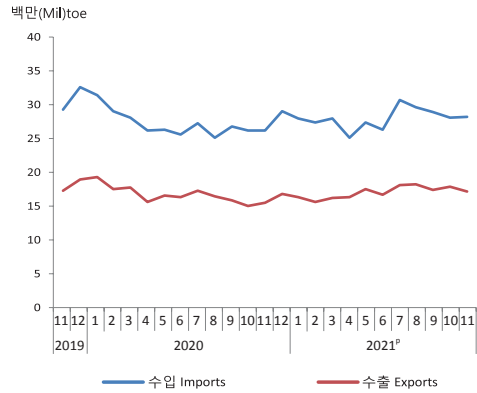
2. "Others" refers to energy generated from waste.

## ● 에너지 수출입 Energy Imports and Exports

〈1990~2020〉

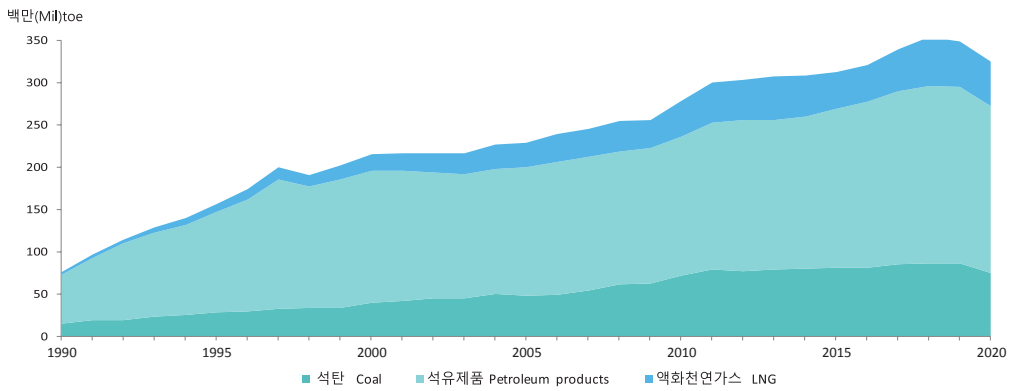


〈월별 Monthly〉

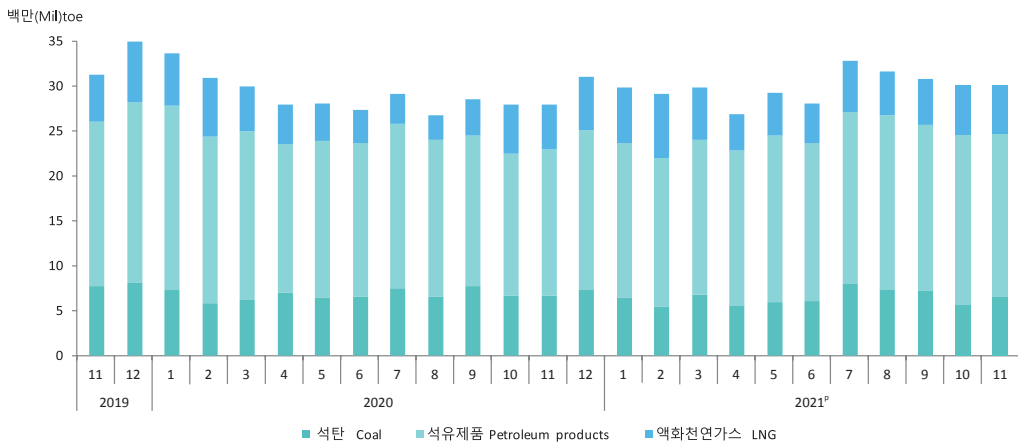


## ● 에너지원별 수입 Energy Imports by Source

〈1990~2020〉



〈월별 Monthly〉



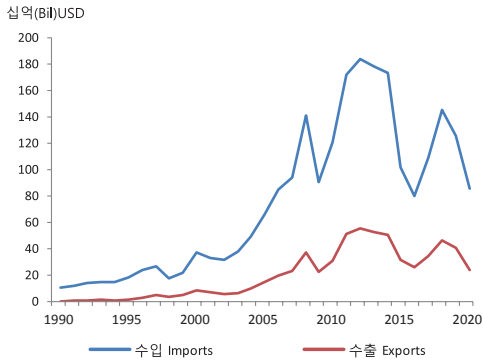
## 1.3.1 에너지 수출입

## Energy Imports and Exports

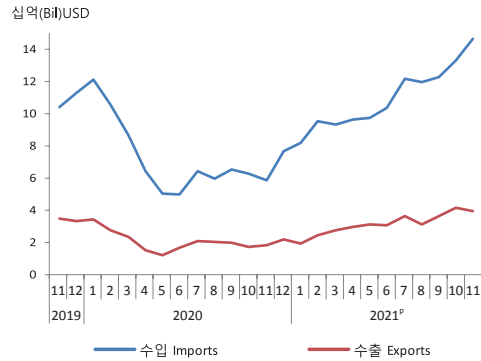
		수입 Imports				수출(B) Exports	순수입(A-B)
		합계(A) Total	석탄 Coal	석유제품 Petroleum products	액화천연가스 LNG	석유제품 Petroleum products	Net imports
		1,000 toe					
1990		76,040	15,721	57,345	2,974	3,997	72,043
1995		156,749	28,550	119,020	9,178	17,749	138,999
1996		174,277	30,314	131,489	12,473	22,690	151,587
1997		200,894	32,979	152,797	15,118	33,143	167,750
1998		191,456	33,847	143,829	13,780	42,232	149,224
1999		202,665	34,410	151,391	16,865	42,544	160,121
2000		215,687	40,559	156,177	18,951	43,758	171,928
2001		217,250	42,691	153,545	21,013	42,143	175,107
2002		216,801	44,990	149,101	22,711	33,914	182,887
2003		217,031	45,894	145,872	25,264	30,025	187,005
2004		227,497	50,139	148,558	28,799	33,841	193,655
2005		229,255	48,498	151,713	29,044	38,071	191,184
2006		239,683	49,854	157,041	32,788	41,810	197,873
2007		246,306	54,237	158,831	33,239	41,801	204,505
2008		254,887	61,665	157,786	35,436	47,586	207,301
2009		256,573	63,431	159,574	33,568	46,897	209,677
2010		279,145	72,576	164,184	42,384	48,365	230,779
2011		300,906	79,860	173,355	47,690	57,722	243,183
2012		303,396	77,546	178,667	47,184	61,687	241,709
2013		307,932	79,230	176,703	51,998	59,910	248,021
2014		308,559	80,460	179,712	48,388	62,593	245,967
2015		313,516	81,688	188,320	43,509	66,279	247,237
2016		321,918	81,311	196,984	43,623	67,840	254,078
2017		338,796	85,869	203,904	49,023	70,966	267,830
2018		354,524	86,393	210,647	57,484	74,066	280,458
2019		349,174	86,336	209,621	53,217	72,375	276,799
2020		325,367	75,687	197,463	52,217	65,208	260,159
2019	11	29,173	7,154	17,067	4,951	5,702	23,470
	12	32,534	7,485	18,811	6,238	6,100	26,434
2020	1	31,336	6,817	19,106	5,414	5,987	25,349
	2	28,856	5,411	17,279	6,166	5,957	22,899
	3	27,897	5,682	17,588	4,628	6,710	21,187
	4	26,006	6,539	15,429	4,038	5,996	20,010
	5	26,129	5,922	16,339	3,868	4,824	21,305
	6	25,455	6,004	16,081	3,370	4,948	20,507
	7	27,136	6,934	17,121	3,081	5,470	21,666
	8	24,910	6,090	16,265	2,555	5,426	19,484
	9	26,622	7,121	15,669	3,833	5,594	21,028
	10	25,995	6,197	14,772	5,026	4,712	21,283
	11	26,077	6,154	15,245	4,678	4,665	21,412
	12	28,947	6,817	16,570	5,560	4,919	24,028
2021 <sup>P</sup>	1	27,769	5,911	16,080	5,777	4,007	23,761
	2	27,189	5,084	15,367	6,738	4,084	23,105
	3	27,806	6,279	16,049	5,477	5,219	22,587
	4	25,015	5,179	16,132	3,704	4,798	20,217
	5	27,202	5,480	17,292	4,429	5,546	21,656
	6	26,130	5,555	16,485	4,089	4,927	21,203
	7	30,541	7,358	17,934	5,249	5,741	24,800
	8	29,467	6,855	18,072	4,541	5,044	24,423
	9	28,729	6,689	17,205	4,835	5,666	23,062
	10	28,003	5,184	17,730	5,089	5,790	22,214
	11	28,018	6,005	16,990	5,023	5,384	22,634
2020	1-11	296,420	68,870	180,892	46,657	60,289	236,130
2021 <sup>P</sup>	1-11	305,868	65,581	185,336	54,952	56,206	249,662

## ● 에너지 수출입액 Energy Import and Export Values

〈1990~2020〉

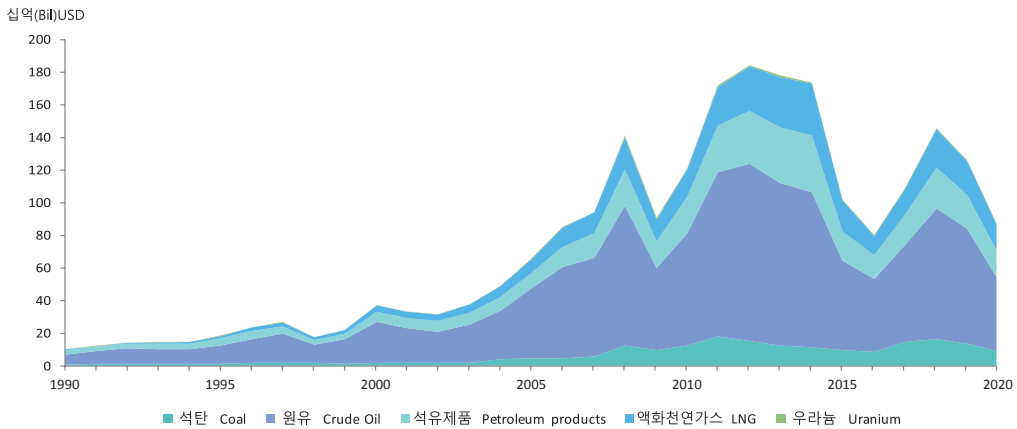


〈월별 Monthly〉

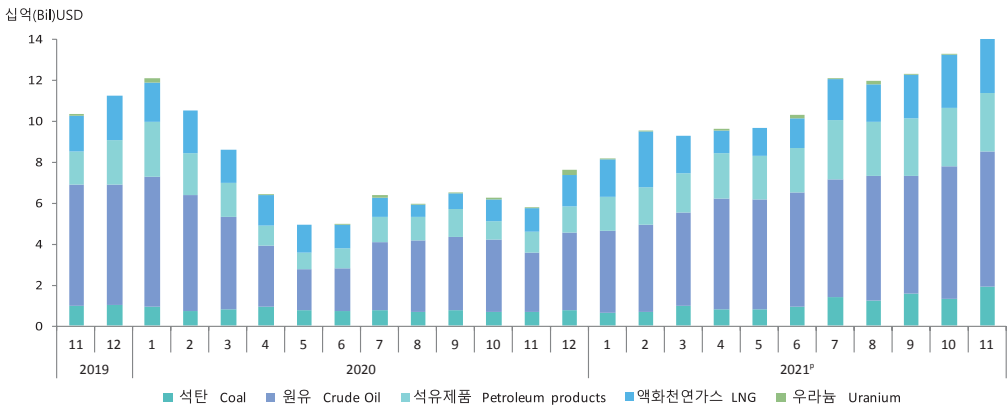


## ● 에너지원별 수입액 Import Value by Energy Source

〈1990~2020〉



〈월별 Monthly〉



## 1.3.2 에너지 수출입액

## Energy Import and Export Values

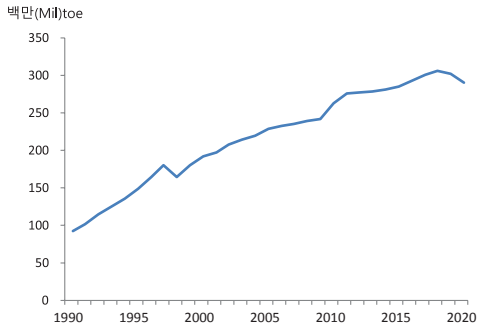
		수입 Imports						수출 Exports	수입액 비중 Energy/ Total imports
		합계 Total	석탄 Coal	원유 Crude oil	석유제품 Petroleum products	액화천연가스 LNG	우라늄 Uranium	석유제품 Petroleum products	
		백만달러(Million USD)							%
1990		10,908	1,288	6,386	2,774	460	1	650	15.6
1995		19,053	2,081	10,809	4,673	1,275	215	2,393	14.1
1996		24,243	2,337	14,432	5,395	1,878	201	3,809	16.1
1997		27,308	2,399	17,772	4,606	2,296	236	5,259	18.9
1998		18,276	2,229	11,241	3,043	1,549	214	4,523	19.6
1999		22,745	1,966	14,783	3,802	1,973	222	5,709	19.0
2000		37,888	2,186	25,216	6,379	3,882	225	9,257	23.6
2001		33,894	2,347	21,368	5,956	3,990	233	7,910	24.0
2002		32,290	2,475	19,200	6,214	4,120	280	6,446	21.2
2003		38,306	2,552	23,082	7,325	5,082	265	6,721	21.4
2004		49,600	4,438	29,917	8,357	6,552	336	10,272	22.1
2005		66,697	5,443	42,606	9,716	8,646	286	15,444	25.5
2006		85,566	5,318	55,865	12,119	11,925	339	20,505	27.7
2007		94,978	6,445	60,324	15,066	12,653	489	24,060	26.6
2008		141,475	12,810	85,855	22,275	19,806	729	37,684	32.5
2009		91,160	9,995	50,757	15,811	13,875	722	23,069	28.2
2010		121,654	13,131	68,662	22,241	17,006	615	31,699	28.6
2011		172,490	18,477	100,806	28,541	23,859	807	51,794	32.9
2012		184,800	16,069	108,298	32,373	27,364	695	56,385	35.6
2013		178,698	13,074	99,333	34,628	30,645	1,018	53,011	34.7
2014		174,137	12,114	94,907	34,983	31,403	731	51,025	33.1
2015		102,715	9,961	55,120	17,986	18,779	869	32,192	23.5
2016		80,942	9,310	44,295	14,579	12,170	589	26,668	19.9
2017		109,466	15,179	59,603	18,077	15,616	991	35,286	22.9
2018		145,970	16,703	80,393	25,109	23,189	576	46,751	27.3
2019		126,701	14,209	70,252	20,938	20,567	736	41,080	25.2
2020		86,554	9,596	44,456	16,038	15,716	748	24,537	18.5
2019	11	10,407	1,025	5,928	1,626	1,723	104	3,467	25.6
	12	11,308	1,056	5,892	2,185	2,175	0	3,334	25.9
2020	1	12,143	964	6,383	2,663	1,949	184	3,404	28.4
	2	10,586	762	5,677	2,036	2,110	-	2,751	28.6
	3	8,664	828	4,556	1,642	1,637	0	2,330	20.7
	4	6,420	956	3,021	962	1,481	0	1,498	16.9
	5	5,003	811	2,004	799	1,389	0	1,176	14.4
	6	4,991	745	2,128	973	1,145	0	1,669	13.9
	7	6,415	789	3,339	1,257	906	123	2,076	16.5
	8	5,985	708	3,504	1,141	621	11	2,018	16.7
	9	6,522	807	3,586	1,356	773	0	1,969	16.6
	10	6,296	707	3,546	888	1,061	94	1,679	16.1
	11	5,846	719	2,905	1,033	1,118	71	1,788	14.6
	12	7,685	801	3,808	1,286	1,526	265	2,178	17.2
2021 <sup>P</sup>	1	8,206	659	4,011	1,664	1,830	42	1,899	18.5
	2	9,549	709	4,278	1,820	2,742	0	2,416	22.5
	3	9,321	1,036	4,532	1,913	1,839	0	2,763	18.7
	4	9,660	860	5,412	2,220	1,093	74	2,959	19.0
	5	9,737	843	5,382	2,128	1,384	0	3,112	20.3
	6	10,369	991	5,575	2,195	1,443	165	3,047	20.6
	7	12,169	1,431	5,784	2,903	2,002	50	3,645	22.7
	8	12,012	1,274	6,087	2,648	1,860	143	3,108	23.3
	9	12,322	1,616	5,764	2,826	2,115	1	3,602	23.9
	10	13,336	1,338	6,486	2,874	2,606	32	4,122	24.8
	11	14,678	1,965	6,619	2,843	3,098	153	3,923	25.6
2020	1-11	78,869	8,796	40,648	14,752	14,190	483	22,359	18.6
2021 <sup>P</sup>	1-11	121,358	12,723	59,931	26,033	22,012	660	34,596	21.9

주: 수입액은 CIF, 수출액은 FOB 기준.  
자료: 한국무역협회

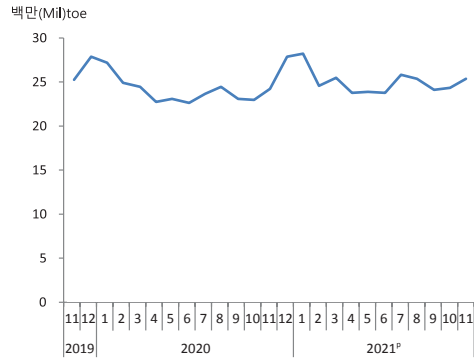
Note: Import and export values are based on CIF and FOB agreements, respectively.  
Source: Korea International Trade Association

## ● 1차에너지 공급 Total Primary Energy Supply

〈1990~2020〉

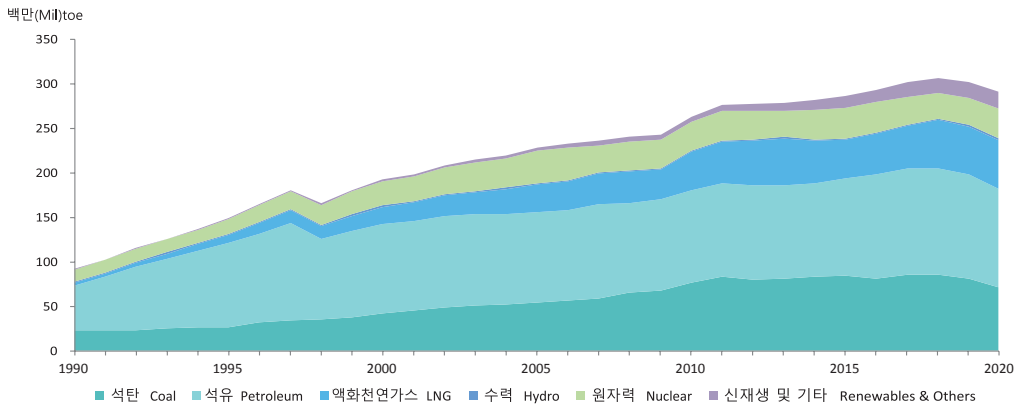


〈월별 Monthly〉

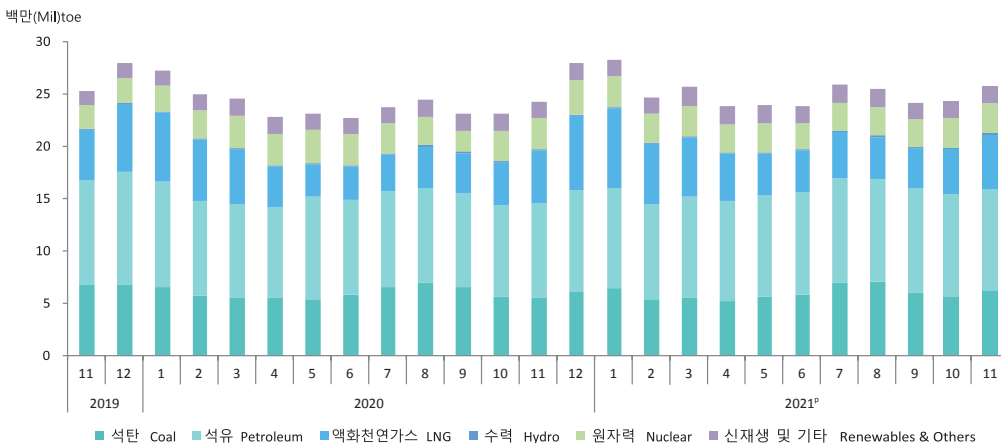


## ● 에너지원별 1차에너지 공급 Primary Energy Supply by Source

〈1990~2020〉



〈월별 Monthly〉





## 1.4.1 1차에너지 공급

## Primary Energy Supply by Source

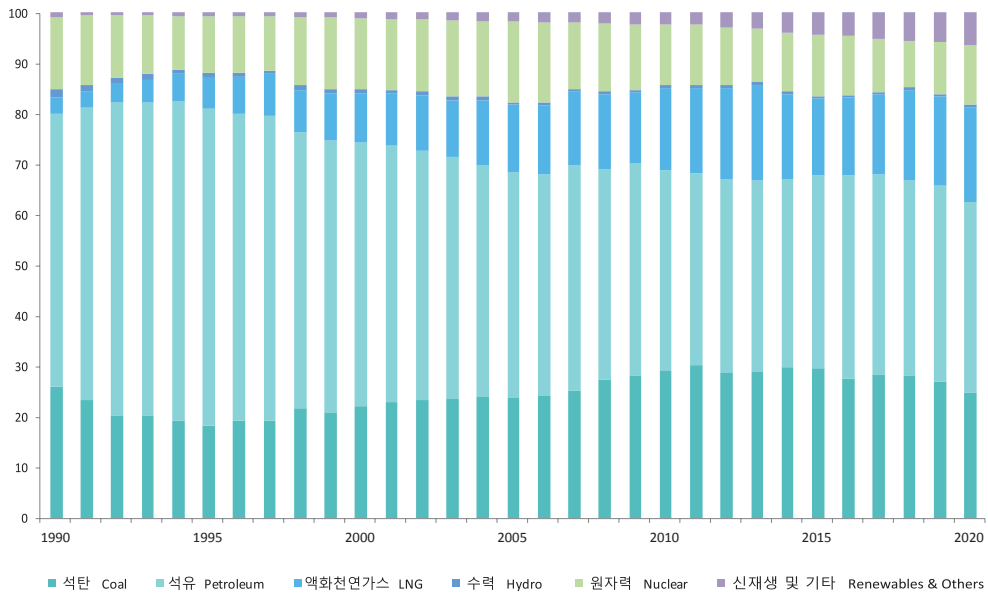
		합계 Total	석탄 Coal	석유 Petroleum	액화천연가스 LNG	수력 Hydro	원자력 Nuclear	신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>
		1,000 toe						
1990		92,931	24,124	50,175	3,023	1,590	13,222	797
1995		149,927	27,495	94,042	9,213	1,369	16,757	1,050
1996		165,136	32,100	99,923	12,172	1,300	18,481	1,161
1997		181,058	34,927	109,372	14,792	1,351	19,271	1,344
1998		166,265	36,051	90,904	13,838	1,525	22,422	1,526
1999		181,651	38,157	97,556	16,849	1,517	25,766	1,806
2000		193,240	42,925	100,618	18,924	1,402	27,241	2,130
2001		198,865	45,724	100,827	20,787	1,038	28,033	2,456
2002		209,290	49,131	103,034	23,096	1,327	29,776	2,925
2003		215,772	51,124	103,073	24,194	1,722	32,418	3,241
2004		220,756	53,198	101,085	28,351	1,465	32,679	3,977
2005		229,667	54,795	102,197	30,722	1,297	36,695	3,961
2006		234,062	56,652	102,555	32,004	1,305	37,187	4,358
2007		236,486	59,653	105,718	34,471	1,084	30,731	4,828
2008		240,994	66,100	100,373	35,671	1,196	32,456	5,198
2009		243,500	68,595	102,534	33,908	1,213	31,771	5,480
2010		264,053	77,142	104,499	43,008	1,391	31,948	6,064
2011		276,997	83,687	105,459	46,284	1,684	33,265	6,617
2012		278,325	80,636	106,134	50,185	1,615	31,719	8,036
2013		279,623	81,544	105,515	52,523	1,771	29,283	8,987
2014		282,423	84,399	104,643	47,773	1,650	33,002	10,956
2015		286,921	85,401	109,090	43,603	1,223	34,765	12,839
2016		293,778	81,499	117,605	45,518	1,400	34,181	13,575
2017		302,490	86,177	119,824	47,536	1,490	31,615	15,848
2018		307,557	86,707	118,521	55,224	1,549	28,437	17,119
2019		303,092	82,147	117,314	53,534	1,331	31,079	17,688
2020		292,076	72,241	110,240	54,970	1,523	34,119	18,983
2019	11	25,288	6,740	10,029	4,857	96	2,179	1,387
	12	27,997	6,756	10,779	6,536	106	2,356	1,464
2020	1	27,258	6,586	10,107	6,494	115	2,534	1,423
	2	24,945	5,785	9,064	5,808	113	2,703	1,473
	3	24,571	5,534	8,925	5,244	114	3,081	1,674
	4	22,853	5,509	8,667	3,943	109	2,916	1,708
	5	23,172	5,355	9,886	3,011	120	3,250	1,550
	6	22,725	5,904	9,011	3,196	109	2,997	1,508
	7	23,691	6,631	9,089	3,445	130	2,923	1,473
	8	24,471	6,991	9,002	3,931	229	2,668	1,650
	9	23,129	6,565	9,005	3,721	187	1,979	1,672
	10	23,090	5,623	8,798	4,070	101	2,869	1,629
	11	24,258	5,546	9,049	5,014	90	2,992	1,566
	12	27,914	6,211	9,637	7,093	106	3,208	1,659
2021 <sup>P</sup>	1	28,294	6,506	9,534	7,557	110	2,991	1,595
	2	24,636	5,358	9,103	5,817	102	2,712	1,544
	3	25,603	5,564	9,650	5,589	109	2,939	1,751
	4	23,855	5,210	9,577	4,492	118	2,673	1,784
	5	23,962	5,678	9,612	4,000	136	2,718	1,819
	6	23,819	5,879	9,706	4,006	146	2,410	1,671
	7	25,876	6,984	9,938	4,435	152	2,621	1,746
	8	25,490	7,065	9,795	4,029	129	2,722	1,750
	9	24,213	6,041	10,037	3,775	122	2,593	1,645
	10	24,394	5,665	9,897	4,295	108	2,867	1,562
	11	25,464	6,058	9,745	5,157	92	2,890	1,523
2020	1-11	264,162	66,030	100,603	47,877	1,417	30,911	17,325
2021 <sup>P</sup>	1-11	275,605	66,008	106,593	53,152	1,325	30,136	18,391

1. 기타: 폐기물을 이용하여 제조한 것

1. "Others" refers to energy generated from waste.

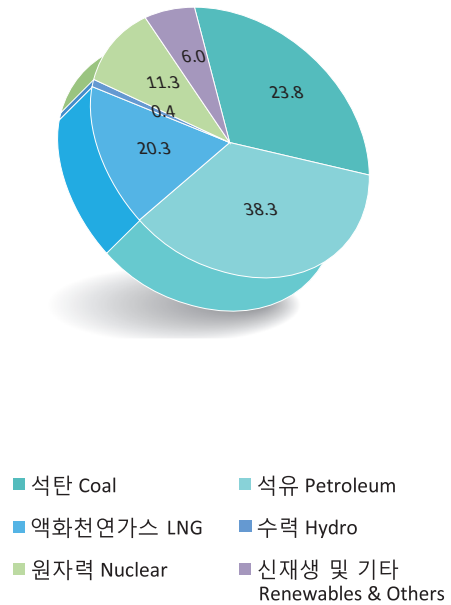
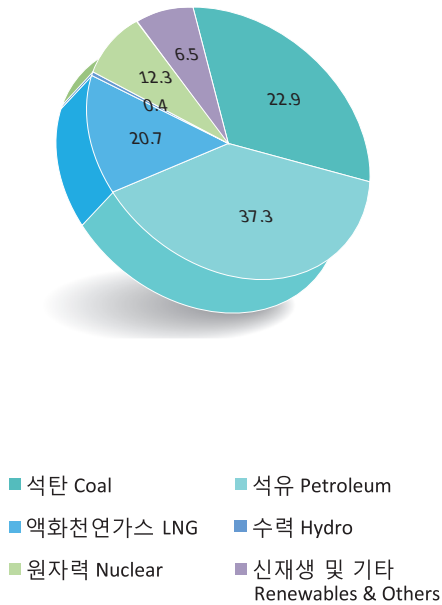
● 1차에너지 원별 구성비 Shares of Energy Sources in Primary Energy Supply(%)

〈1990~2020〉



● 2020년 11월 November 2020(%)

● 2021년 11월 November 2021<sup>P</sup>(%)



## 1.4.2 1차에너지 원별 구성비

## Shares of Energy Sources in Primary Energy Supply

		석탄 Coal	석유 Petroleum	액화천연가스 LNG	수력 Hydro	원자력 Nuclear	신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>
		%					
1990		26.0	54.0	3.3	1.7	14.2	0.9
1995		18.3	62.7	6.1	0.9	11.2	0.7
1996		19.4	60.5	7.4	0.8	11.2	0.7
1997		19.3	60.4	8.2	0.7	10.6	0.7
1998		21.7	54.7	8.3	0.9	13.5	0.9
1999		21.0	53.7	9.3	0.8	14.2	1.0
2000		22.2	52.1	9.8	0.7	14.1	1.1
2001		23.0	50.7	10.5	0.5	14.1	1.2
2002		23.5	49.2	11.0	0.6	14.2	1.4
2003		23.7	47.8	11.2	0.8	15.0	1.5
2004		24.1	45.8	12.8	0.7	14.8	1.8
2005		23.9	44.5	13.4	0.6	16.0	1.7
2006		24.2	43.8	13.7	0.6	15.9	1.9
2007		25.2	44.7	14.6	0.5	13.0	2.0
2008		27.4	41.6	14.8	0.5	13.5	2.2
2009		28.2	42.1	13.9	0.5	13.0	2.3
2010		29.2	39.6	16.3	0.5	12.1	2.3
2011		30.2	38.1	16.7	0.6	12.0	2.4
2012		29.0	38.1	18.0	0.6	11.4	2.9
2013		29.2	37.7	18.8	0.6	10.5	3.2
2014		29.9	37.1	16.9	0.6	11.7	3.9
2015		29.8	38.0	15.2	0.4	12.1	4.5
2016		27.7	40.0	15.5	0.5	11.6	4.6
2017		28.5	39.6	15.7	0.5	10.5	5.2
2018		28.2	38.5	18.0	0.5	9.2	5.6
2019		27.1	38.7	17.7	0.4	10.3	5.8
2020		24.7	37.7	18.8	0.5	11.7	6.5
2019	11	26.7	39.7	19.2	0.4	8.6	5.5
	12	24.1	38.5	23.3	0.4	8.4	5.2
2020	1	24.2	37.1	23.8	0.4	9.3	5.2
	2	23.2	36.3	23.3	0.5	10.8	5.9
	3	22.5	36.3	21.3	0.5	12.5	6.8
	4	24.1	37.9	17.3	0.5	12.8	7.5
	5	23.1	42.7	13.0	0.5	14.0	6.7
	6	26.0	39.7	14.1	0.5	13.2	6.6
	7	28.0	38.4	14.5	0.6	12.3	6.2
	8	28.6	36.8	16.1	0.9	10.9	6.7
	9	28.4	38.9	16.1	0.8	8.6	7.2
	10	24.4	38.1	17.6	0.4	12.4	7.1
	11	22.9	37.3	20.7	0.4	12.3	6.5
	12	22.3	34.5	25.4	0.4	11.5	5.9
2021 <sup>p</sup>	1	23.0	33.7	26.7	0.4	10.6	5.6
	2	21.7	37.0	23.6	0.4	11.0	6.3
	3	21.7	37.7	21.8	0.4	11.5	6.8
	4	21.8	40.1	18.8	0.5	11.2	7.5
	5	23.7	40.1	16.7	0.6	11.3	7.6
	6	24.7	40.7	16.8	0.6	10.1	7.0
	7	27.0	38.4	17.1	0.6	10.1	6.7
	8	27.7	38.4	15.8	0.5	10.7	6.9
	9	24.9	41.5	15.6	0.5	10.7	6.8
	10	23.2	40.6	17.6	0.4	11.8	6.4
	11	23.8	38.3	20.3	0.4	11.3	6.0
2020	1-11	25.0	38.1	18.1	0.5	11.7	6.6
2021 <sup>p</sup>	1-11	24.0	38.7	19.3	0.5	10.9	6.7

1. 기타: 폐기물을 이용하여 제조한 것

1. "Others" refers to energy generated from waste.



## 2. 최종에너지 소비

### Final Energy Consumption

#### 2.1.1 최종에너지 원별 소비

Final Energy Consumption by Source

#### 2.1.2 최종에너지 원별 구성비

Shares of Energy Sources in Final Consumption

#### 2.2.1 최종에너지 부문별 소비

Final Energy Consumption by Sector

#### 2.2.2 산업

Industry

#### 2.2.3 수송

Transport

#### 2.2.4 가정·상업

Residential and Commercial

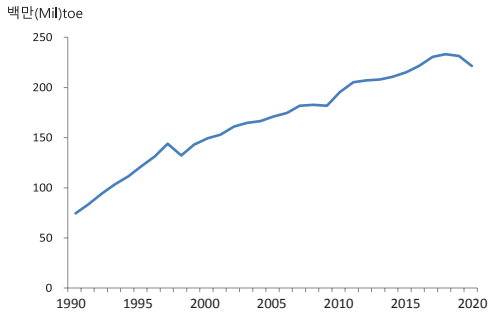
#### 2.2.5 공공

Public

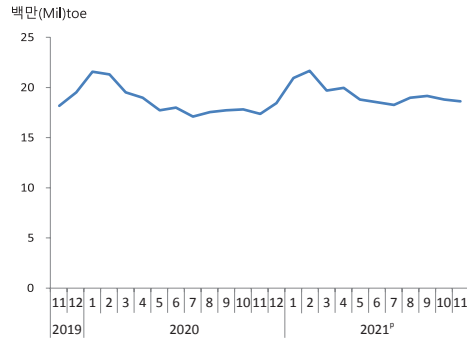


## ● 최종에너지 소비 Total Final Energy Consumption

〈1990~2020〉

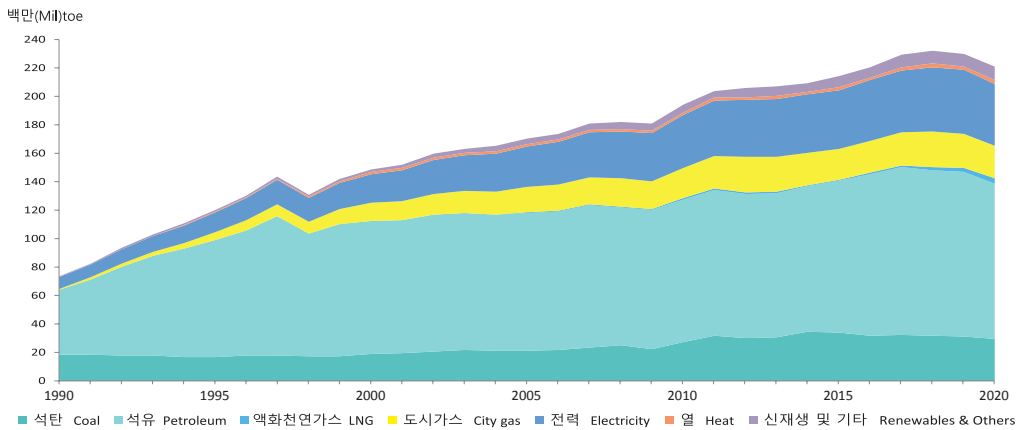


〈월별 Monthly〉

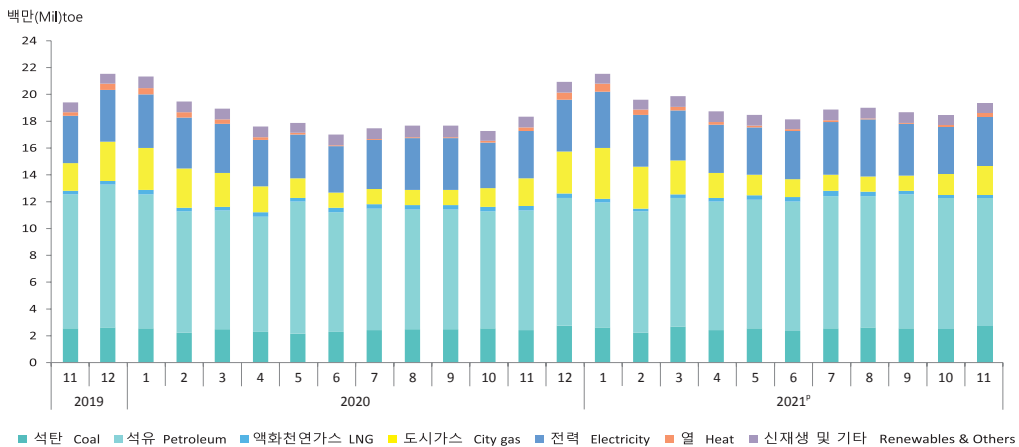


## ● 에너지원별 최종에너지 소비 Final Energy Consumption by Source

〈1990~2020〉



〈월별 Monthly〉



## 2.1.1 최종에너지 원별 소비

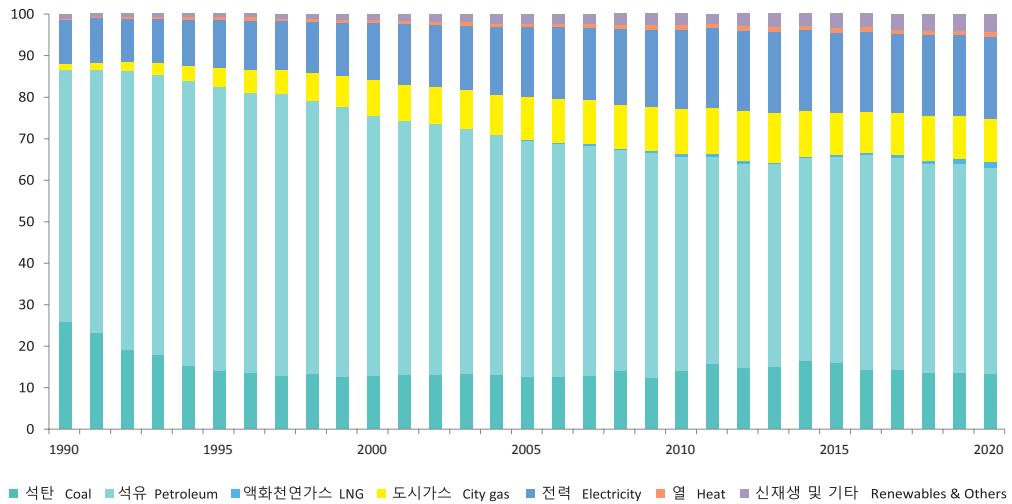
## Final Energy Consumption by Source

		합계 Total	석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City gas	전력 Electricity	열 Heat	신재생 및 기타 <sup>1)</sup> Renewables & Others <sup>1)</sup>
		1,000 toe							
1990		74,701	19,454	45,252	-	1,011	8,111	75	797
1995		121,400	17,327	82,747	-	5,593	14,041	641	1,050
1996		131,573	18,406	88,566	-	6,937	15,692	811	1,161
1997		144,541	18,891	98,036	-	8,093	17,267	909	1,344
1998		132,177	17,993	86,712	-	8,425	16,638	882	1,526
1999		143,027	18,325	92,928	-	10,513	18,422	1,033	1,806
2000		149,958	19,661	93,839	0	12,561	20,600	1,167	2,130
2001		153,103	20,357	93,617	-	13,290	22,165	1,218	2,456
2002		160,876	21,485	96,635	-	14,567	23,947	1,316	2,925
2003		164,550	22,428	96,669	-	15,470	25,250	1,523	3,210
2004		166,452	22,100	95,942	-	16,193	26,840	1,449	3,928
2005		171,543	22,154	97,076	366	17,811	28,588	1,652	3,896
2006		174,873	22,461	97,665	738	18,379	29,990	1,549	4,092
2007		182,015	24,056	100,720	518	18,955	31,700	1,576	4,491
2008		183,054	25,879	97,316	564	19,765	33,116	1,668	4,747
2009		182,080	23,015	98,516	589	19,459	33,925	1,709	4,867
2010		195,401	28,189	100,519	989	21,081	37,338	1,939	5,346
2011		205,239	32,860	102,294	1,252	22,871	39,136	1,976	4,850
2012		206,968	31,017	101,683	1,156	24,728	40,127	2,102	6,156
2013		208,362	31,603	101,522	813	24,878	40,837	2,070	6,639
2014		210,448	35,198	102,664	769	23,041	41,073	1,528	6,175
2015		215,389	34,849	106,854	851	21,678	41,594	1,967	7,595
2016		221,936	32,342	114,264	1,044	22,186	42,745	2,183	7,173
2017		231,023	33,360	118,289	1,370	23,258	43,666	2,441	8,638
2018		233,368	32,480	116,831	2,038	24,979	45,249	2,682	9,110
2019		231,353	32,057	116,125	2,909	23,943	44,763	2,647	8,910
2020		222,563	30,457	109,344	3,602	23,100	43,797	2,770	9,493
2019	11	19,484	2,704	9,958	260	2,049	3,536	270	707
	12	21,595	2,715	10,630	288	2,922	3,847	445	748
2020	1	21,383	2,672	9,995	282	3,168	3,984	463	818
	2	19,557	2,346	9,001	284	2,913	3,827	408	779
	3	18,994	2,576	8,868	286	2,481	3,687	313	784
	4	17,692	2,394	8,618	268	1,949	3,481	213	770
	5	17,969	2,285	9,841	273	1,411	3,296	110	752
	6	17,074	2,377	8,961	302	1,162	3,419	82	773
	7	17,574	2,558	9,050	318	1,132	3,618	83	814
	8	17,731	2,599	8,938	327	1,115	3,836	91	826
	9	17,765	2,622	8,903	304	1,135	3,880	79	842
	10	17,387	2,642	8,742	314	1,440	3,360	145	744
	11	18,419	2,534	8,925	309	2,067	3,539	277	767
	12	21,018	2,853	9,502	334	3,127	3,872	505	825
2021 <sup>p</sup>	1	21,687	2,709	9,345	268	3,752	4,193	587	833
	2	19,719	2,365	8,998	235	3,074	3,886	418	742
	3	19,958	2,798	9,589	272	2,492	3,704	298	805
	4	18,835	2,560	9,525	288	1,860	3,603	173	825
	5	18,552	2,706	9,556	285	1,546	3,512	128	819
	6	18,269	2,475	9,642	313	1,319	3,615	97	807
	7	18,985	2,691	9,836	347	1,213	3,954	103	842
	8	19,152	2,751	9,748	323	1,161	4,208	92	869
	9	18,788	2,665	9,952	279	1,142	3,854	85	811
	10	18,616	2,594	9,810	264	1,499	3,598	144	707
	11	19,530	2,739	9,648	270	2,174	3,683	283	733
2020	1-11	201,545	27,605	99,842	3,268	19,974	39,925	2,265	8,668
2021 <sup>p</sup>	1-11	212,092	29,053	105,650	3,143	21,233	41,811	2,408	8,794

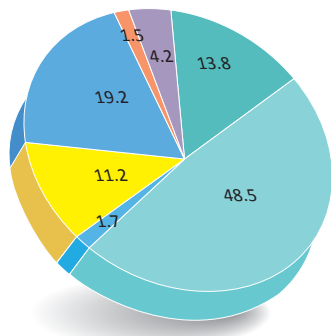
1. 기타: 폐기물을 이용하여 제조한 것

1. "Others" refers to energy generated from waste.

### ● 최종에너지 원별 구성비 Shares of Energy Sources in Final Consumption(%)

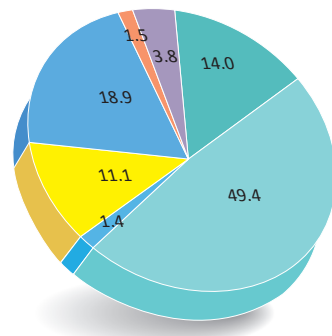


### ● 2020년 11월 November 2020(%)



■ 석탄 Coal      ■ 석유 Petroleum  
 ■ 액화천연가스 LNG      ■ 도시가스 City gas  
 ■ 전력 Electricity      ■ 열 Heat  
 ■ 신재생 및 기타 Renewables & Others

### ● 2021년 11월 November 2021<sup>p</sup>(%)



■ 석탄 Coal      ■ 석유 Petroleum  
 ■ 액화천연가스 LNG      ■ 도시가스 City gas  
 ■ 전력 Electricity      ■ 열 Heat  
 ■ 신재생 및 기타 Renewables & Others



## 2.1.2 최종에너지 원별 구성비

## Shares of Energy Sources in Final Consumption

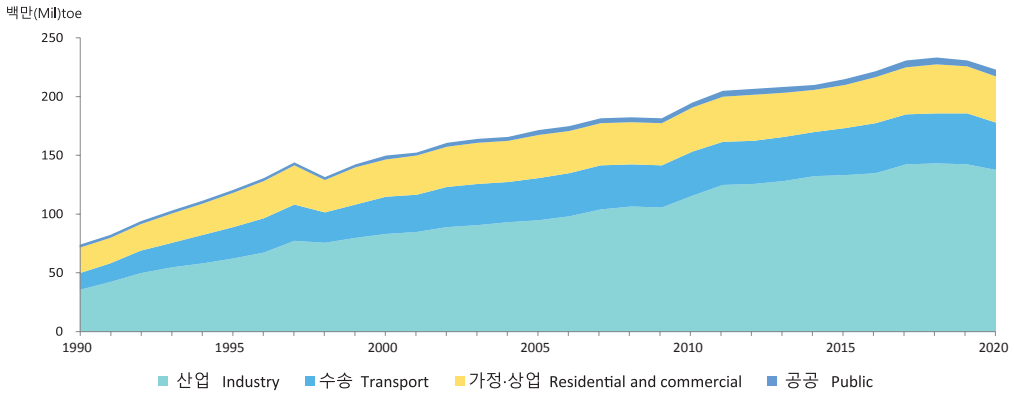
		석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City gas	전력 Electricity	열 Heat	신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>
		%						
1990		26.0	60.6	-	1.4	10.9	0.1	1.1
1995		14.3	68.2	-	4.6	11.6	0.5	0.9
1996		14.0	67.3	-	5.3	11.9	0.6	0.9
1997		13.1	67.8	-	5.6	11.9	0.6	0.9
1998		13.6	65.6	-	6.4	12.6	0.7	1.2
1999		12.8	65.0	-	7.4	12.9	0.7	1.3
2000		13.1	62.6	0	8.4	13.7	0.8	1.4
2001		13.3	61.1	-	8.7	14.5	0.8	1.6
2002		13.4	60.1	-	9.1	14.9	0.8	1.8
2003		13.6	58.7	-	9.4	15.3	0.9	2.0
2004		13.3	57.6	-	9.7	16.1	0.9	2.4
2005		12.9	56.6	0.2	10.4	16.7	1.0	2.3
2006		12.8	55.8	0.4	10.5	17.1	0.9	2.3
2007		13.2	55.3	0.3	10.4	17.4	0.9	2.5
2008		14.1	53.2	0.3	10.8	18.1	0.9	2.6
2009		12.6	54.1	0.3	10.7	18.6	0.9	2.7
2010		14.4	51.4	0.5	10.8	19.1	1.0	2.7
2011		16.0	49.8	0.6	11.1	19.1	1.0	2.4
2012		15.0	49.1	0.6	11.9	19.4	1.0	3.0
2013		15.2	48.7	0.4	11.9	19.6	1.0	3.2
2014		16.7	48.8	0.4	10.9	19.5	0.7	2.9
2015		16.2	49.6	0.4	10.1	19.3	0.9	3.5
2016		14.6	51.5	0.5	10.0	19.3	1.0	3.2
2017		14.4	51.2	0.6	10.1	18.9	1.1	3.7
2018		13.9	50.1	0.9	10.7	19.4	1.1	3.9
2019		13.9	50.2	1.3	10.3	19.3	1.1	3.9
2020		13.7	49.1	1.6	10.4	19.7	1.2	4.3
2019	11	13.9	51.1	1.3	10.5	18.1	1.4	3.6
	12	12.6	49.2	1.3	13.5	17.8	2.1	3.5
2020	1	12.5	46.7	1.3	14.8	18.6	2.2	3.8
	2	12.0	46.0	1.4	14.9	19.6	2.1	4.0
	3	13.6	46.7	1.5	13.1	19.4	1.6	4.1
	4	13.5	48.7	1.5	11.0	19.7	1.2	4.4
	5	12.7	54.8	1.5	7.9	18.3	0.6	4.2
	6	13.9	52.5	1.8	6.8	20.0	0.5	4.5
	7	14.6	51.5	1.8	6.4	20.6	0.5	4.6
	8	14.7	50.4	1.8	6.3	21.6	0.5	4.7
	9	14.8	50.1	1.7	6.4	21.8	0.4	4.7
	10	15.2	50.3	1.8	8.3	19.3	0.8	4.3
	11	13.8	48.5	1.7	11.2	19.2	1.5	4.2
	12	13.6	45.2	1.6	14.9	18.4	2.4	3.9
2021 <sup>p</sup>	1	12.5	43.1	1.2	17.3	19.3	2.7	3.8
	2	12.0	45.6	1.2	15.6	19.7	2.1	3.8
	3	14.0	48.0	1.4	12.5	18.6	1.5	4.0
	4	13.6	50.6	1.5	9.9	19.1	0.9	4.4
	5	14.6	51.5	1.5	8.3	18.9	0.7	4.4
	6	13.5	52.8	1.7	7.2	19.8	0.5	4.4
	7	14.2	51.8	1.8	6.4	20.8	0.5	4.4
	8	14.4	50.9	1.7	6.1	22.0	0.5	4.5
	9	14.2	53.0	1.5	6.1	20.5	0.5	4.3
	10	13.9	52.7	1.4	8.1	19.3	0.8	3.8
	11	14.0	49.4	1.4	11.1	18.9	1.5	3.8
2020	1-11	13.7	49.5	1.6	9.9	19.8	1.1	4.3
2021 <sup>p</sup>	1-11	13.7	49.8	1.5	10.0	19.7	1.1	4.1

1. 기타: 폐기물을 이용하여 제조한 것

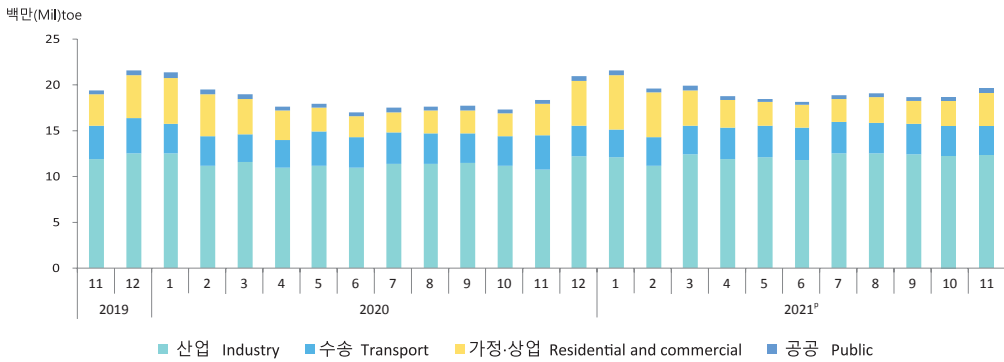
1. "Others" refers to energy generated from waste.

## ● 최종에너지 부문별 소비 Final Energy Consumption by Sector

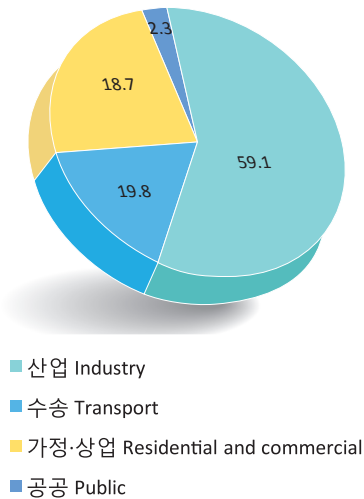
〈1990~2020〉



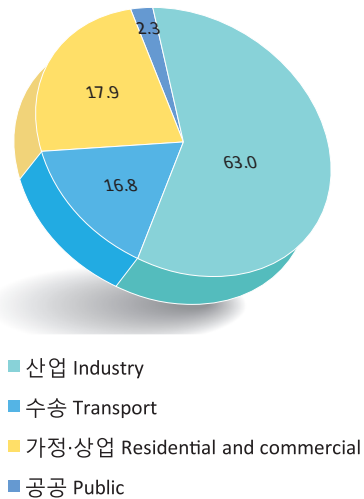
〈월별 Monthly〉



## ● 2020년 11월 November 2020(%)



## ● 2021년 11월 November 2021<sup>※</sup>(%)



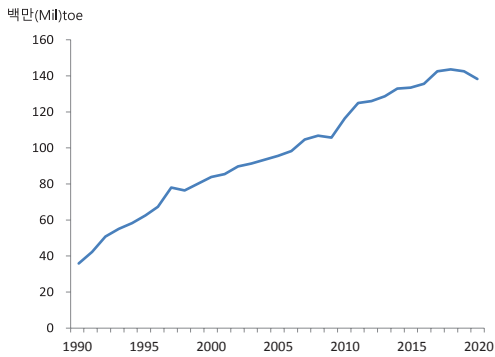
## 2.2.1 최종에너지 부문별 소비

## Final Energy Consumption by Sector

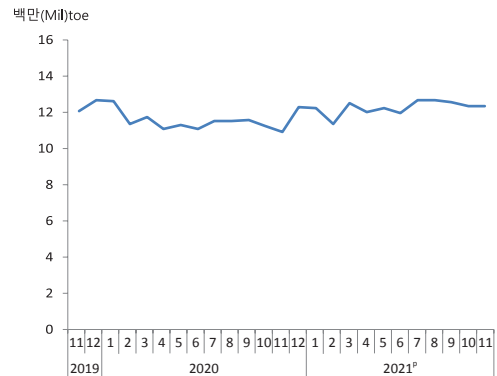
		합계 Total	산업 Industry	수송 Transport	가정·상업 Residential and Commercial	공공 Public
		1,000 toe				
1990		74,701	36,144	14,173	21,572	2,812
1995		121,400	62,707	27,146	29,131	2,415
1996		131,573	67,751	29,789	31,374	2,659
1997		144,541	78,322	30,736	32,768	2,715
1998		132,177	76,353	26,178	27,156	2,489
1999		143,027	80,114	28,625	31,640	2,649
2000		149,958	84,237	30,945	32,153	2,623
2001		153,103	85,562	31,910	32,639	2,991
2002		160,876	89,755	33,765	34,160	3,196
2003		164,550	91,400	34,634	34,786	3,730
2004		166,452	93,650	34,635	34,566	3,600
2005		171,543	95,578	35,534	36,336	4,095
2006		174,873	98,577	36,522	35,921	3,853
2007		182,015	104,866	37,059	35,941	4,150
2008		183,054	106,902	35,756	36,286	4,110
2009		182,080	106,053	35,892	35,829	4,305
2010		195,401	116,590	36,903	37,425	4,482
2011		205,239	125,332	36,842	38,265	4,800
2012		206,968	126,368	36,783	38,603	5,214
2013		208,362	128,920	36,961	37,765	4,716
2014		210,448	132,897	37,241	35,627	4,683
2015		215,389	133,416	39,851	37,021	5,101
2016		221,936	135,698	42,271	38,721	5,246
2017		231,023	142,519	43,183	39,860	5,461
2018		233,368	143,498	42,969	41,334	5,567
2019		231,353	142,903	42,996	40,056	5,399
2020		222,563	137,964	39,436	39,912	5,251
2019	11	19,484	12,062	3,612	3,378	433
	12	21,595	12,675	3,747	4,660	513
2020	1	21,383	12,569	3,246	5,041	526
	2	19,557	11,305	3,138	4,632	482
	3	18,994	11,737	2,951	3,870	435
	4	17,692	11,065	2,981	3,253	394
	5	17,969	11,280	3,678	2,634	377
	6	17,074	11,042	3,361	2,267	404
	7	17,574	11,506	3,372	2,275	420
	8	17,731	11,492	3,320	2,487	432
	9	17,765	11,553	3,267	2,498	447
	10	17,387	11,244	3,191	2,561	391
	11	18,419	10,893	3,645	3,451	430
	12	21,018	12,277	3,286	4,942	512
2021 <sup>P</sup>	1	21,687	12,201	3,053	5,870	562
	2	19,719	11,337	3,012	4,878	492
	3	19,958	12,498	3,142	3,848	470
	4	18,835	12,007	3,377	3,036	415
	5	18,552	12,197	3,398	2,564	394
	6	18,269	11,934	3,506	2,412	418
	7	18,985	12,662	3,409	2,462	452
	8	19,152	12,635	3,311	2,748	458
	9	18,788	12,541	3,342	2,474	432
	10	18,616	12,329	3,176	2,697	414
	11	19,530	12,313	3,282	3,496	440
2020	1-11	201,545	125,687	36,150	34,970	4,738
2021 <sup>P</sup>	1-11	212,092	134,654	36,008	36,485	4,946

## ● 산업 Industry

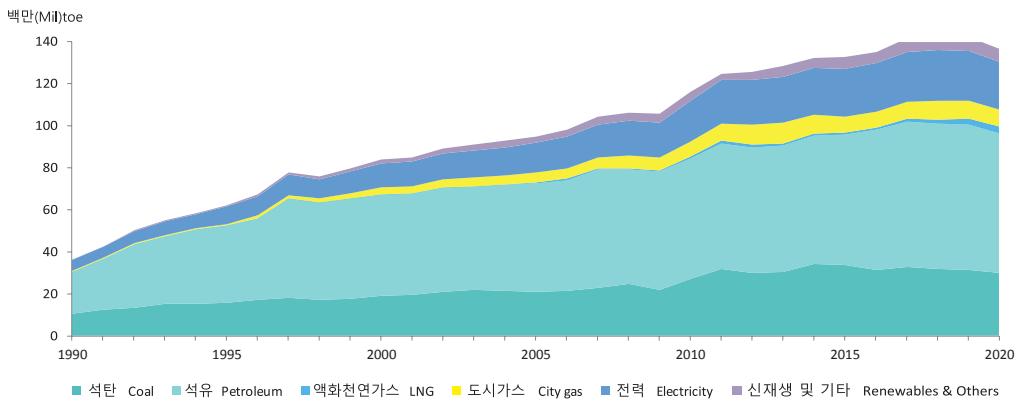
〈1990~2020〉



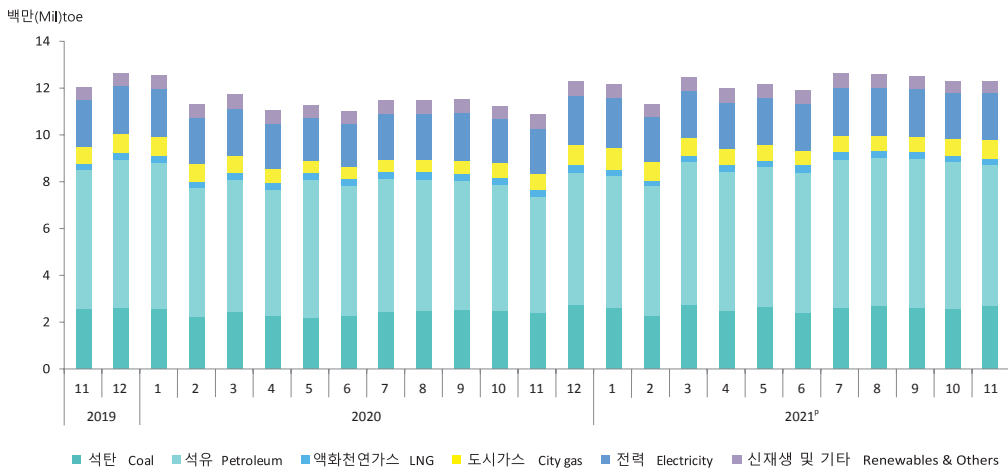
〈월별 Monthly〉



〈1990~2020〉



〈월별 Monthly〉



## 2.2.2 산업

## Industry

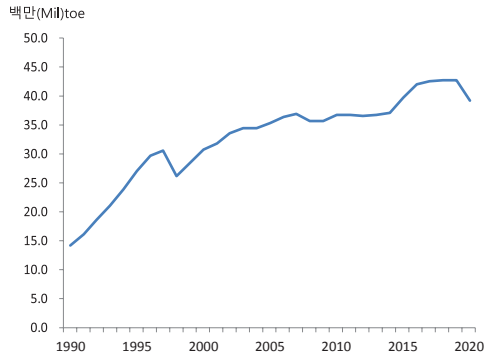
		합계 Total	석탄 Coal	석유 Petroleum	액화천연가스 LNG	도시가스 City gas	전력 Electricity	신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>
		1,000 toe						
1990		36,144	10,806	20,014	-	235	5,089	0
1995		62,707	15,972	36,843	-	863	8,293	736
1996		67,751	17,523	38,940	-	1,196	9,179	912
1997		78,322	18,266	47,429	-	1,496	10,009	1,123
1998		76,353	17,440	46,456	-	1,812	9,359	1,287
1999		80,114	17,822	47,800	-	2,530	10,394	1,568
2000		84,237	19,125	48,522	0	3,308	11,374	1,908
2001		85,562	19,804	48,254	-	3,612	11,678	2,215
2002		89,755	20,956	50,032	-	3,984	12,423	2,359
2003		91,400	21,890	49,898	-	4,177	12,933	2,503
2004		93,650	21,475	50,839	-	4,382	13,617	3,337
2005		95,578	21,242	51,746	366	4,656	14,346	3,222
2006		98,577	21,398	53,114	738	4,847	15,021	3,459
2007		104,866	23,043	56,364	518	5,225	16,018	3,699
2008		106,902	24,791	54,964	564	5,933	16,738	3,912
2009		106,053	22,075	56,616	589	5,891	17,006	3,876
2010		116,590	27,288	57,576	989	7,329	19,193	4,215
2011		125,332	31,989	59,977	1,252	8,383	20,830	2,900
2012		126,368	30,185	60,073	1,156	9,501	21,426	4,028
2013		128,920	30,730	60,369	813	9,903	22,088	5,017
2014		132,897	34,452	61,343	769	9,050	22,757	4,526
2015		133,416	34,177	62,156	851	7,644	22,844	5,743
2016		135,698	31,770	66,820	1,044	7,537	23,218	5,309
2017		142,519	32,847	69,871	1,370	8,010	23,794	6,627
2018		143,498	32,048	69,294	2,038	9,028	24,399	6,691
2019		142,903	31,752	69,216	2,909	8,540	24,060	6,426
2020		137,964	30,216	66,483	3,602	7,813	23,108	6,743
2019	11	12,062	2,640	5,942	260	738	1,958	523
	12	12,675	2,672	6,344	288	796	2,032	543
2020	1	12,569	2,645	6,249	282	779	2,024	591
	2	11,305	2,323	5,462	284	743	1,930	563
	3	11,737	2,557	5,583	286	741	1,989	580
	4	11,065	2,382	5,342	268	643	1,882	549
	5	11,280	2,280	5,871	273	541	1,792	523
	6	11,042	2,374	5,492	302	525	1,819	531
	7	11,506	2,555	5,611	318	538	1,923	561
	8	11,492	2,597	5,553	327	512	1,938	566
	9	11,553	2,605	5,476	304	593	1,993	582
	10	11,244	2,597	5,309	314	633	1,851	540
	11	10,893	2,494	4,893	309	706	1,928	563
	12	12,277	2,808	5,644	334	857	2,039	595
2021 <sup>P</sup>	1	12,201	2,683	5,621	268	935	2,107	587
	2	11,337	2,347	5,520	235	801	1,922	512
	3	12,498	2,784	6,117	272	743	2,010	572
	4	12,007	2,551	5,926	288	690	1,971	581
	5	12,197	2,702	5,986	285	668	1,977	579
	6	11,934	2,472	5,982	313	638	1,979	550
	7	12,662	2,688	6,305	347	635	2,102	585
	8	12,635	2,747	6,333	323	613	2,053	566
	9	12,541	2,650	6,412	279	621	2,039	540
	10	12,329	2,557	6,319	264	713	1,979	497
	11	12,313	2,698	6,037	270	785	2,014	509
2020	1-11	125,687	27,408	60,839	3,268	6,956	21,068	6,148
2021 <sup>P</sup>	1-11	134,654	28,882	66,558	3,143	7,841	22,152	6,079

1. 기타: 폐기물을 이용하여 제조한 것

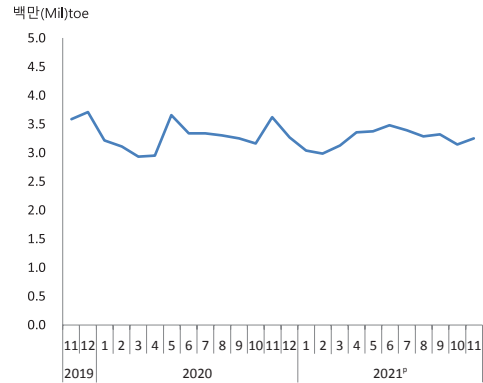
1. "Others" refers to energy generated from waste.

## ●수송 Transport

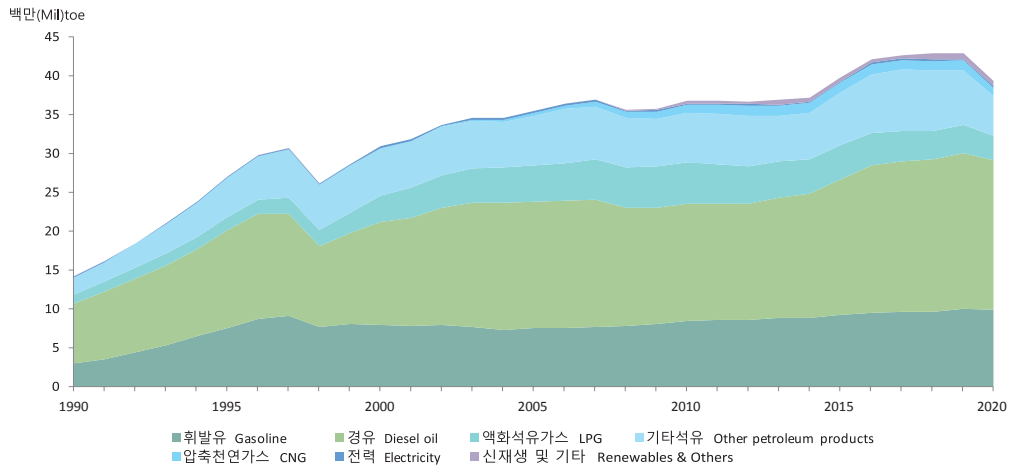
〈1990~2020〉



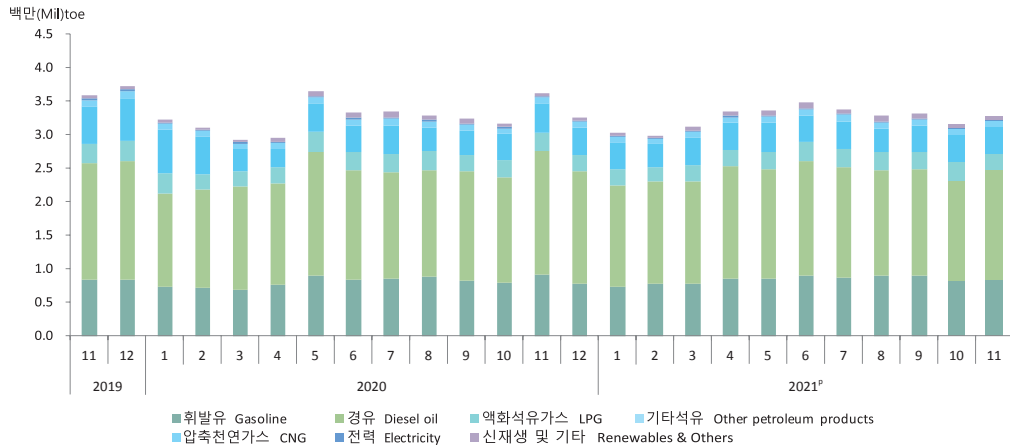
〈월별 Monthly〉



〈1990~2020〉



〈월별 Monthly〉



## 2.2.3 수송

## Transport

		합계 Total	휘발유 Gasoline	경유 Diesel oil	액화석유가스 LPG	압축천연가스 CNG	전력 Electricity	신재생 Renewables
		1,000 toe						
1990		14,173	2,936	7,748	1,222	-	87	-
1995		27,146	7,527	12,639	1,766	-	138	-
1996		29,789	8,664	13,572	1,861	-	145	-
1997		30,736	9,074	13,235	1,990	-	151	-
1998		26,178	7,618	10,469	2,090	-	136	-
1999		28,625	8,070	11,725	2,599	-	149	-
2000		30,945	7,884	13,283	3,453	-	175	-
2001		31,910	7,848	13,892	3,946	7	194	-
2002		33,765	7,961	15,089	4,229	80	195	-
2003		34,634	7,634	16,106	4,415	146	200	-
2004		34,635	7,335	16,388	4,586	239	213	6
2005		35,534	7,512	16,300	4,680	339	224	13
2006		36,522	7,574	16,388	4,844	475	218	53
2007		37,059	7,686	16,414	5,174	615	209	96
2008		35,756	7,745	15,353	5,191	777	196	178
2009		35,892	8,106	14,949	5,332	960	187	254
2010		36,903	8,498	15,099	5,294	1,112	188	357
2011		36,842	8,579	15,046	5,036	1,174	193	336
2012		36,783	8,612	14,954	4,863	1,248	194	360
2013		36,961	8,802	15,552	4,755	1,299	186	548
2014		37,241	8,805	16,058	4,455	1,307	172	454
2015		39,851	9,186	17,566	4,405	1,288	191	445
2016		42,271	9,511	19,028	4,209	1,270	231	443
2017		43,183	9,625	19,833	3,930	1,253	246	428
2018		42,969	9,649	19,645	3,664	1,238	265	683
2019		42,996	10,050	20,068	3,608	1,216	271	700
2020		39,436	9,857	19,359	3,140	1,099	271	690
2019	11	3,612	850	1,744	289	100	21	45
	12	3,747	858	1,776	292	102	23	45
2020	1	3,246	752	1,398	296	96	24	34
	2	3,138	723	1,482	223	91	23	32
	3	2,951	699	1,556	219	89	21	38
	4	2,981	775	1,527	239	84	22	64
	5	3,678	916	1,844	302	89	19	80
	6	3,361	855	1,637	266	95	22	83
	7	3,372	872	1,582	278	99	23	83
	8	3,320	897	1,592	287	97	25	72
	9	3,267	838	1,631	256	90	24	71
	10	3,191	805	1,576	262	89	21	50
	11	3,645	928	1,855	277	89	22	41
	12	3,286	797	1,681	235	90	27	42
2021 <sup>P</sup>	1	3,053	749	1,522	243	87	22	37
	2	3,012	793	1,526	221	78	23	32
	3	3,142	791	1,530	246	90	21	50
	4	3,377	868	1,690	236	86	21	70
	5	3,398	863	1,648	253	88	19	78
	6	3,506	905	1,721	288	91	23	84
	7	3,409	888	1,643	278	96	24	65
	8	3,311	907	1,590	262	92	26	83
	9	3,342	919	1,589	250	86	23	75
	10	3,176	814	1,531	271	88	21	39
	11	3,282	836	1,634	255	87	21	44
2020	1-11	36,150	9,060	17,679	2,905	1,008	245	648
2021 <sup>P</sup>	1-11	36,008	9,332	17,623	2,802	969	245	658

주: 합계에는 항공유, 중유 및 기타 석유제품 포함.

Note: Total includes jet oil, fuel oil and other petroleum products.

## 2.2.4 가정·상업

		합계 Total		석탄 Coal		석유 Petroleum		도시가스 City gas	
		가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	가정 Residential	상업 Commercial
		1,000 toe							
1990		16,366	5,206	8,627	-	4,960	3,916	455	322
1995		19,229	9,902	1,355	-	10,851	6,621	3,767	839
1996		21,000	10,375	883	-	12,022	6,429	4,515	1,073
1997		20,956	11,812	625	-	11,241	7,329	5,297	1,139
1998		17,128	10,028	553	-	7,424	5,575	5,341	1,112
1999		19,961	11,679	503	-	8,958	6,424	6,409	1,374
2000		21,160	10,993	536	-	8,881	4,527	7,353	1,671
2001		21,379	11,260	553	-	8,706	3,621	7,526	1,885
2002		22,318	11,843	529	-	8,516	3,378	8,109	2,132
2003		22,346	12,440	539	-	7,907	3,166	8,530	2,359
2004		22,467	12,100	626	-	7,469	2,109	8,636	2,657
2005		22,147	14,189	912	-	5,781	3,174	9,524	2,979
2006		21,237	14,684	1,063	-	4,526	2,970	9,685	3,173
2007		21,016	14,925	1,014	-	4,161	2,781	9,723	3,108
2008		21,126	15,160	1,088	-	4,041	2,528	9,624	3,139
2009		20,611	15,218	940	-	3,802	2,343	9,267	3,065
2010		21,334	16,092	901	-	3,988	2,409	9,366	3,122
2011		21,871	16,394	871	-	3,736	2,201	10,125	3,076
2012		21,649	16,954	832	-	3,272	2,098	10,109	3,688
2013		21,293	16,471	872	-	3,075	1,923	9,849	3,730
2014		19,813	15,814	745	-	2,965	1,741	9,124	3,476
2015		20,538	16,483	672	-	3,186	2,134	9,192	3,469
2016		21,667	17,055	571	-	3,632	2,052	9,647	3,645
2017		22,479	17,381	513	-	3,648	2,045	10,238	3,680
2018		23,460	17,874	432	-	3,366	1,959	10,901	3,713
2019		22,567	17,489	306	-	3,051	1,773	10,479	3,630
2020		23,201	16,711	242	-	2,732	1,621	10,900	3,219
2019 11		2,020	1,358	64	-	297	162	912	295
12		2,947	1,713	43	-	386	201	1,594	418
2020 1		3,218	1,823	28	-	346	192	1,852	430
2		2,952	1,680	23	-	289	154	1,693	375
3		2,455	1,415	18	-	247	136	1,360	283
4		2,005	1,248	12	-	243	131	999	219
5		1,468	1,166	5	-	250	141	592	186
6		1,044	1,223	3	-	118	97	326	213
7		977	1,298	2	-	96	94	264	228
8		1,090	1,397	3	-	101	90	261	240
9		1,200	1,298	17	-	149	103	258	191
10		1,420	1,141	45	-	195	120	521	193
11		2,109	1,342	40	-	279	161	995	271
12		3,264	1,678	45	-	419	202	1,779	389
2021 <sup>p</sup> 1		3,903	1,967	26	-	447	249	2,268	448
2		3,138	1,741	18	-	311	191	1,813	372
3		2,374	1,475	13	-	220	166	1,334	318
4		1,752	1,283	9	-	176	142	854	225
5		1,356	1,208	3	-	139	135	577	211
6		1,101	1,311	3	-	128	145	355	231
7		1,027	1,435	3	-	99	127	237	238
8		1,231	1,516	4	-	111	115	222	228
9		1,133	1,341	15	-	176	130	233	197
10		1,416	1,281	36	-	233	142	467	227
11		2,105	1,391	40	-	232	157	1,018	279
2020 1-11		19,937	15,033	197	-	2,314	1,419	9,121	2,829
2021 <sup>p</sup> 1-11		20,536	15,948	171	-	2,273	1,699	9,378	2,972

1. 기타: 폐기물을 이용하여 제조한 것

주 1. 신재생 원수치는 가정, 상업 합계임.

2. 연탄소비는 모두 가정부문에 포함.



## Residential and Commercial

전력 Electricity		열 Heat		신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>			
가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	가정 Residential	상업 Commercial		
1,000 toe							
1,525	896	68	6	731	66		1990
2,434	2,367	610	22	212	53		1995
2,635	2,829	762	33	182	10		1996
2,796	3,294	850	42	146	8		1997
2,830	3,291	825	41	154	8		1998
2,974	3,819	959	56	159	5		1999
3,191	4,700	1,084	63	115	33		2000
3,372	5,633	1,111	80	109	42		2001
3,636	6,223	1,203	84	325	26		2002
3,833	6,752	1,252	105	286	58		2003
4,181	7,171	1,299	116	256	47		2004
4,375	7,858	1,466	143	89	34		2005
4,517	8,366	1,367	140	79	37		2006
4,659	8,854	1,391	142	69	39		2007
4,836	9,308	1,472	150	65	35		2008
4,953	9,640	1,519	137	129	33		2009
5,263	10,373	1,744	154	72	33		2010
5,295	10,463	1,774	158	70	495		2011
5,464	10,585	1,878	177	94	405		2012
5,501	10,576	1,841	182	155	60		2013
5,390	10,316	1,376	126	213	155		2014
5,486	10,533	1,758	173	243	174		2015
5,691	10,959	1,895	238	231	160		2016
5,720	11,212	2,105	280	254	163		2017
6,079	11,722	2,289	332	393	147		2018
6,059	11,606	2,224	348	447	132		2019
6,370	11,356	2,352	352	604	163		2020
475	867	237	26	35	10	11	2019
501	1,035	386	48	37	12	12	
538	1,136	403	49	51	16	1	2020
539	1,093	356	43	51	16	2	
505	953	277	29	48	14	3	
510	869	193	16	48	12	4	
479	815	96	13	45	12	5	
495	876	54	24	47	13	6	
515	934	51	29	49	13	7	
617	1,016	50	37	58	15	8	
657	971	56	20	62	14	9	
482	804	131	12	46	12	10	
501	872	246	25	47	13	11	
533	1,018	438	55	51	15	12	
597	1,183	506	68	59	19	1	2021 <sup>P</sup>
575	1,113	362	46	57	19	2	
495	944	262	29	49	17	3	
508	884	154	16	51	16	4	
481	831	109	17	48	15	5	
502	889	63	31	50	16	6	
582	1,003	48	50	58	17	7	
776	1,109	41	46	77	19	8	
596	967	52	30	59	17	9	
508	878	121	20	51	15	10	
515	911	248	29	51	16	11	
5,838	10,339	1,913	297	554	149	1-11	2020
6,135	10,712	1,967	381	611	185	1-11	2021 <sup>P</sup>

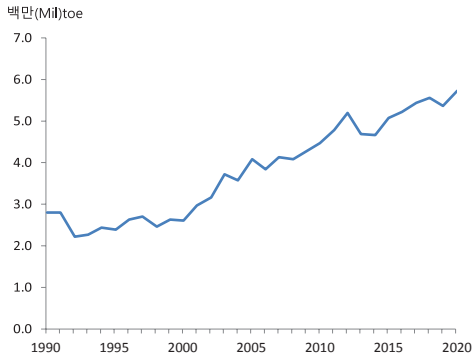
1. "Others" refers to energy generated from waste.

Note 1. Monthly values for renewables are the sum of residential and commercial sectors.

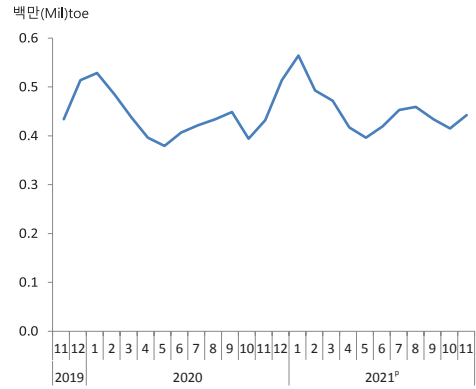
2. The entire coal consumption belongs to the residential sector.

## ● 공공 Public

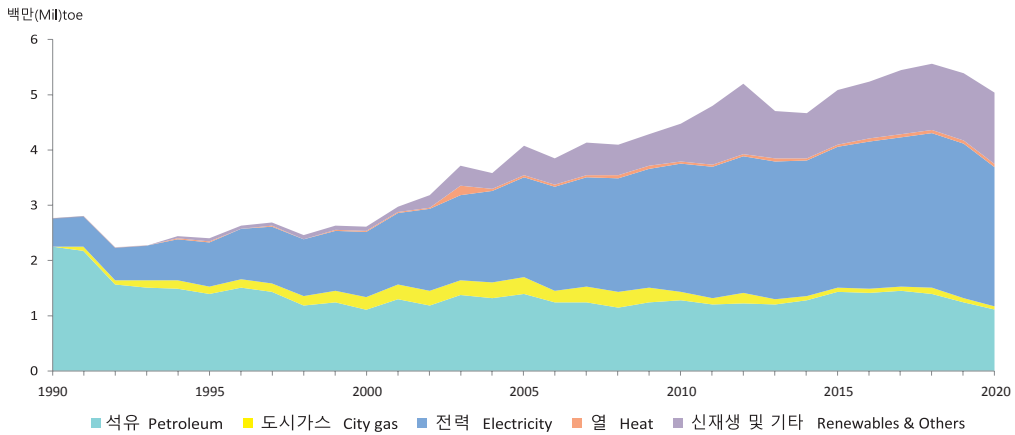
〈1990~2020〉



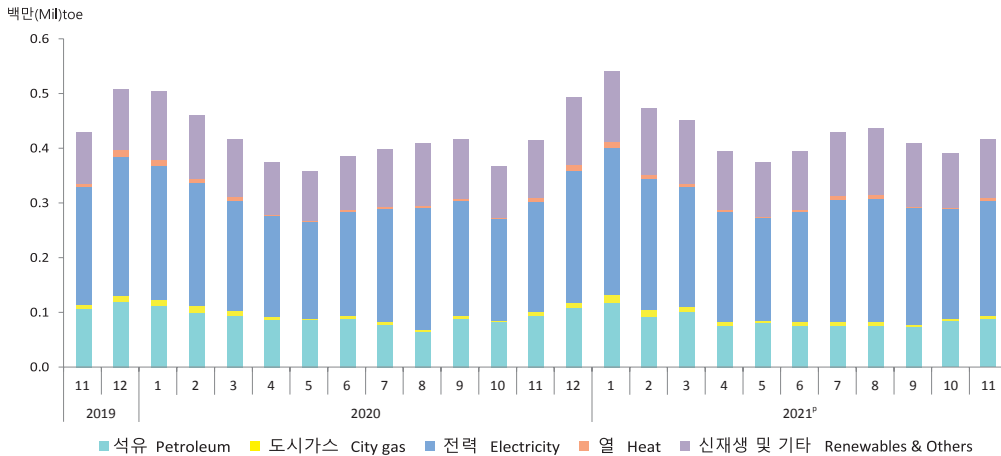
〈월별 Monthly〉



〈1990~2020〉



〈월별 Monthly〉



## 2.2.5 공공

## Public

		합계 Total	석유 Petroleum	도시가스 City gas	전력 Electricity	열 Heat	신재생 및 기타 <sup>1</sup> Renewables & Others <sup>1</sup>
		1,000 toe					
1990		2,812	2,276	-	514	1	-
1995		2,415	1,424	125	808	10	49
1996		2,659	1,530	153	904	15	57
1997		2,715	1,453	161	1,017	17	67
1998		2,489	1,215	160	1,022	16	77
1999		2,649	1,270	199	1,086	18	75
2000		2,623	1,140	229	1,160	20	74
2001		2,991	1,328	259	1,288	27	90
2002		3,196	1,220	262	1,470	30	215
2003		3,730	1,411	259	1,531	166	364
2004		3,600	1,347	279	1,658	34	283
2005		4,095	1,417	313	1,785	42	538
2006		3,853	1,279	199	1,868	42	464
2007		4,150	1,274	285	1,960	43	588
2008		4,110	1,176	292	2,039	45	557
2009		4,305	1,264	277	2,138	52	575
2010		4,482	1,299	152	2,321	41	669
2011		4,800	1,241	112	2,355	44	1,048
2012		5,214	1,258	181	2,459	47	1,270
2013		4,716	1,227	98	2,485	46	859
2014		4,683	1,306	85	2,438	27	827
2015		5,101	1,450	85	2,540	36	990
2016		5,246	1,432	88	2,646	50	1,030
2017		5,461	1,470	77	2,694	55	1,166
2018		5,567	1,429	99	2,784	61	1,195
2019		5,399	1,276	78	2,766	74	1,205
2020		5,251	1,130	70	2,692	66	1,292
2019	11	433	112	6	215	7	94
	12	513	122	11	256	12	112
2020	1	526	116	12	262	11	126
	2	482	104	10	242	9	116
	3	435	99	7	218	7	105
	4	394	91	5	199	4	96
	5	377	90	2	191	2	92
	6	404	93	3	206	3	99
	7	420	82	4	224	3	107
	8	432	68	4	240	4	115
	9	447	93	4	235	3	113
	10	391	87	3	202	3	97
	11	430	98	5	216	6	104
	12	512	110	11	256	12	123
2021 <sup>p</sup>	1	562	121	14	284	14	130
	2	492	97	11	253	9	121
	3	470	106	8	234	7	116
	4	415	80	5	220	3	107
	5	394	86	3	204	2	100
	6	418	80	5	222	3	108
	7	452	79	7	243	5	117
	8	458	80	7	244	4	123
	9	432	75	5	230	3	119
	10	414	89	4	212	3	106
	11	440	93	5	222	6	113
2020	1-11	4,738	1,020	59	2,435	55	1,169
2021 <sup>p</sup>	1-11	4,946	985	73	2,568	60	1,261

1. 기타: 폐기물을 이용하여 제조한 것

1. "Others" refers to energy generated from waste.



## 3. 석유

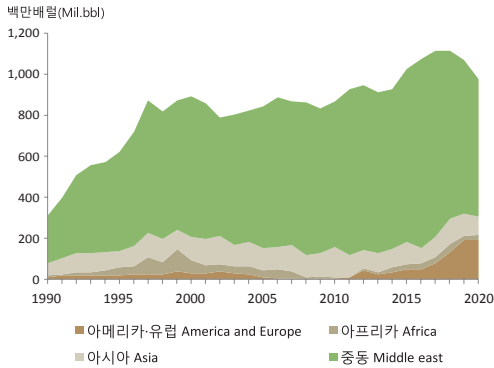
### Petroleum



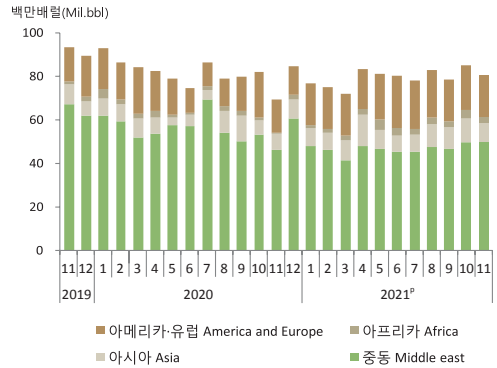
- 3.1 원유 수급  
Crude Oil Supply and Demand
- 3.2 석유제품 수급  
Petroleum Products Supply and Demand
- 3.3 계약형태별 원유 수입  
Crude Oil Imports by Contract Type
- 3.4 국별 원유 수입  
Crude Oil Imports by Country
- 3.5 석유제품 수입  
Petroleum Products Imports
- 3.6 석유제품 수출  
Petroleum Products Exports
- 3.7 석유제품 생산  
Petroleum Products Production
- 3.8 석유제품 공급  
Petroleum Products Supply
- 3.9 휘발유 수급  
Gasoline Supply and Demand
- 3.10 경유 수급  
Diesel Oil Supply and Demand
- 3.11 등유 수급  
Kerosene Supply and Demand
- 3.12 중유 수급  
Fuel Oil Supply and Demand
- 3.13 액화석유가스(LPG) 수급  
LPG Supply and Demand
- 3.14 나프타 수급  
Naphtha Supply and Demand

## ● 원유 수입 Crude Oil Imports

〈1990~2020〉

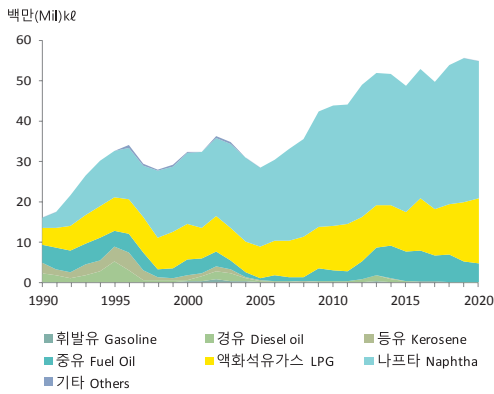


〈월별 Monthly〉

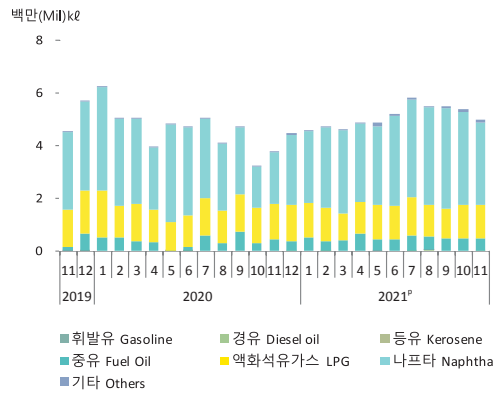


## ● 석유제품 수입 Petroleum Products Imports

〈1990~2020〉

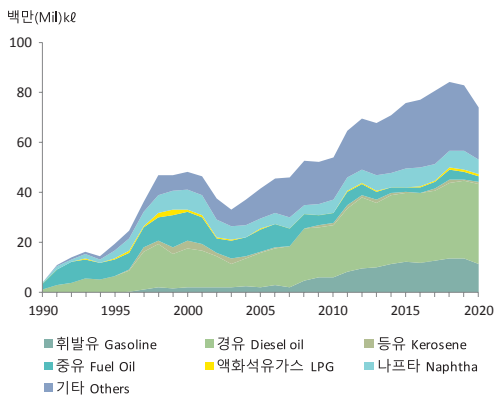


〈월별 Monthly〉

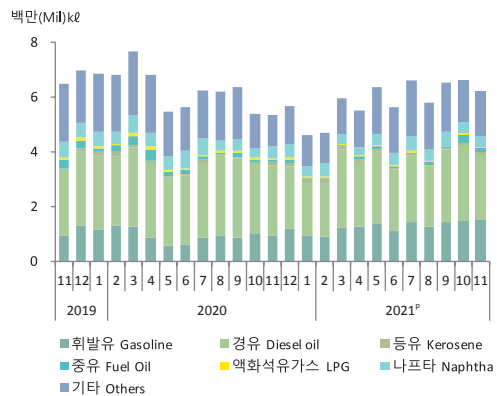


## ● 석유제품 수출 Petroleum Products Exports

〈1990~2020〉

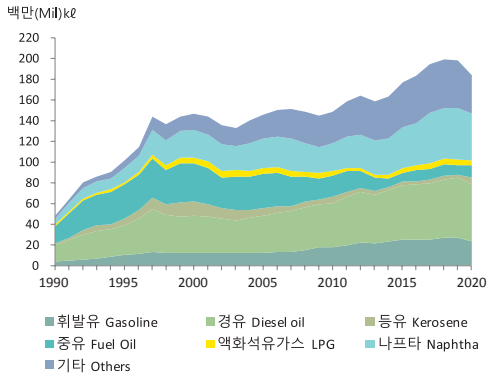


〈월별 Monthly〉

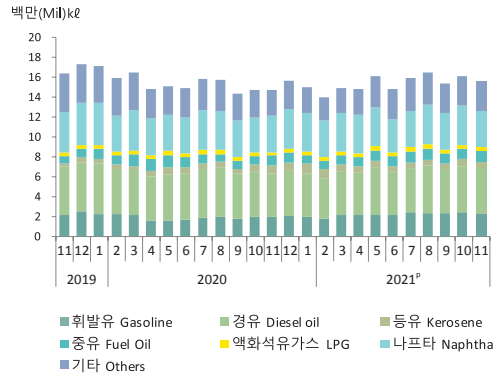


## ● 석유제품 생산 Petroleum Products Production

〈1990~2020〉

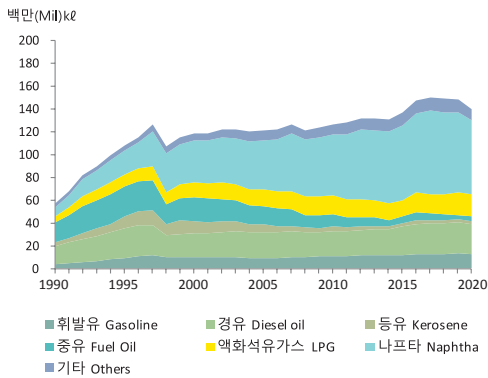


〈월별 Monthly〉

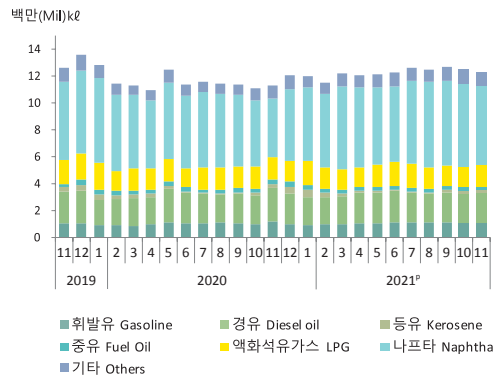


## ● 석유제품 1차에너지 공급 Primary Energy Supply of Petroleum Products

〈1990~2020〉

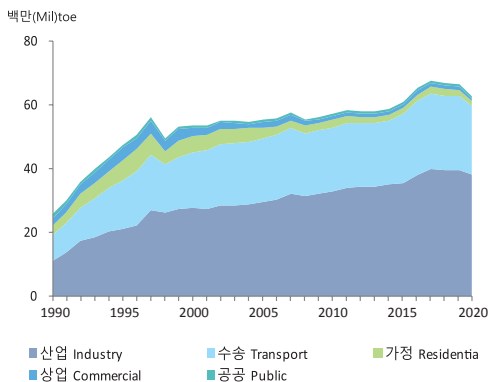


〈월별 Monthly〉

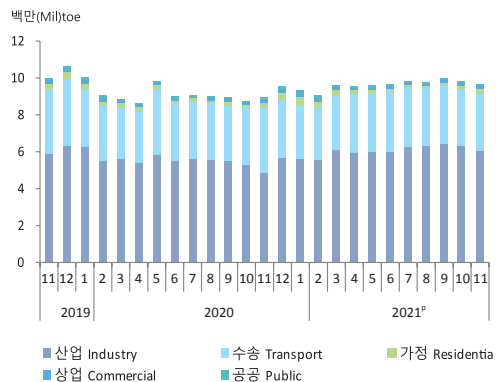


## ● 석유제품 최종에너지 부문별 소비 Final Energy Consumption of Petroleum Products by Sector

〈1990~2020〉



〈월별 Monthly〉



## 3.1 원유 수급

## Crude Oil Supply and Demand

		국내생산 <sup>1</sup>	수입	재고	정제투입			정제능력 <sup>3</sup>	정제가동률 <sup>4</sup>	
					Refinery intake					
					원유	정제원료(반제품)	기타 <sup>2</sup>			
		Domestic production <sup>1</sup>	Imports	Stock	Crude oil	Refinery feedstocks	Others <sup>2</sup>	Refining capacity <sup>3</sup>	Operable utilization rate <sup>4</sup>	
		1,000 배럴(bbl)							1,000 BPSD	%
1990		-	308,368	3,370	306,493	6,766	-	840	100.0	
1995		-	624,945	10,377	631,078	30,297	-	1,818	95.1	
1996		-	721,927	11,297	720,846	26,986	-	2,438	81.0	
1997		-	873,415	11,385	871,974	38,357	3,378	2,438	98.0	
1998		-	819,094	3,598	825,890	36,660	2,937	2,438	92.8	
1999		-	874,090	3,449	872,742	32,709	3,342	2,438	98.	
2000		-	893,943	3,865	890,304	28,777	4,316	2,438	100.1	
2001		-	859,367	3,853	860,115	33,150	3,518	2,438	96.7	
2002		-	790,992	6,996	786,805	50,421	3,246	2,438	88.4	
2003		-	804,809	27,637	782,951	40,235	3,542	2,438	88.0	
2004		-	825,790	25,574	826,551	35,760	3,723	2,735	82.8	
2005	407	843,203	15,495	852,439	41,509	4,299	2,735	85.4		
2006	333	888,794	23,691	878,395	36,067	4,735	2,735	88.0		
2007	236	872,541	11,637	882,117	38,721	4,865	2,765	87.4		
2008	155	864,872	10,723	865,663	40,409	4,959	2,785	85.2		
2009	321	835,085	7,244	838,475	33,399	5,731	2,835	81.0		
2010	380	872,415	7,611	872,247	26,633	5,986	2,845	84.0		
2011	285	927,044	10,980	924,441	38,696	5,920	2,934	86.3		
2012	263	947,292	13,231	945,162	41,488	5,926	2,949	87.8		
2013	290	915,075	19,245	906,674	43,878	4,866	2,949	84.2		
2014	198	927,524	27,518	918,345	51,067	4,714	3,009	83.6		
2015	115	1,026,107	37,407	1,016,157	50,438	5,287	3,059	91.0		
2016	104	1,078,119	41,847	1,071,731	52,340	5,444	3,064	95.8		
2017	217	1,118,167	42,080	1,117,376	76,404	5,506	3,105	98.6		
2018	189	1,116,281	50,511	1,106,266	110,775	5,450	3,204	94.6		
2019	155	1,071,923	43,999	1,064,210	132,433	4,940	3,204	91.2		
2020	103	980,259	42,300	980,379	142,013	5,966	3,204	83.6		
2019	11	8	93,102	46,458	85,944	11,309	377	3,204	89.4	
	12	12	89,466	43,999	91,734	13,298	405	3,204	92.4	
2020	1	14	92,712	45,067	91,412	13,896	387	3,204	92.0	
	2	12	86,304	49,126	82,180	11,954	366	3,204	88.4	
	3	13	84,104	45,118	88,002	12,847	330	3,204	88.6	
	4	12	82,283	48,774	78,482	12,107	487	3,204	81.7	
	5	14	78,834	46,604	80,888	10,293	536	3,204	81.4	
	6	11	74,659	40,999	80,078	10,250	508	3,204	80.6	
	7	7	86,446	45,068	82,262	13,701	578	3,204	82.8	
	8	7	78,949	41,944	82,052	12,473	626	3,204	82.6	
	9	1	79,843	44,924	76,616	11,264	485	3,204	79.7	
	10	-	82,142	48,437	78,516	9,736	563	3,204	79.1	
	11	7	69,534	41,578	76,291	12,672	544	3,204	79.4	
	12	5	84,449	42,300	83,601	10,821	556	3,204	84.2	
2021 <sup>p</sup>	1	5	76,874	40,258	78,813	11,854	528	3,204	79.3	
	2	2	74,973	41,655	73,475	11,042	540	3,204	74.0	
	3	5	71,916	35,721	77,739	12,002	566	3,204	78.3	
	4	5	83,359	41,754	77,200	12,161	550	3,204	77.7	
	5	5	80,960	40,638	81,894	15,643	567	3,204	82.5	
	6	0	80,165	44,203	76,400	13,871	579	3,204	76.9	
	7	3	78,032	41,036	80,999	15,581	607	3,204	81.6	
	8	2	82,826	38,799	84,882	15,062	630	3,204	85.5	
	9	2	78,627	38,377	78,884	14,513	584	3,204	79.4	
	10	2	85,129	39,499	83,858	13,909	571	3,204	84.4	
	11	3	80,359	38,828	80,874	14,208	501	3,204	81.4	
2020	1-11	98	895,810	41,578	896,778	131,193	5,410	3,204	83.6	
2021 <sup>p</sup>	1-11	33	873,221	38,828	875,020	149,847	6,223	3,204	81.8	

1. 울산 동해-1 가스전에서 2004년부터 생산하고 있음.

2. 첨가제 및 산소성분

3. 국내 모든 정유사 정제능력의 합계

4. 정제능력 대비 해당 월의 1일 원유처리(투입)량의 비율

자료 : 한국석유공사-PEDSIS, 대한석유회

1. Production at the Ulsan Donghae-1 gas field since 2004.

2. Additives and oxygenates.

3. Combined capacity of all refineries in South Korea.

4. Ratio of crude throughput (feedstocks) per day to refining capacity on a given month.

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



## 3.2 석유제품 수급

## Petroleum Products Supply and Demand

		생산 Production	수입 Imports	수출 Exports	국제병커링 <sup>1</sup> International bunkers <sup>1</sup>	재고 Stocks	국내공급 <sup>2</sup> Domestic supply <sup>2</sup>
		1,000 kℓ					
1990		48,410	16,097	4,322	2,403	3,112	56,654
1995		102,243	32,660	19,496	5,897	5,984	107,666
1996		115,125	34,201	25,172	6,690	6,754	114,637
1997		144,908	29,541	36,733	7,334	7,756	126,217
1998		137,497	27,965	47,168	7,312	7,381	106,564
1999		144,848	29,331	47,361	7,798	6,802	114,414
2000		147,362	32,481	48,696	7,388	7,899	118,055
2001		144,253	32,557	46,902	7,366	7,847	118,231
2002		136,466	36,337	38,017	7,387	6,877	121,284
2003		133,712	34,960	33,240	8,448	6,675	121,295
2004		140,926	31,019	37,442	9,283	8,040	119,608
2005		146,726	28,514	41,757	8,845	6,771	121,000
2006		151,032	30,455	45,958	8,561	7,441	121,706
2007		151,973	33,248	46,435	8,036	7,111	126,384
2008		149,246	35,710	53,063	8,046	6,365	120,930
2009		145,097	42,642	52,610	7,229	5,984	123,766
2010		149,274	44,015	54,338	7,844	6,592	126,278
2011		159,343	44,398	64,919	7,811	6,541	127,448
2012		164,502	49,221	70,096	7,805	7,701	131,588
2013		159,299	52,338	68,250	8,187	7,838	131,194
2014		163,768	51,928	71,356	8,521	7,857	130,599
2015		177,583	48,947	75,903	9,100	8,184	136,130
2016		184,042	53,197	77,539	9,936	7,981	146,933
2017		195,495	49,998	80,941	9,402	8,255	149,458
2018		200,141	54,313	84,510	9,221	9,987	148,619
2019		198,843	55,986	83,005	8,676	8,708	148,165
2020		184,263	55,227	74,489	9,393	8,516	139,457
2019	11	16,302	4,539	6,506	670	8,878	12,669
	12	17,183	5,731	6,990	806	8,708	13,581
2020	1	17,084	6,262	6,846	782	9,922	12,868
	2	15,881	5,047	6,829	810	10,083	11,461
	3	16,360	5,045	7,683	747	10,134	11,321
	4	14,693	3,946	6,824	839	8,736	10,972
	5	15,005	4,830	5,487	912	8,471	12,483
	6	14,802	4,729	5,633	705	9,177	11,390
	7	15,706	5,053	6,239	693	9,839	11,597
	8	15,623	4,094	6,189	706	9,787	11,462
	9	14,276	4,715	6,362	733	9,060	11,416
	10	14,604	3,234	5,375	787	8,548	11,124
	11	14,630	3,773	5,345	844	8,142	11,308
	12	15,600	4,501	5,675	835	8,516	12,054
2021 <sup>P</sup>	1	14,945	4,591	4,602	818	9,155	12,043
	2	13,950	4,775	4,696	680	9,586	11,503
	3	14,865	4,631	5,978	858	8,973	12,202
	4	14,716	4,862	5,510	827	8,851	12,106
	5	16,012	4,917	6,364	801	8,663	12,181
	6	14,734	5,242	5,642	774	8,598	12,301
	7	15,880	5,859	6,611	831	8,803	12,616
	8	16,364	5,521	5,787	991	9,910	12,474
	9	15,310	5,543	6,519	899	9,300	12,688
	10	16,068	5,407	6,619	1,043	9,269	12,481
	11	15,555	5,006	6,199	973	8,980	12,273
2020	1-11	168,663	50,727	68,813	8,558	8,142	127,403
2021 <sup>P</sup>	1-11	168,399	56,355	64,528	9,495	8,980	134,869

1. 외국적 선박 및 항공기에 인도된 물량

2. 1차에너지 공급량 기준

자료: 한국석유공사-PEDSIS

1. Petroleum products delivered to foreign-flag vessels and planes.

2. Based on primary energy supplies.

Source: Korea National Oil Corporation-PEDSIS

## 3.3 계약형태별 원유 수입

		합계	중동 Middle East			아시아 Asia		
			소계 <sup>1</sup>	장기계약	현물	소계 <sup>1</sup>	장기계약	현물
		Total	Subtotal <sup>1</sup>	Long-term	Spot	Subtotal <sup>1</sup>	Long-term	Spot
		1,000 배럴(bbl)						
1990		308,368	229,017	123,571	93,820	62,530	32,127	25,834
1995		624,945	486,528	351,042	133,065	82,050	40,042	41,308
1996		721,927	561,098	425,921	135,176	98,631	42,198	56,434
1997		873,415	645,678	537,313	107,123	121,372	58,519	62,853
1998		819,094	622,005	525,441	96,564	113,494	60,838	52,656
1999		874,090	632,067	468,318	163,750	93,517	45,189	48,328
2000		893,943	686,916	501,767	185,149	112,669	54,307	58,361
2001		859,367	661,649	491,422	169,887	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	100,721	35,603	65,118
2004		825,790	645,183	502,039	142,479	116,287	38,718	77,569
2005		843,203	689,356	533,800	154,368	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	106,263	21,406	84,857
2016		1,078,119	926,201	612,451	301,437	72,756	19,644	53,112
2017		1,118,167	913,446	618,093	278,913	97,233	28,400	68,833
2018		1,116,281	820,994	529,317	276,972	122,832	36,446	86,385
2019		1,071,923	752,564	593,774	147,450	107,943	12,728	95,215
2020		980,259	676,409	543,834	122,068	88,493	5,595	82,899
2019	11	93,102	67,326	49,209	17,013	8,978	730	8,248
	12	89,466	61,946	45,427	15,747	6,484	985	5,499
2020	1	92,712	62,123	48,608	11,553	7,866	470	7,396
	2	86,304	59,461	50,539	8,228	7,780	-	7,780
	3	84,104	52,162	40,831	10,307	8,345	766	7,579
	4	82,283	53,677	46,110	7,567	7,408	750	6,658
	5	78,834	57,415	49,797	6,130	3,819	-	3,819
	6	74,659	57,318	50,604	6,212	4,979	766	4,212
	7	86,446	69,357	51,417	17,318	4,241	766	3,475
	8	78,949	54,301	34,998	17,461	9,784	766	9,018
	9	79,843	50,437	42,639	6,287	11,413	-	11,413
	10	82,142	53,300	42,981	10,210	6,584	580	6,004
	11	69,534	46,372	37,232	8,989	7,358	-	7,358
	12	84,449	60,487	48,078	11,805	8,917	730	8,187
2021 <sup>p</sup>	1	76,874	48,263	38,589	9,430	8,133	-	8,133
	2	74,973	46,309	40,684	4,978	7,934	661	7,272
	3	71,916	41,364	37,208	3,663	9,274	700	8,574
	4	83,359	47,934	39,872	7,978	14,462	700	13,762
	5	80,960	46,566	40,599	5,822	9,095	775	8,320
	6	80,165	45,491	42,906	2,442	7,454	741	6,713
	7	78,032	45,243	37,897	6,726	8,029	-	8,029
	8	82,826	47,514	40,000	6,679	10,348	622	9,726
	9	78,627	46,911	40,022	6,075	9,766	-	9,766
	10	85,129	49,796	38,249	10,885	11,012	766	10,246
	11	80,359	49,749	39,873	9,228	8,550	-	8,550
2020	1-11	895,810	615,922	495,755	110,263	79,576	4,865	74,712
2021 <sup>p</sup>	1-11	873,221	515,138	435,897	73,906	104,057	4,965	99,092

1. 임가공과 개발도입 물량 포함.

자료: 한국석유공사-PEDSIS

## Crude Oil Imports by Contract Type

아프리카 Africa			아메리카·유럽 America and Europe			계약형태 비중 Share of contract type			
소계 <sup>1</sup> Subtotal <sup>1</sup>	장기계약 Long-term	현물 Spot	소계 <sup>1</sup> Subtotal <sup>1</sup>	장기계약 Long-term	현물 Spot	장기계약 Long-term	현물 Spot		
1,000 배럴(bbl)						%			
9,689	687	8,202	7,132	3,657	3,475	51.9	32.4	1990	
37,911	3,781	34,130	18,456	18,456	-	66.1	33.4	1995	
37,024	6,025	30,999	25,174	18,365	6,809	68.2	31.8	1996	
82,126	1,453	80,673	24,240	23,059	1,181	71.0	28.8	1997	
61,907	11,200	50,707	21,689	16,794	4,895	75.0	25.0	1998	
109,560	34,956	74,603	38,946	22,612	16,334	65.3	34.7	1999	
67,749	13,356	54,393	26,610	13,501	13,109	65.2	34.8	2000	
39,155	937	38,219	28,530	10,067	18,462	62.6	37.3	2001	
35,877	2,981	32,896	38,494	13,548	24,946	60.5	39.5	2002	
34,156	9,496	24,660	30,479	8,168	22,311	68.5	31.3	2003	
42,874	19,012	23,862	21,447	11,768	9,679	69.2	30.7	2004	
34,424	-	34,424	7,487	643	6,844	66.9	33.0	2005	
42,814	1,310	41,504	4,831	-	4,831	65.9	34.1	2006	
35,557	1,212	34,345	1,690	-	1,690	62.3	37.7	2007	
9,932	51	9,881	-	-	-	67.9	32.1	2008	
11,608	416	11,192	1,734	-	1,734	69.4	30.6	2009	
4,592	-	4,592	1,823	-	1,823	70.2	29.8	2010	
2,772	-	2,772	7,962	-	7,962	76.4	23.6	2011	
9,233	-	9,233	43,899	-	43,899	70.1	29.9	2012	
8,096	674	7,422	23,119	2,075	21,044	68.9	31.1	2013	
25,301	1,549	23,752	34,678	18,761	15,916	72.5	27.5	2014	
26,691	3,031	23,659	48,516	12,987	35,529	61.9	37.6	2015	
30,496	4,277	26,218	48,667	27,222	21,444	61.6	37.3	2016	
28,189	10,580	17,608	79,300	39,601	39,698	62.3	36.2	2017	
40,901	17,395	23,506	130,951	52,912	78,039	57.0	41.6	2018	
19,928	6,979	12,949	191,489	44,981	146,507	61.4	37.5	2019	
24,549	1,801	22,747	190,808	49,104	141,704	61.2	37.7	2020	
1,551	601	950	15,246	2,922	12,324	57.4	41.4	11	2019
2,231	600	1,631	18,806	4,759	14,046	57.9	41.3	12	
4,260	601	3,658	18,463	5,048	13,415	59.0	38.9	1	2020
2,088	599	1,489	16,975	3,950	13,025	63.8	35.4	2	
2,432	601	1,831	21,165	3,536	17,630	54.4	44.4	3	
2,905	-	2,905	18,292	2,982	15,310	60.6	39.4	4	
1,172	-	1,172	16,428	1,949	14,479	65.6	32.5	5	
1,058	-	1,058	11,305	4,876	6,430	75.3	24.0	6	
2,037	-	2,037	10,811	3,861	6,950	64.8	34.5	7	
2,150	-	2,150	12,713	3,035	9,679	49.1	48.5	8	
2,407	-	2,407	15,586	3,751	11,835	58.1	40.0	9	
1,373	-	1,373	20,885	6,778	14,107	61.3	38.6	10	
600	-	600	15,204	3,664	11,540	58.8	41.0	11	
2,066	-	2,066	12,979	5,676	7,303	64.5	34.8	12	
1,041	601	441	19,436	4,708	14,728	57.1	42.6	1	2021 <sup>p</sup>
1,459	600	859	19,272	5,994	13,278	63.9	35.2	2	
2,167	1,046	1,121	19,111	4,717	14,394	60.7	38.6	3	
2,483	599	1,884	18,481	6,470	12,010	57.2	42.7	4	
4,485	597	3,888	20,814	4,977	15,836	58.0	41.8	5	
3,346	600	2,746	23,874	2,935	20,939	58.9	41.0	6	
2,468	599	1,870	22,292	6,701	15,591	57.9	41.3	7	
3,038	696	2,342	21,927	3,991	17,936	54.7	44.3	8	
2,649	-	2,649	19,301	3,949	15,352	55.9	43.0	9	
3,878	-	3,878	20,442	4,764	15,678	51.4	47.8	10	
2,965	601	2,364	19,095	6,585	12,510	58.6	40.6	11	
22,483	1,801	20,681	177,829	43,428	134,401	60.9	38.0	1-11	2020
29,981	5,939	24,042	224,045	55,793	168,252	57.6	41.8	1-11	2021 <sup>p</sup>

1. Includes the imports from toll processing and field development/delivery.

Source: Korea National Oil Corporation-PEDSIS

## 3.4 국별 원유 수입

		합계	중동 Middle East						
			소계 <sup>1</sup>	사우디아라비아	아랍에미레이트	이란	쿠웨이트	오만	카타르
		Total	Subtotal <sup>1</sup>	Saudi Arabia	U.A.E	Iran	Kuwait	Oman	Qatar
		1,000 배럴(bbl)							
1990		308,368	229,017	39,616	49,877	34,287	17,069	63,686	6,610
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
2019	11	93,102	67,326	23,909	8,320	-	13,890	-	7,666
	12	89,466	61,946	20,207	11,955	-	12,168	-	6,693
2020	1	92,712	62,123	26,536	8,223	-	10,171	997	6,540
	2	86,304	59,461	23,460	10,250	-	14,067	-	3,929
	3	84,104	52,162	25,092	7,069	-	10,054	-	3,075
	4	82,283	53,677	22,370	5,532	-	14,433	-	4,565
	5	78,834	57,415	28,857	4,301	-	13,155	-	5,761
	6	74,659	57,318	29,298	6,630	-	13,045	-	4,279
	7	86,446	69,357	38,447	10,487	-	8,008	1,509	6,041
	8	78,949	54,301	21,999	7,672	-	8,041	-	6,031
	9	79,843	50,437	22,603	5,562	-	9,806	697	5,384
	10	82,142	53,300	30,417	4,384	-	10,561	704	3,791
	11	69,534	46,372	24,625	2,524	-	8,824	-	5,597
	12	84,449	60,487	32,105	4,926	-	9,533	-	4,741
2021 <sup>P</sup>	1	76,874	48,263	22,178	4,906	-	9,528	-	5,830
	2	74,973	46,309	23,673	5,317	-	7,483	-	3,966
	3	71,916	41,364	18,658	6,964	-	8,436	-	3,605
	4	83,359	47,934	21,683	3,938	-	8,855	1,000	4,152
	5	80,960	46,566	23,015	6,241	-	7,699	-	3,336
	6	80,165	45,491	21,969	4,495	-	6,841	1,954	4,475
	7	78,032	45,243	19,060	4,086	-	8,568	1,600	3,828
	8	82,826	47,514	24,897	3,633	-	8,083	1,001	3,999
	9	78,627	46,911	23,528	5,287	-	9,304	-	4,321
	10	85,129	49,796	25,207	3,087	-	8,341	1,019	6,348
	11	80,359	49,749	24,554	4,452	-	8,587	-	2,919
2020	1-11	895,810	615,922	293,704	72,637	-	120,166	3,907	54,994
2021 <sup>P</sup>	1-11	873,221	515,138	248,423	52,406	-	91,725	6,574	46,779

1. 기타 국가 물량 포함.

2. 아프리카 국가는 알제리, 앙골라, 리비아, 나이지리아 등임.

3. 아메리카 국가는 미국, 캐나다, 멕시코 등임.

4. 유럽 국가는 노르웨이, 영국 등임.

자료: 한국석유공사-PEDSIS

## Crude Oil Imports by Country

아시아 Asia					아프리카 <sup>2</sup>	아메리카 <sup>3</sup>	유럽 <sup>4</sup>		
소계 <sup>1</sup>	인도네시아	말레이시아	호주	브루나이					
Subtotal <sup>1</sup>	Indonesia	Malaysia	Australia	Brunei	Africa <sup>2</sup>	America <sup>3</sup>	Europe <sup>4</sup>		
1,000 배럴(bb)									
62,530	19,096	23,135	689	11,514	9,689	7,132	-		1990
82,050	31,367	13,339	4,939	11,938	37,911	18,456	-		1995
98,631	35,088	14,838	5,445	13,828	37,024	25,174	-		1996
121,372	40,965	16,968	8,851	12,787	82,126	23,580	660		1997
113,494	33,599	18,156	14,252	13,786	61,907	17,594	4,095		1998
93,517	41,726	19,988	15,495	8,045	109,560	27,896	11,050		1999
112,669	36,762	17,732	34,990	8,649	67,749	21,365	5,245		2000
130,033	45,228	19,838	32,879	9,631	39,155	25,469	3,061		2001
136,756	42,457	14,247	39,552	11,508	35,877	30,282	8,212		2002
100,721	33,672	11,101	25,396	11,247	34,156	28,543	1,936		2003
116,287	38,104	13,785	32,068	10,897	42,874	21,447	-		2004
111,937	37,703	13,037	31,879	10,558	34,424	5,363	2,124		2005
110,306	23,359	12,747	34,652	13,210	42,814	4,831	-		2006
131,273	17,603	12,991	39,101	9,224	35,557	1,690	-		2007
108,482	16,308	11,155	34,499	10,644	9,932	-	-		2008
116,379	20,115	6,271	34,423	9,596	11,608	1,734	-		2009
152,354	29,668	9,032	31,735	12,668	4,592	1,823	-		2010
108,402	21,008	8,961	15,101	12,324	2,772	2,796	5,166		2011
88,190	20,588	4,909	7,723	9,923	9,233	314	43,585		2012
97,047	13,242	5,099	15,992	7,606	8,096	329	22,790		2013
88,623	9,080	4,353	20,861	5,702	25,301	10,053	24,625		2014
106,263	8,475	2,833	17,694	4,808	26,691	23,255	25,261		2015
72,756	6,412	1,554	12,049	3,001	30,496	30,080	18,587		2016
97,233	8,624	3,606	11,679	2,606	28,189	44,453	34,847		2017
122,832	7,008	2,803	11,092	3,213	40,901	95,094	36,461		2018
107,943	2,742	1,556	7,886	1,873	19,928	187,735	3,753		2019
88,493	351	1,582	14,564	1,481	24,549	173,044	17,765		2020
8,978	-	907	656	-	1,551	15,246	-	11	2019
6,484	-	-	650	-	2,231	18,078	728	12	
7,866	-	447	-	300	4,260	18,463	-	1	2020
7,780	-	-	-	-	2,088	16,228	747	2	
8,345	-	259	-	600	2,432	21,165	-	3	
7,408	-	-	1,967	-	2,905	18,292	-	4	
3,819	-	-	1,298	-	1,172	13,349	3,079	5	
4,979	-	319	682	-	1,058	10,539	767	6	
4,241	-	-	987	-	2,037	10,811	-	7	
9,784	-	557	1,982	-	2,150	7,489	5,225	8	
11,413	-	-	4,010	-	2,407	13,521	2,064	9	
6,584	351	-	682	580	1,373	18,786	2,099	10	
7,358	-	-	970	-	600	12,220	2,984	11	
8,917	-	-	1,985	-	2,066	12,179	800	12	
8,133	285	-	481	-	1,041	12,046	7,390	1	2021 <sup>p</sup>
7,934	-	315	1,334	-	1,459	17,183	2,089	2	
9,274	-	-	1,949	-	2,167	18,121	989	3	
14,462	-	-	2,370	-	2,483	16,406	2,074	4	
9,095	-	-	1,893	-	4,485	17,751	3,062	5	
7,454	-	-	1,325	-	3,346	20,844	3,030	6	
8,029	-	-	2,004	-	2,468	20,513	1,780	7	
10,348	301	-	1,880	-	3,038	18,758	3,169	8	
9,766	-	-	2,683	-	2,649	16,206	3,095	9	
11,012	-	-	2,691	-	3,878	15,620	4,822	10	
8,550	-	-	2,017	-	2,965	18,048	1,047	11	
79,576	351	1,582	12,579	1,481	22,483	160,864	16,965	1-11	2020
104,057	586	315	20,627	-	29,981	191,497	32,548	1-11	2021 <sup>p</sup>

1. Includes the imports from other countries in the region.

2. Africa nations includes Algeria, Angola, Libya, etc.

3. America nations includes U.S., Canada, Mexico, etc.

4. Europe nations includes Norway, UK, etc.

Source: Korea National Oil Corporation-PEDSIS

## 3.5 석유제품 수입

## Petroleum Products Imports

		합계	휘발유	경유	등유	중유 <sup>1</sup>	액화석유가스	나프타	기타 <sup>2</sup>
		Total	Gasoline	Diesel oil	Kerosene	Fuel oil <sup>1</sup>	LPG	Naphtha	Others <sup>2</sup>
		1,000 kℓ							
1990		16,097	-	2,160	2,777	4,397	4,312	2,450	1
1995		32,660	-	5,118	3,714	3,947	8,442	11,421	18
1996		34,201	-	2,948	4,401	4,633	8,768	12,751	701
1997		29,541	-	498	2,507	4,254	9,099	12,611	572
1998		27,965	34	349	811	2,055	7,813	16,709	192
1999		29,331	62	367	427	2,623	9,167	16,076	609
2000		32,481	118	448	1,092	3,992	8,865	17,692	273
2001		32,557	335	1,062	844	3,548	7,641	19,036	90
2002		36,337	641	2,055	1,100	3,768	8,937	19,382	454
2003		34,960	328	1,771	1,053	2,199	8,077	20,983	550
2004		31,019	194	682	272	1,317	7,613	20,885	56
2005		28,514	12	304	57	639	7,900	19,602	0
2006		30,455	-	251	41	1,389	8,586	20,185	2
2007		33,248	-	122	82	940	9,248	22,856	0
2008		35,710	-	59	60	1,143	10,023	24,385	40
2009		42,642	-	133	11	3,157	10,523	28,751	67
2010		44,015	-	121	53	2,779	11,070	29,984	8
2011		44,398	-	151	66	2,447	11,755	29,970	8
2012		49,221	13	760	24	4,316	11,120	32,980	7
2013		52,338	273	1,367	16	7,040	10,488	33,116	39
2014		51,928	-	819	21	8,268	10,101	32,707	11
2015		48,947	61	42	2	7,430	9,970	31,418	23
2016		53,197	221	32	3	7,508	13,239	32,150	44
2017		49,998	179	37	6	6,374	11,650	31,738	14
2018		54,313	28	38	0	6,823	12,611	34,788	26
2019		55,986	21	22	6	5,022	14,959	35,944	12
2020		55,227	0	3	13	4,710	16,084	34,321	97
2019	11	4,539	-	2	-	142	1,446	2,949	1
	12	5,731	0	1	-	672	1,641	3,417	0
2020	1	6,262	-	-	-	517	1,791	3,954	0
	2	5,047	-	-	-	521	1,204	3,317	4
	3	5,045	-	-	-	366	1,432	3,246	0
	4	3,946	-	-	-	339	1,249	2,355	3
	5	4,830	-	2	6	13	1,101	3,704	4
	6	4,729	-	1	7	151	1,187	3,380	3
	7	5,053	-	-	-	607	1,424	3,020	2
	8	4,094	-	-	-	316	1,226	2,546	5
	9	4,715	-	-	-	733	1,427	2,552	4
	10	3,234	-	0	-	295	1,343	1,593	3
	11	3,773	-	-	-	458	1,331	1,985	0
	12	4,501	0	-	-	394	1,369	2,671	67
2021 <sup>P</sup>	1	4,591	-	-	-	527	1,318	2,742	4
	2	4,775	-	-	10	367	1,282	3,049	66
	3	4,631	-	-	-	412	1,014	3,198	7
	4	4,862	-	-	-	659	1,217	2,986	0
	5	4,917	-	0	-	441	1,330	3,009	137
	6	5,242	-	-	-	439	1,289	3,438	77
	7	5,859	-	0	5	598	1,460	3,706	91
	8	5,521	47	0	-	499	1,228	3,718	28
	9	5,543	-	-	-	473	1,146	3,843	81
	10	5,407	-	-	-	499	1,260	3,558	91
	11	5,006	0	-	-	478	1,270	3,164	94
2020	1-11	50,727	-	3	13	4,316	14,714	31,651	30
2021 <sup>P</sup>	1-11	56,355	48	0	15	5,392	13,813	36,411	676

1. 경질중유(Bunker-A), 중유(Bunker-B), 중질중유(Bunker-C)의 합계

2. 기타는 항공유, 부생연료유, 정제가스, 용제, 아스팔트, 윤활유, 파라핀왁스, 석유코크, 기타제품(황, 프로필렌 등)을 포함.

자료: 한국석유공사-PEDSIS

## 3.6 석유제품 수출

## Petroleum Products Exports

		합계 Total	휘발유 Gasoline	경유 Diesel oil	등유 Kerosene	중유 <sup>1</sup> Fuel oil <sup>1</sup>	액화석유가스 LPG	나프타 Naphtha	기타 <sup>2</sup> Others <sup>2</sup>
		1,000 kℓ							
1990		4,322	5	1,662	15	1,922	175	529	14
1995		19,496	70	6,748	90	6,397	463	3,392	2,336
1996		25,172	405	8,618	463	6,848	558	4,892	3,387
1997		36,733	1,617	14,899	1,630	7,988	724	5,873	4,003
1998		47,168	2,482	17,367	1,105	9,577	1,667	7,130	7,840
1999		47,361	1,792	14,047	2,383	13,096	2,170	7,348	6,526
2000		48,696	2,364	15,370	3,160	11,472	1,293	7,766	7,272
2001		46,902	2,570	14,379	2,863	10,654	766	8,144	7,526
2002		38,017	2,468	12,120	1,622	5,568	458	7,145	8,635
2003		33,240	2,152	9,669	2,090	7,287	460	4,924	6,658
2004		37,442	2,913	10,817	1,223	7,240	153	4,954	10,142
2005		41,757	2,308	13,655	708	8,914	114	4,101	11,958
2006		45,958	3,168	14,550	757	9,263	121	4,450	13,647
2007		46,435	2,438	16,371	199	6,789	85	4,678	15,876
2008		53,063	4,914	20,817	381	5,597	59	3,643	17,651
2009		52,610	6,389	19,948	863	4,037	20	4,224	17,128
2010		54,338	6,254	20,789	1,027	4,064	145	5,105	16,953
2011		64,919	8,509	25,307	1,424	5,439	144	5,626	18,470
2012		70,096	10,094	28,055	1,205	4,465	284	5,292	20,700
2013		68,250	10,177	26,035	1,063	3,505	136	6,288	21,046
2014		71,356	11,658	27,686	706	2,126	214	5,622	23,344
2015		75,903	12,606	27,345	599	1,693	198	7,606	25,856
2016		77,539	12,124	27,827	328	2,066	297	7,912	26,985
2017		80,941	13,071	28,006	831	2,573	384	7,026	29,050
2018		84,510	13,974	30,320	1,038	4,028	786	6,926	27,438
2019		83,005	13,970	31,039	663	2,727	923	7,533	26,150
2020		74,489	11,788	31,812	1,017	2,042	961	5,832	21,037
2019	11	6,506	963	2,365	61	342	88	570	2,117
	12	6,990	1,338	2,677	114	308	88	544	1,921
2020	1	6,846	1,149	2,732	139	112	91	525	2,098
	2	6,829	1,335	2,529	129	248	59	435	2,095
	3	7,683	1,278	2,894	85	328	103	656	2,340
	4	6,824	891	2,698	106	412	102	478	2,136
	5	5,487	581	2,472	43	181	99	491	1,621
	6	5,633	648	2,519	45	127	78	623	1,593
	7	6,239	879	2,741	89	132	62	583	1,754
	8	6,189	976	2,951	16	42	64	387	1,753
	9	6,362	857	2,911	21	198	84	394	1,897
	10	5,375	1,026	2,536	81	85	73	321	1,254
	11	5,345	959	2,573	111	69	73	432	1,127
	12	5,675	1,209	2,258	153	109	72	506	1,368
2021 <sup>P</sup>	1	4,602	965	1,895	181	19	56	349	1,137
	2	4,696	915	1,970	166	22	59	474	1,090
	3	5,978	1,258	2,831	120	47	22	384	1,316
	4	5,510	1,288	2,346	94	130	25	297	1,329
	5	6,364	1,389	2,616	77	131	23	432	1,697
	6	5,642	1,118	2,234	38	100	52	432	1,669
	7	6,611	1,427	2,460	63	35	72	529	2,025
	8	5,787	1,269	2,191	50	120	48	403	1,705
	9	6,519	1,432	2,670	39	60	28	502	1,787
	10	6,619	1,457	2,812	69	299	51	422	1,509
	11	6,199	1,496	2,389	138	112	39	390	1,635
2020	1-11	68,813	10,579	29,554	864	1,933	889	5,325	19,669
2021 <sup>P</sup>	1-11	64,528	14,015	26,414	1,035	1,075	475	4,613	16,901

1. Sum of exports for Bunker-A, Bunker-B and Bunker-C products.

2. Includes jet fuel, by-product fuel oil, refinery gas, solvents, bitumens, lubricants, paraffin waxes, petroleum coke and other products (e.g., sulfur and propylene).

Source: Korea National Oil Corporation-PEDSIS

## 3.7 석유제품 생산

## Petroleum Products Production

		합계 Total	휘발유 Gasoline	경유 Diesel oil	등유 Kerosene	중유 <sup>1</sup> Fuel oil <sup>1</sup>	액화석유가스 LPG	나프타 Naphtha	기타 <sup>2</sup> Others <sup>2</sup>
		1,000 kℓ							
1990		48,410	3,806	15,033	2,152	16,366	1,907	5,642	3,504
1995		102,243	9,612	28,761	6,665	33,268	2,499	14,041	7,396
1996		115,125	11,277	34,411	8,156	34,167	2,504	16,396	8,214
1997		144,908	12,504	41,999	11,431	37,852	3,315	24,534	13,272
1998		137,497	12,087	36,964	9,937	33,403	4,373	24,457	16,277
1999		144,848	11,949	34,765	14,388	38,248	4,806	26,145	14,547
2000		147,362	12,115	36,248	13,958	36,640	5,551	26,552	16,297
2001		144,253	12,163	34,800	11,897	35,874	6,258	25,862	17,400
2002		136,466	12,233	33,027	9,801	30,068	6,440	26,059	18,839
2003		133,712	11,613	32,222	10,070	32,433	6,061	23,676	17,635
2004		140,926	12,002	33,792	7,861	32,110	6,134	26,684	22,343
2005		146,726	11,737	36,720	6,883	33,569	5,926	28,040	23,851
2006		151,032	12,667	37,894	6,421	32,971	5,716	29,105	26,258
2007		151,973	12,435	40,254	4,513	29,289	5,398	31,281	28,804
2008		149,246	14,764	42,047	4,915	23,939	5,490	27,623	30,468
2009		145,097	17,278	41,608	5,169	19,806	5,586	25,289	30,361
2010		149,274	17,776	42,670	6,150	20,059	5,188	26,983	30,449
2011		159,343	19,652	46,468	5,520	19,860	2,912	31,018	33,913
2012		164,502	21,842	49,243	4,231	16,314	2,743	32,926	37,202
2013		159,299	21,465	47,342	3,418	12,633	3,186	33,012	38,242
2014		163,768	23,062	50,001	2,662	8,772	3,870	34,674	40,728
2015		177,583	25,012	53,009	2,940	9,217	4,033	39,736	43,636
2016		184,042	24,413	53,819	3,103	11,282	4,138	41,306	45,980
2017		195,495	25,105	54,831	3,163	10,805	5,026	49,264	47,302
2018		200,141	26,581	57,040	3,359	10,910	5,390	49,909	46,952
2019		198,843	26,745	58,301	3,292	9,187	5,229	49,788	46,299
2020		184,263	22,742	55,668	6,939	11,966	4,496	45,587	36,865
2019	11	16,302	2,081	4,962	261	685	388	4,083	3,842
	12	17,183	2,444	4,897	584	809	388	4,244	3,818
2020	1	17,084	2,222	5,025	507	983	392	4,264	3,691
	2	15,881	2,180	4,579	396	980	323	3,613	3,810
	3	16,360	2,103	4,640	273	1,168	359	4,036	3,780
	4	14,693	1,597	4,385	554	1,194	333	3,745	2,885
	5	15,005	1,606	4,589	696	1,217	427	3,634	2,836
	6	14,802	1,644	4,633	627	990	415	3,595	2,897
	7	15,706	1,837	4,881	567	945	415	3,991	3,069
	8	15,623	1,961	4,937	587	745	390	3,936	3,066
	9	14,276	1,730	4,545	453	829	389	3,665	2,664
	10	14,604	1,919	4,569	668	885	324	3,525	2,713
	11	14,630	1,921	4,378	752	1,029	334	3,618	2,600
	12	15,600	2,022	4,506	859	1,001	394	3,964	2,854
2021 <sup>P</sup>	1	14,945	1,954	4,323	1,005	838	375	3,827	2,623
	2	13,950	1,776	4,047	895	832	370	3,656	2,374
	3	14,865	2,098	4,347	701	915	393	3,883	2,527
	4	14,716	2,138	4,222	631	926	401	3,843	2,555
	5	16,012	2,156	4,794	601	1,014	448	3,915	3,083
	6	14,734	2,154	4,301	528	993	401	3,301	3,055
	7	15,880	2,348	4,497	518	1,107	426	3,629	3,355
	8	16,364	2,336	4,737	603	1,114	403	3,996	3,176
	9	15,310	2,307	4,383	615	981	349	3,740	2,936
	10	16,068	2,404	4,620	746	961	342	3,962	3,032
	11	15,555	2,332	4,466	660	1,096	363	3,734	2,903
2020	1-11	168,663	20,720	51,161	6,080	10,965	4,102	41,623	34,011
2021 <sup>P</sup>	1-11	168,399	24,003	48,737	7,502	10,779	4,272	41,488	31,619

1. 경질중유(Bunker-A), 중유(Bunker-B), 중질중유(Bunker-C)의 합계

2. 기타는 항공유, 부생연료유, 정제가스, 용제, 아스팔트, 윤활유, 파라핀왁스, 석유코크, 기타제품(황, 프로필렌 등)을 포함.

자료: 한국석유공사-PEDSIS

1. Sum of exports for Bunker-A, Bunker-B and Bunker-C products.

2. Includes jet fuel, by-product fuel oil, refinery gas, solvents, bitumens, lubricants, paraffin waxes, petroleum coke and other products (e.g., sulfur and propylene).

Source: Korea National Oil Corporation-PEDSIS



## 3.8 석유제품 공급

## Petroleum Products Supply

		합계	휘발유	경유	등유	중유 <sup>1</sup>	액화석유가스	나프타	기타 <sup>2</sup>
		Total	Gasoline	Diesel oil	Kerosene	Fuel oil <sup>1</sup>	LPG	Naphtha	Others <sup>2</sup>
		1,000 kℓ							
1990		56,654	3,767	15,493	3,965	17,278	5,678	7,560	2,913
1995		107,666	9,441	25,932	9,963	26,642	10,567	20,902	4,218
1996		114,637	10,806	27,410	11,711	26,721	10,881	22,460	4,648
1997		126,217	11,345	26,517	13,518	26,191	11,387	30,989	6,271
1998		106,564	9,712	19,137	9,771	17,591	10,810	34,000	5,543
1999		114,414	10,156	20,043	12,230	19,175	12,243	34,803	5,764
2000		118,055	9,918	20,577	11,114	20,624	13,464	36,415	5,943
2001		118,231	9,969	21,013	9,810	20,361	13,415	37,090	6,573
2002		121,284	10,187	21,947	9,295	19,316	14,533	39,000	7,005
2003		121,295	9,616	23,111	8,406	18,414	14,087	40,130	7,531
2004		119,608	9,245	22,862	6,851	16,690	14,059	41,792	8,110
2005		121,000	9,469	22,660	6,263	15,980	14,574	43,442	8,612
2006		121,706	9,519	22,645	5,000	15,404	14,857	45,629	8,651
2007		126,384	9,937	23,105	4,161	14,755	15,444	50,375	8,607
2008		120,930	10,006	21,385	4,397	11,128	16,197	49,503	8,313
2009		123,766	10,473	21,035	4,132	11,038	16,903	51,292	8,893
2010		126,278	10,959	21,407	4,667	10,381	16,721	52,754	9,389
2011		127,448	11,061	21,329	4,043	8,744	15,771	56,470	10,031
2012		131,588	11,409	21,737	3,499	8,666	15,179	61,146	9,951
2013		131,194	11,672	22,738	2,992	7,372	14,795	61,089	10,537
2014		130,599	11,681	23,027	2,453	5,289	14,241	63,012	10,894
2015		136,130	12,173	24,860	2,580	6,097	14,287	65,312	10,820
2016		146,933	12,548	26,480	3,030	7,549	17,323	68,378	11,625
2017		149,458	12,658	26,846	3,022	5,694	16,716	72,870	11,651
2018		148,619	12,668	26,557	3,001	5,361	17,453	71,727	11,852
2019		148,165	13,156	27,313	2,723	3,815	19,418	69,733	12,008
2020		139,457	12,872	26,030	2,697	3,780	19,284	64,431	10,364
2019	11	12,669	1,113	2,362	307	245	1,760	5,778	1,102
	12	13,581	1,121	2,426	410	405	1,923	6,109	1,187
2020	1	12,868	978	1,876	378	366	1,987	6,281	1,003
	2	11,461	940	1,945	319	302	1,444	5,651	860
	3	11,321	914	2,066	240	310	1,613	5,496	681
	4	10,972	1,013	2,056	235	301	1,540	5,049	777
	5	12,483	1,199	2,457	234	316	1,635	5,673	970
	6	11,390	1,118	2,279	87	299	1,403	5,345	859
	7	11,597	1,138	2,149	64	265	1,613	5,583	785
	8	11,462	1,167	2,073	74	278	1,667	5,416	788
	9	11,416	1,098	2,191	129	335	1,575	5,318	770
	10	11,124	1,053	2,140	178	262	1,663	4,921	908
	11	11,308	1,211	2,496	286	368	1,636	4,353	958
	12	12,054	1,042	2,301	473	378	1,510	5,346	1,005
2021 <sup>p</sup>	1	12,043	975	2,061	525	376	1,765	5,495	847
	2	11,503	1,032	2,027	346	280	1,540	5,509	769
	3	12,202	1,035	2,075	196	289	1,517	6,127	962
	4	12,106	1,135	2,242	145	275	1,478	5,907	924
	5	12,181	1,132	2,266	98	307	1,681	5,685	1,012
	6	12,301	1,184	2,346	80	265	1,798	5,555	1,074
	7	12,616	1,159	2,204	65	329	1,776	6,119	964
	8	12,474	1,183	2,113	92	246	1,628	6,329	884
	9	12,688	1,205	2,201	178	292	1,505	6,300	1,008
	10	12,481	1,068	2,115	239	274	1,573	6,153	1,059
	11	12,273	1,093	2,175	233	293	1,555	5,914	1,012
2020	1-11	127,403	11,830	23,730	2,224	3,401	17,774	59,085	9,359
2021 <sup>p</sup>	1-11	134,869	12,201	23,824	2,198	3,226	17,815	65,092	10,514

1. 경질중유(Bunker-A), 중유(Bunker-B), 중질중유(Bunker-C)의 합계

2. 기타는 항공유, 부생연료유, 정제가스, 용제, 아스팔트, 윤활유, 파라핀왁스, 석유코크, 기타제품(황, 프로필렌 등)을 포함.

주: 1차에너지 공급량 기준

자료: 한국석유공사-PEDSIS

1. Sum of exports for Bunker-A, Bunker-B and Bunker-C products.

2. Includes jet fuel, by-product fuel oil, refinery gas, solvents, bitumens, lubricants, paraffin waxes, petroleum coke and other products (e.g., sulfur and propylene).

Note: Based on primary energy supplies.

Source: Korea National Oil Corporation-PEDSIS

## 3.9 휘발유 수급

## Gasoline Supply and Demand

		생산	수입	수출	재고	공급 <sup>1</sup>	소비 Consumption				
		Production	Imports	Exports	Stock	Supply <sup>1</sup>	합계	산업	수송	가정	상업·공공
		1,000 kℓ									
1990		3,806	-	5	180	3,767	-	-	-	-	-
1995		9,612	-	70	344	9,441	9,441	225	9,069	16	130
1996		11,277	-	405	385	10,806	10,806	256	10,439	17	95
1997		12,504	-	1,617	499	11,345	11,345	307	10,933	7	97
1998		12,087	34	2,482	455	9,712	9,712	391	9,178	7	136
1999		11,949	62	1,792	500	10,156	10,156	348	9,723	6	79
2000		12,115	118	2,364	589	9,918	9,918	347	9,498	3	69
2001		12,163	335	2,570	554	9,969	9,969	424	9,456	5	84
2002		12,233	641	2,468	542	10,187	10,187	492	9,592	17	86
2003		11,613	328	2,152	528	9,616	9,616	320	9,197	10	89
2004		12,002	194	2,913	515	9,245	9,369	337	8,942	5	85
2005		11,737	12	2,308	500	9,469	9,469	327	9,051	4	87
2006		12,667	-	3,168	512	9,519	9,519	301	9,126	1	91
2007		12,435	-	2,438	532	9,937	9,936	256	9,608	3	70
2008		14,764	-	4,914	421	10,006	10,005	248	9,682	5	71
2009		17,278	-	6,389	509	10,473	10,472	249	10,132	8	83
2010		17,776	-	6,254	611	10,959	10,958	240	10,623	11	84
2011		19,652	-	8,509	509	11,061	11,061	247	10,723	17	73
2012		21,842	13	10,094	811	11,409	11,409	239	11,069	17	84
2013		21,465	273	10,177	805	11,672	11,672	247	11,314	16	95
2014		23,062	-	11,658	707	11,681	11,681	232	11,317	22	109
2015		25,012	61	12,606	812	12,173	12,173	227	11,807	28	111
2016		24,413	221	12,124	906	12,548	12,548	214	12,225	15	93
2017		25,105	179	13,071	902	12,658	12,658	239	12,324	13	82
2018		26,581	28	13,974	1,141	12,668	12,668	221	12,355	14	79
2019		26,745	21	13,970	975	13,156	13,156	215	12,868	8	64
2020		22,742	0	11,788	780	12,872	12,872	206	12,622	2	42
2019	11	2,081	-	963	949	1,113	1,113	20	1,089	0	5
	12	2,444	0	1,338	975	1,121	1,121	17	1,099	0	5
2020	1	2,222	-	1,149	1,092	978	978	12	963	0	3
	2	2,180	-	1,335	1,023	940	940	11	926	0	3
	3	2,103	-	1,278	963	914	914	16	895	0	3
	4	1,597	-	891	845	1,013	1,013	18	992	0	3
	5	1,606	-	581	843	1,199	1,199	23	1,173	0	4
	6	1,644	-	648	849	1,118	1,118	19	1,095	0	4
	7	1,837	-	879	863	1,138	1,138	17	1,117	0	4
	8	1,961	-	976	862	1,167	1,167	15	1,148	0	3
	9	1,730	-	857	800	1,098	1,098	20	1,073	0	4
	10	1,919	-	1,026	872	1,053	1,053	18	1,031	1	3
	11	1,921	-	959	773	1,211	1,211	18	1,189	0	4
	12	2,022	0	1,209	780	1,042	1,042	18	1,021	0	3
2021 <sup>p</sup>	1	1,954	-	965	1,005	975	975	12	959	0	4
	2	1,776	-	915	943	1,032	1,032	13	1,015	0	4
	3	2,098	-	1,258	956	1,035	1,035	17	1,012	0	5
	4	2,138	-	1,288	848	1,135	1,135	16	1,111	0	7
	5	2,156	-	1,389	755	1,132	1,132	20	1,105	0	6
	6	2,154	-	1,118	782	1,184	1,184	19	1,159	0	6
	7	2,348	-	1,427	811	1,159	1,159	17	1,137	0	6
	8	2,336	47	1,269	970	1,183	1,183	16	1,161	0	6
	9	2,307	-	1,432	864	1,205	1,205	22	1,177	0	6
	10	2,404	-	1,457	970	1,068	1,068	21	1,042	0	5
	11	2,332	0	1,496	992	1,093	1,093	17	1,071	0	5
2020	1-11	20,720	-	10,579	773	11,830	11,830	188	11,601	2	39
2021 <sup>p</sup>	1-11	24,003	48	14,015	992	12,201	12,201	189	11,949	1	60

1. 1차에너지 공급량

자료: 한국석유공사-PEDSIS

1. Primary energy supply

Source: Korea National Oil Corporation-PEDSIS

## 3.10 경유 수급

## Diesel Oil Supply and Demand

		생산	수입	수출	재고	공급 <sup>1</sup>	소비				
							Consumption				
							합계	산업	수송	가정	상업·공공
		Production	Imports	Exports	Stock	Supply <sup>1</sup>	Total	Industry	Transport	Residential	Commercial/ Public
1,000 kℓ											
1990		15,033	2,160	1,662	527	15,493	-	-	-	-	-
1995		28,761	5,118	6,748	1,767	25,932	24,962	4,659	13,738	2,136	4,429
1996		34,411	2,948	8,618	1,875	27,410	25,763	4,932	14,752	2,168	3,909
1997		41,999	498	14,899	1,949	26,517	25,136	5,055	14,386	1,637	4,057
1998		36,964	349	17,367	1,631	19,137	18,840	3,736	11,380	624	3,100
1999		34,765	367	14,047	1,534	20,043	19,869	3,654	12,744	436	3,034
2000		36,248	448	15,370	1,630	20,577	20,498	3,987	14,439	138	1,934
2001		34,800	1,062	14,379	1,416	21,013	20,964	4,001	15,100	70	1,794
2002		33,027	2,055	12,120	1,130	21,947	21,836	3,687	16,401	260	1,487
2003		32,222	1,771	9,669	1,162	23,111	22,743	3,359	17,507	472	1,406
2004		33,792	682	10,817	1,423	22,862	21,172	3,029	16,335	1,098	711
2005		36,720	304	13,655	1,180	22,660	22,638	3,051	17,719	1,166	703
2006		37,894	251	14,550	1,328	22,645	22,613	3,264	17,819	773	757
2007		40,254	122	16,371	1,621	23,105	23,075	3,336	18,148	817	775
2008		42,047	59	20,817	1,363	21,385	21,353	2,985	16,985	650	732
2009		41,608	133	19,948	1,186	21,035	21,012	3,067	16,546	625	775
2010		42,670	121	20,789	1,322	21,407	21,368	3,233	16,723	570	842
2011		46,468	151	25,307	1,177	21,329	21,232	3,193	16,663	573	803
2012		49,243	760	28,055	1,491	21,737	21,556	3,112	16,997	558	889
2013		47,342	1,367	26,035	1,517	22,738	22,619	3,276	17,869	612	862
2014		50,001	819	27,686	1,380	23,027	23,006	3,015	18,326	656	1,009
2015		53,009	42	27,345	1,761	24,860	24,846	2,794	19,991	911	1,150
2016		53,819	32	27,827	1,369	26,480	26,451	2,697	21,610	1,002	1,141
2017		54,831	37	28,006	1,504	26,846	26,831	2,554	22,011	1,090	1,176
2018		57,040	38	30,320	1,773	26,557	26,504	2,408	22,213	773	1,110
2019		58,301	22	31,039	1,665	27,313	27,158	2,515	23,001	644	998
2020		55,668	3	31,812	1,194	26,030	25,963	2,620	22,205	362	777
2019	11	4,962	2	2,365	1,886	2,362	2,352	243	1,982	45	82
	12	4,897	1	2,677	1,665	2,426	2,422	269	2,017	51	85
2020	1	5,025	-	2,732	2,086	1,876	1,874	183	1,586	23	83
	2	4,579	-	2,529	2,167	1,945	1,944	154	1,678	29	84
	3	4,640	-	2,894	1,849	2,066	2,065	195	1,764	35	69
	4	4,385	-	2,698	1,619	2,056	2,056	199	1,762	33	62
	5	4,589	2	2,472	1,481	2,457	2,454	230	2,131	35	58
	6	4,633	1	2,519	1,622	2,279	2,272	276	1,905	30	60
	7	4,881	-	2,741	1,923	2,149	2,146	222	1,844	24	55
	8	4,937	-	2,951	2,085	2,073	2,066	150	1,843	24	50
	9	4,545	-	2,911	1,667	2,191	2,183	212	1,885	29	57
	10	4,569	0	2,536	1,714	2,140	2,134	243	1,800	32	59
	11	4,378	-	2,573	1,123	2,496	2,484	283	2,100	33	68
	12	4,506	-	2,258	1,194	2,301	2,286	272	1,908	33	73
2021 <sup>P</sup>	1	4,323	-	1,895	1,669	2,061	2,047	201	1,726	25	95
	2	4,047	-	1,970	1,827	2,027	2,017	185	1,725	30	77
	3	4,347	-	2,831	1,499	2,075	2,061	196	1,750	35	81
	4	4,222	-	2,346	1,383	2,242	2,234	176	1,950	36	71
	5	4,794	-	2,616	1,521	2,266	2,257	241	1,912	31	73
	6	4,301	-	2,234	1,479	2,346	2,336	242	1,998	32	63
	7	4,497	-	2,460	1,474	2,204	2,199	219	1,891	25	63
	8	4,737	-	2,191	2,058	2,113	2,110	171	1,853	24	62
	9	4,383	-	2,670	1,758	2,201	2,195	268	1,843	28	55
	10	4,620	-	2,812	1,519	2,115	2,108	269	1,739	30	71
	11	4,466	-	2,389	1,497	2,175	2,167	211	1,859	29	68
2020	1-11	51,161	3	29,554	1,123	23,730	23,677	2,348	20,297	329	704
2021 <sup>P</sup>	1-11	48,737	-	26,414	1,497	23,824	23,731	2,380	20,247	324	780

1. 1차에너지 공급량

자료: 한국석유공사-PEDSIS

1. Primary energy supply

Source: Korea National Oil Corporation-PEDSIS

## 3.11 등유 수급

## Kerosene Supply and Demand

		생산	수입	수출	재고	공급 <sup>1</sup>	소비 Consumption				
		Production	Imports	Exports	Stock	Supply <sup>1</sup>	합계	산업	수송	가정	상업·공공
		1,000 kℓ									
1990		2,152	2,777	15	991	3,965	-	-	-	-	-
1995		6,665	3,714	90	1,001	9,963	9,963	1,158	36	5,834	2,934
1996		8,156	4,401	463	1,276	11,711	11,707	1,192	47	7,126	3,341
1997		11,431	2,507	1,630	998	13,518	13,514	2,239	45	7,020	4,210
1998		9,937	811	1,105	1,232	9,771	9,759	1,859	56	4,620	3,224
1999		14,388	427	2,383	1,261	12,230	12,053	1,357	25	6,297	4,373
2000		13,958	1,092	3,160	1,712	11,114	10,962	1,310	14	6,250	3,388
2001		11,897	844	2,863	1,378	9,810	9,730	1,043	21	6,185	2,480
2002		9,801	1,100	1,622	782	9,295	9,126	1,071	36	5,574	2,444
2003		10,070	1,053	2,090	978	8,406	8,124	951	30	4,866	2,276
2004		7,861	272	1,223	707	6,851	7,148	916	19	4,296	1,916
2005		6,883	57	708	449	6,263	6,135	871	14	3,651	1,599
2006		6,421	41	757	753	5,000	4,833	749	10	2,861	1,212
2007		4,513	82	199	577	4,161	4,039	696	8	2,353	982
2008		4,915	60	381	383	4,397	4,296	685	8	2,509	1,093
2009		5,169	11	863	367	4,132	4,020	662	8	2,281	1,069
2010		6,150	53	1,027	478	4,667	4,563	792	13	2,531	1,226
2011		5,520	66	1,424	386	4,043	3,986	676	13	2,328	968
2012		4,231	24	1,205	317	3,499	3,454	586	20	2,057	791
2013		3,418	16	1,063	369	2,992	2,951	520	8	1,744	679
2014		2,662	21	706	273	2,453	2,444	253	5	1,634	552
2015		2,940	2	599	354	2,580	2,577	162	10	1,838	567
2016		3,103	3	328	353	3,030	2,953	172	3	2,181	597
2017		3,163	6	831	289	3,022	2,883	152	0	2,170	561
2018		3,359	0	1,038	363	3,001	2,848	167	1	2,166	514
2019		3,292	6	663	401	2,723	2,553	208	1	1,932	412
2020		6,939	13	1,017	250	2,697	2,573	323	1	1,895	354
2019	11	261	-	61	296	307	299	40	0	214	44
	12	584	-	114	401	410	401	53	0	290	59
2020	1	507	-	139	443	378	367	46	0	270	51
	2	396	-	129	410	319	309	39	0	224	45
	3	273	-	85	373	240	229	29	0	171	29
	4	554	-	106	241	235	225	26	0	172	27
	5	696	6	43	232	234	224	21	0	175	28
	6	627	7	45	327	87	74	8	0	54	12
	7	567	-	89	306	64	51	8	0	33	10
	8	587	-	16	329	74	63	10	0	44	9
	9	453	-	21	297	129	121	17	0	86	17
	10	668	-	81	289	178	170	25	0	125	20
	11	752	-	111	290	286	276	36	0	200	40
	12	859	-	153	250	473	464	58	0	341	65
2021 <sup>p</sup>	1	1,005	-	181	347	525	515	65	2	375	74
	2	895	10	166	416	346	337	42	2	241	52
	3	701	-	120	362	196	185	23	1	137	25
	4	631	-	94	307	145	132	15	0	98	19
	5	601	-	77	309	98	85	8	0	66	10
	6	528	-	38	301	80	66	8	0	47	11
	7	518	5	63	281	65	52	8	0	33	11
	8	603	-	50	304	92	82	13	0	56	12
	9	615	-	39	286	178	168	25	0	121	22
	10	746	-	69	342	239	229	34	0	167	28
	11	660	-	138	350	233	219	29	0	156	34
2020	1-11	6,080	13	864	290	2,224	2,109	265	1	1,554	289
2021 <sup>p</sup>	1-11	7,502	15	1,035	350	2,198	2,071	270	7	1,497	297

1. 1차에너지 공급량

주: 실내등유와 보일러 등유의 합계

자료: 한국석유공사-PEDSIS

1. Primary energy supply.

Note: Sum of kerosene and heating oil for boilers.

Source: Korea National Oil Corporation-PEDSIS

## 3.12 중유 수급

## Fuel Oil Supply and Demand

		생산	수입	수출	재고	공급 <sup>1</sup>	소비 Consumption				
		Production	Imports	Exports	Stock	Supply <sup>1</sup>	합계	산업	수송	가정	상업·공공
		1,000 kℓ									
1990		16,366	4,397	1,922	576	17,278	-	-	-	-	-
1995		33,268	3,947	6,397	1,630	26,642	17,394	12,112	3,242	1,145	896
1996		34,167	4,633	6,848	1,781	26,721	17,936	12,452	3,546	1,034	905
1997		37,852	4,254	7,988	2,016	26,191	18,148	11,119	5,395	787	848
1998		33,403	2,055	9,577	1,723	17,591	14,052	9,238	3,879	562	373
1999		38,248	2,623	13,096	1,664	19,175	15,260	10,346	3,994	531	389
2000		36,640	3,992	11,472	1,855	20,624	14,297	9,410	4,020	518	348
2001		35,874	3,548	10,654	1,951	20,361	13,378	8,739	3,839	468	332
2002		30,068	3,768	5,568	1,845	19,316	13,269	8,569	3,919	456	325
2003		32,433	2,199	7,287	1,630	18,414	12,627	7,880	3,971	432	344
2004		32,110	1,317	7,240	1,873	16,690	11,647	7,440	3,561	356	289
2005		33,569	639	8,914	1,487	15,980	11,077	6,723	3,686	333	335
2006		32,971	1,389	9,263	1,708	15,404	10,728	6,048	3,987	302	391
2007		29,289	940	6,789	1,498	14,755	9,929	5,398	3,717	276	539
2008		23,939	1,143	5,597	1,517	11,128	8,385	4,497	3,282	245	362
2009		19,806	3,157	4,037	1,449	11,038	7,364	3,937	2,961	231	236
2010		20,059	2,779	4,064	1,595	10,381	7,002	3,647	2,943	201	211
2011		19,860	2,447	5,439	1,786	8,744	6,362	2,969	3,048	172	172
2012		16,314	4,316	4,465	1,684	8,666	5,163	2,058	2,839	133	133
2013		12,633	7,040	3,505	1,673	7,372	3,749	1,432	2,097	97	124
2014		8,772	8,268	2,126	1,797	5,289	3,512	1,312	2,039	61	101
2015		9,217	7,430	1,693	1,879	6,097	4,090	1,360	2,524	58	148
2016		11,282	7,508	2,066	1,677	7,549	4,537	1,428	2,952	51	106
2017		10,805	6,374	2,573	1,848	5,694	4,506	1,238	3,084	50	134
2018		10,965	6,823	4,141	1,893	5,361	4,114	1,137	2,829	50	98
2019		9,187	5,022	2,727	1,571	3,815	3,159	886	2,167	47	59
2020		11,966	4,710	2,042	1,383	3,780	3,288	754	2,476	30	28
2019	11	685	142	342	1,787	245	215	64	143	4	3
	12	809	672	308	1,571	405	288	82	192	8	6
2020	1	983	517	112	1,868	366	284	59	217	6	3
	2	980	521	248	1,935	302	266	52	208	4	3
	3	1,168	366	328	1,959	310	283	64	212	4	2
	4	1,194	339	412	1,660	301	276	60	211	3	3
	5	1,217	13	181	1,539	316	299	76	218	2	3
	6	990	151	127	1,574	299	284	69	212	1	2
	7	945	607	132	1,733	265	261	60	199	1	1
	8	745	316	42	1,506	278	245	57	186	0	1
	9	829	733	198	1,607	335	266	52	211	0	2
	10	885	295	85	1,448	262	242	56	183	1	2
	11	1,029	458	69	1,377	368	291	65	220	3	3
	12	1,001	394	109	1,383	378	292	82	201	5	4
2021 <sup>p</sup>	1	838	527	19	1,369	376	293	73	208	4	7
	2	832	367	22	1,556	280	239	61	168	3	7
	3	915	412	47	1,633	289	267	56	204	2	5
	4	926	659	130	1,829	275	255	37	214	1	3
	5	1,014	441	131	1,594	307	285	54	226	1	4
	6	993	439	100	1,586	265	244	56	183	0	4
	7	1,107	598	35	1,734	329	266	56	207	0	3
	8	1,114	499	120	1,754	246	231	53	176	0	3
	9	981	473	60	1,778	292	243	55	183	0	4
	10	961	499	299	1,591	274	228	56	167	1	5
2020	1-11	10,965	4,316	1,933	1,377	3,401	2,997	672	2,275	26	24
2021 <sup>p</sup>	1-11	10,779	5,392	1,075	1,558	3,226	2,803	608	2,134	14	47

1. 1차에너지 공급량

1. Primary energy supply.

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

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

자료: 한국석유공사-PEDSIS

Source: Korea National Oil Corporation-PEDSIS

## 3.13 액화석유가스(LPG) 수급

## LPG Supply and Demand

		생산	수입	수출	재고	공급 <sup>1</sup>	소비 Consumption				
		Production	Imports	Exports	Stock	Supply <sup>1</sup>	합계	산업	수송	가정	상업·공공
		1,000 톤(Ton)									
1990		1,065	2,247	94	203	3,020	-	-	-	-	-
1995		1,399	4,398	248	79	5,593	4,568	860	1,496	2,189	23
1996		1,390	4,578	300	72	5,760	4,809	885	1,577	2,327	21
1997		1,835	4,739	385	352	6,035	5,403	1,314	1,686	2,371	32
1998		2,428	4,075	887	333	5,769	5,432	1,569	1,771	1,890	201
1999		2,673	4,790	1,158	259	6,552	6,188	1,700	2,202	2,124	162
2000		3,091	4,677	688	262	7,261	7,002	1,625	2,926	2,335	117
2001		3,498	4,059	416	217	7,296	7,144	1,418	3,344	2,282	100
2002		3,603	4,745	247	412	7,903	7,767	1,710	3,584	2,338	136
2003		3,395	4,276	247	459	7,690	7,615	1,567	3,742	2,180	127
2004		3,430	4,037	83	538	7,705	7,577	1,655	3,801	2,004	116
2005		3,312	4,205	62	432	7,983	7,870	1,822	3,966	992	1,089
2006		3,190	4,606	66	409	8,158	8,091	2,038	4,105	838	1,110
2007		3,013	4,983	45	259	8,493	8,431	2,153	4,366	873	1,038
2008		3,037	5,448	31	221	8,931	8,754	2,694	4,381	806	873
2009		3,065	5,723	10	190	9,290	9,092	2,906	4,500	805	881
2010		2,823	6,008	74	222	9,156	8,761	2,669	4,468	794	830
2011		1,583	6,366	75	267	8,636	8,110	2,268	4,249	769	823
2012		1,476	6,018	147	235	8,307	7,712	2,082	4,104	660	866
2013		1,739	5,705	70	165	8,136	7,998	2,459	4,013	722	804
2014		2,128	5,480	112	365	7,836	7,776	2,586	3,759	703	727
2015		2,214	5,358	105	312	7,793	7,720	2,494	3,717	546	962
2016		2,268	7,025	155	274	9,340	9,251	4,132	3,552	610	957
2017		2,768	6,121	200	338	8,986	8,861	3,992	3,325	572	973
2018		2,969	6,628	405	412	9,380	9,202	4,547	3,100	579	975
2019		2,882	7,817	477	316	10,362	10,198	5,609	3,053	591	945
2020		2,476	8,397	491	389	10,242	10,091	5,915	2,657	580	938
2019	11	213	751	45	318	935	920	539	244	52	84
	12	212	859	46	316	1,024	1,010	598	247	64	101
2020	1	215	934	46	359	1,057	1,042	614	250	69	109
	2	177	625	30	359	765	754	431	188	51	83
	3	197	741	52	378	851	839	526	185	49	79
	4	184	652	52	342	815	805	480	202	48	75
	5	236	571	51	236	868	859	473	256	51	79
	6	231	622	41	301	748	738	421	225	34	57
	7	231	746	32	387	860	848	516	235	36	61
	8	215	644	33	321	889	880	546	243	33	58
	9	215	747	43	394	836	826	508	217	38	64
	10	177	709	37	342	884	868	528	222	45	74
	11	182	695	37	298	871	852	470	234	57	91
	12	216	709	36	389	797	779	403	199	70	107
2021 <sup>P</sup>	1	204	681	29	319	928	858	462	206	75	116
	2	202	666	31	346	812	775	442	187	58	88
	3	214	529	11	271	807	795	445	208	55	87
	4	219	639	13	335	784	774	457	199	46	72
	5	247	699	12	379	894	883	559	214	42	67
	6	220	676	27	295	956	940	572	244	47	77
	7	234	764	38	316	942	925	586	235	38	66
	8	221	644	25	291	866	853	543	221	33	56
	9	191	605	14	278	800	786	479	211	36	60
	10	187	668	26	272	835	818	463	230	48	78
	11	198	659	20	283	822	797	437	215	56	88
2020	1-11	2,260	7,688	454	298	9,445	9,312	5,513	2,457	511	831
2021 <sup>P</sup>	1-11	2,337	7,231	246	283	9,447	9,203	5,444	2,371	534	854

1. 1차에너지 공급량

주: 부탄과 프로판의 합계

자료: 한국석유공사-PEDSIS

1. Primary energy supply.

Note: Sum of butane and propane products.

Source: Korea National Oil Corporation-PEDSIS

## 3.14 나프타 수급

## Naphtha Supply and Demand

		생산	수입	수출	재고	공급 <sup>1</sup>	소비 Consumption				
		Production	Imports	Exports	Stock	Supply <sup>1</sup>	합계	산업	수송	가정	상업·공공
		1,000 톤(Ton)									
1990		3,861	1,676	362	185	5,173	-	-	-	-	-
1995		9,608	7,815	2,321	579	14,303	14,303	14,303	-	-	-
1996		11,219	8,725	3,347	737	15,369	15,369	15,369	-	-	-
1997		16,788	8,630	4,019	879	21,205	21,205	21,205	-	-	-
1998		16,735	11,434	4,879	868	23,265	23,265	23,265	-	-	-
1999		17,890	11,001	5,028	673	23,815	23,815	23,815	-	-	-
2000		18,169	12,106	5,314	753	24,917	24,917	24,915	-	-	2
2001		17,697	13,026	5,573	996	25,379	25,379	25,379	-	-	-
2002		17,832	13,263	4,889	829	26,687	26,687	26,687	-	-	-
2003		16,201	14,358	3,369	639	27,460	27,460	27,460	-	-	-
2004		18,259	14,291	3,390	1,194	28,597	28,536	28,536	-	-	-
2005		19,187	13,413	2,806	1,257	29,726	29,726	29,726	-	-	-
2006		19,916	13,812	3,045	1,159	31,223	31,223	31,223	-	-	-
2007		21,405	15,640	3,201	1,048	34,470	34,470	34,470	-	-	-
2008		18,901	16,686	2,493	1,065	33,873	33,873	33,873	-	-	-
2009		17,304	19,673	2,890	906	35,097	35,097	35,097	-	-	-
2010		18,464	20,517	3,493	961	36,098	36,098	36,098	-	-	-
2011		21,225	20,507	3,850	958	38,641	38,641	38,641	-	-	-
2012		22,530	22,567	3,621	1,283	41,840	41,840	41,840	-	-	0
2013		22,589	22,660	4,303	1,384	41,802	41,802	41,802	-	-	-
2014		23,726	22,381	3,847	1,394	43,117	43,117	43,117	-	-	-
2015		27,190	21,498	5,204	1,319	44,691	44,691	44,691	-	-	-
2016		28,265	21,999	5,414	1,339	46,789	46,789	46,789	-	-	-
2017		33,710	21,718	4,808	1,110	49,863	49,863	49,863	-	-	-
2018		34,151	23,804	4,739	1,642	49,081	49,081	49,081	-	-	-
2019		34,068	24,596	5,155	1,261	47,716	47,716	47,716	-	-	-
2020		31,194	23,485	3,990	1,839	44,088	44,088	44,088	-	-	-
2019	11	2,794	2,018	390	1,160	3,954	3,954	3,954	-	-	-
	12	2,904	2,338	372	1,261	4,180	4,180	4,180	-	-	-
2020	1	2,918	2,706	359	1,551	4,298	4,298	4,298	-	-	-
	2	2,472	2,270	297	1,480	3,867	3,867	3,867	-	-	-
	3	2,762	2,221	449	1,652	3,760	3,760	3,760	-	-	-
	4	2,563	1,612	327	1,537	3,455	3,455	3,455	-	-	-
	5	2,486	2,534	336	1,831	3,882	3,882	3,882	-	-	-
	6	2,460	2,313	426	1,970	3,657	3,657	3,657	-	-	-
	7	2,731	2,067	399	1,888	3,821	3,821	3,821	-	-	-
	8	2,693	1,742	265	1,876	3,706	3,706	3,706	-	-	-
	9	2,508	1,746	270	1,824	3,639	3,639	3,639	-	-	-
	10	2,412	1,090	220	1,479	3,367	3,367	3,367	-	-	-
	11	2,476	1,358	295	1,756	2,978	2,978	2,978	-	-	-
	12	2,712	1,827	346	1,839	3,658	3,658	3,658	-	-	-
2021 <sup>P</sup>	1	2,619	1,876	239	1,774	3,760	3,760	3,760	-	-	-
	2	2,502	2,086	324	1,678	3,769	3,769	3,769	-	-	-
	3	2,657	2,188	263	1,649	4,193	4,193	4,193	-	-	-
	4	2,630	2,043	203	1,639	4,042	4,042	4,042	-	-	-
	5	2,679	2,059	295	1,542	3,890	3,890	3,890	-	-	-
	6	2,259	2,353	296	1,542	3,801	3,801	3,801	-	-	-
	7	2,483	2,536	362	1,458	4,187	4,187	4,187	-	-	-
	8	2,735	2,544	276	1,579	4,331	4,331	4,331	-	-	-
	9	2,559	2,630	344	1,562	4,311	4,311	4,311	-	-	-
	10	2,711	2,435	288	1,679	4,210	4,210	4,210	-	-	-
	11	2,555	2,165	267	1,584	4,047	4,047	4,047	-	-	-
2020	1-11	28,481	21,658	3,644	1,756	40,430	40,430	40,430	-	-	-
2021 <sup>P</sup>	1-11	28,389	24,915	3,157	1,584	44,540	44,540	44,540	-	-	-

자료: 한국석유공사-PEDSIS

Source: Korea National Oil Corporation-PEDSIS





## 4. 가스

### Natural Gas and City Gas

#### 4.1 천연가스 개요

Natural Gas Overview

#### 4.2 천연가스 수입

Natural Gas Imports

#### 4.3 천연가스 소비

Natural Gas Consumption

#### 4.4 도시가스 수급

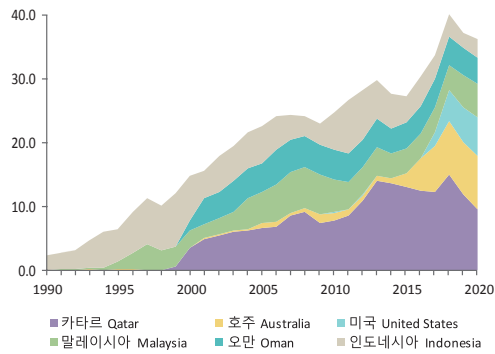
City Gas Supply and Demand



## ● 천연가스 수입 Natural Gas Imports

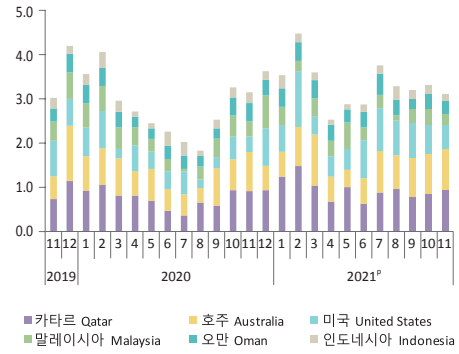
〈1990~2020〉

백만톤(Million ton)



〈월별 Monthly〉

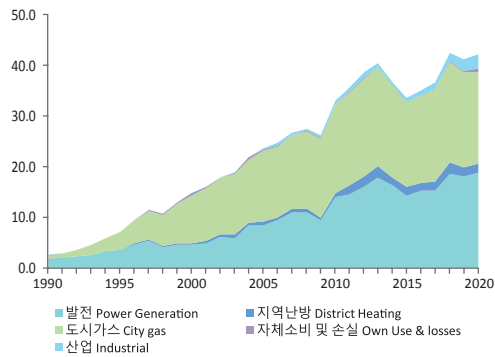
백만톤(Million ton)



## ● 천연가스 소비 Natural Gas Consumption

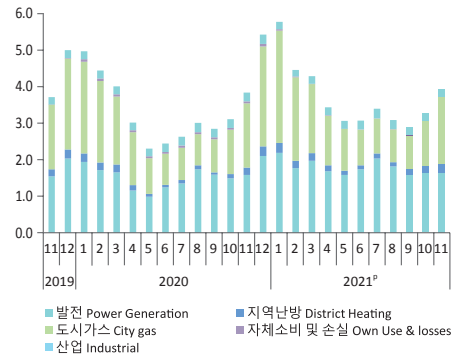
〈1990~2020〉

백만톤(Million ton)



〈월별 Monthly〉

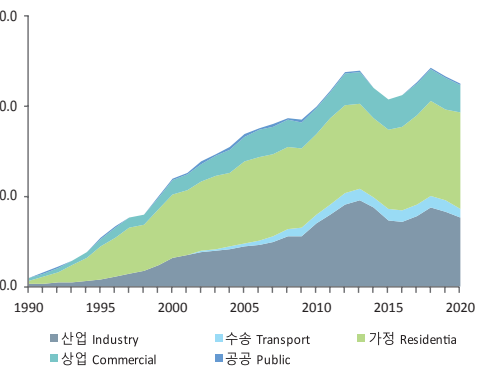
백만톤(Million ton)



## ● 도시가스 소비 City gas consumption

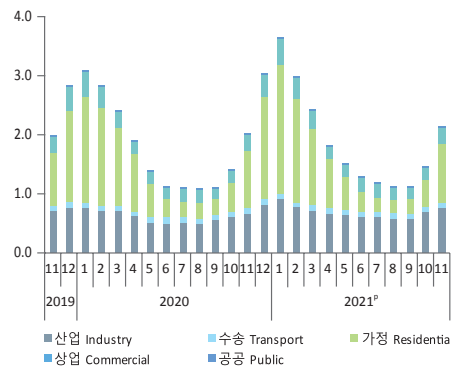
〈1990~2020〉

10억 (Bil) Nm<sup>3</sup>



〈월별 Monthly〉

10억 (Bil) Nm<sup>3</sup>



## 4.1 천연가스 개요

## Natural Gas Overview

		국내생산 Domestic production	카고 <sup>1</sup> Cargo <sup>1</sup>	수입량 Imports volume	수입액 Imports value	재고 Stock	소비 Consumption
		1,000 톤(Ton)	카고(Cargo)	1,000 톤(Ton)	백만(Mil) USD	1,000 톤(Ton)	
1990		-	41	2,237	460	46	2,329
1995		-	125	6,756	1,275	103	7,087
1996		-	168	9,258	1,878	369	9,363
1997		-	205	11,471	2,296	605	11,379
1998		-	188	10,189	1,549	527	10,645
1999		-	227	12,284	1,973	539	12,961
2000		-	248	15,239	3,882	591	14,557
2001		-	270	15,318	3,990	738	15,990
2002		-	298	17,993	4,120	426	17,766
2003		-	326	19,308	5,082	1,063	18,610
2004		163	371	21,781	6,552	1,602	21,809
2005		398	380	22,317	8,646	959	23,632
2006		355	410	25,256	11,925	1,936	24,619
2007		271	413	25,569	12,653	1,099	26,516
2008		181	460	27,259	19,806	2,558	27,439
2009		383	435	25,822	13,875	1,728	26,083
2010		415	504	32,603	17,006	2,667	33,083
2011		347	532	36,685	23,859	3,323	35,603
2012		334	538	36,184	27,364	1,840	38,485
2013		355	590	39,876	30,645	2,237	40,278
2014		247	538	37,107	31,403	3,234	36,636
2015		144	454	33,366	18,779	3,034	33,438
2016		118	461	33,453	12,170	1,695	34,906
2017		261	487	37,537	15,616	2,308	36,398
2018		234	545	44,015	23,189	4,281	42,285
2019		198	490	40,748	20,567	3,976	40,991
2020		142	472	39,982	15,716	2,874	42,091
2019	11	11	48	3,791	1,723	4,613	3,719
	12	15	55	4,776	2,175	3,976	5,004
2020	1	18	56	4,145	1,949	3,470	4,972
	2	16	54	4,721	2,110	3,424	4,447
	3	17	48	3,543	1,637	3,416	4,015
	4	16	36	3,092	1,481	3,752	3,019
	5	17	34	2,962	1,389	4,578	2,306
	6	16	26	2,580	1,145	4,558	2,447
	7	13	26	2,359	906	4,317	2,637
	8	11	22	1,956	621	3,398	3,010
	9	1	31	2,935	773	3,357	2,849
	10	-	45	3,848	1,061	4,059	3,116
	11	9	42	3,582	1,118	4,040	3,839
	12	9	52	4,257	1,526	2,874	5,431
2021 <sup>P</sup>	1	7	58	4,424	1,830	1,434	5,786
	2	5	70	5,159	2,742	2,389	4,454
	3	5	49	4,194	1,838	2,189	4,280
	4	6	34	2,836	1,093	1,881	3,439
	5	6	37	3,391	1,384	2,036	3,063
	6	2	35	3,131	1,443	2,052	3,067
	7	2	47	4,019	2,002	2,745	3,396
	8	1	42	3,477	1,860	3,178	3,085
	9	2	41	3,702	2,115	3,887	2,891
	10	2	47	3,897	2,606	4,444	3,289
	11	2	45	3,846	3,098	4,148	3,949
2020	1-11	132	420	35,725	14,190	4,040	36,659
2021 <sup>P</sup>	1-11	41	505	42,076	22,011	4,148	40,698

1. 1카고는 58,000톤

자료: 한국무역협회, 한국가스공사, LNG직도입사.

1. 1 cargo equates to 58,000 Tons.

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

## 4.2 천연가스 수입

## Natural Gas Imports

		합계 <sup>1</sup>	카타르	호주	미국	말레이시아	오만	인도네시아
		Total <sup>1</sup>	Qatar	Australia	United States	Malaysia	Oman	Indonesia
		1,000 톤(Ton)						
1990		2,237	-	-	0	-	-	2,237
1995		6,756	-	114	-	1,040	-	4,892
1996		9,258	-	56	0	2,573	-	5,975
1997		11,471	-	-	-	3,928	-	6,730
1998		10,189	-	-	-	2,851	-	6,736
1999		12,284	480	-	0	3,046	-	7,943
2000		15,239	3,251	54	0	2,529	1,619	6,633
2001		15,318	4,655	57	0	2,175	3,784	4,055
2002		17,993	5,123	176	0	2,400	3,970	5,256
2003		19,308	5,694	123	-	2,798	4,714	5,200
2004		21,781	5,818	285	0	4,638	4,411	5,290
2005		22,317	6,211	748	-	4,688	4,244	5,502
2006		25,256	6,458	701	-	5,546	5,221	5,060
2007		25,569	8,031	422	0	6,161	4,792	3,755
2008		27,259	8,744	398	-	6,247	4,544	3,053
2009		25,822	6,973	1,314	-	5,874	4,551	3,084
2010		32,603	7,449	1,030	232	4,745	4,557	5,451
2011		36,685	8,153	787	113	4,144	4,195	7,894
2012		36,184	10,278	832	57	4,082	4,127	7,445
2013		39,876	13,354	620	-	4,314	4,331	5,627
2014		37,107	12,853	836	-	3,673	3,726	5,176
2015		33,366	12,442	1,952	-	3,698	3,990	3,776
2016		33,453	11,880	4,695	28	3,813	4,081	4,362
2017		37,537	11,554	6,997	1,959	3,749	4,231	3,542
2018		44,015	14,245	7,871	4,658	3,702	4,282	3,447
2019		40,748	11,311	7,775	5,226	4,802	3,946	2,336
2020		39,982	9,087	7,972	5,762	4,918	3,900	2,699
2019	11	3,791	729	510	808	431	299	240
	12	4,776	1,133	1,252	610	595	425	176
2020	1	4,145	917	778	647	552	409	249
	2	4,721	1,045	833	841	564	411	357
	3	3,543	806	840	212	489	356	249
	4	3,092	809	546	586	410	236	119
	5	2,962	692	716	395	287	237	118
	6	2,580	463	487	403	281	299	319
	7	2,359	356	479	517	56	302	309
	8	1,956	645	329	198	289	240	122
	9	2,935	581	842	249	419	237	196
	10	3,848	930	694	515	479	409	223
	11	3,582	909	882	351	345	411	245
	12	4,257	931	546	848	747	352	194
2021 <sup>P</sup>	1	4,424	1,235	561	605	411	417	300
	2	5,159	1,474	885	1,257	234	426	192
	3	4,194	1,034	1,154	412	402	416	175
	4	2,836	671	564	463	350	357	119
	5	3,391	1,000	391	470	598	295	119
	6	3,131	619	577	861	289	354	166
	7	4,019	877	933	973	302	479	182
	8	3,477	958	759	783	122	351	301
	9	3,702	808	878	827	304	235	182
	10	3,897	874	901	673	352	358	183
	11	3,846	975	917	568	234	302	128
2020	1-11	35,725	8,156	7,425	4,914	4,171	3,547	2,505
2021 <sup>P</sup>	1-11	42,076	10,525	8,521	7,892	3,596	3,989	2,047

1. 기타국가가 포함

자료: 한국가스공사, LNG직도입사.

1. Includes imports from other countries.

Source: Korea Gas Corporation and LNG Direct Importers.

### 4.3 천연가스 소비

### Natural Gas Consumption

		합계 Total	발전 Power generation	지역난방 District heating	도시가스 제조 City gas	자체소비 및 손실 Own use and loss	산업 Industry
		1,000 톤(Ton)					
1990		2,329	1,741	0	576	12	-
1995		7,087	3,562	0	3,417	108	-
1996		9,363	4,449	173	4,561	179	-
1997		11,379	5,198	179	5,770	232	-
1998		10,645	4,030	160	6,233	222	-
1999		12,961	4,591	177	7,886	306	-
2000		14,557	4,353	335	9,528	340	0
2001		15,990	4,657	630	10,300	403	-
2002		17,766	5,900	609	11,194	63	-
2003		18,610	5,853	615	11,978	165	-
2004		21,809	8,242	576	12,504	487	-
2005		23,632	8,359	685	14,077	229	282
2006		24,619	9,292	619	13,957	183	567
2007		26,516	10,897	631	14,449	141	398
2008		27,439	10,914	603	15,316	173	434
2009		26,083	9,376	524	15,510	220	453
2010		33,083	13,937	651	17,522	213	761
2011		35,603	14,412	1,760	18,255	214	963
2012		38,485	15,796	2,046	19,558	200	886
2013		40,278	17,756	2,108	19,596	195	623
2014		36,636	16,068	1,654	18,180	144	590
2015		33,438	14,252	1,538	16,929	65	653
2016		34,906	15,092	1,556	17,384	74	801
2017		36,398	15,154	1,684	18,390	122	1,049
2018		42,285	18,507	2,255	19,813	150	1,560
2019		40,991	17,945	1,902	18,822	94	2,227
2020		42,091	18,612	1,778	18,247	696	2,758
2019	11	3,719	1,549	196	1,770	5	199
	12	5,004	2,038	246	2,488	12	220
2020	1	4,972	1,943	237	2,506	70	216
	2	4,447	1,719	207	2,238	66	217
	3	4,015	1,655	216	1,860	64	219
	4	3,019	1,162	145	1,453	55	205
	5	2,306	991	76	979	50	209
	6	2,447	1,247	68	852	49	231
	7	2,637	1,359	89	886	60	244
	8	3,010	1,742	106	857	55	250
	9	2,849	1,600	57	906	53	233
	10	3,116	1,493	115	1,218	50	241
	11	3,839	1,589	201	1,760	52	237
	12	5,431	2,111	260	2,733	72	256
2021 <sup>P</sup>	1	5,786	2,196	276	3,073	36	205
	2	4,454	1,769	200	2,283	22	180
	3	4,280	1,965	213	1,885	9	208
	4	3,439	1,691	164	1,356	9	220
	5	3,063	1,584	111	1,148	1	219
	6	3,067	1,739	108	972	9	240
	7	3,396	2,033	141	954	3	265
	8	3,085	1,812	116	898	11	247
	9	2,891	1,628	116	929	4	213
	10	3,289	1,640	177	1,268	2	202
	11	3,949	1,664	217	1,854	8	207
2020	1-11	36,659	16,501	1,518	15,514	624	2,502
2021 <sup>P</sup>	1-11	40,698	19,720	1,838	16,620	114	2,406

자료: 한국가스공사, LNG직도입사.

Source: Korea Gas Corporation and LNG Direct Importers.

## 4.4 도시가스 수급

## City Gas Supply and Demand

		원료 Raw materials		생산 <sup>1</sup> Production <sup>1</sup>	소비 Consumption					
		프로판 Propane	액화천연가스 LNG		합계 Total	산업 Industry	수송 Transport	가정 Residential	상업 Commercial	공공 Public
		1,000 톤(Ton)			백만(Mil) Nm <sup>3</sup>					
1990		207	707	968	963	223	-	433	307	-
1995		1,015	4,219	5,383	5,327	822	-	3,588	799	119
1996		905	5,679	6,739	6,607	1,139	-	4,300	1,022	145
1997		644	6,991	7,857	7,708	1,425	-	5,045	1,085	154
1998		338	7,675	8,080	8,024	1,725	-	5,087	1,059	152
1999		360	9,826	10,260	10,012	2,410	-	6,104	1,309	189
2000		245	11,631	11,924	11,963	3,151	-	7,003	1,591	218
2001		134	12,590	12,751	12,657	3,440	7	7,168	1,796	247
2002		125	13,666	13,815	13,873	3,794	76	7,723	2,030	250
2003		66	14,871	14,950	14,734	3,978	139	8,124	2,246	246
2004		67	15,280	15,360	15,422	4,173	227	8,225	2,530	266
2005		68	17,568	17,650	16,963	4,434	323	9,070	2,838	298
2006		39	17,045	17,092	17,504	4,616	452	9,224	3,021	190
2007		42	17,763	17,786	17,967	4,952	583	9,216	2,946	270
2008		44	18,871	18,921	18,734	5,624	736	9,122	2,975	277
2009		46	19,187	19,239	18,445	5,584	910	8,784	2,905	262
2010		45	21,066	21,118	19,982	6,947	1,054	8,878	2,960	144
2011		57	22,660	22,727	21,679	7,946	1,113	9,597	2,916	106
2012		56	24,262	24,327	23,776	9,135	1,200	9,720	3,546	174
2013		49	24,243	24,298	23,890	9,510	1,247	9,457	3,582	94
2014		11	22,286	22,264	22,091	8,677	1,253	8,748	3,332	81
2015		13	20,466	20,481	20,785	7,329	1,235	8,813	3,326	82
2016		30	21,643	21,770	21,271	7,226	1,217	9,249	3,494	84
2017		18	22,895	23,327	22,603	7,784	1,218	9,950	3,576	74
2018		19	24,667	25,177	24,275	8,773	1,203	10,593	3,608	96
2019		20	23,434	23,920	23,268	8,299	1,181	10,184	3,528	76
2020		21	22,718	23,191	22,449	7,593	1,068	10,593	3,128	68
2019	11	2	2,204	2,249	1,992	717	97	886	286	5
	12	3	3,097	3,161	2,840	774	100	1,549	406	11
2020	1	3	3,120	3,185	3,079	758	93	1,800	418	11
	2	2	2,786	2,844	2,831	723	88	1,645	364	10
	3	2	2,316	2,364	2,411	720	86	1,322	275	7
	4	2	1,808	1,846	1,894	625	81	970	213	4
	5	0	1,219	1,244	1,372	526	87	576	181	2
	6	0	1,061	1,082	1,129	510	92	316	207	3
	7	0	1,103	1,125	1,101	523	97	257	221	3
	8	11	1,067	1,100	1,083	498	95	254	233	4
	9	0	1,128	1,150	1,103	576	87	251	185	3
	10	0	1,516	1,546	1,399	615	87	507	188	3
	11	0	2,191	2,234	2,009	686	87	967	264	5
	12	0	3,403	3,471	3,039	833	88	1,729	378	11
2021 <sup>p</sup>	1	-	3,826	3,901	3,647	909	85	2,205	435	13
	2	-	2,842	2,899	2,988	778	75	1,762	361	11
	3	-	2,347	2,394	2,422	722	87	1,296	309	7
	4	-	1,688	1,721	1,808	671	84	830	219	4
	5	-	1,429	1,457	1,502	649	86	560	205	3
	6	-	1,210	1,234	1,282	620	89	345	224	5
	7	-	1,188	1,211	1,178	617	93	230	231	7
	8	-	1,119	1,141	1,129	596	89	216	221	7
	9	-	1,157	1,180	1,110	603	84	227	191	5
	10	-	1,579	1,610	1,457	693	85	454	220	4
	11	-	2,308	2,353	2,113	763	85	989	271	5
2020	1-11	20	19,315	19,720	19,411	6,760	980	8,864	2,750	57
2021 <sup>p</sup>	1-11	-	20,692	21,102	20,635	7,620	941	9,114	2,888	71

1. 1990년, 1991년에는 나프타 포함.

자료: 한국도시가스협회

1. Includes naphtha production for 1990 and 1991 data.

Source: Korea City Gas Association

## 5. 석 탄

### Coal

#### 5.1 무연탄 수급

Anthracite Supply and Demand

#### 5.2 부문별 무연탄 소비

Anthracite Consumption by Sector

#### 5.3 유연탄 수급

Bituminous Coal Supply and Demand

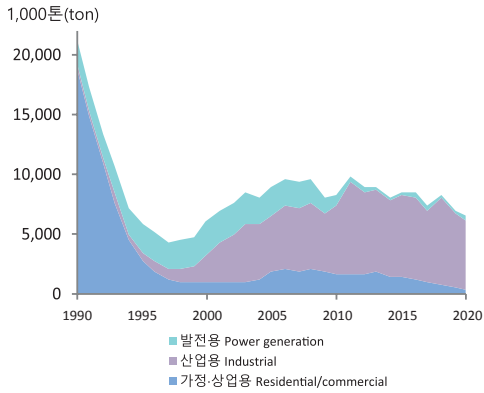
#### 5.4 용도별 유연탄 소비

Bituminous Coal Consumption by Sector

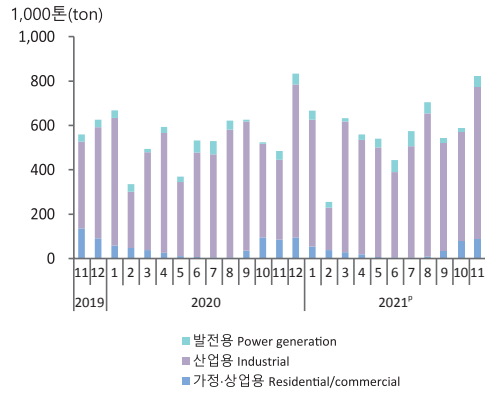


## ● 무연탄 소비 Anthracite Consumption

〈1990~2020〉

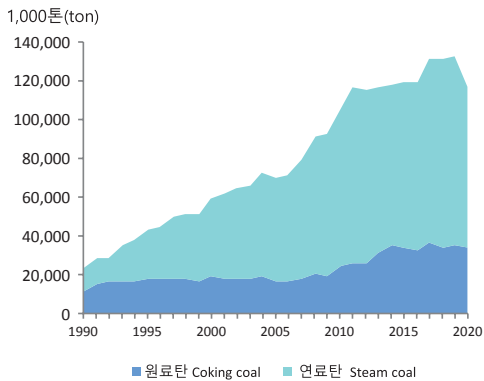


〈월별 Monthly〉

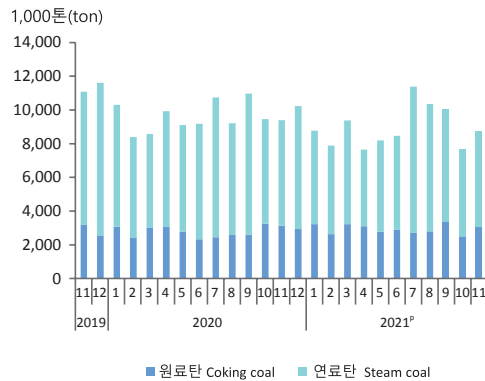


## ● 유연탄 수입 Bituminous Coal Imports

〈1990~2020〉

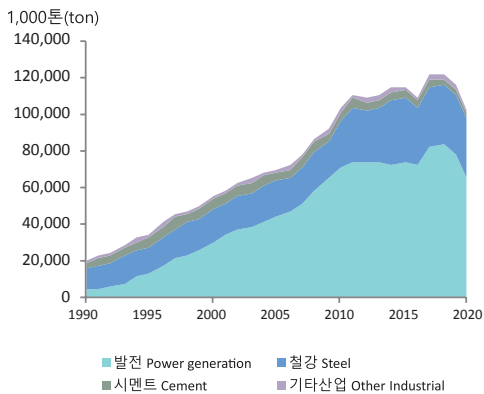


〈월별 Monthly〉

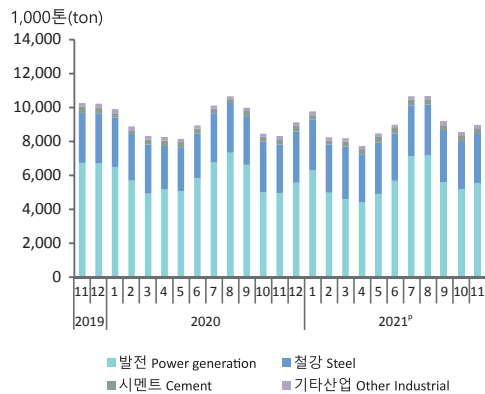


## ● 유연탄 소비 Bituminous Coal Consumption

〈1990~2020〉



〈월별 Monthly〉





## 5.1 무연탄 수급

## Anthracite Supply and Demand

		생산	수입	소비			재고		
				Consumption			Stock		
				합계	국내탄	수입탄	합계	국내탄	수입탄
		Production	Imports	Total	Domestic	Imported	Total	Domestic	Imported
1,000 톤(Ton)									
1990		17,217	1,072	21,091	19,802	1,289	8,013	6,514	1,499
1995		5,720	723	5,999	5,367	632	8,492	7,422	1,070
1996		4,951	875	5,312	4,406	906	8,937	7,898	1,039
1997		4,512	722	4,444	3,659	785	9,720	8,744	976
1998		4,361	789	4,650	3,812	838	10,269	9,342	927
1999		4,197	1,139	4,995	3,803	1,192	10,737	9,863	874
2000		4,150	2,038	6,200	4,159	2,041	10,774	9,903	871
2001		3,817	3,110	7,141	4,027	3,114	10,576	9,709	867
2002		3,318	3,879	7,735	3,808	3,927	10,101	9,282	819
2003		3,298	4,640	8,584	3,924	4,660	9,527	8,728	799
2004		3,191	4,251	8,249	3,871	4,378	8,894	8,222	672
2005		2,832	4,567	9,037	4,347	4,690	7,388	6,839	549
2006		2,824	5,113	9,769	4,596	5,173	5,551	5,062	489
2007		2,886	5,444	9,690	4,035	5,655	4,231	3,953	278
2008		2,773	5,955	10,247	4,134	6,113	2,797	2,677	120
2009		2,519	6,468	9,585	3,114	6,472	2,238	2,122	116
2010		2,084	7,406	9,956	2,508	7,448	1,853	1,779	74
2011		2,084	8,816	11,072	2,239	8,833	1,720	1,663	57
2012		2,094	8,055	10,315	2,288	8,027	1,787	1,702	85
2013		1,815	8,482	10,506	2,054	8,452	1,457	1,342	115
2014		1,748	8,294	9,925	1,642	8,283	1,610	1,484	126
2015		1,764	8,938	10,539	1,541	8,997	1,798	1,731	67
2016		1,726	9,424	10,801	1,373	9,428	2,151	2,088	63
2017		1,485	7,003	8,260	1,244	7,016	2,441	2,391	50
2018		1,200	8,201	9,272	1,099	8,173	2,589	2,511	78
2019		1,084	6,858	7,923	1,008	6,915	2,650	2,629	21
2020		1,019	6,286	7,189	886	6,303	2,772	2,768	4
2019	11	96	440	609	164	445	2,681	2,656	25
	12	90	568	692	120	572	2,650	2,629	21
2020	1	80	653	744	88	656	2,624	2,606	18
	2	90	318	399	79	320	2,629	2,613	16
	3	99	477	530	50	480	2,677	2,664	13
	4	91	570	624	49	575	2,729	2,721	8
	5	81	405	440	34	406	2,768	2,761	7
	6	92	534	596	61	535	2,790	2,784	6
	7	86	527	592	64	528	2,826	2,821	5
	8	68	605	652	46	606	2,854	2,850	4
	9	86	582	626	45	582	2,896	2,892	4
	10	78	423	525	102	423	2,887	2,883	4
	11	86	442	567	125	442	2,817	2,813	4
	12	82	751	895	144	751	2,772	2,768	4
2021 <sup>p</sup>	1	77	639	734	95	639	2,752	2,748	4
	2	63	229	292	63	229	2,756	2,752	4
	3	82	641	684	43	641	2,796	2,792	4
	4	89	546	590	44	546	2,839	2,835	4
	5	70	566	613	47	566	2,864	2,860	4
	6	82	398	459	61	398	2,888	2,884	4
	7	79	555	628	73	555	2,888	2,884	4
	8	61	717	776	59	717	2,897	2,893	4
	9	63	492	545	53	492	2,918	2,914	4
	10	75	516	608	92	516	2,900	2,896	4
	11	80	739	871	132	739	2,831	2,827	4
2020	1-11	937	5,535	6,295	742	5,552	2,817	2,813	4
2021 <sup>p</sup>	1-11	821	6,037	6,799	762	6,037	2,831	2,827	4

자료: 한국무역협회, 대한석탄협회

Source: Korea International Trade Association, Korea Coal Association.

## 5.2 부문별 무연탄 소비

## Anthracite Consumption by Sector

		합계	발전			산업용	가정·상업		
			Power generation				Residential/Commercial		
		Total	소계	국내탄	수입탄	Industrial	소계 <sup>1</sup>	국내탄	수입탄
			Subtotal	Domestic	Imported		Subtotal <sup>1</sup>	Domestic	Imported
		1,000 톤(Ton)							
1990		21,091	1,983	1,983	-	283	18,825	17,602	1,177
1995		5,999	2,400	2,321	79	594	3,005	2,987	18
1996		5,312	2,507	2,421	86	844	1,961	1,957	4
1997		4,444	2,302	2,241	61	753	1,389	1,389	-
1998		4,650	2,451	2,421	30	970	1,229	1,229	-
1999		4,995	2,552	2,502	50	1,326	1,117	1,117	-
2000		6,200	2,850	2,850	-	2,158	1,192	1,192	-
2001		7,141	2,689	2,689	-	3,221	1,230	1,230	-
2002		7,735	2,558	2,558	-	4,002	1,175	1,175	-
2003		8,584	2,710	2,710	-	4,683	1,191	1,174	17
2004		8,249	2,356	2,356	-	4,508	1,385	1,370	15
2005		9,037	2,354	2,354	-	4,673	2,010	1,959	51
2006		9,769	2,356	2,356	-	5,086	2,327	2,224	103
2007		9,690	2,450	2,156	294	5,149	2,091	1,872	219
2008		10,247	2,539	1,960	579	5,419	2,289	2,163	126
2009		9,585	2,690	1,360	1,330	4,954	1,941	1,746	195
2010		9,956	2,404	839	1,565	5,693	1,859	1,669	190
2011		11,072	1,659	543	1,116	7,592	1,822	1,696	126
2012		10,315	1,797	591	1,206	6,685	1,833	1,697	136
2013		10,506	1,729	323	1,406	6,861	1,917	1,731	186
2014		9,925	2,044	250	1,794	6,251	1,629	1,392	237
2015		10,539	2,125	245	1,880	6,940	1,473	1,296	177
2016		10,801	2,528	240	2,288	7,017	1,255	1,133	122
2017		8,260	1,079	235	844	6,103	1,079	1,009	70
2018		9,272	992	230	762	7,370	910	869	41
2019		7,923	1,165	400	765	6,115	644	608	36
2020		7,189	971	393	578	5,708	510	493	17
2019 11		609	82	33	49	391	136	131	5
12		692	100	33	67	501	91	87	4
2020 1		744	109	33	76	577	58	55	3
2		399	97	33	64	254	48	46	2
3		530	51	15	36	441	38	35	3
4		624	58	28	30	539	26	21	5
5		440	95	24	71	334	11	10	1
6		596	118	55	63	470	7	6	1
7		592	123	60	63	464	5	4	1
8		652	71	41	30	575	6	5	1
9		626	9	9	0	582	36	36	-
10		525	7	7	0	423	95	95	-
11		567	122	40	82	360	85	85	-
12		895	110	49	61	690	95	95	-
2021 <sup>p</sup> 1		734	108	40	68	571	55	55	-
2		292	62	25	37	192	38	38	-
3		684	66	15	51	590	28	28	-
4		590	56	25	31	515	19	19	-
5		613	112	40	72	494	7	7	-
6		459	70	55	15	383	6	6	-
7		628	121	67	54	501	6	6	-
8		776	121	50	71	646	9	9	-
9		545	30	21	9	483	32	32	-
10		608	44	15	29	487	77	77	-
11		871	109	47	62	677	85	85	-
2020 1-11		6,295	861	344	517	5,018	415	398	17
2021 <sup>p</sup> 1-11		6,799	900	400	500	5,538	362	362	-

1. 공공기타 소비량 포함  
자료: 대한석탄협회

1. Subtotal of Residential/Commercial includes Public/Others.  
Source: Korea Coal Association.

## 5.3 유연탄 수급

## Bituminous Coal Supply and Demand

		수입 Imports			소비 Consumption		
		합계 Total	원료탄 Coking coal	연료탄 Steam coal	합계 Total	원료탄 Coking coal	연료탄 Steam coal
		1,000 톤(Ton)					
1990		22,844	11,285	11,559	21,878	11,739	10,139
1995		42,601	17,784	24,817	37,426	16,372	21,054
1996		45,136	17,408	27,728	44,809	17,303	27,506
1997		49,312	17,394	31,918	49,712	18,178	31,534
1998		50,566	17,979	32,587	51,261	18,329	32,932
1999		51,101	17,227	33,874	54,137	18,442	35,696
2000		59,600	19,575	40,025	60,346	19,415	40,931
2001		61,856	17,899	43,957	63,703	19,315	44,388
2002		64,640	17,660	46,980	68,274	20,097	48,177
2003		65,318	17,676	47,642	70,549	20,509	50,041
2004		72,103	18,954	53,149	73,984	20,839	53,145
2005		69,330	16,975	52,355	75,796	20,810	54,986
2006		70,888	16,466	54,422	78,001	20,731	57,270
2007		79,355	18,385	60,970	84,438	21,519	62,919
2008		90,470	20,912	69,558	94,013	23,568	70,445
2009		92,952	19,553	73,399	98,789	20,734	78,055
2010		106,096	24,328	81,768	111,162	27,210	83,952
2011		116,118	26,157	89,961	119,870	31,762	88,108
2012		114,645	25,857	88,788	117,872	31,487	86,385
2013		116,220	31,361	84,859	119,078	32,053	87,025
2014		117,873	35,198	82,675	123,399	37,611	85,788
2015		119,392	34,148	85,244	124,547	36,753	87,794
2016		118,468	33,030	85,438	118,509	33,460	85,049
2017		131,464	36,442	95,022	131,490	36,290	95,200
2018		131,520	34,247	97,273	131,779	34,619	97,160
2019		132,667	34,933	97,734	125,084	34,959	90,125
2020		115,486	33,671	81,815	109,382	33,797	75,585
2019	11	11,074	3,178	7,896	10,289	2,943	7,346
	12	11,613	2,556	9,057	10,244	2,933	7,310
2020	1	10,305	3,079	7,226	9,932	2,908	7,024
	2	8,384	2,438	5,946	8,906	2,723	6,183
	3	8,574	3,032	5,542	8,340	2,882	5,458
	4	9,926	3,049	6,877	8,278	2,544	5,734
	5	9,098	2,783	6,315	8,168	2,574	5,594
	6	9,186	2,333	6,853	8,955	2,628	6,327
	7	10,743	2,444	8,299	10,139	2,898	7,241
	8	9,212	2,591	6,621	10,687	2,934	7,753
	9	10,976	2,598	8,378	10,003	2,858	7,145
	10	9,460	3,254	6,206	8,482	2,977	5,505
	11	9,391	3,131	6,260	8,340	2,845	5,495
	12	10,231	2,939	7,292	9,152	3,026	6,126
2021 <sup>P</sup>	1	8,763	3,228	5,535	9,795	2,977	6,818
	2	7,888	2,635	5,253	8,257	2,824	5,433
	3	9,383	3,227	6,156	8,219	3,107	5,112
	4	7,643	3,102	4,541	7,750	2,836	4,914
	5	8,189	2,779	5,410	8,488	3,017	5,471
	6	8,466	2,893	5,573	9,000	2,800	6,200
	7	11,385	2,703	8,682	10,684	3,010	7,674
	8	10,354	2,798	7,556	10,694	3,011	7,683
	9	10,198	3,387	6,811	9,169	2,963	6,206
	10	7,787	2,511	5,276	8,506	2,832	5,674
	11	8,844	3,093	5,751	8,935	2,898	6,037
2020	1-11	105,255	30,732	74,523	100,230	30,771	69,459
2021 <sup>P</sup>	1-11	98,900	32,356	66,544	99,497	32,275	67,222

자료 : 대한석탄협회

Source : Korea Coal Association.

## 5.4 부문별 유연탄 소비

## Bituminous Coal Consumption by Sector

		합계 Total	발전 Power generation	철강 Steel	시멘트 Cement	기타산업 Other industrial
		1,000 톤(Ton)				
1990		21,878	5,724	11,739	3,534	882
1995		37,426	13,752	16,372	5,590	1,965
1996		44,809	19,019	17,303	5,758	2,729
1997		49,712	22,714	18,178	6,593	2,227
1998		51,261	25,682	18,329	5,019	2,231
1999		54,137	28,297	18,442	5,069	2,330
2000		60,346	33,305	19,415	5,308	2,319
2001		63,703	36,601	19,315	5,475	2,312
2002		68,274	40,143	20,097	5,669	2,365
2003		70,549	41,631	20,509	6,060	2,349
2004		73,984	45,512	20,839	5,309	2,324
2005		75,796	47,852	20,810	4,807	2,327
2006		78,001	50,199	20,731	4,738	2,333
2007		84,438	55,487	21,519	5,051	2,381
2008		94,013	62,791	23,568	5,236	2,418
2009		98,789	71,091	20,734	4,463	2,501
2010		111,162	76,674	27,210	4,564	2,714
2011		119,870	80,393	31,762	5,046	2,669
2012		117,872	79,136	31,487	4,625	2,624
2013		119,078	79,692	32,053	4,647	2,686
2014		123,399	78,227	37,611	4,916	2,645
2015		124,547	80,354	36,753	4,650	2,790
2016		118,509	77,761	33,460	4,591	2,696
2017		131,490	88,309	36,290	4,175	2,716
2018		131,779	90,764	34,619	3,709	2,687
2019		125,084	83,637	34,959	3,989	2,499
2020		109,382	69,772	33,797	3,404	2,410
2019	11	10,289	6,749	2,943	374	223
	12	10,244	6,743	2,933	318	250
2020	1	9,932	6,520	2,908	261	243
	2	8,906	5,728	2,723	238	217
	3	8,340	4,955	2,882	284	220
	4	8,278	5,214	2,544	327	193
	5	8,168	5,106	2,574	299	189
	6	8,955	5,860	2,628	282	185
	7	10,139	6,779	2,898	271	191
	8	10,687	7,359	2,934	210	184
	9	10,003	6,653	2,858	294	198
	10	8,482	5,030	2,977	303	172
	11	8,340	4,986	2,845	325	184
	12	9,152	5,582	3,026	310	234
2021 <sup>P</sup>	1	9,795	6,325	2,977	266	227
	2	8,257	5,004	2,824	223	206
	3	8,219	4,617	3,107	279	216
	4	7,750	4,430	2,836	305	179
	5	8,488	4,927	3,017	345	199
	6	9,000	5,694	2,800	311	195
	7	10,684	7,151	3,010	329	194
	8	10,694	7,186	3,011	310	187
	9	9,169	5,677	2,963	332	197
	10	8,506	5,151	2,832	327	196
	11	8,935	5,516	2,898	316	205
2020	1-11	100,230	64,190	30,771	3,094	2,176
2021 <sup>P</sup>	1-11	99,497	61,678	32,275	3,343	2,201

자료: 대한석탄협회

Source: Korea Coal Association.

## 6. 전력·열

### Electricity and Heat

#### 6.1 발전 현황

Power Generation

#### 6.2 발전 설비 현황

Generating Facilities

#### 6.3 발전 설비별 발전량

Power Generation by Generating Facility

#### 6.4 종별 고객호수 및 판매량

Customers and Sales Volume by Type

#### 6.5 부문별 전력 소비

Electricity Consumption by Sector

#### 6.6 발전연료 소비

Fuel Consumption of Power Generation

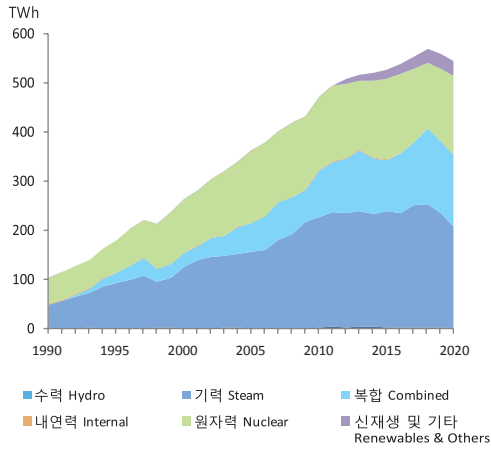
#### 6.7 지역난방 수급

District Heating Supply and Demand

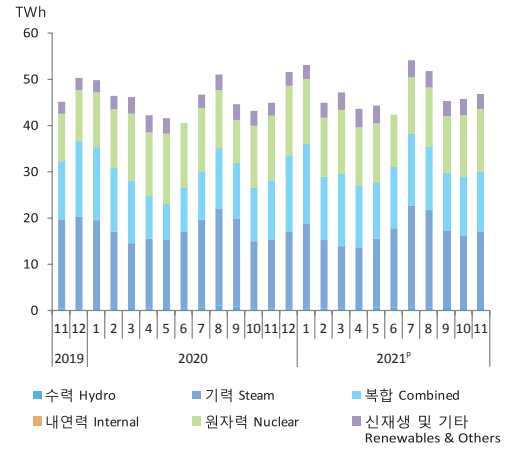


## ● 발전 설비별 발전량 Power Generation by Generating Facility

〈1990~2020〉

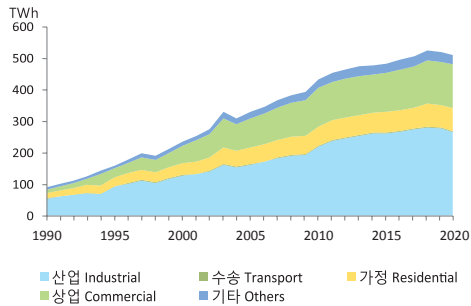


〈월별 Monthly〉

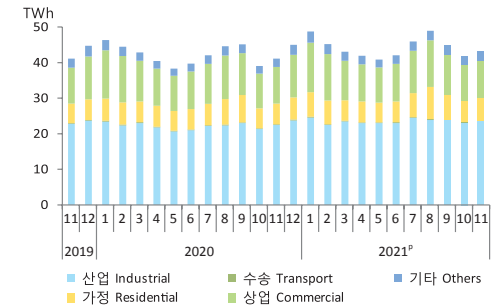


## ● 부문별 전력 소비 Electricity Consumption by Sector

〈1990~2020〉

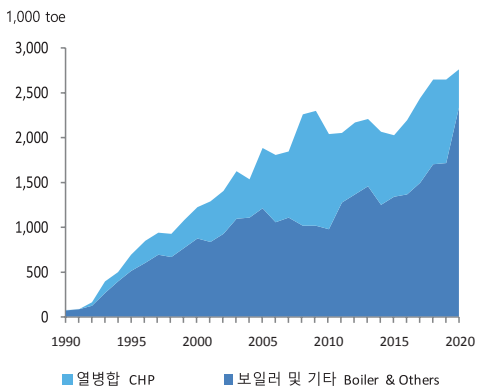


〈월별 Monthly〉



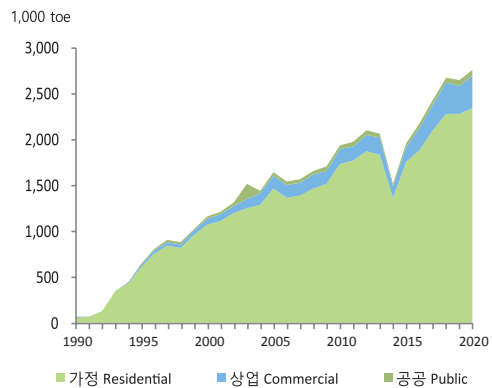
## ● 지역난방 생산 District Heating Production

〈1990~2020〉



## ● 지역난방 소비 District Heating Consumption

〈1990~2020〉



## 6.1 발전 현황

## Power Generation

		총발전량 Total power generation amount	설비용량 Power plant capacity	공급능력 Supply capability	최대전력 <sup>1</sup> Peak load <sup>1</sup>	평균전력 Average load	공급예비율 Supplied reserve ratio	평균부하율 Average load factor
		GWh		MW			%	
1990		107,670	21,021	18,680	17,252	12,291	8.3	71.2
1995		184,661	31,793	31,968	29,878	21,080	7.0	70.6
1996		205,494	35,722	34,295	32,282	23,394	6.2	72.5
1997		224,445	40,534	38,452	35,851	25,622	7.3	71.5
1998		215,300	43,261	37,928	32,996	24,578	14.9	74.5
1999		239,325	44,427	43,418	37,293	27,320	16.4	73.3
2000		266,400	47,876	46,078	41,007	30,328	12.4	74.0
2001		285,224	49,632	48,699	43,125	32,560	12.9	75.5
2002		306,474	52,799	52,113	45,773	34,986	13.9	76.4
2003		322,452	56,081	55,488	47,385	36,810	17.1	77.7
2004		342,148	59,129	57,528	51,264	39,058	12.2	76.2
2005		364,639	61,737	60,818	54,631	41,625	11.3	76.2
2006		381,181	64,778	65,183	58,994	43,514	10.5	73.8
2007		403,125	67,196	66,778	62,285	46,019	7.2	73.9
2008		422,355	70,353	68,519	62,794	48,082	9.1	76.6
2009		433,604	73,470	72,071	66,797	49,498	7.9	74.1
2010		474,660	76,078	75,747	71,308	54,185	6.2	76.0
2011		496,893	76,649	77,179	73,137	56,723	5.5	77.6
2012		509,574	81,806	79,972	75,987	58,012	5.2	76.3
2013		517,147	82,296	80,713	76,522	59,035	5.5	77.1
2014		521,971	93,216	89,357	80,154	59,586	11.5	74.3
2015		528,090	94,102	87,926	78,790	60,284	11.6	76.5
2016		540,441	100,180	92,400	85,183	61,694	8.5	72.4
2017		553,530	116,657	96,095	85,133	63,188	12.9	74.2
2018		570,647	117,205	99,570	92,478	65,142	7.7	70.4
2019		563,040	125,338	96,389	90,314	64,274	6.7	71.2
2020		552,162	127,819	97,951	89,091	62,860	9.9	70.6
2019	11	45,165	124,392	87,377	74,393	62,729	17.5	84.3
	12	50,283	125,338	92,934	81,787	67,585	13.6	82.6
2020	1	49,851	125,358	94,735	82,352	67,031	15.0	81.4
	2	46,449	125,358	97,069	81,493	66,723	19.1	81.9
	3	46,165	125,887	90,877	73,329	62,018	23.9	84.6
	4	42,255	126,262	83,368	66,699	58,683	25.0	88.0
	5	41,581	126,887	88,211	65,700	55,884	34.3	85.1
	6	43,830	126,798	91,889	75,347	60,868	22.0	80.8
	7	46,683	127,338	97,338	75,675	62,747	28.6	82.9
	8	51,051	127,819	97,951	89,091	68,617	9.9	77.0
	9	44,599	128,078	96,797	82,036	61,944	18.0	75.5
	10	43,164	127,762	85,999	68,454	58,017	25.6	84.8
	11	44,932	128,609	96,827	77,074	62,406	25.6	81.0
	12	51,600	128,609	98,795	85,132	69,355	16.0	81.5
2021 <sup>p</sup>	1	53,095	128,209	99,189	90,564	71,364	9.5	78.8
	2	44,942	128,820	95,992	84,749	66,878	13.3	78.9
	3	47,193	128,820	92,526	77,208	63,432	19.8	82.2
	4	43,637	129,361	77,695	69,016	60,608	12.6	87.8
	5	44,305	129,540	80,387	69,140	59,549	16.3	86.1
	6	45,788	129,623	87,573	75,854	63,595	15.4	83.8
	7	54,145	131,330	100,739	91,141	72,775	10.5	79.8
	8	51,796	131,330	98,952	86,355	69,618	14.6	80.6
	9	45,410	131,895	90,532	77,820	63,070	16.3	81.0
	10	45,778	131,895	82,449	75,698	61,530	8.9	81.3
	11	46,879	133,564	95,394	80,362	65,110	18.7	81.0
2020	1-11	500,562	127,819	97,951	89,091	62,259	9.9	69.9
2021 <sup>p</sup>	1-11	522,969	131,330	100,739	91,141	65,241	10.5	71.6

1. 최대전력 발생시점 기준.

자료: 전력통계속보, 한국전력공사

1. Based on peak demand.

Source: The Monthly Report on Major Electric Power Statistics, KEPCO

## 6.2 발전 설비 현황

## Generating Facilities

		합계 Total	수력 Hydro	기력 Steam	복합 Combined	내연력 Internal	원자력 Nuclear	신재생 Renewables	기타 <sup>1</sup> Others <sup>1</sup>
		MW							
1990		21,021	2,340	9,912	840	313	7,616	-	-
1995		32,184	3,093	14,032	6,184	259	8,616	-	-
1996		35,715	3,094	14,022	8,719	264	9,616	-	-
1997		41,042	3,115	16,078	11,269	265	10,316	-	-
1998		43,406	3,131	17,209	10,785	265	12,016	-	-
1999		46,978	3,148	18,909	10,935	271	13,716	-	-
2000		48,451	3,149	20,059	11,257	271	13,716	-	-
2001		50,859	3,876	21,559	11,436	273	13,716	-	-
2002		53,801	3,876	21,749	12,186	275	15,716	-	-
2003		56,053	3,877	23,045	13,086	246	15,716	83	-
2004		59,961	3,879	24,693	14,313	252	16,716	108	-
2005		62,258	3,883	25,193	15,015	297	17,716	156	-
2006		65,514	5,485	25,773	16,004	297	17,716	240	-
2007		68,268	5,492	27,873	16,511	303	17,716	374	-
2008		72,491	5,505	31,191	17,044	307	17,716	728	-
2009		73,470	5,515	31,150	17,575	347	17,716	1,168	-
2010		76,078	5,525	31,150	19,100	351	17,716	2,237	-
2011		79,342	6,418	32,194	19,799	355	18,716	1,859	-
2012		81,806	6,446	31,994	19,799	367	20,716	2,483	-
2013		86,969	6,454	32,477	23,473	330	20,716	3,519	-
2014		93,216	6,468	33,402	27,826	330	20,716	4,474	-
2015		97,649	6,471	34,441	29,043	330	21,716	5,649	-
2016		105,866	6,485	35,756	32,703	329	23,116	7,477	-
2017		116,908	6,489	40,153	38,210	339	22,529	9,187	-
2018		119,092	6,490	40,376	38,413	339	21,850	11,623	-
2019		125,338	6,508	40,059	40,019	341	23,250	14,250	912
2020		129,191	6,506	39,909	40,186	176	23,250	18,739	426
2019	11	124,392	6,499	40,059	39,998	339	23,250	13,335	912
	12	125,338	6,508	40,059	40,019	341	23,250	14,250	912
2020	1	125,358	6,503	40,109	40,039	176	23,250	14,369	912
	2	125,887	6,503	40,109	40,039	176	23,250	14,899	912
	3	125,887	6,503	40,109	40,039	176	23,250	14,613	1,198
	4	126,262	6,503	40,109	40,039	176	23,250	14,998	1,187
	5	126,798	6,505	40,109	40,039	176	23,250	15,515	1,203
	6	127,338	6,505	40,109	40,039	176	23,250	16,056	1,203
	7	127,819	6,505	39,909	40,039	176	23,250	16,726	1,213
	8	128,078	6,506	39,909	40,039	176	23,250	16,985	1,213
	9	128,562	6,506	39,909	40,039	176	23,250	17,469	1,213
	10	128,197	6,505	39,909	40,039	176	23,250	17,895	423
	11	128,609	6,505	39,909	40,186	176	23,250	18,161	423
	12	129,191	6,506	39,909	40,186	176	23,250	18,739	426
2021 <sup>P</sup>	1	128,820	6,506	38,821	40,186	176	23,250	19,367	515
	2	129,114	6,506	38,821	40,186	176	23,250	19,661	515
	3	129,361	6,506	38,821	40,186	176	23,250	19,909	515
	4	128,441	6,506	37,701	40,186	176	23,250	20,108	515
	5	129,623	6,511	38,747	40,186	176	23,250	20,239	514
	6	131,069	6,519	39,765	40,186	176	23,250	20,659	514
	7	131,330	6,519	39,765	40,186	176	23,250	20,921	514
	8	131,650	6,518	39,765	40,186	176	23,250	21,240	515
	9	132,113	6,523	39,765	40,186	176	23,250	21,699	515
	10	133,455	6,523	40,805	40,186	176	23,250	22,000	515
	11	133,896	6,541	40,805	40,186	176	23,250	22,423	515
2020	1-11	128,609	6,505	39,909	40,186	176	23,250	18,161	423
2021 <sup>P</sup>	1-11	133,896	6,541	40,805	40,186	176	23,250	22,423	515

1. 기타: 증류탑폐열, 여열회수, 천연가스압터빈, 부생가스 등  
 자료: 전력통계속보, 한국전력공사

1. Includes waste heat in distillation tower, waste heat recovery, natural gas pressure turbine and by-product gas.  
 Source : The Monthly Report on Major Electric Power Statistics, KEPCO



## 6.3 발전 설비별 발전량

## Power Generation by Generating Facility

		합계 Total	수력 Hydro	기력 Steam	복합 Combined	내연력 Internal	원자력 Nuclear	신재생 Renewables	기타 <sup>1</sup> Others <sup>1</sup>
		GWh							
1990		107,670	6,361	47,419	-	1,048	52,887	-	-
1995		184,661	5,478	90,808	20,521	825	67,029	-	-
1996		205,494	5,201	98,654	26,943	772	73,924	-	-
1997		224,445	5,404	106,813	34,424	718	77,086	-	-
1998		215,300	6,099	92,432	26,505	575	89,689	-	-
1999		239,325	6,066	101,138	28,675	382	103,064	-	-
2000		266,400	5,610	124,669	26,863	294	108,964	-	-
2001		285,224	4,151	139,582	29,033	325	112,133	-	-
2002		306,474	5,311	143,370	38,337	353	119,103	-	-
2003		322,452	6,887	145,148	40,375	370	129,672	-	-
2004		342,148	5,861	149,713	55,452	407	130,715	-	-
2005		364,639	5,189	154,639	57,457	575	146,779	-	-
2006		381,181	5,219	159,398	67,138	677	148,749	-	-
2007		403,125	5,042	178,163	76,403	578	142,937	-	-
2008		422,355	5,563	190,812	74,519	503	150,958	-	-
2009		433,604	5,641	215,009	64,486	697	147,771	-	-
2010		474,660	6,472	224,356	94,506	731	148,596	-	-
2011		496,893	7,831	232,040	101,479	821	154,723	-	-
2012		509,574	7,652	231,343	110,882	752	150,327	8,618	-
2013		517,147	8,394	232,988	124,400	741	138,784	11,841	-
2014		521,971	7,820	227,872	114,146	656	156,407	15,072	-
2015		528,090	5,796	236,133	103,437	643	164,762	17,318	-
2016		540,441	6,634	232,178	119,494	573	161,995	19,567	-
2017		553,530	6,995	247,843	125,473	513	148,427	24,280	-
2018		570,647	7,270	248,583	152,690	528	133,505	28,070	-
2019		563,040	6,247	232,128	144,676	579	145,910	31,250	2,249
2020		552,162	7,148	200,895	145,306	405	160,184	31,057	7,168
2019	11	45,165	451	19,157	12,644	62	10,228	1,954	669
	12	50,283	500	19,764	16,276	35	11,059	2,093	556
2020	1	49,851	539	19,001	15,721	26	11,898	2,051	616
	2	46,449	528	16,555	13,698	23	12,690	2,338	616
	3	46,165	534	14,049	13,477	25	14,463	2,904	713
	4	42,255	511	15,001	9,287	30	13,689	3,072	665
	5	41,581	562	14,877	7,555	26	15,258	2,611	693
	6	43,830	513	16,521	9,439	36	14,069	2,406	846
	7	46,683	612	19,039	10,367	28	13,721	2,156	760
	8	51,051	1,074	20,851	13,146	39	12,526	2,697	716
	9	44,599	880	19,038	11,966	40	9,293	2,718	665
	10	43,164	474	14,512	11,483	36	13,468	2,897	294
	11	44,932	425	14,880	12,732	43	14,048	2,613	191
	12	51,600	496	16,631	16,382	52	15,060	2,728	252
2021 <sup>P</sup>	1	53,095	517	18,348	17,152	54	14,042	2,695	286
	2	44,942	478	14,755	13,687	40	12,732	2,991	260
	3	47,193	512	13,408	15,660	39	13,800	3,476	299
	4	43,637	556	13,126	13,366	49	12,551	3,753	236
	5	44,305	637	14,903	12,119	44	12,760	3,680	162
	6	45,788	687	17,142	13,188	30	11,314	3,190	238
	7	54,145	712	22,027	15,409	40	12,303	3,390	264
	8	51,796	606	21,124	13,710	40	12,780	3,289	247
	9	45,410	574	16,771	12,492	43	12,172	3,172	186
	10	45,778	507	15,507	12,818	38	13,462	3,247	200
	11	46,879	433	16,516	13,139	34	13,567	2,986	203
2020 1-11		500,562	6,652	184,324	128,871	353	145,124	28,462	6,776
2021 <sup>P</sup> 1-11		522,969	6,219	183,627	152,739	450	141,484	35,870	2,581

1. 기타: 증류탑폐열, 여열회수, 천연가스압터빈, 부생가스 등

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

자료: 전력통계속보, 한국전력공사

Source: Monthly Report on Major Electric Power Statistics, KEPCO

## 6.4 종별 고객호수 및 판매량

## Customers and Sales Volume by Type

		고객호수 Customers			판매량 Sales volume		
		합계 Total	저압(전등) Lighting	고압(동력) Power	합계 Total	저압 Lighting	고압(동력) Power
		천호(Thousand each)			GWh		
1990		9,315	8,515	800	94,383	17,430	76,953
1995		12,771	12,694	77	163,270	47,272	115,998
1996		13,329	13,243	86	182,470	52,100	130,371
1997		13,913	13,817	96	200,784	56,189	144,595
1998		14,102	13,999	103	193,470	54,990	138,481
1999		14,379	14,266	113	214,215	60,393	153,822
2000		14,976	14,850	126	239,535	69,626	169,910
2001		15,619	15,479	140	257,731	78,556	179,176
2002		16,490	16,333	157	278,451	85,452	193,000
2003		16,776	16,600	176	293,599	88,969	204,630
2004		17,062	16,868	194	312,096	92,539	219,557
2005		17,329	17,117	212	332,413	97,639	234,773
2006		17,625	17,395	230	348,719	100,683	248,036
2007		18,039	17,789	249	368,605	103,161	265,445
2008		18,419	18,152	268	385,070	105,899	279,171
2009		18,727	18,444	283	394,475	107,172	287,303
2010		19,229	18,929	301	434,160	114,075	320,085
2011		19,815	19,494	321	455,070	113,075	341,995
2012		20,476	20,131	345	466,593	113,902	352,691
2013		21,018	20,648	370	474,849	113,027	361,822
2014		21,532	21,131	402	477,592	108,403	369,188
2015		22,030	21,602	428	483,655	109,712	373,943
2016		22,553	22,097	456	497,039	112,114	384,925
2017		23,077	22,588	489	507,746	112,411	395,335
2018		23,502	22,972	529	526,149	115,976	410,174
2019		23,860	23,294	566	520,499	112,889	407,610
2020		24,198	23,594	604	509,270	111,663	397,607
2019	11	24,314	23,752	562	41,112	8,793	32,319
	12	23,860	23,294	566	44,732	9,961	34,772
2020	1	23,813	23,243	571	46,327	11,260	35,067
	2	23,832	23,258	574	44,499	11,036	33,463
	3	24,402	23,825	578	42,871	9,630	33,240
	4	23,979	23,397	582	40,475	8,944	31,531
	5	23,920	23,336	584	38,328	7,937	30,391
	6	23,957	23,370	586	39,753	8,084	31,669
	7	23,984	23,395	589	42,068	8,449	33,619
	8	24,024	23,432	591	44,599	9,598	35,002
	9	24,048	23,453	594	45,111	10,145	34,965
	10	24,065	23,468	597	39,065	7,761	31,305
	11	24,661	24,060	601	41,147	8,850	32,297
	12	24,198	23,594	604	45,027	9,969	35,059
2021 <sup>P</sup>	1	24,159	23,551	608	48,756	11,964	36,791
	2	24,167	23,557	610	45,188	11,596	33,592
	3	24,733	24,120	613	43,074	9,315	33,760
	4	24,299	23,681	618	41,900	8,818	33,082
	5	24,253	23,631	622	40,842	7,925	32,917
	6	24,291	23,666	624	42,032	8,178	33,854
	7	24,329	23,701	628	45,972	9,015	36,957
	8	24,345	23,715	630	48,930	11,390	37,540
	9	24,375	23,740	634	44,819	9,667	35,152
	10	24,395	23,758	638	41,838	8,304	33,535
	11	24,981	24,339	642	42,830	9,190	33,640
2020	1-11	24,661	24,060	601	464,243	101,694	362,548
2021 <sup>P</sup>	1-11	24,981	24,339	642	486,180	105,362	380,819

자료: 전력통계속보, 한국전력공사

Source: Monthly Report on Major Electric Power Statistics, KEPCO

## 6.5 부문별 전력 소비

## Electricity Consumption by Sector

		합계 Total	산업 Industrial	수송 Transport	가정 Residential	상업 Commercial	기타 Others
		GWh					
1990		94,313	59,177	1,012	17,735	10,413	5,975
1995		163,270	96,436	1,607	28,303	27,524	9,401
1996		182,470	106,737	1,682	30,642	32,891	10,517
1997		200,784	116,383	1,761	32,515	38,301	11,824
1998		193,470	108,828	1,580	32,913	38,270	11,880
1999		214,215	120,859	1,730	34,581	44,412	12,633
2000		239,535	132,260	2,037	37,102	54,651	13,486
2001		257,731	135,791	2,257	39,211	65,496	14,976
2002		278,451	144,454	2,271	42,278	72,361	17,088
2003		332,413	166,813	2,601	50,873	91,375	20,751
2004		312,096	158,337	2,475	48,615	83,389	19,279
2005		332,413	166,813	2,601	50,873	91,375	20,751
2006		348,719	174,661	2,534	52,522	97,277	21,725
2007		368,605	186,252	2,433	54,174	102,957	22,790
2008		385,070	194,630	2,277	56,228	108,229	23,706
2009		394,475	197,744	2,174	57,595	112,098	24,862
2010		434,163	223,171	2,191	61,194	120,619	26,988
2011		455,070	242,204	2,246	61,564	121,668	27,387
2012		466,593	249,136	2,250	63,536	123,083	28,588
2013		474,849	256,841	2,168	63,970	122,973	28,896
2014		477,592	264,618	1,999	62,675	119,951	28,348
2015		483,655	265,633	2,217	63,794	122,482	29,529
2016		497,039	269,975	2,689	66,173	127,435	30,767
2017		507,746	276,672	2,864	66,517	130,371	31,322
2018		526,149	283,705	3,080	70,687	136,306	32,371
2019		520,499	279,769	3,156	70,455	134,957	32,160
2020		509,270	268,692	3,154	74,074	132,052	31,298
2019	11	41,112	22,771	243	5,520	10,079	2,499
	12	44,732	23,633	265	5,824	12,032	2,978
2020	1	46,327	23,536	275	6,261	13,204	3,052
	2	44,499	22,438	263	6,273	12,708	2,817
	3	42,871	23,130	247	5,873	11,084	2,537
	4	40,475	21,882	250	5,928	10,101	2,314
	5	38,328	20,840	223	5,565	9,478	2,223
	6	39,753	21,155	250	5,758	10,190	2,399
	7	42,068	22,356	266	5,987	10,856	2,603
	8	44,599	22,533	293	7,171	11,816	2,785
	9	45,111	23,172	274	7,643	11,292	2,730
	10	39,065	21,521	245	5,599	9,354	2,346
	11	41,147	22,420	256	5,822	10,137	2,512
	12	45,027	23,710	311	6,194	11,833	2,979
2021 <sup>P</sup>	1	48,756	24,495	259	6,940	13,759	3,303
	2	45,188	22,350	264	6,686	12,940	2,948
	3	43,074	23,375	245	5,753	10,979	2,722
	4	41,900	22,913	241	5,910	10,280	2,556
	5	40,842	22,985	225	5,595	9,661	2,376
	6	42,032	23,010	266	5,839	10,336	2,581
	7	45,972	24,443	275	6,764	11,666	2,823
	8	48,930	23,878	308	9,022	12,890	2,832
	9	44,819	23,708	266	6,933	11,241	2,670
	10	41,838	23,007	246	5,908	10,208	2,469
	11	42,830	23,415	248	5,989	10,596	2,581
2020	1-11	464,243	244,982	2,843	67,880	120,219	28,319
2021 <sup>P</sup>	1-11	486,180	257,578	2,844	71,340	124,556	29,862

주: 2008년 5월부터 개성지구 판매량 포함.  
자료: 전력통계속보, 한국전력공사

Note: Includes power sales for Gaeseong District since May 2008.  
Source: Monthly Report on Major Electric Power Statistics, KEPCO

## 6.6 발전연료 소비

## Fuel Consumption of Power Generation

		석탄 Coal			석유 Petroleum			액화천연가스
		합계 Total	무연탄 Anthracite	유연탄 Bituminous	합계 Total	중유 Fuel oil	경유 Diesel oil	LNG
		1,000 톤(Ton)			1,000 kℓ			1,000 톤(Ton)
1990		8,530	2,013	6,517	4,481	4,226	255	1,718
1995		18,631	2,428	16,203	9,687	8,753	933	3,562
1996		21,462	2,514	18,948	9,808	8,196	1,612	4,622
1997		25,012	2,305	22,707	9,880	8,309	1,571	5,377
1998		28,207	2,527	25,679	3,404	3,097	306	4,189
1999		30,813	2,597	28,216	3,348	3,023	325	4,767
2000		36,217	2,848	33,369	5,086	4,895	191	4,491
2001		40,795	2,875	37,919	5,604	5,497	107	4,780
2002		43,062	2,751	40,311	4,805	4,528	277	5,969
2003		44,457	2,880	41,578	5,055	4,416	638	5,995
2004		47,927	2,412	45,515	4,340	4,200	139	8,221
2005		50,297	2,359	47,937	4,168	4,051	117	8,537
2006		52,604	2,345	50,258	3,789	3,633	156	9,466
2007		58,342	2,392	55,950	4,019	3,899	120	10,829
2008		65,772	2,534	63,238	2,142	2,035	107	10,515
2009		73,783	2,690	71,092	3,056	2,944	112	8,597
2010		78,807	2,404	76,403	2,824	2,711	114	12,914
2011		81,513	1,659	79,854	2,174	2,050	124	13,609
2012		80,601	1,797	78,805	3,413	3,272	141	15,321
2013		80,488	1,729	78,760	3,551	3,402	149	17,005
2014		79,732	2,044	77,688	1,692	1,581	111	12,497
2015		81,558	2,125	79,433	1,962	1,851	111	8,764
2016		80,573	2,528	78,045	2,939	2,784	155	8,284
2017		90,296	1,079	89,217	1,101	928	174	7,743
2018		90,541	992	89,549	1,228	1,013	215	9,051
2019		84,486	1,165	83,321	684	362	323	8,017
2020		70,065	971	69,094	452	283	169	10,144
2019	11	6,802	82	6,720	30	12	18	816
	12	6,793	100	6,693	91	78	13	1,095
2020	1	6,564	109	6,455	52	40	12	1,080
	2	5,759	97	5,662	18	6	12	932
	3	4,933	51	4,881	20	4	17	736
	4	5,200	58	5,142	17	5	12	639
	5	5,174	95	5,079	19	1	18	553
	6	5,979	118	5,860	22	3	19	692
	7	6,877	123	6,753	20	1	19	727
	8	7,360	71	7,289	44	31	12	1,005
	9	6,600	9	6,591	78	67	11	951
	10	4,968	7	4,961	25	12	12	795
	11	5,039	122	4,918	78	62	15	811
	12	5,613	110	5,503	60	50	9	1,224
2021 <sup>P</sup>	1	6,327	108	6,220	58	44	15	1,158
	2	4,962	62	4,900	27	14	13	912
	3	4,577	66	4,511	22	3	19	938
	4	4,297	56	4,241	30	12	19	880
	5	4,862	112	4,750	32	16	16	812
	6	5,657	70	5,587	40	17	23	927
	7	7,308	121	7,187	79	59	19	1,128
	8	7,168	121	7,047	25	12	13	940
	9	5,641	30	5,611	61	47	14	882
	10	5,158	44	5,115	57	38	19	881
	11	5,578	109	5,468	45	23	22	861
2020	1-11	64,452	861	63,591	392	233	159	8,920
2021 <sup>P</sup>	1-11	61,535	900	60,635	477	285	192	10,318

주: 1. 시운전 연료사용량 포함

2. 한전 및 자회사 연료사용량임.

자료: 전력통계속보, 한국전력공사

Note 1. Includes fuel used for test runs.

2. Includes only the fuel used by KEPCO and its subsidiary companies.

Source: Monthly Report on Major Electric Power Statistics, KEPCO

## 6.7 지역난방 수급

## District Heating Supply and Demand

		생산 Production			판매 Sales			
		합계 Total	열병합 CHP	보일러 및 기타 Boiler & Others	합계 Total	가정 Residential	상업 Commercial	공공 Public
		1,000 toe						
1990		79	79	0	75	68	6	1
1995		689	514	175	641	610	22	10
1996		847	607	240	811	762	33	15
1997		941	691	250	909	850	42	17
1998		933	675	258	882	825	41	16
1999		1,082	772	310	1,033	959	56	18
2000		1,221	871	350	1,167	1,084	63	20
2001		1,287	842	446	1,218	1,111	80	27
2002		1,405	922	483	1,316	1,203	84	30
2003		1,628	1,096	532	1,523	1,252	105	166
2004		1,532	1,110	423	1,449	1,299	116	34
2005		1,889	1,209	681	1,652	1,466	143	42
2006		1,804	1,059	745	1,549	1,367	140	42
2007		1,848	1,104	744	1,576	1,391	142	43
2008		2,262	1,019	1,243	1,668	1,472	150	45
2009		2,298	1,014	1,284	1,709	1,519	137	52
2010		2,038	975	1,064	1,939	1,744	154	41
2011		2,055	1,279	776	1,976	1,774	158	44
2012		2,175	1,364	811	2,102	1,878	177	47
2013		2,212	1,458	755	2,070	1,841	182	46
2014		2,074	1,255	819	1,528	1,376	126	27
2015		2,028	1,339	689	1,967	1,758	173	36
2016		2,197	1,367	830	2,183	1,895	238	50
2017		2,446	1,494	953	2,441	2,105	280	55
2018		2,647	1,709	938	2,682	2,289	332	61
2019		2,647	1,711	936	2,647	2,224	348	74
2020		2,773	2,208	564	2,770	2,352	352	66
2019	11	265	179	86	270	237	26	7
	12	430	306	123	445	386	48	12
2020	1	459	389	70	463	403	49	11
	2	402	339	63	408	356	43	9
	3	313	264	49	313	277	29	7
	4	212	178	34	213	193	16	4
	5	120	89	31	110	96	13	2
	6	84	51	33	82	54	24	3
	7	84	49	35	83	51	29	3
	8	92	57	35	91	50	37	4
	9	82	49	33	79	56	20	3
	10	156	116	40	145	131	12	3
	11	276	227	49	277	246	25	6
	12	493	402	92	505	438	55	12
2021 <sup>p</sup>	1	569	451	118	587	506	68	14
	2	408	335	73	418	362	46	9
	3	294	243	51	298	262	29	7
	4	169	132	37	173	154	16	3
	5	132	101	31	128	109	17	2
	6	98	62	36	97	63	31	3
	7	104	69	35	103	48	50	5
	8	88	53	35	92	41	46	4
	9	84	49	35	85	52	30	3
	10	149	111	37	144	121	20	3
	11	290	241	50	283	248	29	6
2020	1-11	2,280	1,807	473	2,265	1,913	297	55
2021 <sup>p</sup>	1-11	2,383	1,846	538	2,408	1,967	381	60

주 1. 1998년 이전 자료는 한국지역난방공사, GS Power(주), 서울에너지공사 등 3개 열에너지 회사의 자료임.

2. 1998년 이후 자료는 집단에너지사업자조사의 지역냉·난방 부문 결과에 3개 열에너지 회사의 월별, 부문별 비중을 적용하였음.

자료: 한국에너지공단, 한국지역난방공사, GS Power(주), SH공사

Note 1. The data before 1998 was compiled from three district heating companies: Korea District Heating Corporation, GS Power, and Seoul Energy.

2. The data since 1998 was drawn from the district cooling and heating section of Survey on Group Energy Businesses by KEA.

Source: Korea Energy Agency, Korea District Heating Corp., GS Power, Seoul energy



## 7. 에너지 가격

### Energy Prices

#### 7.1.1 원유 수입 가격

Crude Oil Import Prices

#### 7.1.2 주요 석유제품 수입 가격

Import Prices by Petroleum Product

#### 7.1.3 주요 석유제품 수출 가격

Export Prices by Petroleum Product

#### 7.1.4 정유사 판매 가격

Refiner Prices

#### 7.1.5 소비자 판매 가격

Consumer Prices

#### 7.2 석탄 및 전력 가격

Coal And Electricity Prices

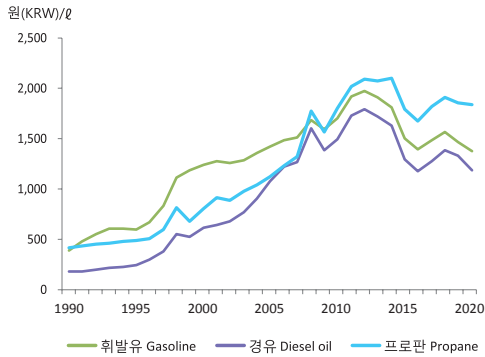
#### 7.3 LNG 수입가격 및 도시가스 가격

LNG Import Prices and City Gas Prices

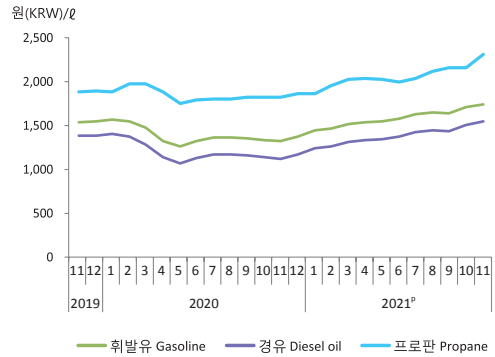


## ● 석유 소비자 가격 Consumer Prices by Petroleum Product

〈1990~2020〉

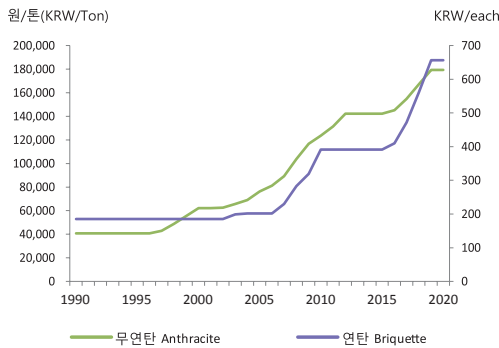


〈월별 Monthly〉



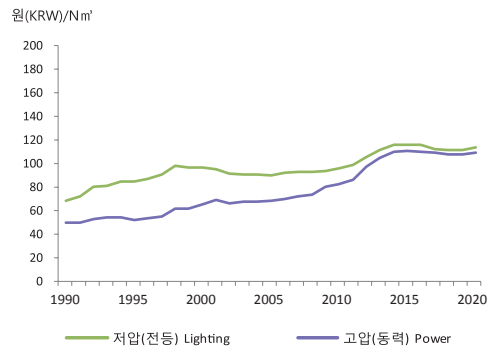
## ● 석탄 가격 Coal Prices

〈1990~2020〉



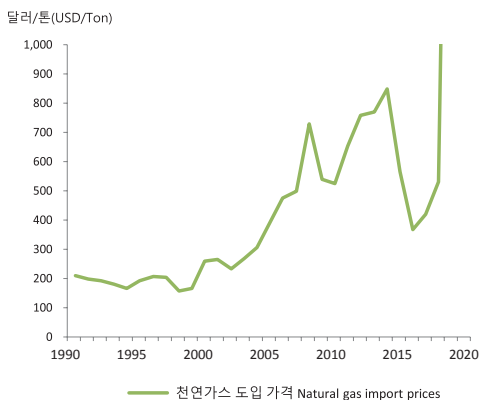
## ● 전력 가격 Electricity Prices

〈1990~2020〉



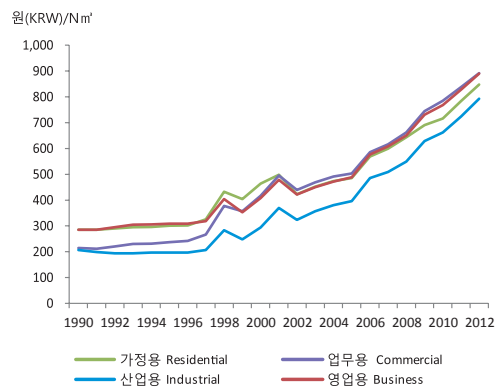
## ● 천연가스 도입 단가 Natural Gas Import Prices

〈1990~2020〉



## ● 도시가스 가격 City Gas Prices

〈1990~2012〉





## 7.1.1 원유 수입 가격

## Crude Oil Import Prices

		평균 Average	중동 Middle East	아시아 Asia	아프리카 Africa	아메리카 America	유럽 Europe
		달러/배럴(USD/bbl)					
1990		21.0	20.8	18.3	18.3	17.7	-
1995		17.3	17.2	18.0	18.0	16.6	-
1996		20.1	19.9	20.7	20.7	19.5	-
1997		20.3	20.2	20.9	20.9	19.3	18.8
1998		13.7	13.6	14.8	14.8	12.9	13.7
1999		16.9	17.1	16.1	16.1	15.0	16.2
2000		28.2	28.0	29.2	29.2	25.5	28.6
2001		24.9	24.8	25.1	25.1	22.6	25.6
2002		24.2	24.2	24.2	24.2	22.2	25.7
2003		28.7	28.4	30.4	30.4	27.4	33.7
2004		36.2	35.5	37.4	37.4	32.9	-
2005		50.5	50.1	48.1	48.1	42.6	58.2
2006		62.8	62.5	65.0	65.0	54.9	-
2007		69.4	68.9	66.9	66.9	52.6	-
2008		98.3	98.2	98.2	98.2	-	-
2009		60.8	61.0	61.8	61.8	51.0	-
2010		78.7	78.6	73.9	73.9	76.2	-
2011		108.0	107.4	112.4	112.4	98.7	115.3
2012		112.8	112.3	119.7	119.7	98.9	117.1
2013		108.3	107.9	108.2	108.2	110.8	112.4
2014		101.2	101.0	102.0	101.8	94.3	107.4
2015		53.3	53.1	54.5	53.7	52.4	56.4
2016		41.1	40.8	44.5	44.5	37.3	41.4
2017		53.4	53.1	55.7	57.1	48.5	56.7
2018		71.5	71.0	73.8	74.1	70.3	75.0
2019		65.5	65.7	65.8	66.9	64.2	67.9
2020		45.3	44.1	46.7	52.2	48.8	42.4
2019	11	64.3	64.6	65.1	64.4	62.7	-
	12	66.2	66.5	68.9	67.7	63.8	67.9
2020	1	69.1	68.7	72.3	71.4	68.7	-
	2	64.2	62.7	66.3	74.2	67.5	68.5
	3	52.8	49.1	49.0	62.3	62.5	-
	4	34.1	29.6	31.1	38.5	47.7	-
	5	26.2	24.6	29.8	30.0	31.9	24.8
	6	29.8	30.4	34.2	31.7	25.3	23.8
	7	39.2	39.6	41.0	44.5	35.2	-
	8	44.7	44.8	45.5	45.9	41.0	46.7
	9	44.5	44.1	44.6	48.2	44.5	48.3
	10	43.4	42.7	42.6	44.8	45.3	44.3
	11	42.7	42.9	41.2	42.2	42.3	43.8
	12	46.7	47.3	46.4	47.7	43.3	50.6
2021 <sup>p</sup>	1	52.7	53.6	54.0	54.0	48.6	52.4
	2	58.3	59.5	59.6	59.2	54.3	58.4
	3	63.8	64.4	65.6	66.5	60.8	68.3
	4	64.8	64.7	65.6	67.9	63.8	66.5
	5	67.2	67.2	68.0	68.7	66.5	66.4
	6	69.9	71.1	69.6	71.8	67.3	69.0
	7	73.4	73.8	75.7	75.1	71.3	74.9
	8	73.8	73.0	74.6	77.4	74.5	76.1
	9	73.7	73.8	74.1	75.0	73.2	73.1
	10	78.1	79.4	79.4	77.0	73.9	76.8
	11	82.1	82.5	84.5	83.6	79.3	85.3
2020	1-11	45.2	43.8	46.7	52.6	49.2	42.0
2021 <sup>p</sup>	1-11	69.1	69.5	70.2	72.4	67.3	67.2

주 1. 원유 수입량 및 수입액은 한국석유공사 자료이므로,  
한국무역협회의 통계와 다를 수 있음.

2. 통관기준이며, 수입액은 CIF 가격임.

자료: 한국석유공사-PEDSIS

Note: 1. Import volume and price of crude oil are based on Korea National Oil Corporation data and may differ from Korea International Trade Association statistics.

2. The import prices are based on the customs clearance price while the import values are CIF prices.

Source: Korea National Oil Corporation-PEDSIS

## 7.1.2 주요 석유제품 수입 가격

## Import Prices by Petroleum Product

		휘발유	경유	등유	중질중유	액화석유가스	나프타
		Gasoline	Diesel oil	Kerosene	Bunker-C	LPG	Naphtha
		달러/배럴(USD/bbl)					
1990		-	-	-	-	-	-
1995		-	23.2	25.0	16.6	16.9	18.9
1996		-	28.6	31.8	19.0	18.4	21.8
1997		-	26.1	29.7	19.6	21.9	23.8
1998		19.5	16.6	21.7	14.3	14.6	17.0
1999		23.6	23.8	25.2	16.1	18.0	19.6
2000		35.5	36.4	37.2	27.2	26.3	30.6
2001		29.9	30.7	31.4	24.8	25.4	27.2
2002		30.4	29.3	29.8	24.2	22.1	25.3
2003		34.0	34.0	37.5	30.1	26.3	31.3
2004		46.5	44.4	45.7	33.2	31.3	42.3
2005		51.4	64.5	64.6	44.3	39.0	52.9
2006		-	84.2	76.0	53.9	47.1	64.0
2007		-	78.5	81.9	54.6	53.0	74.0
2008		-	125.8	106.3	89.6	75.0	100.1
2009		-	61.8	71.3	53.0	46.0	58.8
2010		-	93.5	102.5	74.1	61.9	80.4
2011		-	130.4	129.6	102.7	76.6	104.2
2012		119.7	128.2	128.0	109.2	79.6	105.7
2013		124.7	127.3	126.7	101.3	77.3	103.0
2014		-	122.6	125.7	95.5	76.4	101.8
2015		85.9	75.4	124.9	48.0	41.9	55.8
2016		64.2	55.4	47.7	38.0	30.9	44.1
2017		66.4	68.8	62.8	54.6	41.1	54.2
2018		92.4	86.6	62.5	70.7	48.0	70.6
2019		100.0	80.0	82.9	66.7	37.5	58.5
2020		505.7	39.0	37.8	50.9	32.6	45.3
2019	11	-	78.7	-	60.7	35.8	59.5
	12	774.3	78.6	-	62.8	39.5	62.0
2020	1	-	-	-	75.4	43.2	65.9
	2	-	-	-	68.2	39.3	63.8
	3	-	-	-	55.5	34.6	56.1
	4	-	-	-	34.2	26.1	38.2
	5	-	39.0	30.4	22.6	26.0	22.9
	6	-	39.0	43.9	32.2	27.0	30.6
	7	-	-	-	45.4	28.0	40.1
	8	-	-	-	46.2	28.4	44.0
	9	-	-	-	43.9	29.6	44.8
	10	-	15,166.7	-	43.4	31.4	45.0
	11	-	-	-	44.4	33.6	43.6
	12	505.7	-	-	52.6	38.7	43.8
2021 <sup>P</sup>	1	-	-	-	57.3	47.0	52.1
	2	-	-	71.1	62.5	48.5	56.2
	3	-	-	-	64.7	48.8	63.1
	4	-	-	-	63.5	48.7	66.5
	5	-	73.8	-	64.5	46.3	65.0
	6	-	-	-	68.2	46.4	67.5
	7	-	60,100.0	71.1	70.0	52.5	72.2
	8	83.8	78.1	-	70.1	55.9	76.4
	9	-	-	-	77.4	58.3	74.6
	10	-	-	-	83.2	63.6	77.7
	11	515.5	-	-	78.8	68.2	86.7
2020	1-11	-	39.0	37.8	50.8	32.0	45.4
2021 <sup>P</sup>	1-11	84.0	103.5	71.1	69.1	53.1	69.5

주: 통관기준이며, 수입액은 CIF 가격임.  
자료: 한국석유공사-PEDSIS

Note: The import prices are based on the customs clearance price while the import values are CIF prices.

Source: Korea National Oil Corporation-PEDSIS

## 7.1.3 주요 석유제품 수출 가격

## Export Prices by Petroleum Product

		휘발유 Gasoline	경유 Diesel oil	등유 Kerosene	중질중유 Bunker-C	액화석유가스 LPG	나프타 Naphtha
		달러/배럴(USD/bbl)					
1990		-	-	-	-	-	-
1995		27.7	21.8	23.7	14.5	18.4	18.4
1996		23.7	27.7	30.6	16.6	20.3	21.2
1997		25.0	24.5	25.3	15.8	21.0	23.8
1998		18.1	15.5	17.4	11.0	15.2	16.0
1999		22.9	19.2	23.7	15.6	17.8	20.2
2000		32.4	33.1	34.7	24.2	26.5	29.9
2001		28.5	27.5	30.8	20.9	25.1	26.1
2002		27.8	27.5	29.9	23.3	22.4	25.9
2003		35.3	32.4	36.3	27.2	28.1	31.5
2004		47.5	47.2	46.6	29.8	29.3	43.3
2005		62.1	64.8	60.9	42.1	38.8	53.8
2006		74.2	77.8	81.4	50.1	48.3	63.5
2007		86.4	84.9	97.7	61.8	49.4	77.4
2008		93.7	121.7	109.9	79.2	70.4	90.8
2009		70.5	69.3	72.0	59.3	48.7	61.6
2010		88.4	89.9	92.9	73.9	59.9	80.3
2011		118.2	125.5	130.4	102.4	72.5	103.7
2012		121.0	126.7	130.0	105.9	83.1	102.6
2013		117.5	122.9	132.7	102.6	77.7	102.7
2014		108.8	112.8	107.6	96.9	78.1	95.8
2015		66.8	63.4	67.3	50.0	44.7	54.2
2016		53.9	50.8	53.9	42.8	34.1	43.8
2017		67.3	65.4	70.9	56.2	43.7	54.2
2018		79.4	84.6	84.1	72.3	50.5	68.5
2019		70.7	77.6	76.9	64.6	40.6	57.7
2020		48.1	51.0	51.0	40.4	35.7	41.9
2019	11	73.8	77.0	76.2	54.2	40.0	61.8
	12	73.5	78.0	79.6	59.6	46.2	64.5
2020	1	71.2	76.5	78.0	72.0	48.0	62.9
	2	65.3	67.9	67.0	65.5	38.7	55.4
	3	39.0	47.6	41.8	39.3	30.9	36.7
	4	21.4	35.1	23.8	21.8	35.7	23.7
	5	30.6	37.8	30.6	31.0	31.9	27.3
	6	41.6	50.8	38.3	37.4	30.2	37.4
	7	45.5	52.5	40.2	40.8	31.9	42.3
	8	47.9	51.0	45.9	46.0	32.5	44.6
	9	47.1	45.8	46.5	38.7	34.7	44.2
	10	46.3	44.0	43.7	34.6	35.6	44.1
	11	47.3	47.4	51.2	38.6	38.8	42.7
	12	53.1	56.4	57.8	49.8	40.2	46.2
2021 <sup>P</sup>	1	59.5	61.8	62.4	61.2	40.2	49.9
	2	66.7	69.8	68.8	72.1	42.6	59.5
	3	72.3	71.5	69.4	74.3	50.6	62.6
	4	73.3	70.8	68.6	69.7	45.0	63.7
	5	75.8	73.5	73.5	74.6	48.1	66.9
	6	80.4	77.9	77.5	78.7	50.3	70.2
	7	84.3	78.5	78.9	77.0	56.7	74.2
	8	81.1	75.7	76.2	72.1	57.5	75.1
	9	83.8	80.0	80.8	78.9	60.2	76.4
	10	96.7	92.2	90.3	85.2	69.6	81.4
	11	94.0	90.7	92.4	72.6	73.4	86.7
2020	1-11	47.5	50.6	49.8	39.9	35.4	41.5
2021 <sup>P</sup>	1-11	80.2	77.2	74.4	76.9	54.1	70.2

주: 통관기준이며, 수출액은 FOB 가격임.  
자료: 한국석유공사-PEDSIS

Note: The export prices are based on the customs clearance price while the export values are FOB price.

Source: Korea National Oil Corporation-PEDSIS

## 7.1.4 정유사 판매 가격

## Refiner Prices

		휘발유	경유		등유 <sup>1</sup>	중질중유	액화석유가스	
			Diesel oil				LPG	
			선박용	자동차용			부탄	프로판
		Gasoline	MGO	Automobile	Kerosene <sup>1</sup>	Bunker-C	Butane	Propane
원(KRW)/ℓ							원(KRW)/kg	
1990		330.8	154.5	157.7	164.7	86.2	231.2	231.7
1995		537.1	200.0	207.9	227.2	119.5	239.3	239.9
1996		612.3	258.1	264.2	276.2	145.2	255.2	255.9
1997		769.2	319.9	329.9	325.5	188.4	-	-
1998		1,042.9	484.5	484.5	456.1	253.7	-	-
1999		1,112.4	457.6	470.1	414.6	225.7	-	-
2000		1,175.9	553.7	567.4	485.9	288.7	-	-
2001		1,214.5	592.0	607.6	505.3	304.0	673.2	612.6
2002		1,203.9	640.8	651.1	492.2	320.5	692.3	511.1
2003		1,231.6	748.3	748.9	571.8	339.5	870.3	568.0
2004		1,293.0	876.3	878.7	692.9	365.4	1,042.8	617.6
2005		1,359.4	1,045.7	1,045.6	806.8	420.2	1,121.4	671.8
2006		1,406.9	1,175.7	1,185.9	857.6	489.4	1,156.0	745.0
2007		1,433.6	1,156.3	1,199.8	837.9	491.3	-	-
2008		1,554.4	1,426.7	1,468.6	929.5	698.0	1,584.9	1,214.4
2009		1,491.8	1,216.6	1,267.4	798.0	638.7	1,229.9	850.1
2010		1,605.9	1,333.1	1,393.1	908.1	710.5	1,451.1	1,056.3
2011		1,809.8	1,572.9	1,630.6	1,144.2	917.8	1,656.6	1,230.1
2012		1,860.9	1,629.3	1,682.2	1,185.5	1,053.5	1,690.5	1,261.7
2013		1,796.6	1,570.7	1,609.2	1,126.9	918.7	1,636.3	1,216.7
2014		1,684.6	1,473.4	1,485.0	963.6	853.4	1,597.7	1,154.8
2015		1,389.4	1,139.8	1,164.5	630.9	541.9	1,169.4	727.1
2016		1,296.2	1,027.8	1,068.7	542.4	442.8	1,030.6	584.4
2017		1,380.0	1,136.4	1,161.4	650.0	564.7	1,179.5	733.7
2018		1,455.6	1,260.7	1,277.1	765.4	658.9	1,237.3	812.5
2019		1,379.4	1,199.9	1,227.9	752.2	678.2	1,122.4	720.7
2020		1,257.6	1,040.2	1,057.2	532.2	518.3	1,096.5	666.9
2019	11	1,459.4	1,257.3	1,268.6	755.4	650.5	1,138.4	704.1
	12	1,470.0	1,238.2	1,284.9	767.5	641.9	1,153.9	720.8
2020	1	1,452.0	1,273.9	1,274.2	754.5	710.9	1,155.1	719.8
	2	1,401.0	1,257.6	1,201.4	672.3	739.3	1,256.6	805.5
	3	1,231.1	1,176.9	1,046.0	482.2	603.1	1,249.4	799.2
	4	1,108.1	1,025.9	944.1	350.7	475.9	1,146.6	700.6
	5	1,151.4	906.4	965.0	402.6	387.6	977.8	547.1
	6	1,252.3	918.1	1,049.7	482.3	413.8	1,032.4	600.4
	7	1,258.4	1,013.1	1,060.5	495.3	475.3	1,047.7	613.0
	8	1,262.2	1,053.4	1,055.0	492.7	504.7	1,051.7	604.8
	9	1,241.7	1,037.1	1,022.5	470.6	503.5	1,067.4	629.5
	10	1,229.5	1,000.2	1,007.7	478.4	478.4	1,068.6	625.7
	11	1,237.3	985.5	1,025.9	507.5	466.0	1,068.4	631.2
	12	1,299.8	991.0	1,092.7	585.5	479.0	1,110.7	666.8
2021 <sup>P</sup>	1	1,338.7	1,050.6	1,130.5	623.8	515.5	1,112.9	681.7
	2	1,379.5	1,092.0	1,177.3	654.0	579.4	1,200.2	766.2
	3	1,441.1	1,155.5	1,225.2	667.2	647.8	1,285.2	851.4
	4	1,437.9	1,188.8	1,214.3	653.9	687.1	1,280.3	847.9
	5	1,473.5	1,165.8	1,251.6	689.4	646.8	1,269.0	839.7
	6	1,512.5	1,205.1	1,296.1	716.4	655.2	1,240.9	808.8
	7	1,555.2	1,244.0	1,327.1	732.3	688.4	1,280.7	820.9
	8	1,537.5	1,260.8	1,310.2	720.7	706.1	1,368.2	921.1
	9	1,561.6	1,246.3	1,346.7	773.4	733.2	1,424.3	980.5
	10	1,670.4	1,285.9	1,460.4	900.2	769.3	1,424.6	987.6
	11	1,588.8	1,333.1	1,390.3	887.5	823.3	1,683.4	1,154.1
2020	1-11	1,256.8	1,058.9	1,059.3	508.1	523.5	1,102.0	661.5
2021 <sup>P</sup>	1-11	1,499.7	1,202.5	1,284.5	729.0	677.5	1,324.5	878.2

1. 실내등유 기준

주: 세후 가격

자료: 한국석유공사-PETRONET

1. Only considers kerosene prices.

Note: All the prices include taxes.

Source: Korea National Oil Corporation-PETRONET

## 7.1.5 소비자 판매 가격

## Consumer Prices

		휘발유 <sup>1</sup>	경유 <sup>1</sup>	등유 Kerosene		중질중유 <sup>2</sup>	프로판 <sup>3</sup>	부탄 Butane	
		Gasoline <sup>1</sup>	Diesel oil <sup>1</sup>	실내등유 <sup>1</sup> Kerosene <sup>1</sup>	보일러등유 <sup>1</sup> Heating oil <sup>1</sup>	Bunker-C <sup>2</sup>	Propane <sup>2</sup>	일반용 <sup>3</sup> Residential and Commercial <sup>3</sup>	수송용 <sup>1</sup> Transport <sup>1</sup>
		원(KRW)/ℓ				원(KRW)/kg		원(KRW)/ℓ	
1990		383.5	182.0	191.3	-	95.3	415.0	-	506.8
1995		598.0	239.4	261.6	-	129.5	489.7	-	-
1996		675.8	300.8	314.7	-	156.7	510.0	-	-
1997		838.7	376.2	373.5	-	195.9	599.0	-	-
1998		1,122.6	553.5	524.2	415.6	292.1	815.0	-	-
1999		1,191.9	521.8	491.2	445.2	242.3	678.3	-	-
2000		1,248.4	612.8	559.6	544.9	304.1	809.3	-	-
2001		1,280.0	644.6	580.2	574.0	320.5	919.0	1,138.9	440.0
2002		1,269.1	677.6	554.4	553.5	322.8	887.3	1,108.1	457.7
2003		1,294.8	772.0	638.8	640.0	339.2	980.0	1,193.3	567.4
2004		1,365.3	907.9	752.2	757.5	367.1	1,050.2	1,234.5	673.9
2005		1,432.3	1,079.7	871.0	873.7	420.1	1,131.5	1,305.1	723.4
2006		1,492.4	1,228.2	931.9	936.2	483.0	1,242.7	1,392.3	747.9
2007		1,525.9	1,272.7	932.2	936.5	526.6	1,330.6	1,453.7	773.8
2008		1,692.1	1,614.4	1,238.7	1,238.6	757.1	1,789.9	1,898.2	1,009.0
2009		1,600.7	1,397.5	976.2	974.8	718.7	1,577.2	1,885.0	828.7
2010		1,710.4	1,502.8	1,076.0	1,075.2	772.3	1,812.7	2,072.0	952.2
2011		1,929.3	1,745.7	1,321.2	1,279.2	987.2	2,034.0	2,277.3	1,076.1
2012		1,985.8	1,806.3	1,394.1	-	1,088.7	2,105.9	2,352.0	1,101.9
2013		1,924.5	1,729.6	1,366.7	-	935.1	2,085.3	2,337.6	1,070.8
2014		1,827.3	1,636.7	1,296.7	-	885.5	2,112.9	2,369.3	1,051.2
2015		1,510.4	1,299.6	947.4	-	604.2	1,801.3	2,033.9	806.4
2016		1,402.6	1,182.5	784.5	-	523.8	1,689.1	1,913.5	734.0
2017		1,491.3	1,282.5	853.1	-	619.8	1,833.8	2,074.7	826.5
2018		1,581.4	1,391.9	942.3	-	724.3	1,920.4	2,177.4	874.5
2019		1,472.4	1,340.5	961.7	-	733.6	1,869.9	2,140.4	806.3
2020		1,381.4	1,189.7	853.8	-	570.1	1,851.2	2,148.0	790.8
2019	11	1,535.7	1,380.5	971.8	-	703.5	1,879.3	2,159.1	810.5
	12	1,548.5	1,385.4	970.8	-	658.0	1,889.7	2,177.0	820.6
2020	1	1,568.4	1,398.4	975.3	-	706.5	1,887.6	2,181.7	820.8
	2	1,545.3	1,369.9	967.8	-	797.7	1,971.5	2,274.4	874.5
	3	1,469.1	1,280.8	933.1	-	703.1	1,973.2	2,272.5	874.3
	4	1,323.7	1,132.4	858.0	-	536.7	1,885.5	2,168.8	818.4
	5	1,255.1	1,065.8	796.5	-	451.3	1,753.8	2,021.6	725.0
	6	1,322.9	1,127.9	800.9	-	462.8	1,794.5	2,058.5	749.5
	7	1,360.3	1,162.9	812.3	-	524.7	1,806.0	2,065.7	759.9
	8	1,361.1	1,163.6	816.8	-	553.7	1,806.0	2,074.1	760.4
	9	1,352.5	1,154.5	816.6	-	575.2	1,821.0	2,087.3	771.5
	10	1,333.3	1,134.0	811.8	-	533.0	1,822.1	2,094.9	771.4
	11	1,319.6	1,119.6	802.0	-	520.0	1,822.2	2,116.4	770.6
	12	1,367.8	1,168.3	818.2	-	518.9	1,865.2	2,179.7	796.9
2021 <sup>p</sup>	1	1,441.8	1,242.4	863.8	-	545.5	1,868.1	2,188.6	797.2
	2	1,463.2	1,263.4	878.3	-	619.6	1,952.5	2,283.7	847.8
	3	1,513.3	1,312.6	897.3	-	686.0	2,029.2	2,356.4	898.6
	4	1,534.5	1,332.7	905.6	-	730.1	2,032.9	2,345.6	899.2
	5	1,541.5	1,338.8	906.4	-	706.4	2,031.6	2,342.8	899.4
	6	1,577.3	1,374.4	913.9	-	706.4	1,999.6	2,295.6	878.5
	7	1,629.3	1,425.5	932.2	-	728.4	2,036.4	2,328.5	906.3
	8	1,645.8	1,440.5	940.9	-	750.1	2,114.5	2,405.5	952.3
	9	1,642.7	1,437.2	943.0	-	768.2	2,160.1	2,464.7	980.5
	10	1,712.3	1,509.3	993.0	-	813.4	2,163.4	2,446.7	981.2
	11	1,737.4	1,549.7	1,087.9	-	867.4	2,312.3	2,667.6	1,053.8
2020	1-11	1,382.8	1,191.8	853.7	-	578.6	1,849.4	2,128.7	790.6
2021 <sup>p</sup>	1-11	1,585.4	1,384.2	932.9	-	720.1	2,063.7	2,375.1	917.7

1. 주유소/충전소 판매 가격

2. 대리점 판매 가격

3. 판매소 판매 가격

주: 부가세 포함 가격

자료: 한국석유공사-PETRONET

1. Sales price at gas and charging stations.

2. Sales price at outlets.

3. Sales price at retail shops.

Note: Includes VAT.

Source: Korea National Oil Corporation-PETRONET

## 7.2 석탄 및 전력 가격

## Coal And Electricity Prices

		석탄 Coal		전력 <sup>3</sup> Electricity <sup>3</sup>		
		무연탄 <sup>1</sup> Anthracite <sup>1</sup>	연탄 <sup>2</sup> Briquette <sup>2</sup>	저압(전등) Lighting	고압(동력) Power	평균 Average
		원(KRW)/Ton	원(KRW)/each	원(KRW)/kWh		
1990		40,740	185	68.1	49.5	52.9
1995		40,740	185	84.8	51.7	61.3
1996		40,740	185	87.0	53.4	63.0
1997		42,849	185	90.2	55.3	65.3
1998		48,827	185	98.2	61.7	72.1
1999		55,455	185	96.7	61.7	71.6
2000		62,210	185	96.5	65.7	74.7
2001		62,210	185	94.8	69.3	77.1
2002		62,474	185	91.6	66.0	73.9
2003		65,598	199	90.5	67.8	74.7
2004		69,025	202	90.3	68.0	74.6
2005		76,197	202	89.6	68.2	74.5
2006		81,110	202	92.0	70.1	76.4
2007		89,220	230	92.5	72.2	77.9
2008		103,841	283	93.0	73.4	78.8
2009		116,809	319	93.5	79.9	83.6
2010		123,680	391	96.1	82.6	86.1
2011		131,456	391	98.5	86.3	89.3
2012		142,230	391	105.1	97.2	99.1
2013		142,230	391	111.1	104.8	106.3
2014		142,230	391	116.0	109.9	111.3
2015		142,230	391	116.1	110.2	111.6
2016		145,106	410	115.7	109.9	111.2
2017		154,720	472	111.8	108.9	109.5
2018		167,164	561	111.5	108.0	108.7
2019		179,380	657	111.7	107.8	108.7
2020		179,380	657	113.3	108.8	109.8
2019	11	179,380	657	106.1	114.5	112.7
	12	179,380	657	114.0	114.8	114.6
2020 <sup>P</sup>	1	179,380	657	113.2	113.8	113.6
	2	179,380	657	113.9	116.2	115.6
	3	179,380	657	109.6	98.9	101.3
	4	179,380	657	104.8	96.7	98.5
	5	179,380	657	107.4	96.5	98.7
	6	179,380	657	115.3	117.7	117.3
	7	179,380	657	125.3	120.0	121.0
	8	179,380	657	120.9	117.6	118.3
	9	179,380	657	117.2	101.2	104.8
	10	179,380	657	107.2	95.3	97.7
	11	179,380	657	108.1	113.8	112.6
	12	179,380	657	115.6	115.4	115.5
2021 <sup>P</sup>	1	179,380	657	111.4	111.8	111.7
	2	179,380	657	111.3	113.2	112.7
	3	179,380	657	106.8	95.7	98.1
	4	179,380	657	101.9	94.6	96.1
	5	179,380	657	104.3	92.6	94.9
	6	179,380	657	111.9	114.9	114.3
	7	179,380	657	123.5	117.3	118.5
	8	179,380	657	123.9	116.8	118.5
	9	179,380	657	113.2	97.0	100.5
	10	179,380	657	108.2	95.5	98.0
	11	179,380	657	108.3	115.6	114.0

1. 국내탄 5급(4,400~4,599kcal/kg) 최고가격 기준

2. 연탄공장에서 판매소까지의 수송비 개당 12.75원(상하차비용포함)과 판매소 수수료 개당 5원을 포함한 판매소 가격

3. 2004년 1월 이후의 수용가수 및 판매량의 전등과 동력은 저압과 고압으로 변경.

자료: 한국전력공사, 대한석탄협회, 산업통상자원부

1. Based on the highest price of Grade 5 (4,400~4,599kcal/kg) domestic coals.

2. Retail shop price including 12.75 KRW transportation cost per unit from briquet manufactories to retail shops, and 5 KRW retail fee per unit.

3. After January 2004, labels for number of customers and sales ("Lighting" and "Power") have changed to "Low Voltage" and "High Voltage," respectively.

Source: KEPCO, Korea Coal Association, Ministry of Trade, Industry and Energy

## 7.3 LNG 수입가격 및 도시가스 가격

## LNG Import Prices and City Gas Prices

		액화천연가스 <sup>1</sup> LNG <sup>1</sup>		도시가스 <sup>2</sup> City Gas <sup>2</sup>			
		도입금액 Import value	단가 Unit price	가정용 <sup>3</sup> Residential <sup>3</sup>	업무용 <sup>4</sup> Commercial <sup>4</sup>	산업용 Industrial	영업용 <sup>5</sup> Business <sup>5</sup>
		백만(Mil USD)	달러/톤(USD/Ton)	원(KRW)/Nm <sup>3</sup> , 원(KRW)/MJ			
1990		459.5	205.4	284.9	214.5	206.8	284.9
1995		1,275.3	188.8	300.6	237.3	196.7	309.1
1996		1,878.4	202.9	301.9	242.4	196.7	309.1
1997		2,295.9	200.1	325.7	266.2	206.6	319.0
1998		1,549.3	152.1	432.4	377.9	283.5	404.3
1999		1,972.6	160.6	404.1	356.7	248.2	352.5
2000		3,882.3	254.8	464.0	416.6	294.5	408.3
2001		3,989.8	260.5	498.0	495.5	369.4	479.0
2002		4,120.2	229.0	422.5	439.5	323.0	421.6
2003		5,081.9	263.2	451.9	468.9	357.1	449.8
2004		6,551.6	300.8	474.0	491.0	379.9	472.2
2005		8,646.5	387.4	485.6	502.7	396.2	488.7
2006		11,924.9	472.2	568.8	585.8	485.6	576.8
2007		12,653.3	494.9	599.0	616.0	509.4	608.5
2008		19,806.1	726.6	643.3	662.1	549.7	650.1
2009		13,875.0	537.3	690.3	744.5	629.1	731.1
2010		17,006.0	521.6	716.5	785.1	661.8	768.2
2011		23,859.3	650.4	783.7	837.6	724.2	827.8
2012		27,364.5	756.3	847.8	891.4	792.6	889.5
2013		30,645.1	768.5	20.8	21.7	19.5	21.7
2014		31,402.5	846.3	22.2	22.9	20.7	23.0
2015		18,779.1	562.8	18.6	19.0	16.4	18.6
2016		12,170.0	363.8	15.1	15.6	12.6	14.8
2017		15,615.7	416.0	15.7	16.1	13.3	15.4
2018		23,188.9	526.8	15.1	15.4	13.0	14.8
2019		137,289.8	3,369.2	15.5	16.0	13.7	15.4
2020		114,004.9	2,851.4	15.1	15.1	12.6	14.9
2019	11	18,391.1	4,851.0	15.9	16.5	14.0	15.8
	12	20,566.6	4,306.2	15.9	16.5	14.5	16.0
2020	1	1,949.1	470.2	15.9	16.5	14.5	16.0
	2	4,059.3	859.8	15.9	16.5	14.5	16.0
	3	5,696.0	1,607.5	15.9	16.5	14.5	16.0
	4	7,177.2	2,321.0	15.9	16.5	14.0	15.8
	5	8,566.2	2,892.1	15.9	16.5	14.0	15.8
	6	9,711.4	3,763.5	15.9	16.5	13.9	15.7
	7	10,617.5	4,500.1	14.2	14.6	11.7	13.8
	8	11,238.2	5,744.4	14.2	14.9	12.1	13.8
	9	12,011.1	4,093.0	14.2	13.7	10.8	13.8
	10	13,072.5	3,396.8	14.2	12.7	9.9	13.8
	11	14,190.4	3,961.4	14.2	12.7	9.9	13.8
	12	15,716.3	3,691.9	14.2	13.5	11.4	14.0
2021 <sup>P</sup>	1	1,830.2	413.7	14.2	14.0	12.0	14.0
	2	4,572.0	886.2	14.2	14.8	12.8	14.0
	3	6,410.7	1,528.6	14.2	15.9	13.8	14.0
	4	7,504.1	2,645.9	14.2	16.1	12.4	11.3
	5	8,888.1	2,620.9	14.2	15.0	11.8	13.8
	6	10,331.0	3,299.6	14.2	15.6	12.3	13.8
	7	12,333.1	3,068.4	14.2	16.2	12.9	13.8
	8	14,193.2	4,079.6	14.2	17.2	14.0	13.8
	9	16,307.8	4,404.7	14.2	18.1	14.8	13.8
	10	18,914.1	4,853.6	14.2	18.8	15.6	13.8
	11	22,011.7	5,686.8	14.2	21.4	18.2	13.8

1. CIF 기준

2. 서울지역 평균가격(부가세 제외), 2013년부터는  
열량단위 단가

3. 취사용 가격

4. 업무난방용 가격

5. 직접적인 영리 목적의 영업활동(목욕탕 등 제외)

자료: 한국무역협회, 한국도시가스협회

1. Based on CIF.

2. Average price in Seoul (excluding VAT),  
Based on MJ unit price since 2013.

3. Price of city gas used for cooking.

4. Price of city gas used for business heating.

5. Business activities for profit excluding public bathhouse.

Source: Korea International Trade Association, Korea City Gas Association





## 8. 주요 경제·사회 지표

### Major Economic and Social Indicators

#### 8.1 주요 경제지표

Major Economic Indicators

#### 8.2 산업생산 지수

Industrial Production Index

#### 8.3 가동률 지수

Operation Ratio Index

#### 8.4 투자활동지표

Investment Activity Indices

#### 8.5 국제수지

Balance of Payments

#### 8.6 자동차 등록대수

Motor Vehicle Registration

#### 8.7 냉난방도일

Heating and Cooling Degree-Days

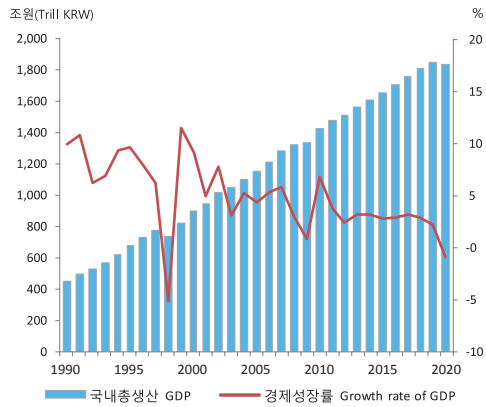
#### 8.8 가구당 소득 및 소비지출

Average Income and Expenditure per Household



## ● 국내총생산, 경제성장률 GDP and Growth Rate of GDP

〈1990~2020〉

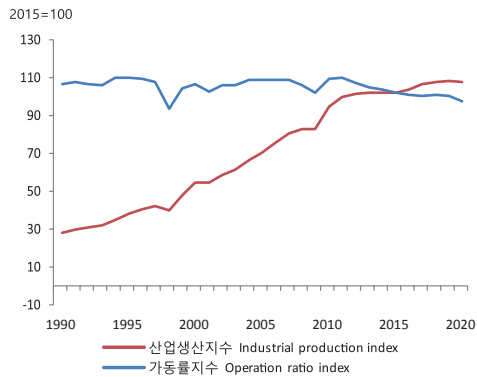


〈분기 Quarterly〉

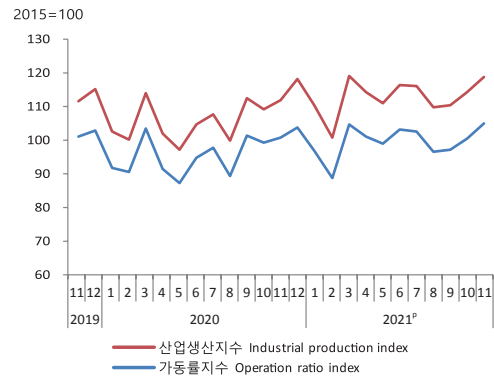


## ● 산업생산지수, 가동률지수 Industrial Production Index

〈1990~2020〉

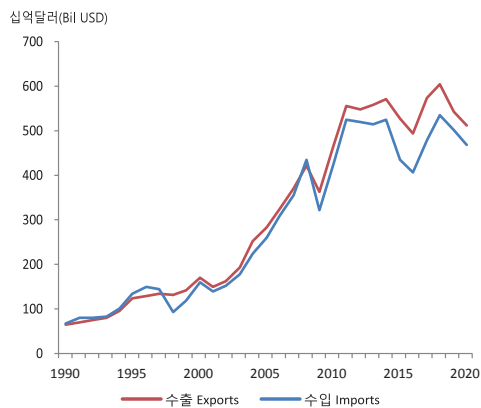


〈월별 Monthly〉

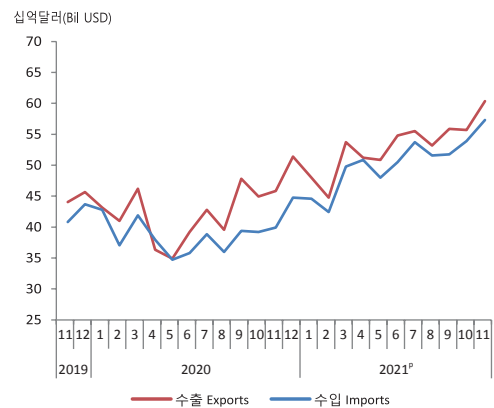


## ● 수출입 Imports and Export

〈1990~2020〉



〈월별 Monthly〉



## 8.1 주요 경제지표

## Major Economic Indicators

		국내총생산 <sup>1</sup> (시장가격)	경제성장률 <sup>1</sup>	민간소비 <sup>1</sup>	설비투자 <sup>1</sup>	건설투자 <sup>1</sup>	물가지수 Prices	
		GDP at market prices <sup>1</sup>	Growth rate of GDP <sup>1</sup>	Private consumption <sup>1</sup>	Facilities investment <sup>1</sup>	Construction investment <sup>1</sup>	생산자 Producer	소비자 Consumer
		십억원(Bil KRW)	%	십억원(Bil KRW)			2015=100	2015=100
1990		454,146	9.9	279,924	42,313	130,673	55.8	40.6
1995		683,940	9.6	422,297	76,132	193,490	65.2	54.8
1996		737,908	7.9	454,998	83,950	207,627	67.3	57.5
1997		783,441	6.2	474,207	77,213	212,866	69.9	60.1
1998		743,255	-5.1	417,671	47,397	184,666	78.4	64.6
1999		828,483	11.5	467,989	64,229	178,652	76.8	65.1
2000		903,551	9.1	511,607	86,585	178,617	78.4	66.6
2001		947,395	4.9	541,244	80,623	190,194	78.0	69.3
2002		1,020,582	7.7	589,833	87,293	202,418	77.8	71.2
2003		1,052,703	3.1	587,600	87,656	220,225	79.5	73.7
2004		1,107,416	5.2	589,947	89,928	223,708	84.3	76.3
2005		1,155,130	4.3	617,417	93,062	223,611	86.1	78.4
2006		1,215,940	5.3	647,804	101,442	225,219	86.9	80.2
2007		1,286,459	5.8	682,032	111,522	228,604	88.1	82.2
2008		1,325,219	3.0	693,103	111,276	222,419	95.6	86.1
2009		1,335,724	0.8	694,615	102,216	230,329	95.4	88.5
2010		1,426,618	6.8	725,119	125,912	221,918	99.1	91.1
2011		1,479,198	3.7	746,491	132,898	215,682	105.7	94.7
2012		1,514,737	2.4	758,839	134,263	208,120	106.4	96.8
2013		1,562,674	3.2	772,014	128,966	221,202	104.7	98.0
2014		1,612,718	3.2	787,410	135,481	224,276	104.2	99.3
2015		1,658,020	2.8	804,812	142,434	239,801	100.0	100.0
2016		1,706,880	2.9	825,676	146,179	263,725	98.2	101.0
2017		1,760,812	3.2	848,589	170,276	282,925	101.6	102.9
2018		1,812,005	2.9	875,578	166,289	269,787	103.5	104.5
2019		1,852,666	2.2	894,075	155,328	265,228	103.5	104.9
2020		1,836,881	-0.9	849,072	166,302	264,056	103.0	105.4
2019	11	-	-	-	-	-	103.4	104.9
	12	489,418	2.6	229,542	41,329	73,523	103.7	105.1
2020	1	-	-	-	-	-	104.1	105.8
	2	-	-	-	-	-	103.7	105.8
	3	443,719	1.5	212,467	39,515	54,808	102.8	105.5
	4	-	-	-	-	-	101.9	105.0
	5	-	-	-	-	-	102.0	104.7
	6	449,745	-2.6	208,642	42,274	72,451	102.5	104.9
	7	-	-	-	-	-	102.7	104.9
	8	-	-	-	-	-	103.2	105.5
	9	459,304	-1.0	213,594	40,663	65,436	103.4	106.2
	10	-	-	-	-	-	103.0	105.6
	11	-	-	-	-	-	103.1	105.5
	12	484,114	-1.1	214,369	43,850	71,362	103.9	105.7
2021 <sup>P</sup>	1	-	-	-	-	-	105.1	106.5
	2	-	-	-	-	-	105.9	107.0
	3	452,308	1.9	215,074	44,423	53,800	107.0	107.2
	4	-	-	-	-	-	108.1	107.4
	5	-	-	-	-	-	108.7	107.5
	6	476,547	6.0	216,275	47,682	71,560	109.2	107.4
	7	-	-	-	-	-	110.3	107.6
	8	-	-	-	-	-	110.9	108.3
	9	477,569	4.0	220,548	42,361	64,637	111.3	108.8
	10	-	-	-	-	-	112.4	109.0
	11	-	-	-	-	-	113.2	109.4

1. 2015년 연쇄가격, 원계열  
자료: 한국은행

1. GDP chained at the 2015 prices, original series.  
Source: Bank of Korea.

## 8.2 산업생산 지수

## Industrial Production Index

		총지수 All items	광업 및 제조업 Mining and manufacturing	1차 철강 Basic iron and steel	시멘트 Cement, lime and plaster and its products	기초화학물 Basic chemicals	수송장비 Motor vehicles, trailers and semitrailer	전기장비 Electrical equipment	서비스업 Services
		2015=100							
1990		21.1	21.2	33.6	61.6	14.5	16.9	36.6	0.0
1995		31.8	31.6	52.0	93.7	32.8	36.2	57.2	0.0
1996		34.6	34.3	55.2	100.3	37.6	40.8	60.5	0.0
1997		36.2	35.9	58.5	102.1	46.7	40.6	60.2	0.0
1998		33.9	33.5	52.9	74.7	49.0	26.8	45.3	0.0
1999		42.2	42.0	58.9	76.3	53.0	41.0	57.3	0.0
2000		49.4	49.2	63.9	82.9	56.0	46.8	68.3	59.6
2001		49.7	49.3	64.9	86.3	55.5	46.2	68.0	63.3
2002		53.7	53.2	67.4	94.8	58.9	50.2	76.6	69.3
2003		56.6	56.2	71.7	101.2	60.9	53.4	76.6	70.0
2004		62.5	62.2	74.5	94.1	65.7	59.7	81.2	70.2
2005		66.5	66.1	73.8	85.0	68.2	64.7	84.1	72.8
2006		72.1	71.8	76.8	88.6	71.0	69.9	84.3	76.5
2007		77.0	76.9	80.6	94.6	75.6	74.2	88.1	81.6
2008		79.6	79.4	82.3	91.0	75.1	71.8	93.6	84.5
2009		79.5	79.2	73.8	84.6	79.7	67.2	95.1	86.1
2010		92.5	92.4	90.2	79.5	86.6	82.8	104.6	89.4
2011		98.0	98.0	97.1	81.6	88.0	95.0	105.4	92.2
2012		99.4	99.3	98.1	80.7	91.6	94.8	103.3	93.7
2013		100.1	100.0	97.6	86.7	97.0	96.1	101.4	95.0
2014		100.3	100.2	102.0	83.7	97.8	98.7	103.4	97.2
2015		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016		102.2	102.3	101.5	107.9	104.6	97.6	103.5	102.6
2017		104.8	104.6	103.4	109.7	110.4	95.1	106.6	104.5
2018		106.3	106.1	100.5	100.0	110.4	93.9	106.5	106.9
2019		106.7	106.5	98.3	94.3	108.9	93.4	109.6	108.4
2020		106.3	106.2	92.1	86.6	102.3	84.1	108.7	106.2
2019	11	111.4	111.6	97.2	103.7	104.0	95.2	115.3	110.3
	12	115.1	114.5	98.1	95.6	114.9	94.7	120.8	118.8
2020	1	102.2	100.9	94.7	66.8	114.7	77.3	98.4	106.7
	2	99.7	98.6	95.3	72.2	108.0	65.2	97.3	100.7
	3	113.6	113.6	100.1	93.5	106.3	101.9	113.5	103.4
	4	101.6	101.6	93.5	97.9	97.7	81.6	102.9	101.1
	5	96.8	97.0	86.0	87.4	96.6	64.2	94.8	105.1
	6	104.3	104.7	81.3	92.3	95.4	79.3	108.6	108.2
	7	107.4	107.7	86.0	81.1	103.8	93.2	111.6	106.7
	8	99.6	99.1	86.2	72.6	105.2	68.9	100.0	104.1
	9	112.1	112.9	93.0	89.1	104.3	97.2	119.9	106.9
	10	109.0	109.5	94.9	94.5	102.2	95.4	112.4	106.4
	11	111.5	111.7	95.9	98.1	88.4	95.4	118.7	108.8
	12	118.1	117.3	98.4	93.1	105.1	89.9	126.4	116.3
2021 <sup>P</sup>	1	110.2	108.5	96.4	67.5	108.1	91.1	109.1	104.8
	2	100.5	99.5	89.1	71.2	103.3	79.5	97.4	101.5
	3	118.8	118.8	99.1	103.9	112.4	101.3	122.9	111.5
	4	114.0	114.6	99.0	103.7	107.3	97.9	115.2	109.5
	5	110.8	111.3	98.2	95.2	107.8	82.3	109.3	109.5
	6	116.3	117.1	98.3	97.3	105.0	95.5	120.1	113.5
	7	115.8	115.8	102.6	93.2	114.2	90.0	119.0	111.0
	8	109.5	109.4	98.9	83.6	117.8	73.1	110.2	108.5
	9	110.0	110.5	95.5	82.5	112.6	73.7	109.2	110.5
	10	113.9	114.4	97.2	95.1	106.3	82.7	116.5	111.7
	11	118.5	118.8	98.8	99.2	101.3	91.7	124.7	114.7

자료: 통계청

Source: Statistics Korea

### 8.3 가동률 지수

### Operation Ratio Index

		총지수 All items	1차 철강 Basic iron and steel	시멘트 Cement, lime and plaster and its products	기초화학물 Basic chemicals	수송장비 Motor vehicles, trailers and semitrailer	전기장비 Electrical equipment
		2015=100					
1990		104.7	119.8	153.4	92.6	83.0	93.0
1995		108.4	109.4	153.8	103.7	100.6	116.5
1996		108.1	113.1	143.2	106.0	103.5	114.2
1997		106.0	115.4	140.3	110.0	92.7	112.4
1998		91.1	92.6	100.1	103.2	61.8	89.9
1999		102.5	93.9	105.2	109.0	82.5	112.0
2000		104.9	99.4	116.0	110.2	79.7	103.3
2001		100.7	100.7	121.2	107.8	74.0	102.9
2002		104.7	101.1	133.1	110.9	78.0	108.6
2003		104.6	104.3	132.9	110.2	78.5	100.9
2004		107.6	106.0	118.2	110.0	82.1	101.7
2005		107.2	104.0	104.5	109.7	87.1	105.9
2006		107.4	103.6	106.4	110.5	90.4	106.4
2007		107.6	101.7	111.2	111.4	94.1	104.3
2008		104.2	102.3	104.9	102.9	87.8	102.1
2009		100.5	88.8	99.2	105.8	80.6	100.1
2010		108.2	99.8	91.9	109.8	95.2	109.4
2011		108.5	100.3	93.6	107.0	101.5	105.8
2012		105.5	100.1	93.5	106.1	98.0	102.9
2013		103.0	99.0	98.3	103.7	97.1	99.0
2014		102.0	102.4	92.3	101.8	98.5	99.0
2015		100.0	100.0	100.0	100.0	100.0	100.0
2016		99.0	101.0	106.7	102.9	93.8	102.8
2017		98.4	102.8	107.2	105.9	87.7	104.0
2018		98.8	100.1	108.4	103.5	89.6	102.2
2019		98.4	98.0	102.2	99.6	92.8	103.8
2020		95.6	92.1	93.4	95.0	84.4	103.1
2019	11	100.8	96.9	112.3	94.3	95.3	109.8
	12	102.5	97.7	103.8	104.0	94.3	114.2
2020	1	91.5	94.3	72.5	104.3	77.5	92.1
	2	90.2	95.0	78.3	98.1	67.7	92.4
	3	103.3	99.9	100.8	99.0	101.9	107.1
	4	91.2	93.4	105.3	91.4	81.8	96.9
	5	86.8	86.0	94.6	90.5	65.1	89.8
	6	94.3	81.5	100.0	89.1	79.7	105.6
	7	97.3	86.1	87.6	96.9	94.2	105.8
	8	89.1	86.2	78.0	98.3	69.7	95.0
	9	101.2	93.2	95.4	97.5	97.2	113.2
	10	98.8	95.1	101.1	95.5	94.6	107.3
	11	100.5	95.9	105.1	83.1	93.7	112.3
	12	103.5	98.4	101.5	95.7	90.0	119.3
2021 <sup>P</sup>	1	96.6	96.7	73.4	98.4	91.6	102.6
	2	88.5	89.2	77.8	94.6	79.7	93.2
	3	104.4	99.1	114.4	103.0	98.3	117.4
	4	100.7	99.1	115.6	98.5	94.5	109.7
	5	98.6	98.6	106.0	98.7	79.2	105.7
	6	103.0	98.9	108.9	96.7	92.2	112.5
	7	102.4	103.2	104.6	104.2	86.4	112.4
	8	96.2	98.9	93.7	107.6	71.2	103.8
	9	96.8	95.7	92.9	102.8	71.2	103.5
	10	100.1	97.4	107.0	96.8	79.2	112.1
	11	104.6	98.9	111.5	90.8	88.3	119.0

자료: 통계청

Source: Statistics Korea

## 8.4 투자활동지표

## Investment Activity Indices

		설비부문 Facility			건설부문 Construction		
		설비투자 Facility investment	설비용기계 내수출하 <sup>1</sup> Domestic shipment index of machinery and equipment <sup>1</sup>	국내수요기계 수주액 <sup>1</sup> Value of domestic machinery orders received <sup>1</sup>	건설기성액 <sup>2</sup> Value of construction completed <sup>2</sup>	국내 건설수주액 <sup>2</sup> Value of domestic construction order received <sup>2</sup>	건축허가면적 Permitted floor area for building construction
		2015=100	2015=100	십억원(Billion KRW)			1,000 m <sup>2</sup>
1990		-	37.6	-	-	20,964	-
1995		-	63.6	-	-	49,025	-
1996		57.3	71.4	-	-	59,535	-
1997		54.1	71.7	17,236	29,538	62,722	-
1998		33.8	44.9	10,726	46,887	36,027	-
1999		48.0	59.0	12,835	47,449	36,299	72,531
2000		62.3	81.2	14,995	45,990	41,778	81,055
2001		57.2	76.9	13,755	50,576	50,995	97,717
2002		62.1	84.9	16,101	56,216	67,834	138,734
2003		60.7	83.3	14,961	65,553	80,897	142,108
2004		62.9	81.5	16,132	72,838	77,774	117,461
2005		66.6	81.8	15,794	75,831	83,489	111,506
2006		75.1	90.7	18,868	77,839	91,001	133,270
2007		80.2	93.7	22,690	82,939	112,502	150,957
2008		78.4	95.2	20,489	87,032	103,907	120,658
2009		70.9	90.2	18,803	89,819	109,088	105,137
2010		89.2	108.3	19,679	92,276	89,814	125,447
2011		92.3	113.6	21,223	91,717	95,332	137,868
2012		89.7	108.3	17,655	88,713	89,395	137,142
2013		88.9	100.1	19,584	98,089	77,885	127,066
2014		93.6	99.8	23,114	98,491	90,606	141,347
2015		100.0	100.0	21,680	102,614	134,493	189,840
2016		101.8	101.5	22,288	119,971	145,386	178,955
2017		116.5	111.5	26,234	139,039	142,966	171,875
2018		112.3	106.2	27,289	138,417	143,292	160,964
2019		105.9	95.9	25,405	139,311	154,243	144,293
2020		112.3	98.7	27,493	135,663	179,597	147,311
2019	11	107.4	96.0	2,038	11,582	13,753	12,531
	12	126.6	121.0	3,232	14,974	26,933	15,248
2020	1	98.0	81.6	2,582	9,885	10,101	8,689
	2	96.6	84.1	2,286	9,880	10,748	12,490
	3	121.0	102.5	2,807	12,235	12,140	12,051
	4	115.8	100.9	2,397	11,121	8,620	11,069
	5	111.6	96.8	1,994	11,008	13,660	12,355
	6	122.4	108.7	2,276	12,800	20,238	12,205
	7	115.8	97.0	1,978	10,825	15,336	14,039
	8	100.3	85.3	1,810	9,908	12,501	10,116
	9	115.1	100.4	2,320	11,315	15,470	14,158
	10	105.0	93.8	2,328	10,373	13,899	12,132
	11	112.7	103.1	2,043	11,719	17,703	12,567
	12	133.0	130.4	2,673	14,593	29,182	15,441
2021 <sup>P</sup>	1	117.0	87.8	2,578	9,397	12,852	9,596
	2	103.5	84.0	2,966	9,395	12,621	10,867
	3	132.6	105.8	3,330	12,143	16,514	15,173
	4	134.8	107.9	3,033	11,506	17,846	16,145
	5	124.1	107.1	3,162	11,155	14,740	13,892
	6	135.4	118.0	3,199	13,253	17,384	16,014
	7	128.5	102.5	3,091	10,998	14,449	14,592
	8	112.9	97.5	2,564	11,029	15,391	13,946
	9	109.0	99.9	2,684	11,448	13,951	14,652
	10	108.2	93.4	2,759	11,710	15,554	14,690
	11	123.1	104.2	2,509	12,432	17,526	14,483

1. 선박 제외  
2. 경상금액  
자료: 통계청

1. Excludes vessels.  
2. Current amount.  
Source: Statistics Korea

## 8.5 국제수지

## Balance of Payments

		수출	수입	경상수지	상품수지	서비스수지	본원소득수지	이전소득수지	자본수지
		Exports	Imports	Current account	Goods	Services	Primary income	Secondary income	Capital account
		백만달러(Million USD)							
1990		65,016	69,844	-2,804	-3,689	501	-548	932	-
1995		125,058	135,119	-10,230	-7,004	-1,395	-2,122	291	-
1996		129,715	150,339	-24,461	-17,347	-4,632	-2,215	-268	-
1997		136,164	144,616	-10,812	-6,745	-1,244	-3,167	345	-
1998		132,313	93,282	40,113	39,614	2,881	-5,201	2,819	442
1999		143,685	119,752	21,785	25,446	1,042	-5,537	833	56
2000		172,268	160,481	10,181	15,393	-846	-4,152	-214	38
2001		150,439	141,098	2,165	9,407	-2,266	-3,714	-1,261	-64
2002		162,471	152,126	4,066	14,414	-5,826	-2,407	-2,114	-9
2003		193,817	178,827	11,308	22,138	-4,845	-2,820	-3,165	-48
2004		253,845	224,463	29,290	39,173	-5,050	-1,794	-3,038	10
2005		284,419	261,238	12,209	32,493	-8,984	-8,041	-3,258	-1
2006		325,465	309,383	2,095	24,515	-13,040	-4,998	-4,382	-69
2007		371,489	356,846	10,473	32,436	-13,040	-4,537	-4,387	6
2008		422,007	435,275	1,753	11,746	-6,311	-2,416	-1,267	26
2009		363,534	323,085	33,088	48,056	-9,338	-3,436	-2,195	-70
2010		466,384	425,212	27,951	47,932	-13,973	-693	-5,317	-63
2011		555,214	524,413	16,638	28,014	-12,057	5,396	-4,716	-112
2012		547,870	519,584	48,791	48,589	-5,058	10,733	-5,474	-42
2013		559,632	515,586	77,259	80,259	-6,329	7,518	-4,189	-27
2014		572,665	525,515	83,030	86,145	-3,290	5,159	-4,985	-9
2015		526,757	436,499	105,119	120,275	-14,626	4,455	-4,985	-60
2016		495,426	406,193	97,924	116,462	-17,338	4,567	-5,767	-46
2017		573,694	478,478	75,231	113,593	-36,734	5,337	-6,965	-27
2018		604,860	535,202	77,467	110,087	-29,369	4,902	-8,153	317
2019		542,233	503,343	59,676	79,812	-26,845	12,856	-6,147	-169
2020		512,498	467,633	75,276	81,945	-16,190	12,050	-2,530	-339
2019	11	44,041	40,729	5,877	7,748	-2,123	799	-548	-5
	12	45,668	43,687	4,637	5,598	-2,595	2,564	-930	-12
2020	1	43,103	42,718	584	2,070	-2,989	1,631	-128	-16
	2	40,912	36,977	6,407	6,597	-1,441	1,216	35	-4
	3	46,167	41,804	5,940	6,962	-1,646	853	-229	-20
	4	36,270	37,933	-3,298	705	-1,504	-2,251	-248	-3
	5	34,855	34,662	2,241	2,613	-652	551	-270	-155
	6	39,214	35,795	7,165	6,183	-1,355	1,807	529	-4
	7	42,785	38,849	7,025	7,012	-1,304	1,687	-369	1
	8	39,469	35,818	6,641	7,084	-876	705	-273	2
	9	47,820	39,400	10,335	12,106	-2,083	686	-374	-3
	10	44,819	39,094	11,551	10,167	-834	2,499	-281	-14
	11	45,752	39,945	9,177	9,951	-976	478	-276	-87
	12	51,332	44,638	11,507	10,496	-532	2,189	-646	-37
2021 <sup>p</sup>	1	48,009	44,442	7,060	5,734	-606	2,355	-423	-12
	2	44,705	42,377	7,942	5,974	109	2,118	-259	-16
	3	53,697	49,735	7,816	7,920	-902	1,276	-479	-5
	4	51,224	50,886	1,910	4,559	12	-1,949	-713	-16
	5	50,731	47,900	10,761	6,367	-563	5,494	-537	-8
	6	54,784	50,421	8,847	7,618	-947	2,529	-353	5
	7	55,462	53,672	8,211	5,726	-82	2,804	-238	-14
	8	53,165	51,589	7,512	5,636	998	1,113	-233	-18
	9	55,915	51,638	10,068	9,454	-23	751	-115	-10
	10	55,663	53,841	6,946	5,638	626	670	12	-5
	11	60,353	57,352	7,156	5,951	-138	1,486	-143	-41

자료: 한국은행

Source: Bank of Korea.

## 8.6 자동차 등록대수

		총대수 Total	유종별 Fuel type							수소 Hydrogen
			휘발유 Gasoline	경유 Diesel	액화석유가스 LPG	압축천연가스 CNG	하이브리드 <sup>1</sup> Hybrid <sup>1</sup>	전기 Electricity	기타 <sup>2</sup> Others <sup>2</sup>	
		천대(Thousand unit)								대(Unit)
1999		11,164	-	-	-	-	-	-	-	-
2000		12,059	1,831	3,594	1,214	-	-	0	37	-
2001		12,914	1,586	4,030	1,428	-	-	0	39	-
2002		13,949	1,382	4,607	1,625	-	-	0	44	-
2003		14,587	1,246	5,055	1,723	1	-	0	46	-
2004		14,934	1,238	5,385	1,794	5	-	0	48	-
2005		15,397	1,576	5,650	1,890	9	-	0	48	-
2006		15,895	1,942	5,869	2,047	12	-	0	51	-
2007		16,428	2,280	6,087	2,187	15	-	0	53	-
2008		16,794	2,578	6,137	2,321	20	4	-	55	-
2009		17,325	3,008	6,285	2,391	25	5	-	63	-
2010		17,941	8,907	6,483	2,444	29	7	0	71	-
2011		18,437	3,556	6,705	2,429	32	23	0	77	-
2012		18,871	9,276	7,002	2,415	37	57	1	82	-
2013		19,401	9,400	7,396	2,392	40	85	1	87	-
2014		20,118	9,587	7,939	2,337	40	119	3	93	-
2015		20,990	9,809	8,622	2,257	40	156	6	100	29
2016		21,803	10,092	9,170	2,167	39	215	11	109	87
2017		22,528	10,370	9,576	2,105	39	296	25	118	170
2018		23,203	10,629	9,930	2,035	39	387	56	126	893
2019		23,677	10,961	9,958	2,005	38	488	90	133	5,083
2020		24,366	11,410	9,992	1,979	37	650	135	151	10,906
2019	11	23,634	10,931	9,959	2,006	38	476	87	132	4,650
	12	23,677	10,961	9,958	2,005	38	488	90	133	5,083
2020	1	23,730	10,990	9,971	2,006	38	496	91	134	5,167
	2	23,743	11,004	9,964	2,004	38	500	94	134	5,558
	3	23,797	11,048	9,956	2,004	38	510	100	135	6,125
	4	23,859	11,098	9,949	2,005	38	522	104	136	7,033
	5	23,926	11,154	9,944	2,004	38	535	106	138	7,314
	6	24,023	11,220	9,953	2,003	38	551	111	140	7,682
	7	24,098	11,266	9,964	2,000	38	565	114	142	8,298
	8	24,130	11,282	9,971	1,995	38	575	118	143	8,911
	9	24,201	11,315	9,987	1,991	37	591	124	145	9,494
	10	24,251	11,343	9,992	1,988	37	606	128	146	10,041
	11	24,315	11,378	9,996	1,984	37	628	132	149	10,477
	12	24,366	11,410	9,992	1,979	37	650	135	151	10,906
2021 <sup>P</sup>	1	24,436	11,448	10,010	1,975	37	667	135	154	11,046
	2	24,483	11,472	10,017	1,972	37	681	137	155	11,557
	3	24,534	11,506	10,005	1,969	37	699	148	158	12,439
	4	24,562	11,546	9,968	1,968	36	718	152	160	13,647
	5	24,587	11,578	9,936	1,965	36	735	160	162	14,532
	6	24,642	11,614	9,922	1,963	36	754	173	165	15,225
	7	24,704	11,648	9,920	1,960	36	774	181	167	15,765
	8	24,741	11,667	9,914	1,956	36	792	191	169	16,206
	9	24,778	11,684	9,905	1,954	36	810	202	171	17,076
	10	24,811	11,703	9,888	1,951	36	830	212	173	18,068
	11	24,861	11,732	9,878	1,949	35	850	223	175	19,004

1. 하이브리드: 휘발유+전기

2. 기타는 등유, 알코올, 태양열, LNG, 하이브리드(경유+전기, LPG+전기, CNG+전기, LNG+전기), 기타연료를 포함

자료: 국토교통부 통계누리



## Motor Vehicle Registration

용도별 Vehicle usage			차종별 Vehicle type				
영업용 Commercial	관용 Government	자가용 Private	승용 Passenger	승합 Buses	화물 Trucks	특수 Special	
천대(Thousand unit)							
564	50	10,550	7,837	993	2,298	35	1999
620	50	11,389	8,084	1,427	2,511	37	2000
669	52	12,194	8,889	1,257	2,728	39	2001
723	53	13,173	9,737	1,275	2,894	42	2002
751	55	13,781	10,279	1,247	3,016	45	2003
767	57	14,111	10,621	1,204	3,062	47	2004
784	58	14,555	11,122	1,125	3,102	48	2005
817	59	15,019	11,607	1,106	3,133	49	2006
871	61	15,496	12,100	1,105	3,171	52	2007
911	62	15,821	12,484	1,097	3,160	53	2008
930	64	16,330	13,024	1,081	3,167	54	2009
974	66	16,901	13,632	1,050	3,204	56	2010
1,011	69	17,357	14,136	1,015	3,226	59	2011
1,052	71	17,747	14,577	987	3,244	63	2012
1,126	73	18,202	15,078	971	3,286	66	2013
1,213	75	18,830	15,747	947	3,354	70	2,014
1,290	78	19,623	16,562	920	3,433	75	2015
1,378	80	20,345	17,338	893	3,492	80	2016
1,458	86	20,984	18,035	868	3,540	86	2017
1,573	90	21,540	18,677	844	3,591	91	2018
1,677	92	21,908	19,178	812	3,593	95	2019
1,750	94	22,522	19,861	784	3,615	106	2020
1,668	92	21,874	19,129	815	3,595	95	11 2019
1,677	92	21,908	19,178	812	3,593	95	12
1,686	92	21,952	19,224	811	3,599	96	1 2020
1,687	92	21,965	19,238	808	3,601	97	2
1,689	93	22,015	19,295	806	3,600	97	3
1,693	93	22,073	19,360	803	3,598	98	4
1,698	93	22,135	19,428	801	3,599	99	5
1,707	94	22,221	19,522	799	3,603	100	6
1,718	94	22,285	19,591	797	3,608	101	7
1,722	94	22,314	19,626	795	3,608	102	8
1,730	94	22,377	19,694	792	3,613	103	9
1,737	94	22,419	19,744	789	3,614	104	10
1,745	94	22,476	19,808	786	3,616	105	11
1,750	94	22,522	19,861	784	3,615	106	12
1,753	94	22,590	19,924	782	3,623	107	1 2021 <sup>P</sup>
1,756	94	22,632	19,967	780	3,628	108	2
1,763	94	22,677	20,017	776	3,632	109	3
1,772	93	22,697	20,059	771	3,622	110	4
1,779	94	22,715	20,097	767	3,612	111	5
1,790	94	22,758	20,152	764	3,614	112	6
1,798	94	22,811	20,207	762	3,621	114	7
1,803	94	22,844	20,243	760	3,624	115	8
1,808	94	22,876	20,279	757	3,626	116	9
1,810	94	22,906	20,314	754	3,625	116	10
1,818	95	22,948	20,363	752	3,629	117	11

1. Hybrid: Gasoline+Electricity

2. Includes kerosene, alcohol, solar heat, LNG, Hybrid (Diesel + Electricity, LPG + Electricity, CNG + Electricity, LNG + Electricity) and other fuels.

Source: Ministry of Land, Infrastructure and Transport

## 8.7 냉난방도일

## Heating and Cooling Degree-Days

		평균기온 Average temperature	난방도일(18℃) Heating degree day	냉방도일(24℃) Cooling degree day
		℃	도일(Degree day)	
1990		12.8	2,557.6	125.9
1995		12.2	2,738.9	109.1
1996		12.2	2,843.9	117.8
1997		12.9	2,625.4	204.1
1998		13.8	2,322.9	103.8
1999		13.2	2,560.3	170.0
2000		12.7	2,758.5	186.0
2001		12.8	2,721.0	159.7
2002		12.9	2,545.8	92.5
2003		12.8	2,509.4	47.3
2004		13.3	2,467.4	141.2
2005		12.1	2,889.5	121.2
2006		13.0	2,524.1	116.3
2007		13.3	2,483.2	125.2
2008		12.9	2,589.0	110.2
2009		12.9	2,585.4	100.2
2010		12.1	2,953.4	167.2
2011		12.0	2,882.6	113.1
2012		12.2	2,967.7	187.9
2013		12.5	2,908.0	194.8
2014		13.4	2,501.6	125.4
2015		13.6	2,459.1	151.8
2016		13.6	2,589.7	238.1
2017		13.0	2,687.6	188.1
2018		12.9	2,763.4	286.2
2019		13.5	2,525.5	178.4
2020		13.2	2,499.1	129.3
2019	11	7.6	312.6	-
	12	1.4	514.1	-
2020	1	1.6	505.4	-
	2	2.5	448.5	-
	3	7.7	318.2	-
	4	11.1	206.3	-
	5	18.0	33.6	-
	6	23.9	0.1	25.4
	7	24.1	-	22.9
	8	26.5	-	78.1
	9	21.4	-	2.9
	10	14.3	118.9	-
	11	8.0	299.2	-
	12	-0.4	568.9	-
2021 <sup>P</sup>	1	-2.4	631.5	-
	2	2.7	427.5	-
	3	9.0	278.5	-
	4	14.2	119.6	-
	5	17.1	57.3	0.1
	6	22.8	-	5.7
	7	28.1	-	132.4
	8	25.9	-	65.8
	9	22.6	-	1.9
	10	15.6	107.9	-
	11	8.2	294.6	-

주. 서울시 기준  
자료: 기상청

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

# 8.8 가구당 소득 및 소비지출

# Average Income and Expenditure per Household

		소득	소비지출	전기료	연료비	공동주택난방비	운송기구연료비	공공교통	개인교통
		Income	Consumption expenditure	Electricity	Fuel	APT Heating	Fuel of vehicles	Public transport	Private transport
		원(KRW)							
1990		-	685,662	9,216	16,785	784	-	20,880	24,619
1995		-	1,265,890	17,790	25,959	1,969	-	36,987	79,257
1996		-	1,426,853	19,688	30,610	2,806	-	41,233	94,436
1997		-	1,489,541	21,500	35,758	3,057	-	45,084	104,872
1998		-	1,316,222	24,148	36,360	4,792	-	41,359	97,754
1999		-	1,478,876	25,558	36,082	4,541	-	46,557	120,434
2000		-	1,632,298	29,378	40,582	5,591	-	49,940	134,457
2001		-	1,762,124	30,864	43,370	5,941	-	53,769	136,209
2002		-	1,834,812	32,977	41,892	5,340	-	51,868	146,609
2003		3,569,534	2,306,826	-	115,626	-	118,599	-	-
2004		3,652,639	2,354,298	-	113,447	-	116,600	-	-
2005		3,694,717	2,386,272	-	113,519	-	115,337	-	-
2006		3,788,318	2,425,148	-	109,701	-	114,293	-	-
2007		3,891,294	2,451,401	-	108,330	-	112,719	-	-
2008		3,939,100	2,456,135	-	107,462	-	107,698	-	-
2009		3,880,094	2,429,775	-	111,600	-	105,435	-	-
2010		3,988,658	2,511,641	-	120,948	-	103,042	-	-
2011		4,055,857	2,526,121	-	116,581	-	99,878	-	-
2012		4,212,127	2,538,967	-	116,232	-	100,166	-	-
2013		4,244,689	2,530,113	-	112,743	-	106,079	-	-
2014		4,332,768	2,569,092	-	101,787	-	110,441	-	-
2015		4,373,116	2,563,092	-	106,204	-	120,384	-	-
2016		4,356,928	2,525,237	-	108,900	-	121,421	-	-
2017		-	2,484,041	-	96,979	-	104,319	-	-
2018		-	2,429,527	-	100,104	-	101,321	-	-
2019		-	2,806,039	-	105,343	-	119,786	-	-
2020		-	2,760,625	-	110,636	-	120,483	-	-
2019	1/4	4,947,046	2,929,872	-	165,546	-	119,095	-	-
	2/4	4,795,950	2,702,209	-	97,334	-	117,751	-	-
	3/4	4,980,320	2,847,902	-	72,190	-	123,391	-	-
	4/4	4,821,193	2,765,764	-	89,445	-	118,549	-	-
2020	1/4	5,068,890	2,722,461	-	158,097	-	108,802	-	-
	2/4	5,028,203	2,777,293	-	103,556	-	121,727	-	-
	3/4	5,027,612	2,790,830	-	77,083	-	128,378	-	-
	4/4	4,887,730	2,752,686	-	100,939	-	124,616	-	-
2021 <sup>P</sup>	1/4	4,977,735	2,752,516	-	174,121	-	109,858	-	-
	2/4	4,839,562	2,801,686	-	97,119	-	116,812	-	-
	3/4	5,272,715	2,853,832	-	88,320	-	121,368	-	-

주 1. 2015년 실질 기준

2. 1990~2002년: 구분류 기준 도시 2인 이상 가구

3. 2003~2018: 신분류 기준 전국 2인 이상 가구

4. 2019년 이후: 비농림어가, 전국 2인 이상 가구

5. 기간별 상세 기준은 통계청의 가계동향조사 참고  
자료: 통계청 가계동향조사

1. At chained 2015 year prices

2. 1990~2002: Based on families of two or more in urban areas using the previous classification.

3. 2003~2018: Based on families of two or more in urban areas using the new classification.

4. After 2019: Based on non-agriculture/forestry families of two or more across South Korea.

5. For more detailed criteria for each period, refer to Household Income and Expenditure Survey by Statistics Korea.

Source: Household Income and Expenditure Survey, Statistics Korea



## 9. 해외 에너지

### World Energy

#### 9.1.1 세계 원유 생산: OPEC

World Crude Oil Production: OPEC

#### 9.1.2 세계 원유 생산: 비OPEC

World Crude Oil Production: Non-OPEC

#### 9.2. 세계 석유 수요

World Oil Demand

#### 9.3. 국제 석유 가격

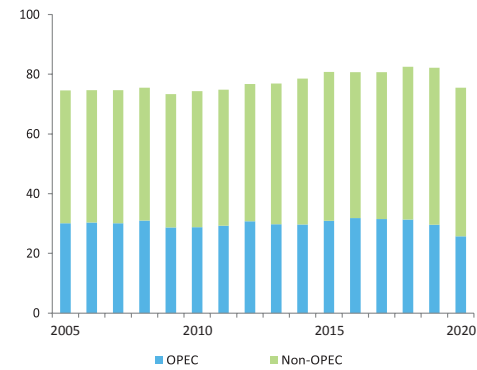
International Oil Prices



## ● 세계 원유 생산 World Crude Oil Production

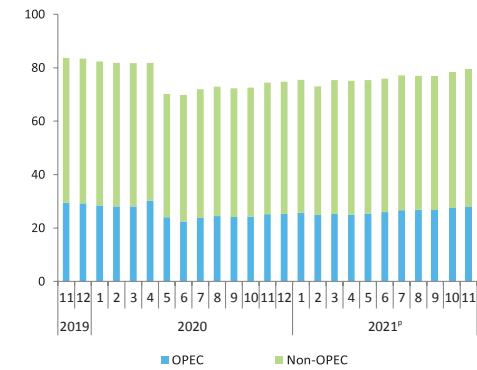
〈2005~2020〉

백만배럴/일(Mil bbl/day)



〈월별 Monthly〉

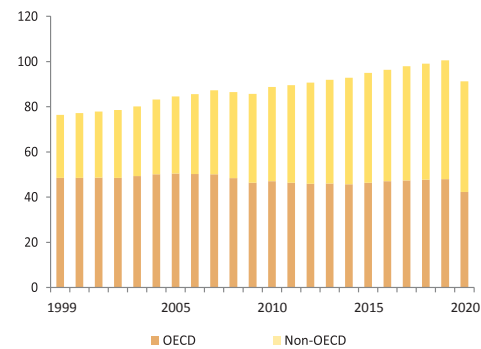
백만배럴/일(Mil bbl/day)



## ● 세계 석유 수요 World Oil Demand

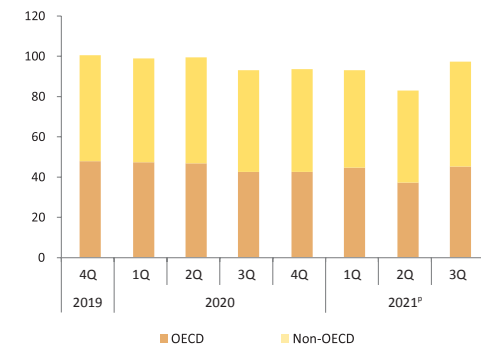
〈1999~2020〉

백만배럴/일(Mil bbl/day)



〈분기 Quarterly〉

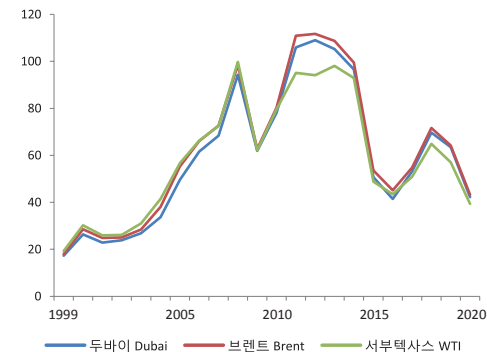
백만배럴/일(Mil bbl/day)



## ● 국제 석유 가격 International Oil Prices

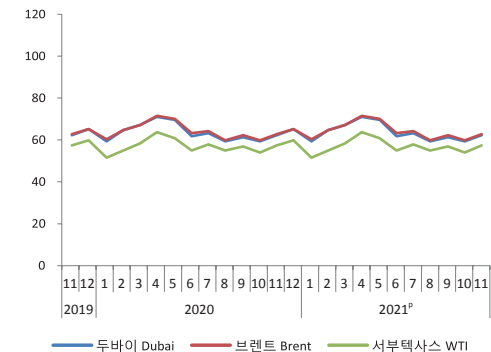
〈1999~2020〉

달러/배럴(USD/bbl)



〈월별 Monthly〉

달러/배럴(USD/bbl)



### 9.1.1 세계 원유 생산: OPEC

### World Crude Oil Production: OPEC

		OPEC <sup>1</sup> OPEC <sup>1</sup>	사우디아라비아 <sup>2</sup> Saudi Arabia <sup>2</sup>	이란 Iran	이라크 Iraq	쿠웨이트 <sup>2</sup> Kuwait <sup>2</sup>	아랍에미리트 U.A.E	베네수엘라 Venezuela	나이지리아 Nigeria
		백만배럴/일(Million bbl/day)							
1998		30.59	8.37	3.63	2.11	2.09	2.30	3.12	2.11
1999		29.24	7.78	3.50	2.52	1.91	2.07	2.78	1.95
2000		30.77	8.28	3.68	2.57	2.04	2.24	2.89	2.04
2001		30.28	7.98	3.70	2.36	2.00	2.16	2.81	2.08
2002		28.80	7.65	3.40	2.01	1.87	1.99	2.44	1.97
2003		30.84	8.78	3.78	1.32	2.17	2.29	2.26	2.15
2004		33.29	8.90	3.93	1.99	2.35	2.35	2.52	2.32
2005		30.13	9.64	3.88	1.81	2.71	2.46	2.79	2.40
2006		30.33	9.51	3.91	1.90	2.79	2.62	2.73	2.24
2007		30.10	9.04	3.98	2.09	2.72	2.52	2.74	2.13
2008		31.02	9.49	3.90	2.38	2.89	2.59	2.78	1.95
2016		28.65	8.45	3.74	2.43	2.54	2.27	2.67	1.82
2010		28.76	8.44	3.70	2.36	2.56	2.31	2.53	2.07
2011		29.28	9.65	3.62	2.67	2.83	2.50	2.50	2.03
2012		30.75	10.06	3.00	2.95	3.01	2.65	2.50	2.01
2013		29.78	9.92	2.68	3.08	3.07	2.76	2.50	1.84
2014		29.66	9.91	2.81	3.34	2.98	2.77	2.46	1.85
2015		30.88	10.20	2.85	4.00	2.82	2.95	2.46	1.77
2016		31.81	10.42	3.55	4.42	2.88	3.05	2.24	1.47
2017		31.48	9.96	3.81	4.47	2.71	2.93	1.97	1.53
2018		31.36	10.33	3.58	4.57	2.75	3.00	1.40	1.60
2019		29.63	9.94	2.36	4.71	2.68	3.18	0.87	1.73
2020		25.69	9.26	2.00	4.05	2.47	2.86	0.53	1.49
2019	11	29.45	10.02	2.10	4.63	2.71	3.45	0.79	1.66
	12	29.27	9.79	2.10	4.58	2.71	3.39	0.84	1.65
2020	1	28.48	9.72	2.06	4.54	2.67	3.16	0.84	1.73
	2	28.07	9.74	2.02	4.59	2.67	3.35	0.80	1.77
	3	28.05	9.85	1.99	4.58	2.85	3.20	0.67	1.78
	4	30.23	11.97	1.99	4.50	2.92	3.53	0.65	1.76
	5	24.05	8.58	1.95	4.17	2.28	2.42	0.56	1.52
	6	22.47	7.55	1.90	3.72	2.10	2.66	0.36	1.41
	7	23.73	8.47	1.90	3.75	2.21	2.92	0.39	1.38
	8	24.46	9.02	1.99	3.65	2.35	3.02	0.39	1.37
	9	24.10	9.07	1.98	3.67	2.39	2.58	0.43	1.35
	10	24.30	9.08	1.96	3.80	2.40	2.42	0.40	1.35
	11	25.13	9.09	2.05	3.78	2.40	2.55	0.43	1.33
	12	25.28	9.09	2.17	3.86	2.40	2.57	0.44	1.20
2021 <sup>P</sup>	1	25.69	5.89	2.30	3.83	4.75	2.33	2.61	0.50
	2	24.91	5.49	2.23	3.89	4.32	2.35	2.61	0.56
	3	25.22	5.49	2.43	3.93	4.30	2.33	2.61	0.58
	4	25.02	5.44	2.40	3.95	4.31	2.32	2.61	0.46
	5	25.47	5.61	2.36	3.94	4.53	2.36	2.64	0.58
	6	25.96	5.77	2.45	3.93	4.73	2.38	2.68	0.60
	7	26.69	6.05	2.50	3.97	4.96	2.42	2.72	0.57
	8	26.83	6.02	2.42	4.07	5.00	2.44	2.77	0.58
	9	27.17	6.09	2.46	4.15	5.10	2.47	2.80	0.61
	10	27.44	6.13	2.46	4.16	5.14	2.50	2.83	0.71
	11	27.75	6.24	2.45	4.25	5.21	2.53	2.86	0.75

1. 기타석유, NGL, 콘덴세이트 포함.

1. Includes other petroleum products, NGL and condensate oil.

2. 중립지대 지분 포함.

2. Includes oil production from neutral zones.

자료: IEA-Oil Market Report

Source: IEA-Oil Market Report

## 9.1.2 세계 원유 생산: 비OPEC

## World Crude Oil Production: Non-OPEC

		세계 <sup>1</sup> World <sup>1</sup>	비OPEC <sup>1</sup> Non-OPEC <sup>1</sup>	미국 United States	캐나다 Canada	러시아 Russia	중국 China	멕시코 Mexico	브라질 Brazil
		백만배럴/일(Million bbl/day)							
1998		-	-	-	-	-	-	-	-
1999		-	-	-	-	-	-	-	-
2000		-	-	-	-	-	-	-	-
2001		-	-	-	-	-	-	-	-
2002		-	-	-	-	-	-	-	-
2003		-	-	-	-	-	-	-	-
2004		-	-	-	-	-	-	-	-
2005		74.55	44.42	5.18	1.83	9.49	3.59	3.33	1.64
2006		74.70	44.37	5.09	1.87	9.57	3.62	3.26	1.73
2007		74.63	44.53	5.07	1.92	9.86	3.68	3.08	1.75
2008		75.45	44.43	5.00	1.93	9.78	3.73	2.79	1.82
2009		73.33	44.68	5.36	1.81	9.92	3.74	2.60	1.96
2010		74.34	45.58	5.48	1.93	10.14	4.02	2.58	2.06
2011		74.84	45.56	5.67	2.05	10.27	4.02	2.55	2.12
2012		76.74	45.99	6.52	2.23	10.37	4.07	2.55	2.07
2013		76.92	47.13	7.49	2.42	10.51	4.11	2.52	2.04
2014		78.52	48.86	8.79	2.66	10.58	4.13	2.43	2.27
2015		80.75	49.88	9.45	2.70	10.72	4.22	2.27	2.45
2016		80.69	48.88	8.84	2.75	10.96	3.91	2.15	2.52
2017		80.71	49.23	9.36	2.97	10.98	3.79	1.95	2.64
2018		82.50	51.15	10.94	3.28	11.16	3.72	1.83	2.60
2019		82.14	52.51	12.29	3.30	11.25	3.77	1.70	2.79
2020		75.51	49.82	11.28	3.07	10.27	3.83	1.72	2.94
2019	11	83.66	54.21	12.97	3.53	11.26	3.76	1.73	3.09
	12	83.40	54.13	12.91	3.49	11.27	3.73	1.74	3.11
2020	1	82.35	53.87	12.78	3.34	11.32	3.84	1.76	3.17
	2	81.85	53.78	12.83	3.40	11.30	3.84	1.77	2.97
	3	81.71	53.66	12.82	3.37	11.30	3.84	1.78	2.97
	4	81.81	51.58	11.91	2.80	11.34	3.80	1.76	2.96
	5	70.14	46.09	9.71	2.55	9.40	3.82	1.69	2.75
	6	69.80	47.33	10.42	2.80	9.33	3.89	1.67	3.01
	7	71.93	48.20	10.96	2.91	9.38	3.82	1.67	3.08
	8	72.89	48.43	10.56	2.98	9.87	3.86	1.71	3.09
	9	72.31	48.21	10.87	2.97	9.97	3.86	1.72	2.91
	10	72.53	48.23	10.41	3.14	10.00	3.81	1.70	2.87
	11	74.36	49.23	11.12	3.22	10.02	3.83	1.71	2.75
	12	74.71	49.43	11.08	3.30	10.06	3.78	1.73	2.72
2021 <sup>p</sup>	1	75.43	49.74	11.06	3.27	10.17	3.91	1.73	2.87
	2	73.00	48.09	9.77	3.11	10.11	3.91	1.75	2.82
	3	75.36	50.14	11.16	3.29	10.26	3.97	1.78	2.85
	4	75.14	50.12	11.23	3.29	10.48	3.94	1.77	2.98
	5	75.37	49.90	11.33	3.13	10.47	3.95	1.78	2.93
	6	75.89	49.93	11.29	3.25	10.44	4.00	1.79	2.91
	7	77.13	50.44	11.33	3.25	10.48	3.92	1.79	3.05
	8	77.01	50.18	11.19	3.33	10.44	3.95	1.75	3.00
	9	77.18	50.01	10.81	3.25	10.73	3.98	1.81	3.00
	10	78.32	50.88	11.52	3.30	10.86	3.91	1.80	2.78
	11	79.59	51.84	11.81	3.56	10.89	3.93	1.77	2.87

1. 기타석유, NGL, 콘덴세이트 포함.  
자료: IEA-Oil Market Report

1. Includes other petroleum products, NGL and condensate oil.  
Source: IEA-Oil Market Report



## 9.2 세계 석유 수요

## World Oil Demand

	세계	OECD				비OECD								
	World	OECD	아메리카	유럽	아시아· 오세아니아	Non- OECD	러시아	유럽	중국	기타 아시아	중남미	중동	아프리카	
			Americas	Europe	Asia- Oceania		Russia	Europe	China	Other Asia	Latin America	Middle East	Africa	
백만배럴/일(Million bbl/day)														
1999	76.4	48.5	24.1	15.4	8.9	27.9	3.7	0.6	4.3	7.5	4.7	4.6	2.5	
2000	77.2	48.5	24.3	15.3	8.9	28.7	3.8	0.6	4.6	7.7	4.8	4.7	2.5	
2001	77.9	48.6	24.3	15.5	8.8	29.3	3.8	0.6	4.8	7.9	4.8	4.9	2.6	
2002	78.6	48.5	24.4	15.4	8.7	30.1	3.8	0.6	5.1	8.1	4.7	5.1	2.6	
2003	80.2	49.3	24.8	15.5	8.9	30.9	3.9	0.7	5.6	8.3	4.6	5.2	2.7	
2004	83.2	50.1	25.7	15.6	8.8	33.1	3.9	0.7	6.5	8.9	4.9	5.5	2.8	
2005	84.6	50.4	25.8	15.7	8.8	34.1	3.9	0.7	6.7	8.9	5.1	5.9	2.9	
2006	85.6	50.2	25.7	15.7	8.8	35.4	4.1	0.7	7.2	9.2	5.2	6.1	2.9	
2007	87.1	50.1	25.9	15.5	8.6	37.1	4.1	0.7	7.6	9.8	5.3	6.4	3.1	
2008	86.5	48.4	24.6	15.5	8.3	38.1	4.2	0.7	7.8	9.6	5.7	6.9	3.3	
2009	85.6	46.3	23.7	14.7	7.9	39.3	4.0	0.7	7.9	10.2	5.7	7.2	3.5	
2010	88.7	47.0	24.2	14.7	8.1	41.7	4.2	0.7	9.0	10.9	6.1	7.3	3.6	
2011	89.5	46.4	24.0	14.3	8.1	43.1	4.5	0.7	9.4	11.2	6.2	7.5	3.6	
2012	90.7	45.9	23.6	13.8	8.5	44.8	4.6	0.7	9.9	11.4	6.5	7.8	3.8	
2013	91.9	46.0	24.1	13.6	8.3	45.9	4.7	0.7	10.3	11.8	6.7	7.9	3.9	
2014	92.8	45.7	24.1	13.5	8.1	47.1	4.9	0.7	10.6	12.0	6.8	8.0	4.0	
2015	95.0	46.4	24.6	13.7	8.0	48.6	4.6	0.7	11.5	12.5	6.8	8.4	4.1	
2016	96.4	47.0	24.9	14.0	8.1	49.4	4.5	0.7	12.0	13.0	6.4	8.5	4.3	
2017	97.9	47.4	25.1	14.3	8.1	50.5	4.5	0.7	12.6	13.4	6.5	8.5	4.3	
2018	99.1	47.7	25.5	14.3	7.9	51.4	4.8	0.8	13.0	13.8	6.4	8.3	4.3	
2019	100.5	47.9	25.7	14.3	7.9	52.6	4.9	0.8	13.5	14.3	6.4	8.4	4.4	
2020	91.3	42.3	22.8	12.4	7.2	49.0	4.5	0.7	13.8	12.8	5.6	7.7	3.9	
2019 3Q	101.3	48.4	26.0	14.7	7.7	52.9	5.1	14.7	13.6	14.0	6.5	8.7	4.2	
	4Q	101.3	48.3	25.9	14.2	53.0	5.0	14.2	13.8	14.5	6.4	8.2	4.3	
2020 1Q	93.7	45.3	24.5	13.0	7.8	48.4	4.6	13.0	11.7	13.5	5.9	7.8	4.2	
	2Q	83.4	37.8	20.2	11.0	45.6	4.0	11.0	14.2	11.5	4.9	7.0	3.4	
	3Q	93.5	43.2	23.3	13.1	6.8	50.3	4.7	13.1	14.4	12.6	8.1	3.9	
	4Q	94.5	42.9	23.0	12.5	7.4	51.6	4.8	12.5	14.9	13.5	5.9	7.7	4.0
2021 <sup>o</sup> 1Q	93.2	42.3	22.8	11.9	7.6	50.9	4.6	11.9	14.7	13.5	5.8	7.6	4.0	
	2Q	94.7	43.9	24.3	12.6	7.0	50.8	4.6	12.6	15.1	12.9	5.8	7.8	3.9
	3Q	97.9	45.7	24.9	13.7	7.1	52.2	4.9	13.7	15.3	12.7	6.2	8.4	3.9

자료: 한국석유공사

Source: Korea National Oil Corporation

## 9.3 국제 석유 가격

## International Oil Prices

		OPEC 바스켓 OPEC Basket	아랍라이트 Arab Light	두바이 <sup>1</sup> Dubai <sup>1</sup>	브렌트 <sup>1</sup> Brent <sup>1</sup>	서부텍사스 <sup>1</sup> WTI <sup>1</sup>	오만 <sup>1</sup> Oman <sup>1</sup>
		달러/배럴 (USD/bbl)					
1990		21.3	20.7	20.5	-	-	20.8
1991		17.7	17.4	16.6	-	-	17.1
1992		17.8	17.9	17.2	-	-	17.7
1993		15.6	15.7	14.9	-	-	15.8
1994		15.5	15.4	14.8	-	-	15.3
1995		16.9	16.8	16.1	-	-	16.4
1996		20.3	19.8	18.6	-	-	19.3
1997		18.8	18.8	18.2	-	-	18.6
1998		12.3	12.3	12.2	13.3	14.4	12.1
1999		17.5	17.4	17.3	18.0	19.3	17.4
2000		27.6	26.8	26.3	28.5	30.3	26.8
2001		23.2	23.1	22.8	24.9	26.0	22.9
2002		24.5	24.3	23.9	25.0	26.2	24.1
2003		28.2	27.8	26.8	28.5	31.0	27.4
2004		36.0	34.5	33.7	38.0	41.5	34.4
2005		50.7	50.2	49.6	55.3	56.7	50.6
2006		61.0	61.0	61.6	66.1	66.3	62.7
2007		69.5	69.1	68.3	72.7	72.4	68.8
2008		94.1	94.8	94.3	98.5	99.8	95.0
2009		60.9	61.2	61.9	62.7	62.1	62.2
2010		77.4	77.8	78.1	80.3	79.6	78.4
2011		107.4	107.9	106.0	110.9	95.1	106.7
2012		109.5	110.3	109.0	111.7	94.2	109.3
2013		105.9	106.6	105.3	108.7	98.1	105.5
2014		96.2	97.1	96.6	99.5	92.9	96.8
2015		49.5	49.9	50.7	53.6	48.8	51.1
2016		40.7	40.9	41.4	45.1	43.5	42.1
2017		52.8	53.0	53.2	54.7	50.9	53.5
2018		69.5	70.3	69.7	71.7	64.9	70.0
2019		64.1	65.0	63.5	64.2	57.0	63.9
2020		41.4	42.4	42.3	43.2	39.3	42.5
2019	11	62.9	64.0	62.0	62.7	57.1	62.8
	12	66.5	67.5	64.9	65.2	59.8	65.4
2020	1	65.1	66.6	64.3	63.7	57.5	64.7
	2	55.5	56.8	54.2	55.5	50.5	54.5
	3	33.9	-	33.7	33.7	30.5	34.0
	4	17.7	18.3	20.4	26.6	16.7	20.5
	5	25.2	25.0	30.5	32.4	28.5	30.8
	6	37.1	36.1	40.8	40.8	38.3	40.9
	7	43.4	43.5	43.3	43.2	40.8	43.4
	8	45.2	45.3	44.0	45.0	42.4	44.2
	9	41.5	42.1	41.5	41.9	39.6	41.6
	10	40.1	40.3	40.7	41.5	39.6	41.0
	11	42.6	43.0	43.4	44.0	41.4	43.8
	12	49.2	49.2	49.8	50.2	47.1	50.0
2021 <sup>P</sup>	1	54.4	54.8	54.8	55.3	52.1	54.8
	2	61.1	61.5	60.9	62.3	59.1	61.0
	3	64.6	65.2	64.4	65.7	62.4	64.5
	4	63.2	64.1	62.9	65.3	61.7	63.0
	5	66.9	67.7	66.3	68.3	65.2	66.4
	6	71.9	72.8	71.6	73.4	71.4	71.7
	7	73.5	74.2	72.9	74.3	72.4	73.1
	8	70.3	71.4	69.5	70.5	67.7	69.6
	9	73.9	75.0	72.6	74.9	71.5	72.7
	10	82.1	82.8	81.6	83.8	81.2	81.7
	11	80.4	80.8	80.3	80.9	78.7	80.5

1. 현물가격

자료: OPEC, 한국석유공사

1. Spot prices

Source: OPEC, Korea National Oil Corporation

## 부록

## Appendix



### 에너지 용어

- 냉난방도일(Heating/Cooling Degree-Days) : 매일의 일평균기온과 기준 온도의 차이를 일별로 누적하여, 일평균기온이 24℃ 보다 높은 경우는 냉방도일로, 18℃보다 낮은 경우는 난방도일로 계산
- 비에너지유(Non-Energy Use) : 나프타, 용제, 아스팔트를 포함
- 에너지유(Energy Use) : 휘발유, 등유, 경유, 벙커유, 제트유를 포함
- 재고증감(Stock Change) : 생산자, 수입자 및 에너지전환 산업체의 재고의 증감을 나타내며, 최종소비자의 재고는 제외
- 중유(Residual Fuel Oil) : 중질 연료유로 중유(벙커유)가 이에 해당
- BPSD(Barrel per Stream Day) : 석유정제설비의 능력을 표시하는 단위로서, 연간 처리량을 가동일수로 나눈 값임
- C & F(Cost and Freight) : FOB가격에 수송비를 포함
- CIF(Cost, Insurance and Freight) : C & F가격에 보험료를 포함하며, 주로 수입가에 적용함
- FOB(Free on Board) : 본선인도가격으로 수출가격 기준으로 주로 적용함
- LNG(Liquefied Natural Gas) : 수송 및 저장에 용이하도록 압축 또는 냉각으로 액화된 천연가스
- LPG(Liquefied Petroleum Gas) : 액화석유가스로 정제공정 및 원유 안정화 공정에서 생산한 파라핀계의 탄화수소물로, 주성분은 프로판, 부탄 또는 이들 두가지의 혼합물로 구성
- NGL(Natural Gas Liquid) : 액화탄화수소물로서 천연가스의 제조·정제 및 안정화 공정에서 생산되며, 주성분으로 에탄, 프로판, 부탄, 천연가솔린, 콘덴세이트 및 소량의 비탄화수소물을 포함
- toe(Ton of oil equivalent) : 원유 1톤이 가지고 있는 열량으로  $10^7$  kcal임

## 에너지경제연구원 회원 제도 안내

구분	연회비	제 공 자 료 (발행주기)	특 기 사 항
일반 회원	50만원	<ul style="list-style-type: none"> <li>에너지통계월보 (월간)</li> <li>에너지통계연보(연간)</li> <li>에너지포커스(계간)</li> <li>지역에너지통계연보(연간)</li> <li>Energy Info. Korea(연간)</li> </ul>	<ul style="list-style-type: none"> <li>본 연구원 주최 주요 학술세미나 및 정책토론회 초청</li> <li>에너지 및 자원분야 의문사항에 대한 해당분야 전문가 소개</li> </ul>
에너지포럼 회원	100만원	<ul style="list-style-type: none"> <li>에너지통계월보 (월간)</li> <li>에너지통계연보(연간)</li> <li>에너지포커스(계간)</li> <li>에너지수요전망 보고서(분기)</li> <li>정책연구보고서(부정기)</li> <li>지역에너지통계연보(연간)</li> <li>국가에너지기본계획 보고서(5년)</li> <li>세미나 자료(부정기)</li> <li>Energy Info. Korea(연간)</li> </ul>	<ul style="list-style-type: none"> <li>인터넷 포럼회원 전용자료실을 통한 에너지 및 자원정보 제공(회원ID 및 부여)</li> <li>본 연구원 주최 주요 학술세미나 및 정책토론회 초청</li> <li>에너지 및 자원분야 의문사항에 대한 해당분야 전문가 소개</li> </ul>
On-line 자료		<ul style="list-style-type: none"> <li>세계에너지시장 인사이트(주간)</li> </ul>	

## 1. 연회비 (발송비 포함)

- 일반회원(국내) : 500,000원
- 일반회원(국외) : \$2,000
- 에너지포럼회원(국내) : 1,000,000원

## 2. 회원 가입 신청서

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	주소		
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